

University of Madras

[Estd. 1857, NAAC “A” grade, NIRF Universities Ranking: 22]

***CBCS HANDBOOK 2021-2022***

### MISSION OF THE UNIVERSITY

Our Mission is to impart quality higher education in consonance with our motto "*learning promotes natural talent*". We strive to develop citizens with knowledge, skill and character leading to societal transformation and national development. We aim at making our students men and women, who offer their selfless service for the progress of the country and people.

**தமிழ்த்தாய் வாழ்த்து**

நீராரூங் கடலுடுத்த நிலமடந்தைக் கெழிலொழுகும்  
சீராரூம் வதனமெனத் திகழ்பரதக் கண்டமிதில்  
தெக்கணமும் அதிற்சிறந்த திராவிடநல் திருநாடும்  
தக்கசிறு பிறைநுதலும் தரித்தநறுந் திலகமுமே!  
அத்திலக வாசனைபோல் அனைத்துலகும் இன்பமுற  
எத்திசையும் புகழ்மணக்க இருந்தபெருந் தமிழணங்கே!  
தமிழணங்கே!

உன் சீரிளமைத் திறம்வியந்து செயல்மறந்து  
வாழ்த்துதுமே! வாழ்த்துதுமே! வாழ்த்துதுமே!

மனோன்மணியம் பெ. சுந்தரம்பிள்ளை

**NATIONAL ANTHEM**

Jana gana mana adhi nayaka jaya he  
Bharatha Bhagya Vidhata  
Punjab Sindhu Gujaratha Marata  
Dravida Utkala Banga  
Vindhya Himachala Yamuna Ganga  
Uchchala Jaladhi taranga  
Tava Suba name jage  
Tava Suba ashisha mage  
Gahe tava jaya gatha  
Janagana mangala dayaka jayahe  
Bharatha bhagya Vidhata  
Jaya he Jaya he Jaya he  
Jaya jaya jaya jaya he

- Rabindranath Tagore



# UNIVERSITY OF MADRAS

Chepauk, Chennai – 600 005, Tamil Nadu, India.

(State University – Established in 1857 under the Act of  
Incorporation XXVII – Madras University Act 1923)



**Prof. S. GOWRI** M.Tech.(IITM), Ph.DITM), P.D.F. (NTU, Singapore, MSME (USA)  
Vice – Chancellor

## MESSAGE

Greetings,

I am glad to welcome the students of 2021-2022 batch to the University of Madras, a portal for excellence in higher education in the country. You should feel proud belonging to one of the oldest and prestigious Universities in this country. It is ranked at 28<sup>th</sup> position among all Indian Universities by NIRF.



Our University's students have actively participated in extension activities with various governmental and non-governmental organisations through NSS, NCC and Youth Red Cross etc. They have organised Road Safety campaign, World Population Day Rally, National Eye Donation Rally, blood donation camps and tree plantation programmes.

The curriculum of many of the Post Graduate programmes have been revised. New Post-Graduate Programmes, Diploma and Certificate courses have been instituted in the University - Departments with effect from the Academic year 2021-2022. Many students have selected MOOCs from SWAYAM and NPTEL platforms as part of CBCS credit requirements.

One supernumerary seat has been sanctioned for admission of Specified Category (i.e., Differently abled, Sports person and wards of Ex-servicemen / Tamil Students of Andaman and Nicobar Island) for each Department of the University of Madras and one seat for transgender students is provided in each University Department for admission as supernumerary seat apart from the Specified Category from the academic year 2021-2022.

An Orientation Programme was organised for the students of First year PG of all campuses through online Platform. The Directors, Deans, Faculties and students have attended the Programme. Thirty students from various University departments were selected under Madras University Free Education Scheme for the year 2020-2021.

Through Internship, Entrepreneurship and Career Hub (ECH under RUSA 2.0) has trained PG students in specific skill-based Internship courses with industrial visits. The resource persons were invited from specific industries for this purpose.

The University is taking preventive measures against the spread of Novel Corona Virus. COVID swap test was done to faculty, staff and students. The University had arranged vaccination camps and awareness programmes.

The revised Scheme of Examinations and Syllabi for all the Post Graduate Programmes, offered in the University - Departments under CBCS, based on the Learning Outcome based Curriculum Framework (LOCF) prescribed by the UGC, is put into effect from the academic year 2021-2022.

I wish you all a happy study time at the University of Madras. May you all carry wonderful memories with you as your march into a glorious future. I am sure that your dedication and hard work will always be with you to lead you in your a step ahead.

With the best wishes

January 10, 2022

Sd/xxxxx  
[Professor S. GOWRI]

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## I MAJOR FUNCTIONARIES OF THE UNIVERSITY

Hon'ble Governor of Tamil Nadu  
**Thiru. R.N. Ravi**  
*Chancellor*

Hon'ble Minister for Higher Education, Government of Tamil Nadu  
**Thiru. K. Ponmudi**  
*Pro-Chancellor*

**Professor S. Gowri, M.Tech (IITM), Ph.D (IITM)**  
*Vice-Chancellor*

**Dr. N. Mathivanan**  
*Registrar i/c.*

**Dr. K. Pandian**  
*Controller of Examinations i/c.*

### DEANS

<i>Dr. Elangovan Vellaichamy</i>	<i>Academic</i>
<i>Dr. G. Patrick</i>	<i>Research</i>
<i>Dr. S. Prakash</i>	<i>UICIC</i>
<i>Dr. Shaik Mohammed Hussain</i>	<i>Students Affairs</i>
<i>Dr. R. Rangarajan</i>	<i>College Development Council</i>
<i>Dr. B. Venugopal</i>	<i>Legal Affairs</i>

### CAMPUS DIRECTORS

<i>Dr. S. Armstrong</i>	<i>Chepauk Campus</i>
<i>Dr. K. Habeeb Ahmed</i>	<i>Marina Campus</i>
<i>Dr. R.R. Krishnamurthy</i>	<i>Guindy Campus</i>
<i>Dr. A.K. Munirajan</i>	<i>Taramani Campus</i>

### DIRECTORS

<i>Dr. V. Sankar</i>	<i>Research Schemes &amp; Projects</i>
<i>Dr. B. Venugopal</i>	<i>USAB</i>
<i>Dr. Rita John</i>	<i>ICOM</i>
<i>Dr. S. Janarthanan</i>	<i>Planning &amp; Development</i>
<i>Dr. V.P. Matheswaran</i>	<i>Publications</i>
<i>Dr. R. Jaganathan</i>	<i>IQAC</i>
<i>Dr. P.L. Chitra</i>	<i>Network Operation</i>
<i>Dr. V. Mahadevan</i>	<i>Director of Physical Education</i>
<i>Dr. S. Elumalai</i>	<i>Dr. ALM Centre for Basic Science Development</i>
<i>Dr. V.P.Matheswaran</i>	<i>UGC Human Resource Development Centre</i>

### CO-ORDINATORS

<i>Dr. S. Armstrong</i>	<i>Earn While you Learn Scheme</i>
<i>Dr. K. Ravichandran</i>	<i>Centre for e-learning/Pan African/e-Network</i>

### LIBRARIANS

<i>Dr. K. Kaliyaperumal</i>	<i>Librarian, Chepauk Campus</i>
<i>Dr. S.Baskaran</i>	<i>Asst. Librarian &amp; Library i/c, Marina Campus</i>
<i>Dr. P. Dhanasekaran</i>	<i>Asst. Librarian &amp; Library i/c, Guindy Campus</i>
<i>Dr. V. Kalaiappan</i>	<i>Asst. Librarian &amp; Library i/c, Taramani Campus</i>

## II INSTRUCTIONS TO THE STUDENTS

1. The Handbook contains the details of courses (papers) of the programme conducted in the University Departments.
2. Students shall view the detailed Course Contents are also available in the Madras University Website at [www.unom.ac.in](http://www.unom.ac.in)
3. Students shall carefully read the CBCS Regulations and Academic Calendar for their information regarding the course registration, option for electives, etc.
4. Students are advised to register for the Core, Elective, Soft Skill and Internship courses in consultation with their student advisor.
5. Students shall take note of the scheduled dates mentioned in the **Academic Calendar** for Course Registration, Payment of Tuition Fees, Payment of Examinations Fees and **no separate intimation will be sent in this regard.**
6. Students shall register for the examination online for each semester for the PG Degree programmes offered in the University Departments through their departments only. Students shall hand over the copy of online course registration cum examination form to the Head of the Department as per schedule along with online payment of examination fees.
7. Students shall register only for the courses prescribed for the batch of students admitted in 2021-2022 as detailed in this Handbook.
8. Students shall register for all the arrear courses (papers) of previous semesters along with current/subsequent semester irrespective of their failure to appear in any of the semester examinations during the course of study.
9. Student's conduct is governed by the Madras University Students Conduct Rules, 2005.

*Ragging in any form is strictly prohibited and will be dealt with seriously by the authorities of the University of Madras. University has a proper redressal mechanism in place to deal with ragging. In case of ragging, student will be issued a Transfer Certificate immediately and a police complaint will be lodged to take suitable action as per the Tamilnadu Prohibition of Ragging Act 1997.*

*Ragging* constitutes one or more of any of the following acts:

1. Any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student;
2. Indulging in rowdism or indisciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student;
3. Asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student;

4. Any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher;
5. Exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.
6. Any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students;
7. Any act of physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health or person;
8. Any act or abuse by spoken words, e-mails, post, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to fresher or any other student;
9. Any act that affects the mental health and self-confidence of a fresher or any other student.

As per the UGC recommendations:

**“If any incident of ragging comes to the notice of the, authority, the concerned student shall be given liberty to explain and if the explanation is not found satisfactory, the authority would expel the student from the institution”.**

### III. UNIVERSITY OF MADRAS: A PROFILE

One of the oldest Universities in India, the University of Madras is entering 164<sup>th</sup> year of its existence in 2021-2022. The University of Madras, organized on the model of London University, was incorporated on 5<sup>th</sup> September 1857 by an Act of the Legislative Council of India. The University has as its motto *‘Doctrina Vim Promovet Insitam’* meaning *‘learning promotes (one’s) innate talent’*.

The University which had only 17 University Departments, 30 teachers and 69 research scholars in 1912, has grown into a large teaching-cum-affiliating University with 18 Schools and 87 Departments of Post-Graduate Teaching and Research, 128 Affiliated Colleges, with 3 approved Institutions (OT), 5 approved Institutions (Diploma/Certificate Courses), 15 stand alone Institutions (MBA/MCA), and 53 approved research Institutions by 2020. The research and teaching functions of the University were enhanced by the Report of the Sadler Commission and the gains were consolidated by the enactment of the Madras University Act of 1923, which governs the University with subsequent amendments made from time to time.

An idea of the strides made by the University can be had from the number of University Departments / Colleges that have received special recognition by the national and funding agencies.

• U.G.C. Centres for Advanced Studies	03
• UGC Departments of Special Assistance	05
• DST FIST Departments	06
• U.G.C. COSIST	Nil
• U.G.C.ASIHSS	Nil
• U.G.C. Innovative Centres	06
• Number of autonomous colleges	23



• Number of colleges recognized as colleges with Potential for Excellence	02
• Number of University Departments	87
• Number of Affiliated Colleges	128
• Number of approved Research Institutions	53
• Number of Schools	18

The University has signed MOUs with 14 foreign and 25 Indian Universities and also with 21 Industry/Service Organizations. Nearly 141 sponsored research projects funded by various agencies are being carried out in the University departments. The National Assessment and Accreditation Council (NAAC) again reaccredited the University at the 'A' level in 2014. The University of Madras was also one among the first five Universities in the country to receive recognition from the University Grants Commission as a 'University with Potential for Excellence'.

In the nearly 164 years of its existence, the University has made significant contributions to the cause of higher education and research in the country. Many of the alumni who have come out of the portals of the University of Madras and who have made significant contributions to science and society: Sir C.V. Raman, Prof. S. Chandrasekhar, Dr. S. Radhakrishnan, Dr. G. N. Ramachandran, Prof. Neelakanta Sastri, Dr.T.M.P. Mahadevan, Dr. C.N. Annadurai and among others.

The University offers Distance Education Programmes in many disciplines through the Institute of Distance Education. The UGC – Human Resource Development Centre of the University conducts Refresher and Orientation programmes for College and University teachers.

The University has been a pioneer in many respects in terms of innovation in higher education. As one of the three oldest Universities in the country and as an institution which has given birth to practically every University in the Southern states, the University of Madras is conscious of its moral obligation to play a pro-active leadership role for quality in the Indian higher education system. The University continues to strive to contribute to the higher education and research goals of the nation with an awareness of its glorious past and noble traditions and the need for maintaining a high quality and excellence in all its future activities.

## **LOCATION**

The University of Madras is spread over six campuses, viz., Tholkappiar (Chepauk), Parithimar Kalaignar (Marina), Maraimalai (Guindy), Sekhizhar (Taramani), Bharathiar (Chetpet) and Elango adigal (Maduravoyal). The main campus of the University of Madras is located in Tholkappiar Valagam (Chepauk). The stately and historic Senate House, the Library building with its imposing clock tower, the spacious Centenary Auditorium, the massive Centenary Building is some of the important building of the University campus at Chepauk. Most of the Science departments are located in the Guindy Campus of the University. The campus at Taramani houses the Dr. A. Lakshmanaswamy Mudaliar Post-Graduate Institute of Basic Medical Sciences. The Oriental and Indian languages departments, the Post-graduate Hostel for Men and the University Guest house are located in the Marina Campus. The University Union for Sports and its pavilion are on the Spur Tank Road in Chetpet Campus. The Botanical Garden of the University is located in the Maduravoyal campus.

## **STUDENTSHIP OF THE UNIVERSITY**

The Studentship of the University of Madras is open to all without distinction of nationality, race, religion, community or sex. Foreign students intending to join the University are advised to write to the Director, University Students Advisory Bureau (USAB), University of Madras, Chepauk, Chennai 600 005 at least by May of the calendar year for appropriate action.

## CITIZENS' RIGHTS

The University of Madras recognizes that every citizen, and especially the student, has the following rights:

- The right to be informed
- The right to choose
- The right to be heard
- The right for redressal
- The right to healthy environment
- The right to have access to higher education

These rights are adhered to by the Departments of the University and by the affiliated colleges.

## STUDENT SUPPORT SERVICES

The University offers a number of student support services. These include the Library, Hostel accommodation, Endowments and Scholarships, 'Earn while you Learn Scheme', University Students Advisory Bureau, SC/ST Cell, NSS and NCC activities and avenues for Sports and Games.

## UNIVERSITY LIBRARY SYSTEM

Many of the Departments of the University have their own library collections. Besides, all the campuses of the University are served by large libraries. Computer based information services have been introduced. The Main Library of the University is located at its Tholkapiar Campus. Besides maintaining a collection of print materials, the University Library system also maintains a collection of E-resources on CDs and also subscribe to over four thousand e-journals under U.G.C.'s INFONET programme.

### The working hours of the libraries are as below:

University Library, (Chepauk) (Tholkappiar Valagam)	:	8.00 A.M. to 8.00 P.M. <i>on all days.</i>
Guindy Campus library (Maraimalai Valagam)	:	8.00 a.m. to 8.00 p.m. <i>on all working days &amp; from 10.00 a.m. to 4.30 p.m. on holidays</i>
Taramani Campus Library (Sekhizhar Valagam)	:	9.00 a.m. to 6.00 p.m. <i>on all working days.</i>
Marina Campus Library (Parithimar Kalaignar Valagam)	:	10.00 A.M. to 5.45 P.M. <i>from Monday to Friday (Excluding public holidays)</i>

## INTERNET CENTRE

The University operates *Internet Centres* in all the campuses. The internet centres are open to all the students of the University departments.

## STUDENT HOSTELS

Limited accommodation is available to needy and deserving students in the following six hostels maintained by the University.

*Mother Theresa Hostel for Women/ Chepauk Campus*  
*Thiruvalluvar Hostel for Men/ Marina Campus*  
*Bharathiar Hostel for Men/ Guindy Campus*  
*Avvai Hostel for Women /Guindy Campus*  
*Bharathidasan Hostel for Men / Taramani Campus*  
*Dr.Muthulakshmi Reddy Hostel for Women/ Taramani Campus*

The hostels provide basic amenities including a common lounge with television, radio, newspapers and magazines.

### **INTERNATIONAL CENTRE OF MADRAS UNIVERSITY (ICOM)**

The University of Madras established the International Centre of Madras University (ICOM) in 2003 in consonance with UGC's X Plan programme on Promotion of Indian Higher Education Abroad (PIHEAD) in fulfillment of its policy evolved to promote the free flow of students from other nations to India, as well as allow Indian students to get educated in other nations. The primary motto of the ICOM is to provide educational excellence and culturally appropriate ambience to all international students.

The ICOM students are advised to contact the Director, ICOM, University of Madras for admission to the courses they are interested in.

On being admitted and after paying the prescribed eligibility fee, the Students Coordinator's office at International Centre of Madras University (ICOM) first scrutinizes the original credentials of the foreign students who are aspiring to pursue either higher programmes or do specialized courses (papers) and then issues eligibility certificates. If it is an Under Graduate programme, with eligibility certificate, a student is directed to go to any of the affiliated colleges according to his/her choice. If it is a Post Graduate programme, the student is admitted into the respective University Departments, subject to clearance by the Ministry of Human Resource Development (MHRD) and subject to production of student's visa on paying the prescribed fee.

The ICOM also encourages joint Ph.D. programmes between the Madras University and foreign Universities from where students are hailing.

### **UNIVERSITY STUDENTS ADVISORY BUREAU (USAB)**

The USAB housed in the Chepauk campus of the University offers counseling and career guidance and also offers placement services to graduates and post graduates of the University. USAB organizes exhibitions on careers and vocations. USAB is the authorized body of the University of Madras for attestation of certificates/marks statements of the University students applying for admission to foreign Universities. The other activities include: Issue of Railway Concession Forms (Season Ticket, Vacation, Data Collection and Educational Tour) to the students studying in the University Departments; Organising Science Talent Promotion Scheme for the First year P.G. Students studying in the University Departments; Organising Job oriented Short-term courses for the Unemployed Graduates; Providing Computer Training courses to the Students; Offering coaching classes for various Competitive Examinations such as UPSC Civil Service Preliminary Examination / TNPSC Group I and II, Staff Selection Commission, UGC NET Examination; Conducting Seminars and Workshops on Career Oriented Courses for the benefit of Graduate/Post Graduate students of the University and the Public; arranging Inter Departmental Cultural Programmes (UNIFEST) for the students in the University Departments; set up cultural Get-together frequently for the International Students studying in the University Departments and affiliated Colleges; celebrating International Women's day with the participation of Women's staff and students of University Departments and affiliated Colleges.

## **NATIONAL SERVICE SCHEME (NSS) AND NATIONAL CADET CORPS (NCC)**

The NSS Unit of the University organizes regular and special camps related to health and hygiene, literacy, environment, personality development, etc. These camps are usually held in the campuses of affiliated colleges or in the adopted villages. These involve student volunteers in various youth-related seminars, workshops and training programmes. NSS Unit also deputed volunteers to various Inter State Camps, National Integration Camps and also Inter State and National Cultural Festivals.

The NSS students of Madras University area take part in All India Basic Leadership Camps (Boys and Girls), Nau Sainik Camps, All India Competition Camps, Vayu Sainik Camps, Skeet shooting, drill and glider competitions, Para Training courses, Mountaineering courses, Army, Navy, Air Force training, All India Trekking Expeditions, National Integration Camps, Para Sailing, Flying/Gliding training, etc.

## **SPORTS AND GAMES**

For the promotion of Sports, the Madras University Union was formed in the year 1932 at Rutland House, Spur Tank Road, Chetpet, Chennai. The facilities include a pavilion, sports track, athletic track, volley ball court, basket ball court, badminton court, and two tennis courts. Students of the University participated in more than 30 South zone and All India Inter-University Sports competitions annually.

## **SC/ST CELL**

A Standing Committee for the welfare of SC/ST has been constituted in the University with the Vice-Chancellor as Chairman to look after the welfare of SC/ST students. A Special Cell for the welfare of students belonging to Scheduled Castes and Scheduled Tribes has been set up. The cell has the responsibilities of receiving, scrutinizing and processing applications from SC/ST students of University departments for: Tuition fee concession; National overseas scholarship for higher studies abroad; Indian Oil scholarships to SC/ST students pursuing full time P.G. Programmes in Business Administration / Management in recognized institutions; closely monitor the implementation of the reservation policy of the State Government in admission and hostel accommodation; Collect data from the University departments and affiliated colleges regarding admission of SC/ST students and hostel accommodation SC/ST students may contact the SC/ST Cell, University of Madras, Tholkapiar Valagam for any guidance and redressal of grievances.

Fee concession would be given to the SC/ST candidates for Self-Supportive courses offered in the University Departments. These students are entitled for 50% fee concession on Tuition fee, Laboratory fee and Special fee only.

The fees payable by the SC/ST students of other states are not reimbursed by the Govt. of Tamil Nadu, hence other state SC/ST students have to pay the fees in full as levied to other students and later they can get it refunded from their respective State Governments Scholarship.

## **DIFFERENTLY ABLED STUDENTS**

Full fee exempted from payment including examination fee and special fees are provided for the Physically Challenged students in P.G. and M.Phil Programmes in the University Departments of Teaching and Research.

### **MADRAS UNIVERSITY FREE EDUCATION SCHEME**

Tuition and other Fees except Examination Fees for one poor student based on merit and economic status in each P.G. Programme will be provided.

Candidates belonging to SAARC countries are entitled to 40% concession on Tuition Fee only. Sri Lankan Tamil students and Tibetan refugees are eligible to pay Tuition and other course fees on par with the Indian students for all the P.G/M.Phil Programmes offered in the University Departments under CBCS Regulations.

### **EARN WHILE YOU LEARN SCHEME**

A novel scheme of 'Earn while you Learn' for Post-graduate students and Research Scholars of the University has been introduced. Under this, deserving students will work as Part-time Laboratory Assistants, Library Assistants, Technical Assistants, and Tutorial Assistants (for M.Phil & Ph.D. Scholars) in the University for a specified number of hours every month. They will receive a suitable monthly remuneration.

### **ENDOWMENTS**

Several medal and prizes for holders in various examinations, for outstanding essays, for thesis are awarded under various Endowments instituted in the University.

### **SOFT SKILL PROGRAMME**

In tune with the goals and vision of the University, the authorities of the University devised new methodology for successfully conducting Soft Skill courses in the four campuses. The University of Madras has been offering the Soft Skills program to all its students. It is mandatory for every student of the University to acquire 8 credits from this program to successfully complete their post graduation degree. The Soft Skills program at the University is a thirty hour module.

### **REFUND OF FEES**

As per the UGC Guidelines, the refund of fees paid by the candidates who have withdrawn before beginning of the classes will be refunded after deduction of Rs.1000/- (Notification F.No.1-3/2007 (CPP II) dated 23.04.2007).

### **LANGUAGE LABORATORIES**

The language laboratory focuses on computer-aided multi-media instruction and language acquisition. This learner friendly mode of language learning enables the students to be self instructional. The laboratory acts as a platform for learning, practicing and producing language skills through interactive lessons and communicative mode of teaching.

### **INTERNSHIP**

Internship is intended to gain practical knowledge related to the study. The duration is for 4-6 weeks for 2 credits and 6-8 weeks for 3 credits and it should be carried out in an organization recommended by the Department during the summer vacation of the first year. A report must be prepared and submitted to the HOD concerned for evaluation and grading.

## **STUDENTS SAFETY INSURANCE**

Compulsory Students Insurance Scheme has been introduced for the students of University Departments of study and research.

### **STUDENTS SAFETY INSURANCE SCHEME ALONG WITH THE SALIENT FEATURES IS FURNISHED BELOW:**

- Insurance to the Students' to be given any time/anywhere during their period of study.
- Hospitalization Charges (arising out of accident) up to Rs.1,00,000/- to the students.
- In the event of death of the Students (arising out of accident) coverage of Rs.2,00,000/- and medical expenses of Rs.1,00,000/-
- In the event of accidental death of the students' bread winner parent/guardian, as a package Rs.1,00,000/-
- Any intimation of the occurrence giving rise to a claim should be made to the Company immediately by the Department/Institution.

## **RAGGING REDRESSAL COMMITTEE**

University has zero tolerance for any kind of ragging which will cause any inconvenience to students in academic institutions. University has appointed a High Level Committee with the Vice-Chancellor as the Chairperson to consider any issue pertaining to ragging in the University Department and affiliated colleges.

## **WOMEN'S SEXUAL HARASSMENT REDRESSAL CELL**

University discourages any form of harassment based on Gender and encourages students to give respect to fellow students without any discrimination. If there is any kind of harassment, the University authorities would deal with the matter severely and accord due punishment. University has constituted a Redressal Cell to oversee complaints regarding any kind of harassment of women.

## **PREVENTION AND REDRESSAL OF HARRASMENT AGAINST STUDENTS, STAFF AND FACULTY MEMEBRS**

In order to create safe campuses for students, staff and faculty to function without fear, threat or anxiety and to redress the grievance an Harassment Complaints Committee has been constituted to oversee complaints regarding any kind of harassment of students, staff and faculty members.

## **IV. SCHOLARSHIPS**

Apart from SC/ST, BC/MBC and National Merit scholarships many other scholarships are available to the students of the University Departments.

1. The Lions International Endowment Scholarship (C&UD) (All Departments – Humanities, Science)
2. Rotary Club of Madras city Endowment Scholarship (C&UD) (All Departments)
3. The Lady Willingdon Peace Endowment Scholarship (C&UD) (M.A. Degree – VII-A, VII-E)
4. Srimathi Sivakama Radhakrishnan Scholarship (C&UD) (Department of Philosophy)
5. The Sir T. Muttuswami Ayyar Endowment Scholarship (C&UD) (Department of Geology & Applied Geology, Physics, LL.M)
6. The Srimathi Padmasani Bai Endowment Scholarship (C&UD) (Department of Indian Music)

7. The K.N. Ayyaayyar Endowment Scholarship (C&UD) (Department of Physics & Physical Chemistry and Maths)
8. The Gokhale Endowment Scholarship (UD&C) (Department of Economics)
9. Sambuvarayar Endowment Scholarship (All Departments)
10. Aringnar Anna Endowment Scholarship(C&UD) (All Departments)
11. Maharaja Sri Ganga Singhji Endowment Scholarship (Department of Anatomy, Genetics, Endocrinology, Physiology, Medical Biochemistry, Microbiology, Pharmacology & Environmental Toxicology).
12. Professor R. Selvam Endowment Scholarship (Department of Medical Bio – Chemistry)
13. A.M.M. Foundation Endowment Scholarship (Department of Sanskrit)
14. IBP Endowment Scholarship (Department of Ambedkar Centre for Economics Studies)
15. Dr. A.L. Mudaliar Silver Jubilee Endowment Scholarships (All Departments)
16. Prof. L. Krishnasamy Endowment Scholarship (Department of Mathematics)
17. The R.Tatachariyar Endowment Scholarship (Department of Kannada & Indian Music)
18. Lady K. Srinivasa Ayyangar Endowment Scholarship (Department of Sanskrit)
19. Shri.A. Nageswara Rao Endowment Scholarship (Department of Indian Music)
20. Thiru.A.R. Ramasawami Endowment Scholarship (Department of Commerce)
21. The N.C. Vasanthakokilam Endowment Scholarship (Department of Indian Music)
22. Balaiga Family Endowment Scholarship (Department of Sociology)
23. Barswell Law Endowment Scholarship (Department of Legal Studies)
24. The Sir T. Muttuswami Ayyar Memorial Endowment Scholarship (Department of Legal Studies)
25. Selvi.V. Saraswathi Memorial Endowment Scholarship (Department of Endocrinology)
26. Dasari Narayana Rao Endowment Scholarship (Department of Telugu)
27. Thiru.K.Gopalan Memorial Endowment Scholarship (Department of Organic Chemistry)
28. Shriman T.A.K. Venkatachariar Endowment Scholarship (Department of Sanskrit)
29. The Marsh Scholarship (C & UD)(Department of Chemistry, Physics) (on rotation)
30. Prof. S. Govindasamy Endowment Scholarship (Department of Bio-Chemistry & Medical Bio-Chemistry)
31. Prof.G.Jayaraman Scholarship (Department of Biomedical Genetics)

#### **MADRAS UNIVERSITY FREE EDUCATION SCHEME (MUFES)**

Complete fee waiver for one poor student for each programme, based on merit and Economic status (whose parental annual income is less than Rs.3,00,000/-) in each programme. (P.G.)

**V. UNIVERSITY CAMPUSES, SCHOOLS AND CONSTITUENT DEPARTMENTS**

<b>School Code</b>	<b>Name of the School</b>	<b>Constituent Departments</b>	<b>Location</b>
<b>HIS</b>	School of Historical Studies	1. Ancient History & Archaeology 2. Indian History	Chepauk
<b>SSS</b>	School of Social Sciences	1. Anthropology 2. Criminology 3. Psychology 4. Education 5. Adult & Continuing Education 6. Sociology 7. Social Work 8. Centre for Cyber Forensics & Information Security 9. Counselling Psychology 10. Women Studies	Chepauk
<b>PSI</b>	School of Political and International Studies	1. Anna Centre for Public Affairs 2. Politics and Public Administration 3. UGC-Centre for South and Southeast Asian Studies 4. Defence and Strategic Studies 5. Legal Studies 6. Rajiv Gandhi Chair in Contemporary Studies	Chepauk
<b>ECO</b>	School of Economics	1. Economics 2. Econometrics 3. Dr. Ambedkar Centre for Economic Studies 4. Centre for Population Studies	Chepauk
<b>CIS</b>	School of Information and Communication	1. Journalism and Communication 2. Library & Information Science	Chepauk
<b>PRT</b>	School of Philosophy and Religious Thought	1. Philosophy 2. Saiva Siddhantha 3. Vaishnavism 4. Jainology 5. Christian Studies	Chepauk
		6. Islamic studies	Marina
<b>FPA</b>	School of Fine and Performing Arts	Indian Music	Chepauk
<b>EFL</b>	School of English and Foreign Languages	1. English 2. French & Other Foreign Languages	Chepauk
<b>TDL</b>	School of Tamil and other Dravidian Languages	1. Tamil Language 2. Tamil Literature 3. Telugu 4. Malayalam 5. Kannada 6. Centre for Thirukkural Research 7. Sangapalagai for Tamil Development 8. Centre for Endangered Languages	Marina



<b>SIL</b>	School of Sanskrit and other Indian Languages	1. Sanskrit 2. Hindi 3. Arabic, Persian and Urdu	Marina
<b>BUS</b>	School of Business and Management Studies	1. Commerce 2. Management Studies 3. Centre for Infrastructural Management Studies	Chepauk
<b>MSI</b>	School of Mathematics, Statistics & Computer Science	1. Mathematics 2. Statistics	Chepauk
		3. Computer Science	Guindy
<b>EAS</b>	School of Earth and Atmospheric Sciences	1. Geography 2. Geology 3. Applied Geology 4. Centre for Natural Hazards and Disaster Studies 5. Centre for Water Resource Management 6. Centre for Environmental Sciences	Guindy
<b>CHE</b>	School of Chemical Sciences	1. Analytical Chemistry 2. Inorganic Chemistry 3. Organic Chemistry 4. Physical Chemistry 5. Polymer Science 6. Energy	Guindy
<b>PHY</b>	School of Physical Sciences	1. CAS in Crystallography and Biophysics 2. Nuclear Physics 3. Theoretical Physics 4. Central Instrumentation and Service Laboratory 5. Network Systems & Information Technology 6. Materials Science	Guindy
<b>LIF</b>	School of Life Sciences	1. C.A.S. in Botany 2. Zoology 3. Biochemistry 4. Biotechnology 5. Bioinformatics 6. Centre for ocean and Coastal Studies 7. Centre for Herbal Sciences 8. Centre for Stem cell Research	Guindy
<b>BMS</b>	School of Basic Medical Sciences	1. Anatomy 2. Endocrinology 3. Medical Biochemistry 4. Genetics 5. Microbiology 6. Pharmacology & Environmental Toxicology 7. Physiology 8. Pathology	Taramani
<b>NSP</b>	School of Nanoscience and Photonics	1. National Centre for Ultrafast Processes 2. National Centre for Nanoscience and Nanotechnology	Guindy
	Department of Physical Education and Sports		Chetpet

Besides Ph.D programme, many of the Departments offer programmes at various levels under the CBCS. The programmes offered include:

- *Master Degree Courses*
- *M.Phil Programmes*
- *PG Diploma Courses*
- *Diploma Courses*
- *Certificate Courses*

## **VI DEPARTMENT-WISE PROGRAMMES UNDER CBCS**

<b>Department</b>	<b>Programmes offered</b>
Ancient History and Archaeology	M.A. Ancient History and Archaeology M.Phil. Ancient History and Archaeology P.G. Diploma in Archaeology (2 Years)
Indian History	M.A. Historical Studies M.Phil. Historical Studies
Anthropology	M.A. Anthropology M.Phil Anthropology
Anna Centre for Public Affairs	M.A. Public Administration ( <i>Tamil Medium</i> ) M.A. Public Policy M.A. Development Administration M.Phil. Public Affairs
UGC - Centre for South & Southeast Asian Studies	M.A. South & Southeast Asian Studies M.Phil South & Southeast Asian Studies
Criminology	M.Sc. Criminology and Criminal Justice Science Diploma in Juvenile Justice and Juvenile Psychology (Self-Supportive) Diploma in Cyber crime and information Technology Certificate in Juvenile Justice and Juvenile Psychology
Centre for Cyber Forensic & Information Security	M.Sc. Cyber Forensic & Information Security (Regular & Self Supportive)
Education	M.Ed. ( <i>General</i> ) <i>Regular &amp; Self Supportive</i> M.Phil Education P.G. Diploma in Parent Counselling ( <i>For School Principals &amp; Teachers</i> )
Women Studies	M.A. Women Studies M.Phil. Women Studies
Social Work	Master of Social Work (M.S.W.)
Sociology	M.A. Sociology
Defence and Strategic Studies	M.A. Defence and Strategic Studies (Regular & Self Supportive) M.Phil. Defence and Strategic Studies

Politics and Public Administration	M.A. Political Science M.A. Public Administration M.A. International Relations M.Phil Public Administration M.Phil Political Science M.Phil International Relations
Adult and Continuing Education	M.A. Lifelong Learning M. A. Human Resource Management (Regular & S.S) M.Phil. Continuing Education Management ( <i>Inter-disciplinary</i> ) M.Phil Human Resource Management P.G. Diploma in Extension and Development Administration Diploma in Travel & Tourism Management Certificate in Blogging (SS) Certificate in TV News Reading & Comparing (SS) Certificate in Web-Page Design (SS) Certificate in Pre-Primary Education (SS) Certificate in NGO Management (SS) Certificate in Hospitality Management (SS) Certificate in Skin Care and Beauty Therapy (SS) Certificate in Women's Studies (SS) Certificate in Functional English & Public Speaking (SS)
Economics	M.A. Economics M.Phil Economics
Econometrics	M.A. Econometrics M.A. Financial Economics M.Phil. Applied Economics
Dr. Ambedkar Centre for Economic Studies	M.Phil. Development Economics P.G. Diploma in Ambedkar Thoughts
Philosophy	M.A. Indian Philosophy M.A. Buddhism M.A. Yoga : Theory and Practice M.Phil. Philosophy M.Phil. Buddhism P.G. Diploma in Peace & Communal Harmony P.G. Diploma in Yoga: Theory, Practice and Therapy
Journalism and Communication	M.A. Journalism and Mass Communication M.J. Online Media M.Phil Communication
Saiva Siddhanta	M.A. Comparative Religion and Philosophy with Specialization in Saiva Siddhanta Studies, M.A. Saiva Siddhanta – Philosophy and Practice M.Phil. Saiva Siddhanta P.G. Diploma in Saiva Siddhanta P.G. Diploma in Periya Puranam Studies Diploma in Saiva Siddhanta Certificate in Saiva Siddhanta
Vaishnavism	M.A. Vaishnavism M.A. Divyaprabandham M.Phil Vaishnavism

Christian Studies	<p>M.A. Comparative Religion and Philosophy with Specialization in Christian Studies  M.A. Christian Scriptures  M.Phil. Christian Studies  P.G. Diploma in Ethics and Human Resource Management  P.G. Diploma in Ethics and Biotechnology  P.G. Diploma in Spirituality and Counselling  P.G. Diploma Biblical Languages &amp; Interpretation  Certificate in Christian Communication and Media Education (Self Supportive)  Certificate in Christian Scriptures, Spiritual Practices and Ethics (Self Supportive)  Certificate in Christian Scriptures and Interpretation</p>
Jainology	<p>M.A. Jaina Studies  M.Phil. Jaina Studies  Diploma in Jaina Temple Management  Diploma in Buddhist Studies  Certificate in Buddhist Studies  Certificate course in Jainology</p>
JBAS Centre for Islamic Studies	<p>M.A. Islamic Studies  M.Phil. Islamic Studies</p>
English	<p>M.A. English (Regular &amp; Self Supportive)  M.Phil. English  P.G. Diploma in Technical writing</p>
French & Other Foreign Languages	<p>M.A. French  M.Phil. French  Diploma in French (Self Supportive)  Diploma in German (Self Supportive)  Diploma in Italian (Self Supportive)  Diploma in Spanish (Self Supportive)  Certificate in French (Self Supportive)  Certificate in German (Self Supportive)  Certificate in Italian (Self Supportive)  Certificate in Spanish (Self Supportive)</p>
Hindi	<p>M.A. Hindi  M.Phil. Hindi  P.G. Diploma in Functional Hindi &amp; Translation (Part Time)  Diploma in Hindi  Certificate in Hindi</p>
Kannada	<p>M.A. Kannada  M.Phil. Kannada  Diploma in Kannada  Certificate in Kannada</p>
Malayalam	<p>M.A. Malayalam  M.Phil. Malayalam  Diploma in Malayalam  Certificate in Malayalam</p>

Tamil Literature	M.A. Tamil Literature and Culture M.Phil. Tamil Literature P.G. Diploma in Manuscriptology and Editing P.G. Diploma in Folkloristics and Mass Media P.G. Diploma in Inscription and culture P.G. Diploma in Linguistics
Tamil Language	M.A. Tamil Studies M.Phil. Tamil Studies
Telugu	M.A. Telugu M.Phil. Telugu (F.T. & P.T.) Diploma in Telugu Certificate in Telugu
Arabic, Persian and Urdu	M.A. Arabic M.A. Urdu M.Phil. Arabic M.Phil. Urdu Diploma in Arabic Diploma in Urdu Certificate in Arabic Certificate in Urdu
Indian Music	M.A. Indian Music M.A. Bharathanatyam (Self-Supportive) M.A. Folk Music M.A. Rhythmology (Regular & Self Supportive) M.Phil. Indian Music (F.T. & P.T.) Diploma in Teaching Methodology- Abhinaya & Nattuvangam(ss) Diploma in Teaching Methodology in Music (SS) Certificate in Karnatic Music (Self Supportive) Certificate in Voice Training (Self Supportive)
Sanskrit	M.A. Sanskrit M Phil Sanskrit Certificate in Yoga (P.T.)
Legal Studies	LL.M (i) International Law and Organisation (Regular & SS)* (ii) Constitutional Law and Legal Order (Regular & SS)* *LL.M Courses offered in alternate years
Commerce	M.Com. International Business and Finance M.Com. Business Data Science (Self Supportive) M.Phil Commerce P.G. Diploma in Banking & Finance (Self Supportive) Diploma in Internal Audit Diploma in Business Research Analysis
Management Studies	M.B.A. (Regular & Self-Supportive) Executive MBA (EMBA) Weekend mode (Self Supportive)
Library and Information Science	Master of Library and Information Science (M.Lib.I.Sc.) P.G. Diploma in Digital Library Management

Psychology	M.Sc. HRD Psychology (Regular & Self-Supportive) M.Phil Psychology P.G. Diploma in Counselling Psychology P.G. Diploma in Organisational Development & Management of Change
Counselling Psychology	M.Sc. Counselling Psychology (Regular & Self-Supportive) M.Phil. Counselling Psychology P.G. Diploma in Development Disabilities (Self Supportive) P.G. Diploma in Counselling and Psychotherapy( SS) Diploma in Learning Disabilities (SS) Diploma in Austim Spectrum Disorder (SS)
RIAS in Mathematics	M.Sc. Mathematics (Regular & Self-Supportive) M.Phil. Mathematics
Statistics	M.Sc. Statistics M.Sc. Actuarial Science (Self-Supportive)
Computer Science	M.C.A (2 YEARS) M.Sc. Computer Science (Self-Supportive) M.Phil Computer Science
Geography	M.Sc. Applied Geography M.Tech Geoinformatics P.G.Diploma in Geospatial Data Analytics (Self Supportive)
Geology	M. Sc. Geology (Regular & Self-Supportive) M.Phil. Geology
Applied Geology	M.Sc. Applied Geology (Regular & Self-Supportive)
Analytical Chemistry	M.Sc. Analytical Chemistry M.Phil. Analytical Chemistry Certificate in Classical Analysis and Basic Analytical Instrumentation techniques
Inorganic Chemistry	M.Sc. Inorganic Chemistry M.Phil. Inorganic Chemistry
Organic Chemistry	M.Sc. Organic Chemistry M.Phil. Organic Chemistry
Physical Chemistry	M.Sc. Physical Chemistry M.Phil. Physical Chemistry
Polymer Science	M.Sc. Chemistry (Polymer Chemistry)
CAS in Crystallography and Biophysics	M.Sc. Biophysics
Theoretical Physics	M.Sc. Physics M.Phil. Theoretical Physics
Nuclear Physics	M.Sc. Physics M.Phil. Physics
Central Instrumentation and Service Laboratory	M.Phil. Scientific Instrumentation
Network System & Information System	M.Sc. Information Technology (Self-Supportive)
Materials Science	M.Sc. Materials Science (Self Supportive)

National Centre for Nanoscience & Nanotechnology	M.Sc. Nanoscience & Nanotechnology (Regular & Self Supportive)
Energy	M.Sc. Energy & Material Sciences
Biochemistry	M.Sc Biochemistry (Regular & Self- Supportive) M.Phil. Biochemistry
Biotechnology	M.Sc. Biotechnology (Regular & Self- Supportive)
CAS in Botany	M.Sc. Botany M.Phil. Botany P.G. Diploma in Taxonomy of Algae P.G. Diploma in Taxonomy of Fungi
Zoology	M.Sc. Zoology M.Phil. in Zoology P.G. Diploma in Molecular Cell Biology and Stem Cell Technology P.G. Diploma in Immunotechnology P.G.Diploma in Clinical Embryology (Self Supportive)
Medical Biochemistry	M. Sc. Medical Biochemistry (Regular & Self Supportive)
Genetics	M. Sc. Biomedical Genetics
Microbiology	M.Sc. Medical Microbiology (Regular & Self Supportive) (Three years)
Endocrinology	M.Phil. Endocrinology
Pharmacology & Environmental Toxicology	M.Sc. Toxicology
Anatomy	M.Sc. Anatomy (Three Years) M.Sc. Neuroscience (Self Supportive)
Physiology	M.Sc. Physiology (Three years)
Pathology	Advanced Diploma in Cellular and Molecular Pathology Techniques (Self Supportive)
National Centre for Ultrafast Processes	M.Sc. Photonics and Biophotonics
Physical Education and Sports	M.Sc. Yoga M.Phil in Physical Education & Yoga P.G. Diploma in Yogic Education

## **VII. CHOICE BASED CREDIT SYSTEM (CBCS) REGULATIONS**

### **CBCS SYSTEM**

Choice-Based Credit System is a flexible system of learning. The distinguishing features of CBCS are the following:

- It permits students to learn at their own pace
- Choose electives from a wide range of elective courses offered by the University

- Departments with consulting Department Faculty Members
- Undergo additional courses and acquire more than the required number of credits
  - Adopt an inter-disciplinary and intra-disciplinary approach in learning, and
  - Make best use of the expertise of available faculty

*General Eligibility conditions for admission to Masters Programme through formal education as per the UGC Regulations, 2018.*

No student shall be eligible for admission to a Masters degree programme in any of the faculties unless he/she has successfully completed a three year undergraduate degree or earned prescribed number of credits for an undergraduate degree through the examinations conducted by a University / autonomous institution or possesses such qualifications recognized by the University of Madras as equivalent to an undergraduate degree.

## **1 SCHOOLS, DEPARTMENTS AND PROGRAMMES**

- 1.1 There are 87 Departments of study and research in the University which are grouped into 18 schools. Most of these departments offer programmes at various levels under the CBCS.

## **2 COURSES**

- 2.1 A programme consists of a number of courses. A 'Course' is a component (a paper) of a programme. Every course offered by any University Department is identified by a unique course code. A course may be designed to involve lectures / tutorials / laboratory work/ seminar / project work / practical training / report writing / Viva voce, etc or a combination of these, to meet effectively the teaching and learning needs and the credits may be assigned suitably.

## **3 SEMESTERS**

- 3.1 An academic year consists of two semesters. Odd Semester (I and III Semesters): July to November Even Semester (II and IV Semesters): December to April
- 3.2 A semester normally extends over a period of 15 weeks. Each week has 30 hours instruction spread over a 5 day week.

## **4 CREDITS**

- 4.1 Credit defines the quantum of contents/syllabus prescribed for a course and determines the number of hours of instruction required per week. Thus, normally in each of the courses, credits will be assigned on the basis of the number of lectures/tutorial laboratory work and other forms of learning required completing the course contents a 15 week schedule:
- *1 Credit=1 hour of lecture per week (1Credit course=15 hours of lectures per semester)*
  - *3 credits = 3 hours of instruction per week (3 Credit course = 45 hours of lectures per semester)*

Instructions can take the form of lectures/tutorials/laboratory work/fieldwork or other forms. In determining the number of hours of instruction required for a course involving laboratory/field-work, 3 hours of laboratory/ field work is generally considered equivalent to 1 hour of lecture.



## 5 COURSE NUMBERING

Every course offered by any University Department is identified by a unique course code.

Illustration

EAS C 001	Geomorphology	L	T	P	C
		3	0	0	3

In this example: **EAS C 001** is the course code in which:

**EAS** - is the school code (School of Earth and Atmospheric Sciences)

**C** - Indicates that this is a Core Course

**001** - is the serial number of the Course - Geomorphology - is the title of the Course

The figures under *L*, *T* and *P* indicate the credits attached to lectures, tutorials and practical work respectively.

The figure under *C* indicates the total number of credits that the course carries (3 credits in this case).

## 6 ADMINISTRATION OF CBCS

### 6.1 CBCS OFFICE

To discharge the responsibilities of CBCS programmes of the University, there is an exclusive administration wing called CBCS Office. The CBCS Office has the following functions:

Advertisement of CBCS programmes, Approval of Admission of Students made by Departments, Course Registration, issue of identity Cards through the respective campus libraries, Coordination of Time Table and preparation of Academic Calendar, Attendance and Consolidation of awards in First Assessment, Second Assessment and the End-Semester Examination and forwarding the consolidated awards lists to the Controller of Examinations for scrutiny and distribution of Grade Cards, Cumulative Grade Cards and Provisional Pass Certificates, Convocation Degree/Diploma etc.

### 6.2 DEANS

**The Dean (Academic)** will plan and coordinate all CBCS programmes. The Dean will be assisted by a committee consisting of Chairpersons of Schools. The responsibilities of the Dean (Academic) include:

- Preparation of Academic Calendar and Handbook
- Coordination of Programmes between schools and other external institutions
- Consideration of appeals from students regarding the operational problems relating to CBCS

**Dean (Admissions)** - The responsibilities of the Dean (Admissions) include:

- Preparation of Prospectus and Admission Application forms for Post- Graduate (Masters), M.Phil, PG Diploma, Diploma and Certificate programmes offered in the University Departments.
- Admission to various courses in the University Departments.
- Coordination of Common Time Tables in consultation with Schools.

**Dean (Examinations)** - The responsibilities of the Dean (Examinations) include:

- Preparation of Registration-cum-Examination form, Grade/Cumulative Grade sheet and student transcripts
- Coordination of Common CBCS Examination and Evaluation schedule.

- Coordination with Controller of Examinations and Chairpersons of Schools for publication of results on time.

### 6.3 BOARD OF STUDIES

- 6.3.1 There shall be a school committee consisting of all the teachers of all departments of the school. In order to optimize the use of resources and talents, to avoid duplication of courses and, for effective coordination of CBCS programmes within a school; it is headed by a Chairperson.
- 6.3.2 The School Committee will prepare the common time table in consultation with the Director of the Campus.
- 6.3.3 Each school committee will meet at least twice in a semester.
- 6.3.4 Meeting notices for the School Committee will be sent by the Chairperson of the School
- 6.3.5 The School Committee will also serve as the Board of Studies for all the Programme offered by the various departments of the school. The Chairperson of the School will be the Chairperson of the Board of Studies. The Board of Studies will formulate and recommend:
- Eligibility criteria for admission to CBCS Programmes*
  - Curriculum Content*
  - Model Question Papers for each course and assessment procedure*

### 6.4 DEPARTMENTAL COMMITTEE

- 6.4.1 There shall be a Departmental Committee (as stipulated by the authorities) consisting of the teachers of the Department. The Departmental Committee shall be responsible for admission to all the programmes offered by the Department including conduct of entrance tests, verification of records, admission, and evaluation.
- 6.4.2 The Departmental Committee will deliberate on courses and specify the distribution of credits semester-wise and course-wise. For each course it will also specify the number of credits for lectures, tutorials, practicals, seminars etc.
- 6.4.3 Courses (Core/Elective) are designed by teachers and approved by the Departmental Committees. Courses approved by the Departmental Committees shall be approved by the Board of Studies.
- 6.4.4 Course Instructor: A teacher offering a course will also be responsible for maintaining attendance and performance sheets of all the students registered for the course.
- 6.4.5 Each teacher offering a course will give the attendance and performance sheets for Sessional Test I, Sessional Test II and End-Semester Examination to the Head of the Department who in turn consolidates all such performance sheets of courses pertaining to the programmes offered by the department. Then the School Committee meets to finalize the results of all courses offered under the school and forward the same to be processed by the Dean/CBCS office/Controller of Examinations.

## 7 STUDENT ADVISOR

Every student will have a member of faculty of the Department as his/her student advisor. All teachers of the department shall function as Student Advisors and will have more or less equal number of students. The Student Advisor will advise the students in choosing Elective courses and offer all possible student support services.

## 8 PROSPECTUS AND HANDBOOK

- 8.1 The Prospectus uploaded in the University website (www.unom.ac.in) for the Master/M.Phil and other programmes contains (i) A profile of the University of Madras (ii) List of Schools of the University and programmes offered in University Departments (iii) Eligibility Conditions for various programmes (iv) Fee Structure (Course and Examination fee).
- 8.2 The soft copy of the CBCS Handbook mailed to students contains (i) CBCS Regulations (ii) Complete List of Courses (Programme-wise) and (iii) the Academic Calendar for two years.

## 9 STRUCTURE OF MASTER PROGRAMME

The term '*Master Programme*' is used to denote M.A., M.Sc., M.J., M.Com., M.B.A., M.C.A., M.Ed., LL.M, M.Lib.I.Sc. and M.Tech. degree programmes offered by University Departments under CBCS.

### A Master Programme consists of:

- *Core courses*
- *Elective courses*
- *Self-Study Courses (Optional, Not mandatory)*
- *Soft Skills*
- *Internship*

A course may also take the form of a Dissertation/Project work/ Practical training/Field work/Internship/Seminar, etc.

A Core course may carry 2 to 4 credits; an Elective/Self-study will be 3 credits and courses on soft skills will carry 2 credits. However, a dissertation / project work may carry up to 6 credits; a semester - long field work may carry 10 -15 credits.

### 9.1 COMPONENTS

All Two - year Master programmes will have the following components, viz.

<i>Core Courses</i>	- <i>Minimum 60 credits (mandatory)</i>
<i>Electives</i>	- <i>Minimum 21 credits (7 x 3 credits) (mandatory)</i>
<i>Self-study courses</i>	- <i>Maximum 9 credits (3 x 3 credits) (not mandatory)</i>
<i>Soft Skills</i>	- <i>Minimum 8 credits (4 x 2 credits) (mandatory)</i>
<i>Internship</i>	- <i>Minimum 2 credits (mandatory)</i>

In order to qualify for a two-year Master Degree a Student must acquire a minimum of 91 credits - 60 credits from core, 21 credits from electives and a minimum of 10 credits from soft skills and internship (8 credit from soft skills, 2 credits from internship).

Minimum credits denotes Core – 60 Credits (Mandatory), Electives – 21 Credits (7 courses x 3 credits mandatory), Soft Skills – 8 credits (4 courses x 2 credits mandatory) and Internship – 2 credits mandatory for 2 year P.G. Programme. Students can take more than the prescribed limit of electives and soft skill courses in their own interest, in the prescribed credit structure)

The three year Master programme (e.g. M.Sc./MCA) will have following components viz.,

<i>Core Courses</i>	- <i>Minimum 90 credits (mandatory)</i>
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<i>Elective Courses</i>	- <i>Minimum 30 credits (10 x 3 credits) (mandatory)</i>
<i>Self - study Courses</i>	- <i>Maximum 12 credits (4x3 credits) ( not mandatory)</i>
<i>Soft skills</i>	- <i>Minimum 12 credits (6 x 2 credits) (mandatory)</i>
<i>Internship</i>	- <i>Minimum 3 credits (mandatory)</i>

In order to qualify for a three - year Masters Degree a student must acquire a minimum of 135 credits from Master Degree.

Minimum credits denotes Core – 90 Credits (Mandatory), Electives – 30 Credits (10 courses x 3 credits mandatory), Soft Skills – 12 credits (6 courses x 2 credits mandatory) and Internship – 3 credits mandatory for 3 year P.G. Programme. Students can take more than the prescribed limit of electives and soft skill courses in their own interest, in the prescribed credit structure)

## 9.2 DURATION

### MINIMUM DURATION

- The minimum duration for completion of a two year Master Programme in any subject is four semesters.
- The minimum duration for completion of a three year Master Programme in any subject is six semesters.

### MAXIMUM PERIOD FOR COMPLETION OF THE PROGRAMS TO QUALIFY FOR A DEGREE:

A student who for whatever reasons is not able to complete the programs within the normal period (N) or the minimum duration prescribed for the programme, may be allowed two years period beyond the normal period to clear the backlog to be qualified for the degree. (Time Span = N+2 years for the completion of programme.)

In exceptional cases like major accidents and child birth an extension of one year be considered beyond maximum Span of time (Time Span = N+2+1 years for the completion of programme).

Students qualifying during the extended period shall not be eligible for Ranking.

A student who has obtained the minimum required credits in core, elective, soft skills, and internship will be considered to have passed the Master Programme.

- Even if a candidate earns the required number of credits in less than 4 / 6 semester he/she has to necessarily study for 4 semesters for the two years Master programme and for 6 semesters for a three year Master programme.

## 9.3 CORE COURSES

Core courses are those, knowledge of which is deemed essential for students registered for a particular Master programme. Where feasible and necessary, two or more programmes offered by the same department/school or courses offered by other departments may be prescribed as one or more common core courses. A student must choose from the core courses prescribed for a particular Master Programme. Core courses shall be spread over all the four semesters.

## 9.4 ELECTIVE COURSES

Elective courses are intended:

- Allow students to specialize in one or more branches of the broad subject area

- Acquire knowledge and skills in a related area that may have applications in the broad subject area (or)
- Bridge any gap in the curriculum and enable acquisition of essential skills (e.g. statistical computational, language, communication skills, etc.) (or)
- Help pursue an area of interest to the student

### **9.5 SELF-STUDY COURSES**

- A Department may also allow students to choose three additional courses to enable them to acquire extra credits through self-study (not to be taken into account for awarding grades/class).
- The course will be in advanced topics in a subject (core or elective) under the supervision of a faculty member. The student shall be required to make a minimum of two seminar presentations (as sessional tests for assessment) and submit a project report. There shall be a viva - voce examination on the report; the distribution of marks for the project report and viva -voce shall be 40 and 20 respectively.

### **9.6 AUDITING**

Students will be permitted to audit two courses without assigning any credits. It is left to the discretion of the individual faculty member to permit students.

### **9.7 SOFT SKILL AND INTERNSHIP**

Courses in soft skills such as will enhance the professional competency and also increase the employment prospects of the students.

Soft skill courses may be regular mode courses offered by the department or schools, or MOOCs or on-line courses of the University. A student may choose Soft skill courses from the following modes:

- a. From their own Department or School
- b. From a departments of other School
- c. From the learning portals of AICTE-NPTEL, UGC-SWAYAM, MOOC or from another online learning platform as may be approved by the UGC
- d. From the online learning platform of the University of Madras.

The list of soft skill courses will be listed in the department PG programme along with core and elective courses.

A student must not choose a course on soft skill closely related to his/her Master programme. The Department Committee will decide which of the courses on soft skills are closely related to the Master programme(s) of the department.

Internship is intended to gain practical knowledge related to the study. The duration is for 4-6 weeks for 2 credits and 6-8 weeks for 3 credits and it should be carried out in an organization recommended by the Department during the summer vacation of the first year.

## **10 COURSE REGISTRATION**

- 10.1 After admission to a Programme, a Registration Number will be assigned to every Student by the Department.
- 10.2 Every student must register (in consultation with his/her advisor) for the courses he/she intends to undergo in that semester by applying in the prescribed proforma through online otherwise in triplicate for manual (duly signed by the candidate,

student advisor and the HOD), within the deadline notified in the Academic calendar (Title of the Courses are given in the handbook)

- 10.3 A student shall register for a minimum of 15 credits and can register for a maximum of 24 credits in a semester. However, in the final Semester, a student shall register for a minimum of 10 credits. Late Registration may be permitted by the Dean (Academic) up to two weeks after the commencement of the semester.
- 10.4 Withdrawal from a course is permitted upto one week from the date of registration.
- 10.5 After registration, a student can drop an elective course agreed to earlier and can substitute it by another elective course for valid reasons with the consent of Student Advisor, but before the deadline for withdrawal of courses provided that the candidate will be able to fulfill the required minimum attendance in the substitute course. Withdrawal from a course will not be permitted for those who undergo late registration. Cancellation of a course (Core/Elective/Self-study) may be permitted before the conduct of First sessional test.
- 10.6 From the Second Semester onwards, registration for the courses will be done by students on or before a specified date in consultation with their Student Advisors. A student will become eligible for registration only if he/she has cleared all dues to the Department, during the previous semester.
- 10.7 The courses registered after withdrawal should enable the student to earn a minimum of 15 credits.

#### **STUDENT EXCHANGE PROGRAM**

Post Graduate Students are permitted to spend one semester or summer internship/summer course(s) or one semester along with summer vacation in a university/higher education institution in India or Abroad for study, with prior approval of the University. The student shall apply for permission from the University in the **prescribed format** through the Head of the Department. For further details/instructions please contact the Head of the Department concerned.

### **11 ATTENDANCE**

- 11.1 The teacher handling a course shall be responsible for maintaining a record of attendance of students who have registered for the course.
- 11.2 All teachers shall intimate the Head of the Department at least seven calendar days before the last instruction day in the semester the particulars of all students who have less than 75% attendance in one or more courses.
- 11.3 A candidate who has less than 75% attendance shall not be permitted to sit for the end-semester examination in the course in which the shortfall exists.
- 11.4 However, it shall be open to the Dean (Academic) to grant exemption to a candidate who has failed to obtain the prescribed 75% attendance for valid reasons on payment of prescribed fee and such exemptions shall not under any circumstances be granted for attendance below 65%.
- 11.5 The HOD shall announce the names of all students who will not be eligible to take the End-semester examinations in the various courses and send a copy of the same to Dean's office and CBCS Section. Registrations of such students for those courses shall be treated as cancelled. If the course is a core course, the candidate should register for and repeat the course when it is offered next time.
- 11.6 Biometric attendance introduced for all students in the University Departments, in order

to ensure adequate attendance of students in the course.

## 12 EXAMINATION AND EVALUATION

- 12.1 Evaluation will be done on a continuous basis, three times during each semester. For the purpose of uniformity, particularly for interdepartmental transfer of credits, there will be a uniform procedure of examination to be adopted by all teachers. There will be two sessional tests and one End-semester examination in each course during every semester.
- 12.2 Sessional Test I will be held during the sixth week of the semester for the syllabi covered till then.
- 12.3 Sessional Test II will be held during the eleventh Week for the syllabi covered between seventh and eleventh weeks.
- 12.4 Sessional Tests (of one to two hours duration) may employ one or more assessment tools such as objective tests, assignments, paper presentation and laboratory work suitable to the course. This requires an element of openness. The students are to be informed in advance about the nature of assessment. **Students shall compulsorily attend the two sessional tests, failing which they will not be allowed to appear for end-semester examination.** A Student cannot repeat Sessional Tests. However, if for any compulsive reason the student could not attend the test, the prerogative of arranging a special test lies with the course teacher. In case of students who could not attend any of the sessional tests due to medical reason or under extraordinary circumstances, a separate test shall be conducted before the End Semester Examinations by the respective faculty member.
- 12.5 The sessional tests will carry 40% (20%+20%) of total marks for the course. The marks of the two Sessional Tests shall be taken into account for the computation of Grade. ***The marks with attendance shall be uploaded in the online mark entry portal of the University within one week after the sessional examination. The portal will be closed after two weeks of the date of the examination.***
- 12.6 There shall be one End-semester examination of 3 hours duration carrying 60% of marks in each course covering the entire syllabus prescribed for the course. The End semester examination is normally a written/laboratory-based examination. The mode of End semester examination and evaluation will be decided by the teacher in consultation with the Departmental Committee. Model Question Paper for each course has to be prepared by the teacher and the same should be forwarded to the Head of Department. ***The end-semester examination time schedule will be prepared by the CBCS section.*** The Head of Department will fix the date for Departmental Committee meeting to finalise the results.
- The course faculty must evaluate the answer scripts and submit the results to the Head of the Department before the Departmental Committee meeting.
- 12.7 End-semester Practical examinations shall normally be held before the theory examinations.
- 12.8 To improve Internal Assessment marks in theory subjects for P.G Degree with the following conditions.
- Should have cleared end-semester with more than 50% marks in PG.
  - Should have obtained less than 30% marks in the Internal Assessment.
  - Should be permitted to improve internal assessment within N+2 years.
  - Chances for reassessment will be open only for 25% of core courses in University

Departments and only one chance per course will be given.

- v. The Department Committee will decide based on the request for reassessment and designate a faculty member of the department to conduct the examination and evaluation
- vi. The reassessment may be based on a written test/assignment or any other for the entire internal assessment marks.
- vii. The candidate must register for examination in the on-line system along with prescribed examination fee for that course.

12.9 The valuation and revaluation exceeds 15 marks out of total 60 marks for the University Departments then the answer papers be valued by a third examiner.

12.10 Valuation of Project Report / Dissertation and Viva-voce

The distribution of marks for the dissertation will be as below:

Periodical presentation	-	20 Marks
Concise dissertation	-	60 Marks
Viva-voce	-	20 Marks
TOTAL		100 Marks

12.11 Evaluation of soft skills will be done on continuous basis as other core and elective courses.

Dissertation/project report will be valued jointly by the supervisor and one more examiner within the Department/University or from outside the University (without any financial commitment on the part of the University) nominated by the Head of the Department. Students may be asked to make a presentation before the faculty members and students.

### 13 MARKS AND GRADING

The total performance within a semester will be indicated by a Grade Point Average (GPA), and the performance of the programme by Cumulative Grade Point Average (CGPA). Hence CGPA is the real indicator of student's performance. They are calculated by the formulations given below:

$$CGPA = (\sum C_{ni} G_{ni}) / (\sum C_{ni})$$

Where  $C_{ni}$  - number of credits of the  $n$ th course of the  $i$ th semester,  $G_{ni}$  - grade points of the  $n$ th course of the  $i$ th semester

13.1 A candidate has to secure a minimum of 50 percent of marks (Two sessional Tests marks plus End- Semester examination mark) in the course taken inclusive of soft skills, to pass in that course. A candidate who has not secured a minimum of 50 percent of marks in a course shall be deemed to have failed in that course.

### REDOING THE COURSE

(a) *Due to not attending the complete semester*

A student who has failed to attend a complete semester during his Master programme due to some unavoidable reasons could redo at the corresponding semester after due



completion of the 2/3 years Master program.

For example, a student who has joined a two year programme in 2021-2022 and has completed the first semester and has missed the 2nd semester i.e. even semester during Dec-Apr 2022, due to some unavoidable reasons, he /she can continue with the 3rd and 4th semesters during 2022-2023 after approval by the department. He can redo the missed 2nd semester correspondingly in the year 2023-2024 i.e. during Dec-Apr 2024 for the completion of his two year program.

**(b) *Due to not attending specific paper(s) in any semester***

A student who has failed to attend a specific paper(s) in any semester (shortage minimum attendance requirement) during his Master programme due to some unavoidable reasons could redo the specific paper at the corresponding semester after due completion of the 2 or 3 years Master's programme.

A student can also redo the paper again in case of poor marks in sessional tests and having difficulty in obtaining the qualifying marks to pass the paper after the end semester.

*For example* a student who has joined a two year programme in 2021-2022 and has completed the first semester but could not attend a specific paper due to some unavoidable reasons, he can continue with the 2nd semester and subsequent semesters. He can redo the missed out specific paper in the corresponding semester i.e. 1st semester in the year 2022-2023 for the completion of his two year programme.

**(c) *Re-do fees***

After the due completion of the master programme, students have to pay a sum of Rs.500/- per paper as re-do fee.

**SUPPLEMENTARY EXAMINATION**

Supplementary/Instant Examinations is conducted for the students appearing the final semester examinations of the PG degree course as per decision taken by the Syndicate.

**Eligible criteria for appearing in the Supplementary/Instant Examinations**

A candidate who is having only one paper in arrear in the current appearance of Fourth (Final) Semester Examinations of the PG Degree Programme is eligible to appear for the Supplementary/Instant Examination.

**Not eligible for the Supplementary/Instant Examinations**

A candidate who is having more than one arrear paper in the current appearance of Fourth Semester for PG Examinations is not eligible for appearing for the Supplementary/Instant Examinations.

If candidate is having arrear in any other semester and is absent in the current appearance is also not eligible for appearing in the Supplementary/Instant Examinations and also those Candidates who have arrear in Practical/Project are not eligible for the Supplementary/Instant Examinations.

Candidates who have completed their Programme duration but having arrears are not eligible to appear Supplementary/Instant Examinations.

Examination fee prescribed for the Supplementary/Instant examinations is as follows:

PG degrees – Rs. 385/- [Examination fee Rs. 300 + Cost of Application Rs.35 + Cost of Statement of Marks Rs.50]

MBA degree – Rs.635/- [Examination fee Rs. 550 + Cost of Application Rs.35 + Cost of Statement of marks Rs.50]”

### **13.2 IMPROVEMENT**

There is a scope for improving the grades in papers after the due completion of Master program, by paying a penal fee of Rs. 5000/- and an examination fee of Rs.500/- per paper.

Improvement is allowed only for the end semester examination. Candidates who have passed in theory paper/papers are allowed to appear again for theory paper/papers only once in order to improve his/her marks, by paying the fee prescribed from time to time within a maximum period prescribed thereto 10 semesters counting from his/her first semester of his/her admission. If a candidate improve his/her marks, then his/her improved marks will be taken into consideration for the award of classification only. Such improved marks will not be counted does not show improvement in the marks, his/her previous marks will be taken into consideration.

### **13.3 GRADING SYSTEM**

The term grading system indicates a Ten (10) points scale of evaluation of the performances of students in terms or marks, grade points, letter grade and Class.

13.3.1 The marks and the grades obtained in the courses corresponding to the best 81 credits including the best 60 Core credits, the best 21 credits for Electives will be taken into consideration in arriving at the CGPA in the programme (for Two Year Master Programme)

13.3.2 The marks and the grades obtained in the courses corresponding to the best 120 credits including the best 90 Core credits, the best 30 credits for will be taken into consideration in arriving at the CGPA in the subject (for Three year Masters Programme).

13.3.3 Soft skills are mandatory and a student is required to pass the same. The marks will not be considered for classification purpose.

### **CONVERSION OF MARKS TO GRADE POINTS AND LETTER GRADE**

*(Performance in a Paper/Course)*

Range of marks	Grade points	Letter grade	Description
PG	PG	PG	PG
90 - 100	9.0-10.0	O	Outstanding
80 - 89	8.0 - 8.9	D+	Excellent
75 - 79	7.5 - 7.9	D	Distinction
70 -74	7.0 - 7.4	A+	Very Good
60 -69	6.0 - 6.9	A	Good
50 -59	5.0- 5.9	B	Average
ABSENT	0.0	AAA	ABSENT

PG: Post Graduate (also for PG Diploma) UG: Under - Graduate (also for Certificate / Diploma).

$C_i$  = Credits earned for course  $i$  in any semester.  
 $G_i$  = Grade Points obtained for course  $i$  any semester.  
 $n$  refers to the semester in which such courses were credited.

**FOR A SEMESTER:**

$$\text{Grade Points Average [GPA]} = \frac{\sum_i C_i G_i}{\sum_i C_i}$$

Sum of the multiplication of grade points by the credits of the courses  
 GPA = -----  
 Sum of the credits of the courses (Passed) in a semester

**FOR THE ENTIRE PROGRAMME:**

$$\text{Cumulative Grade Point Average (CGPA)} = \frac{\sum_n \sum_i C_{ni} G_{ni}}{\sum_n \sum_i C_{ni}}$$

Sum of the multiplication of grade points by the credits of the entire Programme  
 CGPA = -----  
 Sum of the credit of the courses of the entire programme

**OVERALL PERFORMANCE**

CGPA	Grade	Classification Of Final Result
Masters/M.Phil	PG	Masters/M.Phil
9.5 - 10.0	O+	First Class - Exemplary *
9.0 and above but below 9.5	O	
8.5 and above but below 9.0	D++	First Class with Distinction *
8.0 and above but below 8.5	D+	
7.5 and above but below 8.0	D	
7.0 and above but below 7.5	A++	First Class
6.5 and above but below 7.0	A+	
6.0 and above but below 6.5	A	
5.5 and above but below 6.0	B+	Second Class
5.0 and above but below 5.5	B	

\* Applicable to candidates who have passed the courses prescribed for the programme in the first appearance as per the scheme of examination; otherwise they are eligible for classification only

**RANKING**

The first two ranks to every Master programme will be decided on the basis of CGPA in the subjects (core and elective courses only) passed in first attempt only. **If a candidate is arrear in any of the semester is not eligible for ranking.**

**13.3.4 Core-wise Letter grades**

The performance of a candidate in a course will be indicated in a letter grade whereas grade point will indicate the position of the candidate in that batch of candidates. A student is considered to have completed a course successfully and earned the prescribed credits if he/she secures a letter grade other than RA.

A letter grade RA in any course implies he/she has to Re-appear for the examination to complete the course.

- 13.3.5 The RA grade once awarded in the grade card of the student is not deleted even when he/she completes the course successfully later; the grade acquired later by the student will be indicated in the grade sheet of the subsequent semester in which the candidate has appeared for clearance of the arrears.
- 13.3.6 A student who secures RA grade in a core course has to pass it compulsorily. A candidate who does not pass a core course in the stipulated period (eight/ ten semesters as the case may be from the year of admission), he/she may be permitted to re-register for the same course or a substitute core course by paying the prescribed fee when it is offered next in consultation with the student advisor.
- 13.3.7 **If a student who secures RA grade in an elective wants to change the elective he/she has to register by paying the prescribed fee and attend the classes for that course when it is offered.**
- 13.3.8 Any candidate who falls short of the required number of credits for the award of the degree may be permitted to register, by paying the prescribed re-registration fee, for the required number of courses (core or elective) when it is offered.
- 13.3.9 If a student secures RA grade in the Project Work /Dissertation, either he/she shall improve it and resubmit it if it involves only rewriting/incorporating the revisions suggested by the evaluators or the student can re-register by paying the prescribed re-registration fee and complete the same in the subsequent semesters.

### 13.3.10 GRADE CARD

The Grade Card issued at the end of the semester to each student will contain the following:

1. The marks obtained for each course registered in the semester
2. The credits earned for each course registered for that semester
3. The performance in each course indicated by the letter Grade
4. The Grade Point Average (GPA) of all the courses registered for that semester
5. The Cumulative Grade Point Average (CGPA), the class and grade of all the courses, after completing the programme.

#### **Illustration: CUMULATIVE GRADE STATEMENT**

Course Code	Title of the Course	Credits Earned	Marks Secured (Max 100)	Grade Point	Letter Grade	Result
<b>FIRST SEMESTER</b>						
SSSC201	Introduction to Criminology & Criminal Justice Administration	4	55	5.5	B	PASS
SSSC202	Networking Basics	4	86	8.6	D+	PASS
SSSC203	Fundamentals of Information Security	4	50	5.00	B	PASS
SSSC204	Practicals I	4	87	8.70	D+	PASS

SSSE102	Forms of Cyber Crime	3	81	8.10	D+	PASS
SSSE201	Fundamentals of H/W, S/W & Networking	3	83	8.30	D+	PASS
SSSE202	Credit Card Fraud	3	68	6.80	A	PASS
UOMS009	French for Beginners I	2	85	8.50	D+	PASS
	Credits earned	25				
Grade Point Average		7.232				
<b>SECOND SEMESTER</b>						
SSSC205	Cyber Crimes in BFSI Sector (Basle II Requirements)	3	61	6.10	A	PASS
SSSC206	E-Mail Security	3	55	5.50	D	PASS
SSSC207	Basics of Cyber Forensics	3	64	6.40	A	PASS
SSSC208	Telecom Frauds	3	71	7.10	D	PASS
SSSC209	Practicals II	4	89	8.90	O	PASS
SSSE104	Financial Crimes	3	60	6.00	A	PASS
FPAE004	Percussion Instruments	3	85	8.50	O	PASS
FPAE109	Learn An Instrument-Keyboard	3	82	8.20	D	PASS
UOMS016	Russian for Beginners	2	96	9.60	D+	PASS
	Credits earned	22				
Grade Point Average		7.018				
<b>THIRD SEMESTER</b>						
SSSC210	Applied Cryptology	4	60	6.00	A	PASS
SSSC211	Advanced Forensic Computing	4	74	7.40	A+	PASS
SSSC212	Advanced Information Security	4	69	6.90	A	PASS
SSSC213	Practicals-III	4	80	8.00	D+	PASS
SSSE204	Cyber Laws	3	69	6.90	A	PASS
UOMS005	Personality Enrichment	2	87	8.70	D+	PASS
UOMS007	Computing Skills Basic-1	2	91	9.10	O	PASS
UOMI001	Internship	2	81	8.10	D+	PASS
	Credits earned	19				
Grade Point Average		7.047				
<b>FOURTH SEMESTER</b>						
SSSC215	Incident Response	4	69	6.90	A	PASS
SSSC216	Governance, Risk & Compliance	4	73	7.30	A+	PASS
SSSC217	Project	4	72	7.20	A+	PASS
SSSE206	Business Continuity Planning and Disaster Recovery Planning	3	81	8.10	B+	PASS
	Credits earned	15				
Grade Point Average		7.326				

Cumulative Grade Point Average		81	7.143	A++	First Class
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## 14 TRANSPARENCY IN EVALUATION

- 14.1 The system of evaluation shall be transparent and students shall have the right to examine their scored answer scripts of sessional tests and the end semester examination and seek redressal, if need.

The teacher of a course shall give the attendance and performance sheets for Sessional Test I, [Core and Elective] Sessional Test II and End-Semester Examination and a consolidated mark and grade sheet in hard and soft copy (in the prescribed template software format) to the head of the department who in turn consolidates all such sheets pertaining to the programmes offered by the department.

The course faculty must forward the results of the Elective courses (both hard and soft copy) through the Head of the Department to the Dean (Academic)/CBCS Office on or before the last date prescribed by the University.

The Departmental Committee will pass the results of the core courses. Results of the first and second year students may be passed separately **in order to avoid delay in forwarding the results.**

The Head of the Department shall forward the soft and hard copy of the consolidated mark and grade sheets to the Dean/CBCS office **on or before the last date prescribed by the University.**

- 14.2 After finalization of results by the Departmental Committee for the core courses and elective courses the marks and letter grades and electives awarded to the students in each course shall be announced on the departmental notice board.

- 14.3 In case, any student feels aggrieved, he/she can contact the respective teacher for a second look at his/her performance within one week after departmental notification.

- 14.4 The aggrieved student must be shown his/her answer papers of the end semester examination by the teacher concerned and the signature of the student must be obtained.

If the teacher feels that the case is genuine, he/she can re-examine and forward the revised grade, if any, to the Dean (Academic) through the Head of the Department with justification for the revision. Revision should be done before the document reaches Dean/Controller of Examinations.

The Dean (Academic) with the permission of the Vice-Chancellor can call all records (Syllabus, question papers, attendance and answer scripts) of any course if there is any written or oral complaint for random check.

- 14.5 The Controller of Examinations will accept the recommendations of the Dean (Academic)/Departmental/Class Committee in respect of the Final Results and will publish the same and issue Grade Cards to the Students within 2-3 weeks after the receipt of the results.

## 15. MASTER OF PHILOSOPHY (M.Phil.) PROGRAMMES

- 15.1 Master of Philosophy (M.Phil.) Degree Programme is offered by many

departments of the University.

- 15.2 The minimum duration for completion of M.Phil in a discipline is two consecutive semesters/one year and the maximum duration is four consecutive semesters/two years.

Students must complete the M.Phil programme (Course work and dissertation/thesis submission) within 3 years from the year of admission (that is N + 2 years). No extension will be given beyond two year of completion of the programme.

The women candidates and Persons with Disability (more than 40% disability) may be allowed a relaxation of one year for M.Phil. In addition, the women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of M.Phil. for up to 240 days.

15.3 **PROCEDURE FOR ADMISSION**

15.3.1 The University departments shall admit M.Phil. students through an Entrance Test conducted at the level of Individual University department.

15.3.2 The University departments referred to above which are allowed to conduct M.Phil. programmes, shall:

15.3.2.1 Decide on an annual basis through their academic bodies a predetermined and manageable number of M.Phil. scholars to be admitted depending on the number of available Research Supervisors and other academic and physical facilities available, keeping in mind the norms regarding the scholar-teacher ratio, laboratory, library and such other facilities;

15.3.2.2 Notify well in advance in the institutional website and through advertisement in at least two (2) national newspapers, of which at least one (1) shall be in the regional language, the number of seats for admission, subject/discipline-wise distribution of available seats, criteria for admission, procedure for admission, examination centre(s) where entrance test(s) shall be conducted and all other relevant information for the benefit of the candidates;

15.3.2.3 Adhere to the National/State-level reservation policy, as applicable

- 15.4 The admission shall be based on the criteria notified by the Institution, keeping in view the guidelines/norms in this regard issued by the UGC and other statutory bodies concerned, and taking into account the reservation policy of the State Government from time to time.

- 15.5 The University departments shall admit candidates by a two stage process through

15.5.1 an Entrance Test shall be qualifying with qualifying marks as 50%. The syllabus of the Entrance Test shall consist of 50% of research methodology and 50% shall be subject specific. The Entrance Test shall be conducted at the Centre(s) notified in advance (changes of Centres, if any, also to be notified well in advance) at the level of the individual The University departments as mentioned above; and

15.5.2 an interview/viva-voce to be organized by the University departments as mentioned above when the candidates are required to discuss their research interest/area through a presentation before a duly constituted Department Research Committee

- 15.6 The interview/viva voce shall also consider the following aspects, viz. whether:

15.6.1 the candidate possesses the competence for the proposed research;

15.6.2 the research work can be suitably undertaken at the Institution;

15.6.3 the proposed area of research can contribute to new/additional knowledge

The University shall maintain the list of all the M.Phil registered students on its website on year-wise basis. The list shall include the name of the registered candidate, topic of his/her research, name of his/her supervisor/co-supervisor, date of enrolment/registration.

15.7 **COURSE WORK:** Credit Requirements, number, duration, syllabus, minimum standards for completion, etc.

15.7.1 The credit assigned to the M.Phil. Course work shall be a minimum of 08 credits and a maximum of 16 credits.

15.7.2 The course work shall be treated as prerequisite for M.Phil. Preparation. A minimum of four credits shall be assigned to one or more courses on Research Methodology which could cover areas such as quantitative methods, computer applications, research ethics and review of published research in the relevant field, training, field work, etc. Other courses shall be advanced level courses preparing the students for M.Phil. degree

15.7.3 All courses prescribed for M.Phil. Course work shall be in conformity with the credit hour instructional requirement and shall specify content, instructional and assessment methods. They shall be duly approved by the authorized academic bodies.

15.7.4 The Department where the scholar pursues his/her research shall prescribe the course(s) to him/her based on the recommendations of the Research Advisory Committee, as stipulated under sub-Clause 15.11 below, of the research scholar.

15.7.5 All candidates admitted to the M.Phil. Programmes shall be required to complete the course work prescribed by the Department during the initial one or two semesters.

15.7.6 Grades in the course work, including research methodology courses shall be finalized after a combined assessment by the Research Advisory Committee and the Department and the final grades shall be communicated to the Institution/College.

15.7.7 A M.Phil. scholar has to obtain a minimum of 55% of marks or its equivalent grade in the UGC7-point scale (or an equivalent grade/CGPA in a point scale wherever grading system is followed) in the course work in order to be eligible to continue in the programme and submit the dissertation/thesis.

Students who fail in any course work examination will be given second chance and the examination will be held within two months from the publication of the result. Students who failed to clear even in the second attempt are not eligible to continue in the programme and submit the dissertation/thesis.

15.8 **The M.Phil. Degree is awarded if a student has**

- Registered, undergone and secured the required minimum number of credits for the core and elective courses including Dissertation specified in the corresponding programme within the stipulated time;
- Secured the required attendance,
- No dues to the University, Hostel or Library;
- No disciplinary action pending against him/her

15.9 **STRUCTURE OF THE PROGRAMME**

M.Phil. Programme consists of:

- 2 Core courses which are mandatory for all students



- 1 Elective course which students can choose from amongst the courses offered within the department.
- Dissertation (Mandatory)

#### **15.10 THE DISTRIBUTION OF CREDITS**

- Core Courses – Minimum two courses carrying 5 credits each (10 or more credits); Electives carrying 5 credits each – No minimum; and Dissertation – 21 credits.
- The overall minimum credit requirement, including credit for the course work, for the award of M.Phil degree shall not be less than 24 credits.
- The research topic for the dissertation may be finalized even at the beginning of the MPhil Programme, so that the collection of relevant literature and research design could be completed in the First semester leaving the entire Second Semester for the research work.
- The course registration for dissertation shall be in the First semester and a separate registration form shall be used for Registration.
- The departmental committee will specify the credits for core courses (including dissertation and viva-voce) but the minimum will be 24 credits.

#### **15.11 RESEARCH ADVISORY COMMITTEE AND ITS FUNCTIONS:**

##### **15.11.1** This Committee shall have the following responsibilities

15.11.1.1 There shall be a Research Advisory Committee, or an equivalent body for similar purpose as defined in the Statutes/Ordinances of the Institution concerned, for each M.Phil and scholar. The Research Supervisor of the scholar shall be the Convener of this Committee. This Committee shall have the following, responsibilities:

15.11.1.2 To review the research proposal and finalize the topic of research;

15.11.1.3 To guide the research scholar to develop the study design and methodology of research and identify the course(s) that he/she may have to do.

15.11.1.4 To periodically review and assist in the progress of the research work of the research scholar.

**15.11.2** A research scholar shall appear before the Research advisory Committee once in six months to make a presentation of the progress of his/her work for evaluation and further guidance. The six monthly progress reports shall be submitted by the Research Advisory Committee to the Institution/College with a copy to the research scholar.

**15.11.3** In case the progress of the research scholar is unsatisfactory, the Research Advisory Committee shall record the reasons for the same and suggest corrective measures. If the research scholar fails to implement these corrective measures, the research Advisory Committee may

recommend to the Institution/College with specific reasons for cancellation of the registration of the research scholar

**15.12 EVALUATION AND ASSESSMENT METHODS, minimum standards / credits for award of the degree, etc.**

- 15.12.1 The overall minimum credit requirement, including credit for the course work, for the award of M.Phil degree shall not be less than 24 credits.
- 15.12.2 Upon satisfactory completion of course work, and obtaining the marks/grade prescribed in sub-clauses 7.8 above, as the case may be, the M.Phil scholar shall be required to undertake research work and produce a draft dissertation/thesis within a reasonable time, as stipulated by the Institution concerned based on these Regulations.
- 15.12.3 Prior to the submission of the dissertation/thesis, the scholar shall make a presentation in the Department before the Research Advisory Committee of the Institution concerned which shall also be open to all faculty members and other research scholars. The feedback and comments obtained from them may be suitably incorporated into the draft dissertation/thesis in consultation with the Research Advisory Committee.
- 15.12.4 M. Phil scholars shall present at least one (1) research paper in a conference/seminar before the submission of the dissertation/thesis for adjudication, and produce evidence for the same in the form of presentation certificates and/or reprints.
- 15.12.5 The Academic Council (or its equivalent body) of the Institution shall evolve a mechanism using well developed software and gadgets to detect plagiarism and other forms of academic dishonesty. While submitting for evaluation, the dissertation/thesis shall have an undertaking from the research scholar and a certificate from the Research Supervisor attesting to the originality of the work, vouching that there is no plagiarism and that the work has not been submitted for the award of any other degree/diploma of the same Institution where the work was carried out, or to any other Institution.
- 15.12.6 The M.Phil dissertation submitted by a research scholar shall be evaluated by his/her Research Supervisor and at least one external examiner who is not in the employment of the Institution/College. The viva-voce examination, based among other things, on the critiques given in the evaluation report, shall be conducted by both of them together, and shall be open to be attended by Members of the Research Advisory Committee, all faculty members of the Department, other research scholars and other interested experts/ researchers.
- 15.12.7 The public viva-voce of the research scholar to defend the dissertation /thesis shall be conducted only if the evaluation report(s) of the external examiner(s) on the dissertation/thesis is/are satisfactory and include a specific recommendation for conducting the viva-voce examination. If the evaluation report of the external examiner in case of M.Phil dissertation is unsatisfactory and does not recommend viva-voce , the Institution shall send the dissertation/ thesis to another external examiner out of the approved panel of examiners and the viva-voce examination shall be held only if the report of the latest examiner is satisfactory. If the report of the latest examiner is also unsatisfactory, the dissertation/ thesis shall be rejected and the research scholar shall be declared ineligible for the award of the degree.

15.12.8 The Institutions shall develop appropriate methods so as to complete the entire process of evaluation of M.Phil dissertation thesis within a period of six months from the date of submission of the dissertation/thesis.

**15.13 SUBMISSION OF DISSERTATION**

The last date for submission of Dissertation shall be 31st August every year without penalty. Those who do not submit the dissertation in time may be given an extension of a maximum of two months with a penal fee prescribed by the University (i.e. up to 31st October). There shall be no further extension of time beyond this period. Any student failing to submit the dissertation within this period will be permitted to submit the dissertation only in the next academic year along with the subsequent batch of students.

**15.14 GRADING SYSTEM**

The process of evaluation, examination, grading, etc for the M.Phil. programme shall be the same as for Master programme except for the dissertation; However, final semester students of the M. Phil. should be allowed to appear for examinations in any arrears papers in the month of September/October each year.

**15.16 REGULATIONS OF M. PHIL. PROGRAMME**

The rules and regulations governing course registration, attendance and discipline of students for M.Phil. Programme shall be the same as for the Master Programme.

**Note:** The University is not awarding the Rank Certificate to the Research Oriented Programme (i.e.) M.Phil /Ph.D.

**Illustration: M. Phil. CUMULATIVE GRADE STATEMENT**

Course Code	Title of the Course	Credits Earned	Marks Secured (Max 100)	Grade Point	Letter Grade	Result
<b>First Semester</b>						
PSI C141	Research Methodology	5	68	6.80	A	PASS
PSI C143	Strategic Thought	5	70	7.00	A+	PASS
PSI E149	Conflict and Cooperation in South Asia	5	71	7.10	A+	PASS
Grade Point Average				6.986		
<b>Second Semester</b>						
PSI C142	Dissertation & Viva-Voce	21	70	7.00	A+	PASS
Cumulative Grade Point Average						

*First Class and "A+" Grade*

**16 POST-GRADUATE DIPLOMA/DIPLOMA/ CERTIFICATE PROGRAMMES**

*16.1 The Process of Post Graduate Diploma/Diploma/ Certificate Programmes*

The procedures for the P.G. Diploma, Diploma and Certificate Programmes such as course registration etc will be similar to those applicable to the Master programme.

**16.2 P. G. DIPLOMA PROGRAMMES**

- i. Eligibility: A Graduate
- ii. P.G. Diploma programme may be offered as a full-time programme or as a part-time add-on programme. The number of credits for a P.G. Diploma programme shall be **36 credits**.

- iii. The courses prescribed for a P. G. Diploma programme may be fully independent of the courses for the Masters programme. Alternatively a Department may include some of the courses (core or electives) offered under the Masters programme in the P.G. Diploma programme. The Departmental/ School Committee shall decide on the exact structure and content of the P.G. Diploma programme conforming to the above broad structure.
- iv. The minimum duration of a PG. Diploma programme shall be 2 semesters (Full-time) or 3 or 4 semesters (Part-Time). The maximum period for completion is four semesters for Full-time programmes and six semesters for 3 or 4 semester programmes respectively counting from first semester.
- v. Passing minimum for Post Graduate Diploma programme shall be 50% of marks in each paper/course.

### 16.3 DIPLOMA PROGRAMMES

- i. A Diploma programme shall carry **18 credits** distributed as under Core Courses - 18 credits
- i. The minimum duration of a Diploma programme shall be one semester (full-time) or two semesters (Part-time). The maximum period for completion are two semesters for Full-time programmes and four semesters for Part-time programmes counting from first semester.
- iii. Passing minimum for Diploma programme shall be 40% of marks in each paper/course.

### 16.4 CERTIFICATE / SHORT-TERM CERTIFICATE PROGRAMMES

- i. Certificate programme shall carry **9 credits**.
- ii. The duration of a certificate programme shall be one semester (Part- time) or 10 weeks full-time. The maximum period for completion is two semesters counting from first semester.
- iii. Passing minimum for Certificate programme shall be 40% of marks in each paper/course.

The rules and regulations governing course registration, attendance and discipline of students and distribution of marks for Post Graduate Diploma / Diploma / Certificate Programmes shall be the same as for the Master Programme.

## VIII. THE “UNIVERSITY OF MADRAS STUDENTS’ CONDUCT RULES”

### 1. TITLE AND COMMENCEMENT

- a. These rules may be called the University of Madras Students’ Conduct Rules”.
- b. These rules come into force on 1st July, 2005.

### 2. APPLICATION

These rules shall apply to every student of the University of Madras i.e. students on roll in the departments of the University and all its-affiliated institutions. However the affiliated Colleges/Institutions are required to adopt the rules in their respective governing bodies.

### 3. DEFINITIONS

- a. “University” means the University of Madras.
- b. “Head of the Department/Institutions” means the person in-charge of the Department in case of University Department and Principal in case of affiliated Colleges/Institutions in which the student concerned is undergoing the course.

- c. “Student” means any person undergoing any course in the institution including M.Phil and Ph.D.
- d. “Competent Authority” means
  - *The Departmental Committee*
  - *University Disciplinary Committee*
  - *The Syndicate.*

#### **4. STUDENT DECORUM**

Every University student is encouraged and expected to evolve, as a responsible citizen with commitment to uphold the dignity and image of the department/ institution of the University in which he/she is undergoing the course.

#### **5. DISCIPLINE**

Every student is expected to behave with decorum and honesty by avoiding acts mentioned in clauses below that are considered as acts unbecoming of a student which are punishable as envisaged in student’s conduct rules given in University calendar.

- a. Any form of ragging or eve-teasing
- b. Causing disturbance by noisy and unruly behaviour.
- c. Causing damages to the property of the University/Institution.
- d. Misbehavior in the Public transport system, causing damages to public properties, disrupting traffic or causing annoyance to the public in any form.
- e. Any kind of inducement to any employee of the University/institution expecting undue favour.
- f. Displaying any poster or distributing any pamphlet inside the campus of the University/ institution without the approval of the authorities.
- g. Sending petitions of complaints to outside individuals/ establishments without the approval of the authorities and without exhausting all the available redressal mechanism in the University.
- h. Any other conduct opposed to decency and public morals.

#### **6. DRESS AND IDENTITY CARD**

- a. Every student shall wear a decent dress.
- b. Every student should carry his\her identity card on person and it should be shown on demand to any teaching staff or security personnel.

#### **7. USE OF ALCOHOL AND DRUGS**

- a. Smoking in the campus is strictly forbidden.
- b. Possession and Consumption of alcohol and illicit drugs inside the premises of University/Institutions is prohibited.
- c. Students found inside the premises of University/Institutions in a state of intoxication are liable for punishment.

#### **8. POLITICAL ACTIVITY**

Political activity of any form inside the campuses is punishable.

**9. DEMONSTRATIONS AND STRIKES**

*Students shall not*

- a. Indulge in demonstrations and strikes.
- b. Participate in any form of intimidation, coercion or wrongful confinement or any violent activity which will prevent any student, employee or officer/authority of the institution from discharging their duties.

**10. JOINING ASSOCIATIONS**

Students **shall not join** or continue to be a member of any non- academic association or organization, the object or activities of which are prejudicial to the sovereignty and integrity of India, security of the State, or to public order, decency or morality or the interest of the University / Institution.

**11. COLLECTION OF FUNDS**

Students shall not raise any fund or make any collection in cash or kind without the prior consent of the authority.

**12. CONNECTION WITH PRESS / RADIO / TELEVISION ANY OTHER MEDIA**

Students are not permitted to give press/media release without the prior permission of the authorities.

**13. PUNISHMENT AND DISCIPLINARY AUTHORITY**

- a. No student shall be punished without giving him/her a reasonable opportunity of being heard by the authorities.
- b. Students violating the conduct rules are liable for punishment which includes censure, loosing attendance, debar from writing examinations, suspension from the class, imposition of fine, suspension from the University/institution, dismissal and rustication.
- c. The Departmental Committee of the University department/ college shall consider each case of violation of conduct rules and shall take suitable action through unanimous decision. The decision by the departmental committee will be final as far as minor punishments like censure etc. are concerned.
- d. If the act of violation is serious in nature or the decision is not unanimous, the Departmental Committee shall refer the case with its remarks for suitable action to the University Disciplinary Committee / College Disciplinary Committee.
- e. The University/College Disciplinary Committee shall be the competent authority to recommend to the authorities for imposing major punishments like suspension, dismissal and rustication.
- f. The composition of the University/College Disciplinary Committee is as follows:
  1. Dean (Students) -Convener
  2. Head of the respective Department
  3. Dean (Academic)
  4. One lady faculty representative nominated by the Vice Chancellor
  5. One SC/ST faculty representative nominated by the Vice Chancellor
  6. Director of the respective campus.

**14. APPEAL / REVISION**

The Departmental committee and the University/College Disciplinary Committee are empowered to review the punishment inflicted on a student. The delinquent student can prefer appeal or revision within a period of fifteen days from the date of communication of the order. While reviewing the Departmental Committee will include the Chairperson of the respective School and the University Disciplinary committee will include one more member nominated by the Vice-Chancellor / Principal, as a special invitee.

**15. APPELLATE AUTHORITY**

The Syndicate shall be the appellate authority for all student disciplinary matters. However, the student shall not appeal to the higher authorities/ Syndicate without first approaching the Departmental / University, disciplinary Committees for review.

The affiliated colleges shall have their own disciplinary committee of similar composition under intimation to the University.

**IX. DO'S AND DON'TS UNDER CBCS SYSTEM**

The minimum number of credits required for Two Year Master Program is 91 Credits and that of Three Year Program is 135 Credits. For a Two Year Program the 91 Credits are divided into 60 for Core, 21 for Elective and 10 for Soft Skills & Internship.

1. Core courses earmarked by the department are compulsory and students should necessarily take them.
2. Elective courses could be taken from within the Department / outside the Department / through Online in consultation with the Student Advisor of the Department. It has been observed that students are rushing to few specified departments and are taking three to four elective courses of no direct relevance, whereby the purpose of electives get defeated. There should be judicious choices of electives.
3. Students can take more than the prescribed limit of electives. However, best of electives to the tune of 21 credits alone will be considered for the calculation and classification.
4. It is mandatory for the students to take two Sessional Tests before writing the End Semester Examination as marks are based on continuous assessment. Abstention in Sessional test (one or both) will be marked as ABSENT in your mark statement, and the candidate has to redo the course after the completion of 2/3 years of study.
5. Soft Skills are like other Core and Elective papers with sessional and end semester examination. Students have to pass the Soft Skills necessarily but the marks will not be considered for Classification.
6. Internship has to be carried out by the student in an Organization and a report has to be submitted to the department for evaluation. The Department will evaluate and award marks and the corresponding letter grade for the Internship. Student has to pass in the Internship but like Soft Skills marks will not be considered for classification. The place, scope and type of pursuing Internship for 4 - 6 weeks on completion of first year and during the summer vacation could be done in consultation with the Student Advisor/ department faculty.
7. In case a student fails in a core/elective/soft skill paper by securing less than the prescribed minimum marks, he/she will be allowed to write at the end of the semester alone and marks obtained in sessional tests will be carried forward.

8. Redoing a complete course for betterment in the middle of the program is not permitted as it is not feasible to schedule the same.
9. Final Semester students will be allowed to appear for the arrear papers during July/August of every year, so as to help the outgoing students.
10. In each semester students have to register for all Core, Elective, Soft skills and Internship. Failure to register and payment of prescribed fee before the deadline could lead to non-inclusion of the same in the marks statement.
11. Ensure that the core, electives and soft skills as approved for the academic year 2020-2021 as given in the Handbook are registered.
12. Students are requested to contact the Student Advisor/Head of the Department pertaining to any confusion regarding the registration of courses.
13. Details pertaining to the grades, marks and conversion table are given on the back of the mark sheet.
14. The Candidates should choose the Elective papers as given in the Hand book of the respective academic years only. The Students need not choose the Senior or Junior batch subjects.
15. The Students can be permitted to withdraw the Elective/Soft Skill papers before the End Semester Examinations are conducted and the same may be informed to CBCS Section for further action.

## **X. SCHOOL WISE AND DEPARTMENT WISE PROGRAMMES AND COURSE LIST**

### **SCHOOL OF HISTORICAL STUDIES**

The School of Historical Studies consists of Department of Indian History and Department of Ancient History and Archaeology.

The University of Madras created the Department of Indian History and Archaeology as the first faculty of the University in 1914 and it was headed successively by eminent historians like Dr. S. Krishnaswamy Iyengar, Prof. K. A. Nilakanta Sastry and Prof. K. K. Pillay. The Department was bifurcated into Departments of Indian History and Ancient History and Archaeology in 1959. Dr. T. V. Mahalingam a renowned Archaeologist and Epigraphist was the first Professor of Ancient History and Archaeology.

The Department of Ancient History and Archaeology has special interests in Epigraphy and Numismatics, Tamil Culture and Field Archaeology. It offers Masters, M.Phil. and Ph.D. programmes.

The Department of Indian History specializes on Economic History and Urban Studies. It offers Masters, M.Phil. and Ph.D. programmes.

#### **FACULTY**

Dr. S.S. Sundaram, Ph.D	Chairperson
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#### **Dept. of Ancient History and Archaeology**

Dr. J. Soundararajan, Ph.D	Associate Professor & Head i/c
Dr. G. Thirumoorthy, Ph.D	Assistant Professor

#### **Dept. of Indian History**

Dr. S.S. Sundaram, Ph.D	Professor & Head
Dr. S. Kuppasamy, Ph.D.	Professor



**M.A. ANCIENT HISTORY AND ARCHAEOLOGY**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
HISC 001	History of South India up to A.D. 1565.	C	4
HISC 002	Pre and Proto history of India	C	4
HISC 003	Tourism in India	C	4
<b>II SEMESTER</b>			
HISC 005	History of North India up to A.D. 1206	C	4
HISC 006	History of Indian Temple Architecture	C	4
HISC 007	Field work and Exploration	C	4
<b>III SEMESTER</b>			
HISC 008	Indian Epigraphy and Palaeography	C	4
HISC 009	History Indian Numismatics	C	4
HISC 010	Research Methodology	C	4
HISC 011	Iconography	C	4
<b>IV SEMESTER</b>			
HISC 012	Principles and Methods of Archaeology	C	4
HISC 013	Museology	C	4
HISC 014	Cultural Tourism in India	C	4
HISC 015	Excavation and Report	C	8

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
HISE 002	Introduction to Archaeology and Tourism	I	E	3
HISE 003	Introduction to Archaeology	I	E	3
UOMS001	Tourist Monuments – Selective Study	I	S	2
One Elective must be taken from other Department				
HISE 004	Early Historical Archaeology of India	II	E	3
HISE 005	An Introduction to the Cultural History of Tamil Nadu	II	E	3
HISE 006	Practicals - Study of Museum Objects	II	E	3
UOMS002	Indian Paintings	II	S	2
HISE 008	Cultural History of Tamil Nadu up to A.D. 1565	III	E	3
HISE 009	Dimensions of Archaeological Culture	III	E	3
UOMS003	Anthropological Archaeology	III	S	2
UOMI001	Internship	III	I	2
HISE 011	History of World Civilization	IV	E	3
One Elective must be taken from other Department				
HISE 013	History of Architecture in Tamil Nadu	IV	E	3
UOMS004	Experimental Archaeology#	IV	S	2

**M.A. HISTORICAL STUDIES**

Course code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
HIS C101	Social and Cultural History of Tamil Nadu	C	4
HIS C102	Cultural Heritage of India	C	4
HIS C103	Social History of Medieval India (Excluding TamilNadu)	C	4
HIS C104	Constitutional History of India	C	4
HIS E101	History of Science and Technology in India A.D 1858 –1947	E	3
HIS E102	History of Peasant Movements in Modern India	E	3
	Soft Skill	S	2
<b>II SEMESTER</b>			
HIS C105	Social and Religious Movements in Modern India	C	4
HIS C106	Freedom Movement in India	C	4
HIS C107	Economic History of India A.D 1858 – 1947	C	4
HIS C108	History of Labour Movements in India	C	2
<b>HIS E103</b>	<b>Tourism Principles and Practices</b>	<b>E</b>	<b>3</b>
HIS E104	Environmental History	E	3
	Soft Skill	S	2
<b>III SEMESTER</b>			
HIS C109	History of World Civilizations (Excluding India) Ancient Period	C	4
HIS C110	Intellectual History of Modern India	C	4
HIS C111	Historiography and Methodology	C	4
<b>HIS E105</b>	<b>Studies in Human Rights</b>	<b>E</b>	<b>3</b>
HIS E106	Introduction to Archaeology	E	3
	Soft Skill	S	2
UOM I001	Internship	I	2
<b>IV SEMESTER</b>			
HIS C112	History of World Civilizations (Excluding India) Medieval and Modern	C	4
HIS C113	Contemporary History of India	C	4
HIS C114	Development of Science and Technology in India since 1947	C	4
HIS C115	Project Work	C	6
HIS E107	International Relations	E	3
	Soft Skill	S	2

**M.Phil. ANCIENT HISTORY AND ARCHAEOLOGY**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
HIS C021	Historiography and Historical Methods	C	5
HIS C022	Development of Archaeological Studies in India	C	5
HIS C023	South Indian Epigraphy	C	5
HIS C024	Tourist Monuments of South India	C	5
<b>II SEMESTER</b>			
HIS C025	Dissertation and Viva- voce	C	21

**M.Phil. HISTORICAL STUDIES**

Course Code	Title of the Course	C/E /S	Credit
<b>I SEMESTER</b>			
HIS C121	Historiography and Historical Methods	<b>C</b>	<b>5</b>
HIS C122	Economic History of Modern India	<b>C</b>	<b>5</b>
HIS E121	Constitutional History of India 1858 -1950	<b>E</b>	<b>5</b>
HIS E122	Social & Cultural History of Modern Tamil Nadu 1800 – 1976	<b>E</b>	<b>5</b>
<b>II SEMESTER</b>			
HIS C123	Dissertation and Viva-Voce	<b>C</b>	<b>21</b>

**SCHOOL OF SOCIAL SCIENCES**

The School of Social Sciences consists of departments of Anthropology, Psychology, Education, Adult and Continuing Education, Sociology Criminology, Counselling Psychology, Womens Studies and Social Work.

The Department of Psychology was instituted in 1943. In 1948 a full fledged Psychology department was established under the headship of Dr.G.D.Boaz. The department initially focused on children and their education. Later, in 1976, the department turned its attention to Criminology, Applied Psychology, Organizational Psychology and Counseling etc. The Department Library has a vast collection of 2153 books and 15 Journals. The department offers Post Graduate, M.Phil. and Ph.D. Programmes.

The department of Education was established in 1976, with Dr. E.G.Vedanayagam as Professor and Head. The department specializes in the fields of Management of Education, Curriculum Development, Special Education, Educational Cost Analysis, Work Education, Management of Organisations, Trade Unions, Industrial Employability of mentally retarded, Stress and Conflict Resolution in work environment. The department has an Educational Lab. The department offers Post Graduate, M.Phil. and Ph.D. Programmes.

The Department of Adult and Continuing Education was established in 1976 with Dr.R.Jayagopal as Professor and Head to concentrate on Non- formal Education and Population Education. The Department researches in the fields of Adult education, Population education, Industrial Training, Project evaluation and Human Skill Development etc. The consultancy by the Department exists in the areas of Industrial Project proposals, Feasibility and evaluation, Industrial/ organisation training, Population Education, Women studies, Computer oriented project monitoring and evaluation etc. The Department offers M.A. Human Resource Management (Regular& Self-Supportive) and Life Long Learning, M.Phil. Programme in Human Resource Management and Life Long Learning, Ph.D. Programmes in Inter-disciplinary basis. From 2013-2014 the nomenclature of the department is changed as lifelong learning.

The Department of Sociology was established in 1976. Initially it was named as the Department of Social Science and Dr. K.K.Pillai, Professor of History was in-charge of the Department. The Department had to its credit the services of Fulbright Prof. Edwin Driver, Prof. Himes, Prof. Krosowisky and Prof. Washburne in the beginning. Prof. Driver instituted in 1966 M.A., Social science with inter-disciplinary orientation. In 1971, Dr.C.A. Permual, Professor and Head of the Department of Politics and Public Administration was in charge of the Department. In 1976, a separate Department of Sociology was started. The main areas of research are as follows: 1. Urban Sociology, 2. Medical Sociology, 3. Gender Studies, 4. Water Management, 5. Industrial Sociology, 6.Rural Sociology and Rural Development, 7. Environmental Studies, 8. Sociology of Development. The department offers consultancy on 1. Development and Displacement, 2. Integration of Sociology

in Irrigation Management Education, 3. Irrigation Management, 4. Rural Environment. The department offers Post Graduate and Ph.D. Programmes.

The Department of Anthropology was established in October 1945. The Certificate and Diploma courses in Anthropology were commenced in July 1947 and research programmes in July 1950. The department of Anthropology concentrates on Tribal Studies, Political Anthropology, Economic Anthropology, Physical Anthropology, Archaeological Anthropology, Folklore etc. It has a Computer Laboratory to do researches on quantitative understanding of social problems. In 1976 the department commenced Post Graduate, M.Phil., and Doctoral programmes. Now the department offers Post Graduate and Doctoral programmes.

The Department of Criminology was established in the year 1983. At the conference of the Inspectors' General of Police in 1959, a Diploma in Criminology at the University of Madras was mooted and it was instituted in October 1960. The Psychology department conducted diploma courses in Criminology in the beginning. Since April 1983, the Department of Criminology became separate and independent. The Department of Criminology focuses upon Victimology, Criminal Justice Administration, Human Rights, Juvenile Justice, Correctional Research, Crime Prevention etc. The department has Computer Laboratory facilities. The department offers Diploma, Post Graduate and Ph.D. Programmes.

The Department of Counselling Psychology was established in the year 2016 as a fully fledged department under the leadership of Prof.S.Thenmozhi. The department offers Post Graduate, M.Phil. and Ph.D programs along with 1 P.G.Diploma course in Counselling and Psychotherapy and 2 Diploma courses on Learning Disability and Autism Spectrum Disorder in Self Supportive mode. The department focuses on specialization in Counselling and Psychotherapy with internships in every semester to provide a field experience along with theoretical understanding. The Department has conducted a research project "Psycho and Music Therapy" funded by UGC-UPE II and various programs have been conducted by National and International speakers to inculcate the professional development for the students.

**Name of the Chairperson**

Dr. T. Lavanya, Ph.D	Chairperson
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**List of Faculties in the School of Social Sciences**

**Department of Psychology**

Dr. T. Lavanya Ph.D	Professor & Head
Dr . S. Sasikala Ph.D	Assistant Professor

**Department of Education**

Dr. A. Subramanian, Ph.D	Assistant Professor & Head i/c,
Dr. M. Ugin Rositta, Ph.D	Assistant Professor
Dr. A. Shyamala Devi, Ph.D	Assistant Professor

**Department of Adult and Continuing Education**

Dr. V.P. Matheswaran, Ph.D	Professor & Head
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**Department of Sociology**

Dr. M.Thamilarasan, Ph.D	Associate Professor & Head i/c
Dr. S.T. Akilan, Ph.D	Assistant Professor
Dr. S. Thanikasalam (Re- Deployed)	Assistant Professor

**Department of Social Work**

Dr. M.Thamilarasan, Ph.D	Associate Professor & Head i/c
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**Department of Women Studies**

Dr. M.Priyamavatha, Ph.D Professor & Head i/c

**Department of Anthropology**

Dr. M.P. Damodaran, Ph.D Assistant Professor & Head i/c  
Dr. K. Parimurugan, Ph.D Assistant Professor

**Centre for Cyber Forensics and Information Security**

Dr. M. Srinivasan, Ph.D Professor & Director i/c  
Dr. N. Kala, Ph.D Assistant Professor

**Department of Criminology**

Dr. M. Srinivasan, Ph.D Professor & Head  
Dr. M.Priyamavatha, Ph.D Professor  
Dr. S. Ramdoss, Ph.D Professor  
Dr. M.D.Allen Selvakumar, Ph.D Assistant Professor  
Dr. S. Latha, Ph.D Assistant Professor

**Department of Counseling Psychology**

Dr. S. Thenmozhi, Ph.D Professor & Head i/c

**DEPARTMENT OF ANTHROPOLOGY**

**M.A. ANTHROPOLOGY**

Course Code	Title of the Course	C/E/S	Cr.
<b>SEMESTER-I</b>			
SSS C001	Foundations of Social Anthropology	C	4
SSS C002	Archaeology and Biological/Physical Anthropology	C	4
SSS C003	Anthropology of Culture	C	4
SSS C004	Ethnography	C	4
SSS E001	Anthropology and its Applications	E	3
SSS E002	Qualitative Research Methods	E	3
UOMS186	Anthropology of Film	S	2
<b>SEMESTER-II</b>			
SSS C005	Kinship and Relatedness	C	4
SSS C006	Anthropology of Religion	C	4
SSS C007	Anthropological Research Methods	C	4
SSS C008	Anthropological Theories	C	4
SSS E003	Environmental Anthropology	E	3
UOMS187	NGO as a Career	S	2
UOM I001	Internship	I	2
<b>SEMESTER-III</b>			
SSS C009	Economic and Political Anthropology	C	4
SSS C010	Anthropology of Development	C	4
SSS C011	Contemporary Anthropological Theories	C	4
SSS C012	Community Studies	C	4
SSS E004	Business and Corporate Anthropology	E	3
UOMS188	Practicing Anthropology for Research	S	2

<b>SEMESTER-IV</b>			
SSS C013	Anthropology of Tribe	C	4
SSS C014	Anthropology of Policy and Governance	C	4
SSS C015	Anthropology of Health	C	4
SSS C016	Anthropology of Work and Industries	C	4
SSS C017	Research Project - Dissertation and Viva-Voce	C	6
SSS E005	Anthropology of Folklore	E	3
SSS E006	Anthropology of Artificial Intelligence, Innovation and Future	E	3
	Elective-7	E	3
UOMS189	Social Assessments in Anthropology	S	2

## DEPARTMENT OF CRIMINOLOGY

### M.Sc.CRIMINOLOGY AND CRIMINAL JUSTICE SCIENCE

Course Code	Title of the Course	C/E/S	Credit	
<b>SEMESTER I</b>				
SSS C101	Introduction to Criminal Justice and Society	C	3	
SSS C102	Law of Crime	C	4	
SSS C103	Fundamentals of Psychology	C	4	
SSS C104	General Forensic Science	C	3	
SSS C105	Observational Visits to CJS Institutions	C	2	
<b>SEMESTER II</b>				
SSS C106	Theoretical Criminology	C	4	
SSS C107	Criminal Procedure and Evidence	C	4	
SSS C108	Police Administration	C	4	
SSS C109	Advanced Forensic Science	C	3	
SSS C110	Human Rights and Criminal Justice System	C	4	
<b>SEMESTER III</b>				
SSS C111	Research Methodology	C	4	
SSS C112	Basic Statistics and Data Analysis in Social Sciences	C	4	
SSS C113	Penology & Corrections	C	4	
SSS C114	Forensic Medicine	C	3	
<b>SEMESTER IV</b>				
SSS C115	Vigilance and Security Management	C	4	
SSS C116	NGO Management	C	3	
SSS C117	Dissertation	C	3	
<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
SSS E101	Prevention of Crime and Delinquency	I	E	3
SSS E102	Cybercrime	I	E	3
UOMS	Soft Skills	I	S	2
SSS E103	Comparative Criminal Justice	II	E	3
SSS E104	White Collar Crime and Organized Crime	II	E	3
UOMS	Soft Skill	II	S	2
SSS E105	Victimology and Victim Assistance	III	E	3

SSS E106	Abnormal Psychology	<b>III</b>	<b>E</b>	<b>3</b>
UOM 1001	Internship*	<b>III</b>	<b>I</b>	<b>2</b>
UOMS	Soft Skill	<b>III</b>	<b>S</b>	<b>2</b>
SSS E107	Social Legislations	<b>IV</b>	<b>E</b>	<b>3</b>
SSS E108	Frauds in Banks and Other Financial Institutions	<b>IV</b>	<b>E</b>	<b>3</b>
UOMS	Soft Skill	<b>IV</b>	<b>S</b>	<b>2</b>

- Students are required to complete their Internship at the various criminal justice institutions after the completion of the Second semester (that is, during the summer vacation). The viva-voce will be conducted during the Third semester and the marks secured for Internship will be included in the Third semester Mark Statement.

**CENTRE FOR CYBER FORENSICS & INFORMATION SECURITY**

**M.Sc. CYBER FORENSICS & INFORMATION SECURITY  
(REGULAR & SELF SUPPORTIVE)**

Course Code	Title of the Courses	Cr.	C/E
SSS C 201	Fundamentals of Cyber Crime and Police Administration	4	C
SSS C 202	Fundamentals of Hardware, Operating System and Networking	4	C
SSS C 203	Fundamentals of Information Security	4	C
SSS C 204	Fundamentals of Cyber Forensics	4	C
SSS C 205	Practical (Networking and Fundamental Cyber Forensics)	3	C
<b>SEMESTER - II</b>			
SSS C 206	Advanced Cyber Forensics (OS; Memory and NW Forensics)	4	C
SSS C 207	Advanced Information Security and Applied Cryptology	4	C
SSS C 208	Application and Database Security	4	C
SSS C 209	Network Security	4	C
SSS C 210	Practical- II – (Cyber Forensics)	3	C
<b>SEMESTER - III</b>			
SSS C 211	Security and Forensics of E-mail, Social Network & Mobile Devices	4	C
SSS C 212	Enterprise Infrastructure Integration and Security	4	C
SSS C 213	Governance, Risk & Compliance	4	C
SSS C 214	Practical (E-Mail & Mobile Forensics) ; Project Phase I	3	C
<b>SEMESTER - IV</b>			
SSS C 215	Enterprise Incident Response	4	C
SSS C 216	Malware Analysis and Cyber Threat Intelligence	4	C
SSS C 217	Vulnerability Assessment and Penetration Testing	4	C
SSS C 218	Practical – IV	3	C
SSS C 219	Project	4	C

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Sem	C/E /S	Credit
SSS E 201	Frauds in Banking, Insurance and Telecom Sectors	<b>I</b>	<b>E</b>	<b>3</b>
SSS E 202	Cyber Law and IPR	<b>I</b>	<b>E</b>	<b>3</b>
UOMS173	Data Mining	<b>I</b>	<b>S</b>	<b>2</b>

SSS E 203	Introduction to Data Privacy	II	E	3
SSS E 204	Security & Forensics oriented Python Programming	II	E	3
UOMS174	Artificial Intelligence and Machine Learning	II	S	2
UOM I 001	Internship	II	I	2
SSS E 205	Embedded System Security and Forensics	III	E	3
SSS E 206	PCI, PoS and ATM Security	III	E	3
UOMS175	Big Data Analytics	III	S	2
SSS E 207	Business Continuity Management	IV	E	3
UOMS176	See DevOps	IV	S	2

**DEPARTMENT OF PSYCHOLOGY**

**M.Sc. HUMAN RESOURCE DEVELOPMENT PSYCHOLOGY**

<b>SEMESTER I</b>						
Course Code	Title of the Course	C/E	Credit			
			L	T	P	C
SSS C715	Biological Psychology	C	3	1	0	4
SSS C716	Cognitive Psychology	C	3	1	0	4
SSS C717	Theories of Personality	C	3	1	0	4
SSS C718	Experimental Psychology (Practical)	C	3	1	0	4
<b>SEMESTER III</b>						
SSS C701	Psychological Assessment (Practical)	C	3	1	0	4
SSS C710	Industrial Relations and Labour Law	C	3	1	0	4
SSS C719	Applied Social Psychology	C	3	1	0	4
SSS C720	Guidance and Counselling	C	3	1	0	4
SSS C702	Organizational Behavior	C	3	1	0	4
SSS C703	Human Resource Development	C	3	1	0	4
SSS C705	Research Methodology	C	3	1	0	4
SSS C711	Training and Development	C	3	1	0	4
UOM I001	Summer Internship	I		2		2
<b>SEMESTER IV</b>						
SSS C721	Organizational Development and Management of Change	C	3	1	0	4
SSS C722	Dissertation and Viva-Voce*	C	0	0	0	8

\*Viva-voce will be conducted by the Department with an external examiner for 20 marks

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
SSS E721	Human Resource Management	I	E	3
UOMS010	Personality Development	I	S	2
SSS E717	Sports Psychology*	II	E	3
UOMS011	Writing a research article/Thesis in Psychology	II	S	2
SSS E720	Positive Psychology*	III	E	3
UOMS012	Professional Skills for Psychologist	III	S	2
SSS E714	Fundamentals in Psychopathology*	IV	E	3
UOMS013	Psychology For Effective Living	IV	S	2

\* Electives offered for other Departments



**DEPARTMENT OF EDUCATION**

**MASTER OF EDUCATION (M.Ed) (Regular & Self Supportive)**

*Note: Compulsory Components*

Core Courses	-	60 Credits Minimum
Elective Courses	-	21 Credits Minimum
Soft Skill Courses	-	08 Credits
Internships	-	08 Credits
Total	-	97 Credits Minimum

Course Code	Title of the Course	Sem	C/E/S	Cr.
<b>I SEMESTER</b>				
SSS C301	Philosophical and Sociological Bases of Education	I	C	4
SSS C302	Advanced Educational Psychology	I	C	4
SSS C303	Education in 21 <sup>st</sup> Century	I	C	4
SSS C304	Educational Technology and e-learning	II	C	4
SSS C306	Educational Policy, Planning and Finance	II	C	4
SSS C307	Quantitative Research and Educational Statistics	II	C	4
SSS C305	Qualitative Research Methods in Education	III	C	4
SSS C308	Teacher Education	III	C	4
SSS C309	Educational Measurement and Evaluation	III	C	4
SSS C310	Curriculum Designing	IV	C	4
SSS C311	Quality in Education	IV	C	4
SSS C312	Education for Human Values	IV	C	4
SSS C313	Dissertation and Viva-Voce	IV	C	12

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
SSS E301	Educational Leadership	I	E	3
SSS E302	Guidance and Counselling*	I	E	3
UOMS017	Life Skills Education	I	S	2
SSS E303	Special Education*	II	E	3
SSS E304	Women's Education	II	E	3
SSS I001	Education Institution- Internship	II	I	4
UOMS015	Personality Enrichment ( Softskill)	II	S	2
SSS E305	Educational Administration	III	E	3
SSS E306	Educational Professionalism*	III	E	3
SSS I002	The Area of Specialisation-Internship	III	I	4
UOMS016	Writing Skill in Research Proposal and Report Writing	III	S	2
SSS E307	Yoga and Health Education	IV	E	3
SSS E308	Economics of Education	IV	E	3
UOMS207	Life Span Development	-	S	2

\* *Electives offered for other Departments*

**DEPARTMENT OF ADULT & CONTINUING EDUCATION**  
**M.A. LIFE LONG LEARNING (Regular& Self Supportive)**

Course Code	Title of the Course	C /E /S	Cr.
<b>I SEMESTER</b>			
SSS C401	Principles of Management and Continuing Education	C	4
SSS C402	Principles of Adult Education	C	4
SSS C403	Continuing Education International Context	C	4
SSS C404	Psychology of Adult Learning	C	4
SSS C303	Education in 21 <sup>st</sup> Centaury	C	4
<b>II SEMESTER</b>			
SSS C405	Continuing Education for Different Target Groups	C	4
SSS C406	Population Education	C	4
SSS C407	Curriculum Development	C	4
SSS C408	Planning and Management Training of Continuing Education Programmes	C	4
SSS C304	Educational Technology and e-Learning	C	4
<b>III SEMESTER</b>			
SSS C409	Research Methodology and Statistics	C	4
SSS C410	Communication Techniques	C	4
SSS C411	Open learning: Concept and Development	C	4
SSS C412	Student Counselling and Career Guidance	C	4
<b>IV SEMESTER</b>			
SSS C413	Non Formal Education & Development	C	4
SSS C414	Entrepreneurship	C	4
SSS C415	Project	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
SSS E401	Life skills Education	I	E	3
SSS E402	Health Education	I	E	3
UOMS018	Basic Managerial Skills	I	S	2
SSS E403	Human Rights Education	II	E	3
SSS E404	Gender Studies	II	E	3
UOMS019	Business Communication Skills	II	S	2
SSS E405	Extension Education	III	E	3
SSS E406	Adolescence Education	III	E	3
UOMS	Personality Development	III	S	2
UOM I001	Internship	IV	I	2
SSS E407	Environmental Education	IV	E	3
UOMS020	Essential Spoken and Presentation Skills in English	IV	S	2

**M.A. HUMAN RESOURCES MANAGEMENT**

Course Code	Title of the Course	C /E /S	Cr.
<b>I SEMESTER</b>			
SSS C601	Managerial Concepts	C	4
SSS C602	Organization Behaviour	C	4
SSS C603	Total Quality Management	C	4
SSS C604	Business Communication	C	4
<b>II SEMESTER</b>			
SSS C605	Human Resource Management	C	4
SSS C606	Organisational Development	C	4
SSS C607	Management Training and Development	C	4
SSS C608	Legal Framework Governing Human Relations	C	4
SSSC703	Human Resource Management	C	4
<b>III SEMESTER</b>			
SSS C609	Human Resource Development	C	4
SSS C610	Industrial Relation	C	4
SSS C611	Manpower Development for Technological changes	C	4
SSS C612	Research Methods	C	4
BUSC207	Operation Management	C	4
BUSC213	Management Information System	C	4
<b>IV SEMESTER</b>			
SSS C613	Entrepreneurship and Management in small Business	C	4
SSS C614	Business policy and Strategic Management	C	4
SSS C615	Project – Viva	C	6
SSSC721	Organisation Development and Management Change	C	4
SSSC116	NGO Management	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Sem	C/E /S	Credit
SSS E601	MIS for HRM	I	E	3
SSS E402	Health Education	I	E	3
SSS E405	Extension Education	I	E	3
UOMS018	Basic Managerial Skills	I	S	2
SSS E602	Labour Welfare	II	E	3
SSS E401	Life Skills Education	II	E	3
UOMS019	Business Communication Skills	II	S	2
SSS E603	Management Accounting	III	E	3
SSS E407	Environmental Education	III	E	3
UOMS183	Personality Development	III	S	2
UOM I001	Internship	III	I	2
SSS E604	Managerial Economics	IV	E	3
SSS E406	Adolescence Education	IV	E	3
UOMS020	Essential Spoken and Presentation Skills in English	IV	S	2

**DEPARTMENT OF SOCIOLOGY**  
**M.A. SOCIOLOGY**

Course Code	Title of the Course	C /E /S	Cr.
<b>I SEMESTER</b>			
SSS C501	Sociological Theory	C	4
SSS C502	Research Methodology	C	4
SSS C503	Indian Society: Structure and Process	C	4
SSS C515	Principles of Sociology	C	4
SSSC518	Cultural Sociology	C	4
<b>II SEMESTER</b>			
SSS C505	Contemporary Sociological Theory	C	4
SSS C506	Social Movements in India	C	4
SSS C508	Sociology of Development	C	4
<b>III SEMESTER</b>			
SSS C509	Rural Sociology	C	4
SSS C510	Sociology of Organization	C	4
SSS C516	Indian Social Problems	C	4
SSS C517	Sociology of Health	C	4
<b>IV SEMESTER</b>			
SSS C512	NGO and Development Practice	C	4
SSS C513	Urban Sociology	C	4
SSS C514	Project cum Viva	C	8
SSSC519	Economic Sociology	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
SSS E501	Environmental Sociology	I	E	3
SSS E508	Urban Policy Analysis *	I	E	3
SSSE509	Social Psychology *	I	E	3
SSS E502	Social Anthropology	II	E	3
SSS E011	Sociology of Tourism	II	E	3
SSSE510	Sociology of Human Sexuality*	II	E	3
SSSE511	Sociology of Disaster management*	II	E	3
UOM I001	Internship	II	I	2
SSS E503	Political Sociology	III	E	3
SSS E504	Industrial Sociology	III	E	3
SSSE512	Rural Development: Policy and Analysis*	III	E	3
SSSE012	Sociology of Mass Media	III	E	3
SSS E515	Dynamics of Personality and Human Behaviour	IV	E	3
SSSE516	Emotional Intelligence*	IV	E	3

**SOFT SKILL COURSES OFFERED BY THE DEPARTMENT OF SOCIOLOGY**

UOM S205	Personality Development		S	2
UOM S021	Scientific Writing		S	2
UOMS028	Communication Skills		S	2

UOMS158	Presentation Skills		S	2
UOMS190	Personal and Interpersonal Skills		S	2
UOMS191	Creativity and Professional Skills		S	2

\* *Electives offered for other Departments*

**DEPARTMENT OF COUNSELLING PSYCHOLOGY**

**M.Sc. COUNSELLING PSYCHOLOGY (Regular and Self-Supportive)**

Course Code	Title of the Course	C/E /S	Credit			
			L	T	P	C
<b>I - Semester</b>						
SSS C901	Theory & Practice of Counselling and Psychotherapy-1	C	3	1	0	4
SSS C904	Biological Foundations of Behaviour	C	0	1	3	4
SSS C905	Psychological Assessments	C	3	1	0	4
SSS C917	Developmental Counselling	C	3	1	0	4
SSS C918	Clinical Psychology in Medical Settings	C	3	1	0	4
<b>II - Semester</b>						
SSS C906	Theory & Practice of Counselling and Psychotherapy-II	C	3	1	0	4
SSS C902	Introduction to Research Methodology	C	3	1	0	4
SSS C908	Psychopathology	C	3	1	0	4
SSS C909	Counselling & Psychotherapy Practicum	C	0	1	3	4
SSS C910	Family, Marital and Workplace Counselling	C	0	0	0	2
<b>III – Semester</b>						
SSS C907	Quantitative & Qualitative Research Methods in Counselling Psychology	C	3	1	0	4
SSS C911	School Counselling	C	2	1	0	3
SSS C919	Training and Development	C	2	1	0	3
SSS C920	Community Psychology: Theory and Practice	C	3	1	0	4
<b>IV - Semester</b>						
SSS C915	Clinical Training and Supervised Clinical Practicum	C	0	1	3	4
SSS C916	Project Dissertation	C	0	2	4	6

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
SSS E901	Counselling for Children	<b>I</b>	E	3
UOMS015	Personality Enrichment	<b>I</b>	S	2
SSS E902	Adolescent Counselling	<b>II</b>	E	3
SSS E903	Pre-marital Counselling	<b>II</b>	E	3
UOMI001	Placement/Internship	<b>II</b>	I	2
UOMS165	Research Proposal	<b>II</b>	S	2
SSS E904	Psychodrama	<b>III</b>	E	3
SSS E905	Addiction Counselling	<b>III</b>	E	3
UOMS025	Seminar and Publications	<b>III</b>	S	2
SSS E906	Career Counselling	<b>IV</b>	E	3
SSS E907	Crisis Intervention and Trauma Counselling	<b>IV</b>	E	3
UOMS166	Writing Resumes and Covering Letters	<b>IV</b>	S	2

\* *Electives offered for other Departments*

DEPARTMENT OF WOMEN STUDIES  
M.A. WOMEN'S STUDIES

Course Code	Title of the Course	C/E/S/I	Credits
<b>SEMESTER I</b>			
SSS C851	Introduction to Feminist Theories	C	4
SSS C852	Evolution of Family, Social Structures and Institutions	C	4
SSS C853	Women in Indian Literature and Culture	C	4
SSS C854	Women and Wellness	C	4
<b>SEMESTER II</b>			
SSS C855	Gender Sensitisation and Resolving Gender Conflict	C	4
SSS C856	Women in Literature, Media and Arts	C	4
SSS C857	Gender Based Violence and Laws	C	4
SSS C858	Men in Feminism	C	4
<b>SEMESTER III</b>			
SSS C859	Basics of Research Methodology	C	4
SSS C860	Gender in Historical and Religious Thought	C	4
SSS C861	Gender, Language and Etiquette	C	4
SSS C862	Life Narratives of Women in Science	C	4
<b>Semester IV</b>			
SSS C863	Education, Employment and Empowerment	C	4
SSS C864	Dissertation & Viva Voce	C	4+4=8

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
SSS E851	Introduction to Women and Gender Studies	I	E	3
SSSE002	Qualitative Methods of Research	I	E	3
	Soft Skill I	I	S	2
SSS E852	Key Concepts and Issues in Gender Studies	II	E	3
SSSE304	Women's Education	II	E	3
SSSE003	Social Ecology	II	E	3
	Soft Skill II	II	S	2
SSS E853	Status of Women in India Through the Ages	III	E	3
SSS E854	Preparatory Course in Women's Studies for Competitive Exams	III	E	3
SSSE105	Victimology and Victim Assistance	III	E	3
	Soft Skill III	III	S	2
UOMI001	Internship	III	I	2
SSS E855	Elective VII – Evolution of Women's Writing in India	IV	E	3
	Soft Skill IV	IV	S	2
<b>SOFT SKILL COURSE OFFERED BY THE DEPARTMENT</b>				
UOMS179	Gender Sensitization and Workplace Readiness		S	2

**MASTER OF SOCIAL WORK (M.S.W.)**

Course Code	Course Name	C/E	Cr.
<b>Semester I</b>			
SSSC 051	Social Work Profession-History and Philosophy	C	4
SSSC 052	Work with Individuals (Social Case Work)	C	4
SSSC 053	Work with Groups (Social Group Work)	C	4
SSSC 054	Field Work Practicum - I	C	6
SSSE 051	Social and Psychological Foundations for Social Work (Compulsory)	E	3
UOMS157	Communication Skills	S	2
<b>Semester II</b>			
SSSC 055	Community Organization & Social Action	C	4
SSSC 056	Social Work Research and Statistics	C	4
SSSC 057	Field Work Practicum - II	C	6
SSSE 052	Disaster Management /	E	3
SSSE 053	Working with People Living with HIV/AIDS		
SSSE 054	Gender and Development (Compulsory)	E	3
UOMS169	Leadership and Team Building	S	2
<b>Semester III</b>			
SSSC 058	Management of Organizations	C	4
SSSC 059	Field Work Practicum - III	C	6
SSSC 060	Rural Community Development /	C	4
SSSC 061	Human Recource Development		
SSSC 062	Urban Community Development /	C	4
SSSC 063	Labour Legislations		
SSSE 055	Counselling-Theory and Practice /	E	3
SSSE 056	Marriage and Family Life Education		
SSSE 057	Social Policy and Social Legislation /	E	3
SSSE 058	Human Rights and Social Work		
UOMS190	Personal and Interpersonal Skills	S	2
<b>Semester IV</b>			
SSSC 060	Field Work Practicum - IV	C	6
SSSC 061	Project Report	C	4
SSSC 064	Development Planning /	C	4
SSSC 065	Industrial Relations and Labour Welfare		
SSSC 065	Entrepreneurship Development /	C	4
SSSC 066	Organizational Behaviour and Development		
SSSE 059	Migration Issues and Human Security /	E	3
SSSE 060	Social work in the Unorganized Sector		
SSSE 061	Social Work and Persons with Disability /	E	3
SSSE 062	UN Systems for Development and Social Change		
UOMI001	Block Placement /Internship	I	2
UOMS191	Creativity and Professional Skills	S	2

**M.Phil. PSYCHOLOGY**

Course Code	Title of the Course	C /E	Credit
<b>I SEMESTER</b>			
SSS C354	Research Methodology	C	5
SSS C355	Psychological Tests [Individual/Group Assessments- 10 Reports] (Practical)	C	5
SSS C356	Counselling and Behaviour Modification [5 Case Studies] (Practical)	C	5
<b>II SEMESTER</b>			
SSS C357	Dissertation and Viva- voce	C	21

**M.Phil. EDUCATION**

Course Code	Title of the Course	C /E	Credit
<b>I SEMESTER</b>			
SSS C321	Advanced Research Methodology	C	5
SSS C322	Advanced Educational Statistics	C	5
SSS E321	Management of Education	E	5
SSS E323	Related to Area of Specialization in Dissertation	E	5
<b>II SEMESTER</b>			
SSS C323	Dissertation and Viva Voce	C	21

**M.Phil CONTINUING EDUCATION MANAGEMENT (Full Time)**

Course Code	Title of the Course	C /E/S	Credit
<b>I SEMESTER</b>			
SSS C201	Continuing Education – Concept and Theory	C	5
SSS C202	Research Methodology	C	5
SSS C203	Principles of Management and Continuing Education	C	5
SSS C204	Extension Education and Development	C	5
<b>II SEMESTER</b>			
SSS C205	Dissertation and Viva-Voce	C	21

**M.Phil. HUMAN RESOURCES MANAGEMENT (Full-Time)**

Course Code	Title of the Course	C /E/S	Credit
<b>I SEMESTER</b>			
SSS C251	Research Methodology	C	5
SSS C252	Management Concepts	C	5
SSS C253	Strategic Human Resource and Development	C	5
<b>II SEMESTER</b>			
SSS C254	Dissertation and Viva-Voce	C	21

**M.Phil. ANTHROPOLOGY**

Course Code	Title of the Course	C /E/S	Credit
<b>I SEMESTER</b>			
SSS C101	Anthropology and Anthropological Theories	C	5
SSS C102	Anthropological Research : Methods and Techniques	C	5
SSS C103	People of India	C	5
<b>II SEMESTER</b>			
SSS C104	Dissertation and Viva-Voce	C	21



**M.Phil. COUNSELLING PSYCHOLOGY**

Course Code	Title of the Course	C /E/S	Credit
<b>I SEMESTER</b>			
SSS C991	Advanced Counselling skills in Practice	C	5
SSS C992	Special issues related to counselling practice	C	5
SSS C993	Advance Research Methods in Counselling	C	5
<b>II SEMESTER</b>			
SSS C995	Psychological Assessments	C	5
SSS C996	Case Study Practicum	C	4
SSS C997	Dissertation and Viva-voce	C	12

**M.Phil. WOMEN'S STUDIES**

Course Code	Title of the Course	C /E/S	Credit
<b>I SEMESTER</b>			
SSS C891	Research Methodology	C	5
SSS C892	Feminist Research Approaches	C	5
SSS C893	Impact of Feminism on Different Disciplines	C	5
<b>II SEMESTER</b>			
SSS C894	Dissertation and Viva-voce	C	21

**P.G. DIPLOMA IN PARENT COUNSELLING (For School Principals & Teachers)**

Course Code	Title	C /E	Credits
<b>I SEMESTER</b>			
SSS C376	Psychology of Human Development	C	3
SSS C377	Psychology of Adjustment	C	3
SSS C378	Psychology of Information Processing	C	3
SSS E376	Life Skills Education	E	3
SSS C380	Practical – I	C	3
SSS C380	Practical – II	C	3
<b>II SEMESTER</b>			
SSS C382	Parent Education	C	3
SSS C383	Guidance and Counseling	C	3
SSS E377	Counseling Applications	E	3
SSS C385	Psychometrics	C	3
SSS C386	Practical – III	C	3
SSS C387	Project & Viva-Voce	C	3

**POST GRADUATE DIPLOMA IN EXTENSION & DEVELOPMENT ADMINISTRATION**

Course	Title of the Course	Credit
<b>I SEMESTER</b>		
SSS C501	Extension Education and Field Outreach	5
SSS C502	Development and Administration of Extension Education and Field Outreach	5
SSS C503	Planning, Management and Communication in Extension and Field outreach	5
<b>II SEMESTER</b>		
SSS C504	Disaster Management	5
SSS C505	Research Monitoring and Evaluation	5
SSS C506	Project work /Dissertation (Dissertation (6) and Viva (2) Seminar paper(2)/ Community living Camp (1)	11

**P.G.DIPLOMA IN COUNSELLING AND PSYCHOTHERAPY (SELF SUPPORTIVE)**

Course Code	Title of the Course	Credits
<b>I SEMESTER</b>		
SSS C951	Theory & Practice of Counselling and Psychotherapy	<b>5</b>
SSS C952	Psychopathology	<b>5</b>
SSS C953	Family, Marital and Workplace Counselling	<b>5</b>
SSS C954	Special Group Counselling (Abuse, Addiction, Trauma, Suicide and Counselling)	<b>5</b>
<b>II SEMESTER</b>		
SSS C955	Psychological Assessments	<b>8</b>
SSS C956	Project	<b>8</b>

**POST GRADUATE DIPLOMA IN COUNSELLING PSYCHOLOGY**

Course Code	Title of the Course	Credits
<b>I SEMESTER</b>		
SSS C451	Essentials of Psychology	<b>4</b>
SSS C452	Mental Health and Psychopathology	<b>4</b>
SSS C453	Counselling Skills and Techniques	<b>4</b>
SSS C454	Psychosocial Medicine-Specialization	<b>4</b>
<b>II SEMESTER</b>		
SSS C455	Internship I	<b>7</b>
SSS C456	Internship II	<b>7</b>
SSS C457	Clinical Presentation	<b>3</b>
SSS C458	Viva-Voce	<b>3</b>

**DIPLOMA IN LEARNING DISABILITES (SELF SUPPORTIVE)**

Course Code	Title of the Course	Credits
SSS C661	Fundamentals of Psychology	4
SSS C662	Introduction to Learning Disabilities	4
SSS C663	Intervention & Strategies for working with children with Learning Disabilities.	4
SSS C664	Case study	2
SSS C665	Practicum and Viva Voce	4

**DIPLOMA IN AUTISM SPECTRUM DISORDER (SELF SUPPORTIVE)**

Course Code	Title of the Course	Credits
SSS C671	Fundamentals of Psychology	4
SSS C672	Introduction to Autism Spectrum Disorder	4
SSS C673	Interventional Strategies for working with children with Autism	4
SSS C674	Case study	2
SSS C675	Practicum and Viva Voce	4

**POST GRADUATE DIPLOMA IN ORGANIZATIONAL DEVELOPMENT AND MANAGEMENT OF CHANGE**

Course Code	Title of the Course	Credits
<b>I SEMESTER</b>		
SSS C801	Principles and Theories of Organizational Development	5
SSS C802	Techniques of Organizational Development Interventions	5
SSS C803	Models of Change Management	5
<b>II SEMESTER</b>		
SSS C804	Project I – Organizational Diagnosis	5
SSS C805	Project II – Survey Feed back	5
SSS C806	Viva-Voce	11

**DIPLOMA IN JUVENILE JUSTICE AND JUVENILE PSYCHOLOGY (SELF-SUPPORTIVE)**

Course Code	Title of the Course	C/E	Credits
<b>FIRST SEMESTER</b>			
SSSC 601	Principles of Human Development	C	3
SSSC 602	Psycho-Social Aspects of Childhood and Adolscence	C	3
SSSC 603	Deviance, Delinquency and Vulnerability in Children and Adolescents	C	3
<b>SECOND SEMESTER</b>			
SSSC 604	Juvenile Justice System	C	3
SSSC 605	Assessment, Interviewing and Referral	C	3
SSSC 606	Psycho-Social Intervention for the Children in Need of Care & Protection and Children in Conflict with Law	C	3

**DIPLOMA IN TRAVEL AND TOURISM MANAGEMENT (*Self-Supportive*)**

Course Code	Title of the Course	C/E	Credits
SSS C425	Tourism Business and Development	C	3
SSS C426	Tourism Marketing in India	C	3
SSS C427	Travel Management	C	3
SSS C428	Hospitality Management	C	3
SSS C430	Practical/Project in a reputed Travel Agencies in Chennai	C	6

**CERTIFICATE COURSE IN JUVENILE PSYCHOLOGY (*Self-Supportive mode*)**

Course Code	Title of the Course	C/E	Credits
SSSC 651	Principles of Child and Adolescent Development	C	3
SSSC 652	Delinquency, Vulnerability and Juvenile Justice System	C	3
SSSC 653	Intervention, Treatment and Assessment	C	3

**CERTIFICATE COURSE IN SKIN CARE BEAUTY THERAPY (Self-Supportive mode)**

Course Code	Title of the Course	C/E	L	T	P	Credits
SSS C431	The Skin and Skin care theory	C	3	0	0	3
SSS C432	The Hair and Hair care	C	3	0	0	3
SSS C433	Skin, Hair & Beauty care Practical (All practical will be conducted in a reputed Beauty clinic in Chennai)	C	3	0	0	3

**CERTIFICATE COURSE IN NGO MANAGEMENT (Self-Supportive mode)**

Course Code	Title of the Course	C/E	L	T	P	Credits
SSS C436	Principles and practice of NGO Management	C	3	0	0	3
SSS C437	Extension and Field Out reach	C	3	0	0	3
SSS C438	Project Formulation, Monitoring and Evaluation Internship in a select NGO	C	3	0	0	3

**CERTIFICATE COURSE IN WEB-PAGE DESIGN (Self-supportive mode)**

Course Code	Title of the Course	C/E	L	T	P	Credits
SSS C441	Basic Concepts of Internet & www	C	3	0	0	3
SSS C442	Images - Height and animation	C	3	0	0	3
SSS C443	Introduction to HTML and single Java scrip Internship in a Select NGO	C	3	0	0	3

**CERTIFICATE IN PRE-PRIMARY EDUCATION (Self-Supportive mode)**

Course Code	Title of the Course	C/E	L	T	P	Credits
SSS C446	Foundations of Early Childhood Education and Child activities	C	2	0	0	2
SSS C447	Health Nutrition and welfare of the pre - school child	C	2	0	0	2
SSS C448	Organization of creche and Pre-School	C	2	0	0	2
SSS C449	Practical	C	0	0	3	3

**CERTIFICATE COURSE IN WOMEN'S STUDIES (Self-Supportive mode)**

Course Code	Title of the Course	C/E	L	T	P	Credits
SSS C451	Woman and Society Economic Development	C	3	0	0	3
SSS C452	Women Law and Justice	C	3	0	0	3
SSS C453	Project Work	C	3	0	0	3

**CERTIFICATE COURSE IN TV NEWS READING AND COMPEERING (Self-Supportive mode)**

Course Code	Title of the Course	C/E	L	T	P	Credits
SSS C456	T.V. News writing	C	2	1	0	3
SSS C457	Compeering (Practical)	C	2	0	1	3
SSS C458	News Reading (Practical)	C	2	0	1	3

**CERTIFICATE COURSE IN FUNCTIONAL ENGLISH AND PUBLIC SPEAKING (*Self-Supportive mode*)**

Course Code	Title of the Course	C/E	L	T	P	Credits
SSS C461	Remedial Grammar and Conversational Strategies	C	3	0	0	3
SSS C462	Phonetics and Communication	C	3	0	0	3
SSS C463	Public Speaking & Presentation Skills	C	3	0	0	3

**CERTIFICATE IN BLOGGING (*Self-Supportive mode*)**

Course Code	Title of the Course	C/E	L	T	P	Credits
SSS C466	Blogging Basics	C	2	0	1	3
SSS C467	Writing for the Blogs	C	2	0	1	3
SSS C468	Blogging Practice	C	0	0	3	3
SSS C469	Project Work	C	3	0	3	3

**CERTIFICATE IN HOSPITALITY MANAGEMENT (*Self-Supportive mode*)**

Course Code	Title of the Course	C/E	L	T	P	Credits
SSS C471	Accommodation Operations	C	2	0	0	2
SSS C472	Food and Beverage Management	C	2	0	0	2
SSS C473	Basic Marketing Principles	C	2	0	0	2
SSS C474	Project Work / Practical in a reputed	C	0	0	3	3

**SCHOOL OF POLITICAL AND INTERNATIONAL STUDIES**

The School of Political and International Studies consists of Anna Centre for Public Affairs, Department of Politics and Public Administration, Department of Defence and Strategic Studies, Centre for South and Southeast Asian Studies and Department of Legal Studies.

In October 1934 a proposal for starting the Department of Politics and Public Administration was mooted and in July 1937, a Diploma course in Politics and Public Administration was started. The B.A(Hons.) and B. A.(Pass) courses were started in 1936 and 1939 respectively. The Department has M.A. (Political Science), M.A. (Public Administration), M.A. (International Relations), M.Phil (Political Science), M.Phil. (Public Administration), M.Phil. (International Relations) and Ph.D Programmes. The Department has a Computer Laboratory.

The Department of Legal Studies was founded in August 1951 with Professor C.H.Alexandrowicz as its Head. The Department specializes in International Law and Constitutional Law. It started Grotian Society for conducting historical research in International Law and publishes the Indian Yearbook of International Affairs. The Department now offers LL.M and Ph.D Programmes. The department has a special collection of books on International and Constitutional Law.

The Centre for South and Southeast Asian Studies was initiated in early 1970's and now it specializes on the Politics, History and Culture of these Regions. In 1977 the Centre was organized and it began extensive researches on Malaysia, Indonesia, Singapore, Maldives and Sri Lanka. The Indian immigrants of these regions were specially researched. The Centre offers M.A., M.Phil. and Ph.D. programmes. Its library has a good collection of excellent materials on these regions.

The Department of Defence and Strategic Studies was introduced in the university of madras by Professor Malcom Adiseshiah, the then Vice – Chancellor, from 1976 as an academic discipline at graduated in the department of defence Studies (1977), University of Madras and the M.Sc. at the Defence Services Staff college (1978), Wellington, Nilgiris. The nomenclature of defence studies was renamed in 1990 as Defence and strategic studies to bring uniformity throughout the country. The department initiated Ph.D.programme in 1985 and M.Phil. programme in 1990 and later the same was extended to the defence services Staff College.

The National Defence College, New Delhi was given affiliation to conduct M.Phil. in Defence Management And Strategic Studies (2006). The Officer's Training Academy, Chennai was affiliated to conduct course for the award of P.G Diploma in Defence Management and Strategic Studies (2011). The Department supervises all the three defence institutions in conducting their courses. The Department specializes in national security, and maritime security and other important strategic issues.

Anna Centre for Public Affairs was established out of a donation from the AIADMK party during the post Centenary Silver Jubilee celebration of the Univeristy of Madras in 1983. The Centre was renamed later as Anna Centre for Public Affairs. The Centre specializes in public policy Studies, Legislative Studies, Federal Studies and on political and Social Leadership. It offers M.A. (Public administration – Tamil Medium), M.Phil (Public Affairs) and Ph.D.

#### **Faculty**

Dr. S. Manivasakan, Ph.D

Chairperson

#### **Anna Centre for Public Affairs**

Dr. Kalaiselvi Sivaraman, Ph.D

Assistant Professor & Head i/c

Dr. R. Venkatesh, Ph.D

Assistant Professor

#### **UGC- Centre for South and South East Asian Studies**

Dr. S. Manivasakan, Ph.D

Professor & Director

Dr. Hiller Armstrong, Ph.D

Assistant Professor

#### **Defence and Strategic Studies**

Dr. S. Utham Kumar Jamadhagni, Ph.D

Professor & Head

Dr. E. Prabakaran, Ph.D

Assistant Professor

Dr. M. Venkataraman, Ph.D

Assistant Professor

#### **Legal Studies**

Dr. B. Venugopal, Ph.D

Professor & Head

Dr. G. Rajasekar, Ph.D

Assistant Professor

#### **Politics and Public Administration**

Dr. M. Uma Maheswari, Ph.D

Professor & Head

Dr. M. Kennedy Stephensan Vaseekaran, Ph.D

Associate Professor

Dr. S. Parthiban, Ph.D

Assistant Professor

#### **Rajiv Gandhi Chair in Contemporary Studies**

Dr. M.Uma Maheswari, Ph.D

Professor and Head i/c

**M.A. DEFENCE AND STRATEGIC STUDIES (Regular & Self-Supportive)**

Course Code	Title of the Course	C/E /S	Credit
<b>I SEMESTER</b>			
PSI C101	Theories of International Relations	C	4
PSI C102	Fundamentals of National Security	C	4
PSI C103	Global Security Issues	C	4
PSI C109	Military History of India	C	4
<b>II SEMESTER</b>			
PSI C104	Modern Strategic Thought	C	4
PSI C105	International Terrorism	C	4
PSI C106	Research Methodology	C	4
PSI C107	Defence Economics	C	4
<b>III SEMESTER</b>			
PSI C111	Arms Control and Disarmament	C	4
PSI C113	Legal aspects of International Security	C	4
PSI C114	Comparative Foreign Policies	C	4
PSI C108	International Organization	C	2
<b>IV SEMESTER</b>			
PSI C112	Conflict Resolution in International Relations	C	4
PSI C118	Project Work	C	4
PSI C119	Maritime Security of India	C	4
PSI C120	Specialized Warfare	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
PSI E101	Dimensions of India's Internal Security*	I	E	3
UOMS171	Communication and Leadership Skills	I	S	2
PSI E102	Introduction of Strategic Studies	II	E	3
PSI E103	African Studies	II	E	3
UOMS172	Fundamentals of Writing on Strategic Affairs	II	S	2
PSI E106	Conflict and Peace	III	E	3
PSI E109	Indo-Australian Relations*	III	E	3
UOM S207	Research Writing and Research Skills	III	S	2
UOM I001	Internship	III	I	2
PSI E107	Armed Forces and Disaster Management	IV	E	3
PSI E108	Latin American Studies	IV	E	3
UOMS208	Strategic Planning and Decision Making	IV	S	2

\* Electives offered for other Departments

**ANNA CENTRE FOR PUBLIC AFFAIRS**

**SOFT SKILL COURSES OFFERED BY THE DEPARTMENT**

Course Code	COURSE NAME	SEMESTER
UOMS139	Leadership skill	I
UOMS140	Skills for personality enrichment	II
UOMS141	Skills for effective communication	III
UOMS142	Entrepreneur development skills	IV

**M.A. PUBLIC ADMINISTRATION (Tamil Medium)**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
PSI C611	Administrative Theory - 1	C	4
PSI C612	Principles of Management - 1	C	4
PSI C613	Development Administration - 1	C	4
<b>II SEMESTER</b>			
PSI C614	Administrative Theory - 2	C	4
PSI C615	Principles of Management - 2	C	4
PSI C616	Development Administration - 2	C	4
<b>III SEMESTER</b>			
PSI C621	Administrative Law-1	C	4
PSI C622	Public Financial Administration-1	C	4
PSI C623	Public Policy Analysis - 1	C	4
PSI C624	Human Resource Management - 1	C	4
<b>IV SEMESTER</b>			
PSI C625	Administrative Law-2	C	4
PSI C626	Public Financial Administration-2	C	4
PSI C627	Public Policy Analysis - 2	C	4
PSI C628	Human Resource Management - 2	C	4
PSI C629	Methodology, Dissertation and Viva -Voce	C	4

Course Code	Title of the Course	Semester	C/E/S	Credit
PSI E611	Administrative Thinkers - 1	I	E	3
PSI E612	Human Rights Administration in India - 1	I	E	3
	Soft Skill	I	S	2
PSI E641	Administrative Thinkers - 2	II	E	3
PSI E642	Human Rights Administration in India - 2	II	E	3
	Soft Skill	II	S	2
PSI E643	Indian Administration - 1	III	E	3
	ELECTIVE-6	III	E	3
	Soft Skill	III	S	2
UOM I001	Internship	III	I	2
PSI E644	Indian Administration - 2	IV	E	3
	Soft Skill	IV	S	2

**M.A. PUBLIC POLICY**

Course Code	Title of the Course	C/E/S	CREDITS			
			L	T	P	C
<b>I SEMESTER</b>						
PSIC 051	Introduction to Public Policy	C	3	1	0	4
PSIC 052	Public Policy Analysis	C	3	1	0	4
PSIC 053	Constitutional Framework and Public Policy	C	3	1	0	4
PSIC 054	Growth of State & Welfare Policies	C	3	1	0	4
PSIE 051	Gender and Public Policy	E	2	1	0	3
	Soft Skill	S				2
<b>II SEMESTER</b>						
PSIC 055	Public Policy in India	C	3	1	0	4
PSIC 056	Global Environment and Public Policy	C	3	1	0	4
PSIC 057	Development Planning and Social Change	C	3	1	0	4



PSIC 058	Environmental Policy and Administration in India	C	3	1	0	4
PSIE 052	Economic Development and New Economic Policy	E	2	1	0	3
PSIE 053	Health Policy	E	2	1		3
	Soft Skill	S				2
<b>III SEMESTER</b>						
PSIC 059	Research Methodology	C	3	1	0	4
PSIC 060	Agriculture and Land Reforms in India	C	3	1	0	4
PSIC 061	Educational Policy and Social Transformation	C	3	1	0	4
PSIE 054	Impact of Technology on Public Policy	E	2	1	0	3
PSIE 055	NGO's, Civil Society and Public Policy	E	2	1		3
	Soft Skill	S				2
UOMI001	Internship	I				2
<b>IV SEMESTER</b>						
PSIC 062	Statistical Applications and Public Policy	C	3	1	0	4
PSIC 063	Rural Development in India: Policies and Programmes	C	3	1	0	4
PSIC 064	Urban Development in India: Policies and Programmes	C	3	1	0	4
PSIE 057	Skill Development and Public Policy	E	2	1		3
PSIE 058	Public Policy in Human Rights	E	2	1		3
	Soft Skill	S				2
PSIC 065	Dissertation	C	3	1	0	4

**M.A. DEVELOPMENT ADMINISTRATION**

Course Code	Title of the Course	C/E/S	CREDITS			
			L	T	P	C
<b>I SEMESTER</b>						
PSI C651	Principles of Public Administration	C	3	1	0	4
PSI C652	Introduction to Development Administration	C	3	1	0	4
PSI C653	Constitutional Development in India	C	3	1	0	4
PSI C654	Public Financial Administration	C	3	1	0	4
<b>II SEMESTER</b>						
PSI C655	Sustainable Development	C	3	1	0	4
PSI C656	Development Planning	C	3	1	0	4
PSI C657	Public Policy Analysis	C	3	1	0	4
PSI C658	Environmental Administration in India	C	3	1	0	4
<b>III SEMESTER</b>						
PSI C659	Governance and Development Theory	C	3	1	0	4
PSI C660	Rural Governance	C	3	1	0	4
PSI C661	NGO's Civil Society and Development	C	3	1	0	4
<b>IV SEMESTER</b>						
PSI C662	E-Governance in India	C	3	1	0	4
PSI C663	Urban Governance	C	3	1	0	4
PSI C664	Development and Gender Issues	C	3	1	0	4
PSI C665	Dissertation					

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
PSI E651	Public Relations	I	E	3
UOMS139	Leadership Skill	I	S	2

PSI E652	Administrative Law	<b>II</b>	E	3
PSI E653	Human Resource Management	<b>II</b>	E	3
UOMS140	Skills for Personality Enrichment	<b>II</b>	S	2
PSI E654	Research Methodology	<b>III</b>	E	3
PSI E655	International Organizations	<b>III</b>	E	3
UOMS141	Skills for Effective Communication	<b>III</b>	S	2
UOM I001	Internship	<b>III</b>	I	2
PSI E656	Human Rights Administration	<b>IV</b>	E	3
PSI E657	Skill Development	<b>IV</b>	E	3
PSI E658	Social, Economic and Political Development in Tamil Nadu	<b>IV</b>	E	3
UOMS142	Entrepreneur Development Skills	<b>IV</b>	S	2

**LL.M INTERNATIONAL LAW AND ORGANISATION (REGULAR & S.S.)**

*Note: Compulsory Components for Postgraduate Programmes*

Core Courses	-	71 Credits Minimum
Elective Courses	-	21 Credits Minimum
Soft Skill Courses	-	08 Credits Minimum
Internships	-	02 Credits
Total	-	102 Credits Minimum

Course Code	Title of the Course	C/E /S	Credit.
<b>I SEMESTER</b>			
PSI C401	Law and Social Transformation-I	<b>C</b>	<b>5</b>
PSI C402	Law and Social Transformation-II	<b>C</b>	<b>5</b>
PSI C403	Introduction to International Law	<b>C</b>	<b>5</b>
PSI C404	International Organization: Law, Practice & Future	<b>C</b>	<b>5</b>
<b>II SEMESTER</b>			
PSI C405	Indian Constitutional Law- The New Challenges- I	<b>C</b>	<b>5</b>
PSI C406	Indian Constitutional Law- The New Challenges-II	<b>C</b>	<b>5</b>
PSI C407	Judicial Process	<b>C</b>	<b>5</b>
PSI C408	International Humanitarian Law	<b>C</b>	<b>5</b>
<b>III SEMESTER</b>			
PSI C409	Research Methodology and Legal Education	<b>C</b>	<b>5</b>
PSI C410	Science Technology & Law	<b>C</b>	<b>5</b>
PSI C411	Law and Diplomacy	<b>C</b>	<b>5</b>
<b>IV SEMESTER</b>			
PSI C412	International Law and Contemporary Issues	<b>C</b>	<b>5</b>
PSI C413	Practical Training	<b>C</b>	<b>5</b>
PSI C414	Dissertation and viva – voce	<b>C</b>	<b>6</b>

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
PSI E401	Introduction to Constitution	<b>I</b>	E	3
PSI E402	Disarmament and Peace Strategies	<b>I</b>	E	3
UOMS154	Mooting Skills	<b>I</b>	S	2

PSI E403	Private International Law	II	E	3
PSI E404	Environmental Law	II	E	3
UOMS159	Filing of Patent	II	S	2
PSI E405	Law of the Sea	III	E	3
PSI E406	Human Rights	III	E	3
UOMS177	Legislative Drafting	III	S	2
UOM I001	Internship	III	I	2
PSI E407	Introduction to IPR	IV	E	3
UOMS178	Drafting of Deeds	IV	S	2

**LL.M CONSTITUTIONAL LAW AND LEGAL ORDER REGULAR & S.S)**

Course Code	Title of the Course	C/E /S	Credit
<b>I SEMESTER</b>			
PSI C501	Law and Social Transformation-I	C	5
PSI C502	Law and Social Transformation-II	C	5
PSI C503	Introduction to International Law	C	5
PSI C504	Constitutionalism, Pluralism and Federalism	C	5
<b>II SEMESTER</b>			
PSI C505	Indian Constitutional Law- The New Challenges-I	C	5
PSI C506	Indian Constitutional Law- The New Challenges-II	C	5
PSI C507	Judicial Process	C	5
PSI C508	Public Utility Law	C	5
<b>III SEMESTER</b>			
PSI C509	Research Methodology and Legal Education	C	5
PSI C510	Science technology & Law	C	5
PSI C511	Union State Financial Relations	C	5
<b>IV SEMESTER</b>			
PSI C512	Practical Training	C	5
PSI C513	Dissertation and viva – voce	C	6
PSI C514	Introduction to IPR	C	5

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
PSI E501	Introduction to Constitution	I	E	3
PSI E502	Mass Media	I	E	3
UOMS154	Mooting Skills	I	S	2
PSI E503	Private International Law	II	E	3
PSI E504	Environmental Law	II	E	3
UOMS159	Filing of Patent	II	S	2
PSI E505	National Security and Public Order	III	E	3
PSI E506	Human Rights	III	E	3
UOMS177	Legislative Drafting	III	S	2
UOM 1001	Internship	III	I	2
PSI E507	Right to Information Act	IV	E	3

UOMS178	Drafting of Deeds	IV	S	2
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**M.A. PUBLIC ADMINISTRATION (ENGLISH MEDIUM)**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
PSI C201	Introduction to Public Administration	C	4
PSI C202	Constitution of India	C	4
PSI C203	Administrative Thinkers	C	4
PSI C204	New Public Management	C	4
<b>II SEMESTER</b>			
PSIC 205	International Organizations	C	4
PSI C 206	Human Resource Management	C	4
PSIC 207	Public Financial Administration	C	4
PSIC 208	Introduction to Political Science	C	4
<b>III SEMESTER</b>			
PSIC 209	Research Methodology	C	4
PSIC 210	Comparative Public Administration	C	4
PSIC 211	Administrative Law	C	4
PSI C212	Government and Administration in India	C	4
<b>IV SEMESTER</b>			
PSI C213	Public Policy	C	4
PSI C214	Fiscal Federalism in India	C	4
PSI C215	Dissertation	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
PSI E201	Human Rights Policy*	I	E	3
PSI E202	Public Safety and Security Administration	I	E	3
PSI E203	Labour Welfare Administration*	I	E	3
UOMS148	Survey Technique	I	S	2
PSIE 204	Bureaucracy	II	E	3
PSIE 205	Health Policy and Administration	II	E	3
PSIE 206	Disaster Management	II	E	3
PSI E213	Local Government	II	E	3
	Soft Skill	II	S	2
PSI E 207	Peace and Conflict Management*	III	E	3
PSIE 208	Gender, Politics and Administration	III	E	3
PSIE 209	Rural Development Administration*	III	E	3
	Soft Skill	III	S	2
UOM I001	Internship	III	I	2
PSI E210	Globalisation	IV	E	3
PSI E211	E-Governance	IV	E	3
	Soft Skill		S	2

\* *Electives offered for other Departments  
Soft Skills offered within the School*

**M.A. POLITICAL SCIENCE**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
PSI C301	Political Theory	C	4
PSI C302	Constitutional of India	C	4

PSI C303	Theories of International Relations	C	4
PSI C304	Introduction to Public Administration	C	4
<b>II SEMESTER</b>			
PSI C305	Western Political Thought	C	4
PSI C306	Foreign Policy of India	C	4
PSI C307	International Organizations	C	4
PSI C308	Indian Political Thought	C	4
<b>III SEMESTER</b>			
PSI C309	Research Methodology	C	4
PSI C310	Indian Government and Politics	C	4
PSI C314	Comparative Government and Politics	C	4
PSI C311	Political Economy	C	4
<b>IV SEMESTER</b>			
PSI C312	Politics of Southern States / Politics of South India	C	4
PSI C313	Contemporary Political Thought	C	4
PSI C315	Dissertation	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
PSI E301	Human Rights	I	E	3
PSI E302	Electoral Systems	I	E	3
PSI E308	Political Leadership	I	E	3
UOMS148	Survey Technique	I	S	2
PSI E303	Political Communication	II	E	3
PSI E304	Traditions of Nonviolence	II	E	3
	Soft Skill	II	E	3
PSI E306	Indian Administration	III	E	3
PSI E309	Introduction to Political Culture	III	E	3
PSI E310	Demographic Politics	III	E	3
	Soft Skill	III	S	2
UOMI001	Internship	III	I	2
PSI E307	Films, Politics and Society	IV	E	2
PSI E311	Political Psychology	IV	E	3
PSI E312	Liberalization / Globalization	IV	E	3
PSI E313	Tamil Nadu Politics	IV	E	3
	Soft Skill	IV	S	2

### M.A. INTERNATIONAL RELATIONS

Course Code	Title of the Course	C/E/ S	Credit
<b>I SEMESTER</b>			
PSI C701	History of International Relations :1648-1945	C	4
PSI C702	Political Theory	C	4
PSI C703	Theories of International Relations	C	4
PSI C704	Constitution of India	C	4
<b>II SEMESTER</b>			
PSI C705	International Organizations	C	4
PSI C706	Foreign Policy of India	C	4

PSI C707	Western Political Thought	C	4
PSI C708	Introduction to Diplomacy	C	4
<b>III SEMESTER</b>			
PSI C709	Research Methodology	C	4
PSI C710	Foreign Policy of Major Powers	C	4
PSI C711	Contemporary Issues in International Relations	C	4
PSI C714	Political Economy	C	4
<b>IV SEMESTER</b>			
PSI C715	International Law	C	4
PSI C712	Security Studies	C	4
PSI C713	Dissertation	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
PSI E701	Political Sociology	I	E	3
PSI E702	Asia : West Asia/ South East Asia / Far East / Asia Pacific	I	E	3
PSI E703	Strategic Thought	I	E	3
	Soft Skill	I	S	2
PSI E704	America : Latin America/ USA / Canada	II	E	3
PSI E705	Science, Technology and Politics	II	E	3
PSI E706	International Political Economy	II	E	3
	Soft Skill	II	S	2
PSI E707	European Studies	III	E	3
PSI E708	Introduction to Peace Studies	III	E	3
PSI E709	Culture, Ethnicity and Politics	III	E	3
	Soft Skill	III	S	2
UOM I001	Internship	III	I	2
PSI E710	Africa	IV	E	3
PSI E711	Refugee Studies	IV	E	3
PSI E712	Political Geography	IV	E	3
PSI E713	Asian Political Thought	IV	E	3
	Soft Skill	IV	S	2

**M.A. SOUTH AND SOUTHEAST ASIAN STUDIES**

Course code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
PSI C801	History of South and Southeast Asia	C	4
PSI C803	Asian Cultural Landscapes of South and Southeast Asian	C	4
PSI C805	South and Southeast Asia Economics	C	4
PSI C807	Study of South and Southeast Asia	C	4
<b>II SEMESTER</b>			
PSI C802	Race and Ethnicity in South and Southeast Asia	C	4
PSI C804	Socio-Economics History of South and Southeast Asia	C	4
PSI C806	South and Southeast Asia and Regionalism	C	4
PSI C808	The Politics of Environment in South and Southeast Asia	C	4
<b>III SEMESTER</b>			
PSI C809	Studies on Security in South and Southeast Asia	C	4
PSI C811	Country Studies: Indonesia	C	4

PSI C813	Country Studies: Malaysia	C	4
PSI C815	Country Studies: Sri Lanka	C	4
<b>IV SEMESTER</b>			
PSI C810	Country Studies: Maldives	C	4
PSI C812	Country Studies: Singapore	C	4
PSI C814	Dissertation & Viva- voce	C	6

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Sem	C/E/S	Credit
PSI E803	Independent Study *	I	E	3
PSI E805	Religion and Society in South and Southeast Asia	I	E	3
	Soft Skill	I	S	2
PSI E801	Security for Small Island States (Singapore and Maldives)	II	E	3
PSI E804	Independent Study *	II	E	3
	Soft Skill	II	S	2
PSI E807	Independent Study *	III	E	3
PSI E809	International Issues in South and Southeast Asia	III	E	3
	Soft Skill	III	S	2
	Internship	III	I	2
PSI E802	Indian Communities in Southeast Asia	IV	E	3
PSI E806	Independent Study *	IV	E	3
	Soft Skill	IV	S	2

\* Independent research plays an important role in post graduate education. The Independent Study Module is designed to enable the students to explore an approved topic in South and Southeast Asian Studies in depth. The student should approach a faculty to work out an agreed topic, readings and assignments for the module. Head's approval is required. Regular meetings and reports are expected. Evaluation is based on 100% Continuous Assessment and must be worked out.

#### M.Phil. DEFENCE & STRATEGIC STUDIES

Course Code	Title of the Course	C/E/ S	Credit
<b>I SEMESTER</b>			
PSI C141	Research Methodology:1648- 1945	C	5
PSI C143	Strategic thought	C	5
PSI C145	Indian Ocean : Strategic Perspectives	C	5
PSI E147	Human Rights and Security Forces	E	5
PSI E149	Conflict and Co-operation in South Asia	E	5
PSI E150	International Terrorism	E	5
<b>II SEMESTER</b>			
PSI C142	Dissertation and Viva- Voce	C	21

#### M.Phil. PUBLIC AFFAIRS

Course Code	Title of the Course	C/E/ S	Credit
<b>I SEMESTER</b>			
PSI C151	Research Methodology	C	5
PSI C152	Public Affairs	C	5
PSI E151	Gender Studies	E	5
PSI E152	Federal Studies	E	5

<b>II SEMESTER</b>			
PSI C153	Dissertation and Viva-Voce	<b>C</b>	<b>21</b>

**M.Phil. PUBLIC ADMINISTRATION**

Course Code	Title of the Course	C/E/ S	Credit.
<b>I SEMESTER</b>			
PSI C121	Research Methodology	<b>C</b>	<b>5</b>
PSI C123	Public Policy Environment in India	<b>C</b>	<b>5</b>
PSI E125	Development Studies	<b>E</b>	<b>5</b>
PSI C127	Perspectives in Public Management	<b>C</b>	<b>5</b>
PSI E129	Multi-level Planning	<b>E</b>	<b>5</b>
<b>II SEMESTER</b>			
PSI C132	Dissertation and Viva-Voce	<b>C</b>	<b>21</b>

**M.Phil. POLITICAL SCIENCE**

Course code	Title of the Course	C/E	Credit
<b>SEMESTER – I</b>			
PSI C228	Research Methodology	<b>C</b>	<b>5</b>
PSI C229	Issues in Governance	<b>C</b>	<b>5</b>
PSI C230	Contemporary Political Thinkers	<b>C</b>	<b>5</b>
PSI E230	International Political Economy	<b>E</b>	<b>5</b>
PSI E231	Development Debates	<b>E</b>	<b>5</b>
<b>SEMESTER – II</b>			
PSI C231	Dissertation	<b>C</b>	<b>21</b>

**M.Phil . INTERNATIONAL RELATIONS**

Course code	Title of the Course	C/E	Credit.
<b>SEMESTER – I</b>			
PSI C251	Research Methodology	<b>C</b>	<b>5</b>
PSI C252	Nation State in International Relations	<b>C</b>	<b>5</b>
PSI C253	World Order Models	<b>C</b>	<b>5</b>
PSI E251	International Political Economy	<b>E</b>	<b>5</b>
PSI E252	Issues in Third World Politics and Development	<b>E</b>	<b>5</b>
<b>SEMESTER – II</b>			
PSI C254	Dissertation	<b>C</b>	<b>21</b>

**M.Phil. SOUTH AND SOUTHEAST ASIAN STUDIES**

Course Code	Title of the Course	C/E	Credit
<b>SEMESTER – I</b>			
PSI C451	Research Methodology	<b>C</b>	<b>5</b>
PSI C453	South Asian Studies: Srilanka and Maldives	<b>C</b>	<b>5</b>
PSI E453	Southeast Asian Studies: Malaysia, Singapore and Indonesia	<b>E</b>	<b>5</b>
PSI E454	Language: Malay	<b>E</b>	<b>5</b>
PSI E455	Language: Sinhalese	<b>E</b>	<b>5</b>
PSI E456	Language: Indonesia	<b>E</b>	<b>5</b>
<b>SEMESTER – II</b>			



PSI C452	Dissertation and Viva-voce	<b>C</b>	<b>21</b>
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**SCHOOL OF ECONOMICS**

The School of Economics consists of Departments of Economics, Econometrics, and Dr. Ambedkar Centre for Economic Studies.

In 1912, the Government of India gave a special grant for the establishment of Department of Indian Economics. In 1915, the University appointed Dr. Gilbert Slater, Principal, Ruskin College, and Oxford to the University Chair of Indian Economics. Since then the department of Indian Economics has grown enormously because of the works of several eminent Professors of Economics.

The Department of Economics was bifurcated into the Departments of Economics and Econometrics in July 1980.

The UGC considered the Department of Economics and the Department of Econometrics as ‘Madras University School of Economics’ (MUSE) for the purpose of Special Assistance Programme.

The Government of India has instituted two chairs (i) Dr. Ambedkar Chair in Economics and (ii) Planning Chair in Economics in this department besides the Centre for Rural Development. In February 1999, a new department, the Dr. Ambedkar Centre for Economic Studies has been created out of Dr. Ambedkar Chair in Economics.

The Department of Economics is keenly interested in Public Economics, Development Economics, Population Studies, Environmental Economics, Welfare Economics, Social Inequality and Economic Development. The department has computer facilities. Recently, it has set-up computer laboratory for students / scholars.

The Department of Econometrics established in 1980 offers post graduate courses of M.A. Econometrics and M.A. Financial Economics besides M.Phil. Applied Economics and Ph.D. programmes with a focus on econometric methods applied econometrics. The teaching of Department emphasises quantitative analysis of data along with economic theory and econometric applications to socially relevant issues and policies. The department has the Prof. A.M. Nalla Gounden Econometrics Lab and a well developed library. The research interests of the department faculty focus on applied econometric analysis in the specialised fields of development economics, behavioural economics, economics of human resources, health, education, labour, women studies and financial economics. The Centre for Population Studies was established in the Department of Econometrics in 2007.

Dr. Ambedkar Centre for Economic Studies is keenly interested in teaching and research on development economics, welfare economics and socio-economic problems of the poor and marginalized sections of the society. The Centre has equipped the M.Phil and Ph.D. Research scholars with computer facilities.

**Faculty**

Dr. S. Chinnammai, Ph.D Chairperson

**Economics**

Dr. K. Jothi Sivagnanam, Ph.D (**LIEN**) Professor  
 Dr. S. Chinnammai, Ph.D Professor and Head  
 Dr. K. Malathi, Ph.D Assistant Professor  
 Dr. V. Kokila, Ph.D Assistant Professor

**Econometrics**

Dr. R. Srinivasan, Ph.D (**LIEN**) Professor  
 Dr. D. Sathiyavan, Ph.D Associate Professor & Head i/c

Dr. P. Mahendra Varman, Ph.D  
Dr.R. Mariappan, Ph.D

Assistant Professor  
Assistant Professor

**Dr. Ambedkar Centre for Economic Studies**

Dr. S. Chinnammai. Ph.D

Professor and Head i/c

**Centre for Population Studies**

Dr. D. Sathiyavan, Ph.D

Associate Professor & Head i/c

**M.A. ECONOMICS**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
ECO C001	Advanced Micro Economics I	C	4
ECO C002	Advanced Macro Economics I	C	4
ECO C003	Public Finance I	C	4
ECO C004	Statistics for Economists	C	4
<b>II SEMESTER</b>			
ECO C005	Advanced Micro Economics II	C	4
ECO C006	Advanced Macro Economics II	C	4
ECO C007	Public Finance II	C	4
ECO C008	Mathematics for Economists	C	4
<b>III SEMESTER</b>			
ECO C009	Development Economics	C	4
ECO C010	Research Methodology	C	4
ECO C011	Monetary Economics	C	4
<b>IV SEMESTER</b>			
ECO C012	Econometrics	C	4
ECO C013	Indian Economic Development and Policy	C	4
ECO C014	International Economics	C	4
ECO C015	Modern Economic Thought	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
ECO E001	Population Studies	I	E	3
ECO E002	Environmental Economics	I	E	3
UOMS149	Writing Skills	I	S	2
ECO E003	Agricultural Economics	II	E	3
ECO E004	Health Economics	II	E	3
	Soft Skill	II	S	2
UOM I001	Internship	II	I	2
ECO E005	Computer Applications in Economics	III	E	3
ECO E006	Business Economics	III	E	3
	Soft Skill	III	S	2
ECO E007	Economics in Everyday Life	IV	E	3
	Soft Skill	IV	S	2

**M.Phil. ECONOMICS**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
ECOC021	Research Methodology	C	5
ECO C022	Economic Theory	C	5
ECO E021	Indian Economic Issues	E	5

II SEMESTER			
ECO C023	Dissertation and Viva-Voce	C	21

**M.A. ECONOMETRICS**

Course Code	Title of the Course	C/E/ S	Credit
<b>I SEMESTER</b>			
ECO C101	Mathematical Methods	C	4
ECO C102	Statistical Methods	C	4
ECOC103	Data Analysis using Computers	C	4
ECOC104	Micro Economics – I	C	4
<b>II SEMESTER</b>			
ECO C105	Mathematical Economics	C	4
ECO C106	Micro Economics - II	C	4
ECO C107	Macro Economics	C	4
ECO C108	Econometric Theory - I	C	4
<b>III SEMESTER</b>			
ECO C109	Econometric Theory - II	C	4
ECO C110	Time Series Econometrics	C	4
ECO C111	Applied Econometric Methods	C	4
ECO C112	Public Finance	C	4
<b>IV-SEMESTER</b>			
ECO C113	Econometric Applications	C	4
ECO C114	Panel Data and Non-Parametric Econometrics	C	4
ECO C115	Project	C	4

ELECTIVE & SOFT SKILL COURSES				
Course Code	Title of the Course	Semester	C/E /S	Credit
ECO E101	Indian Financial System	I	E	3
ECO E102	Indian Economic Development	I	E	3
ECO E103	Monetary Economics	I	E	3
UOMS***	Soft Skill	I	S	2
ECO E104	International Economics	II	E	3
ECO E105	Development and Planning	II	E	3
ECO E106	Data Base for Econometric Analysis	II	E	3
UOM S***	Soft Skill	II	S	2
ECO E107	Financial Economics	III	E	3
ECO E108	Industrial Economics	III	E	3
ECO E 109	Advances in Economic Theory	III	E	3
UOM S***	Soft Skill	III	S	2
UOM ****	Internship	III	I	2
ECO E110	Agricultural Economics	IV	E	3
ECO E111	Indian Economic Issues	IV	E	3
ECO E112	Industrial Organisation	IV	E	3
UOM S***	Soft Skill	IV	S	2

**M.A. FINANCIAL ECONOMICS**

Course Code	Title of the Course	C/E/ S	Credit
<b>SEMESTER I</b>			
ECO C201	Mathematical Methods	C	4
ECO C202	Statistical Methods	C	4
ECO C203	Micro Economics - I	C	4
ECO C204	Indian Financial System	C	4

<b>SEMESTER II</b>			
ECO C205	Theory of Financial Economics	C	4
ECO C206	Micro Economics - II	C	4
ECO C207	Macro Economics	C	4
ECO C208	Financial Accounting	C	4
<b>SEMESTER III</b>			
ECO C209	Pricing of Financial Instruments	C	4
ECO C210	Corporate Finance	C	4
ECO C211	Public Finance	C	4
ECO C212	Banking and Insurance	C	4
<b>SEMESTER IV</b>			
ECO C213	International Finance	C	4
ECO C214	Financial Derivatives	C	4
ECO C215	Behavioural Finance	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
ECO E201	Indian Economic Development	I	E	3
ECO E202	Monetary Economics	I	E	3
ECO E203	Data Analysis using Computers	I	E	3
	Soft Skill	I	S	2
ECO E204	Basic Econometrics	II	E	3
ECO E205	Development and Planning	II	E	3
ECO E206	Date Base for Economic Analysis	II	E	3
	Soft Skill	II	S	2
ECO E207	Econometric Applications to Finance	III	E	3
ECO E208	Industrial Economics	III	E	3
ECO E209	Advances in Economic Theory	III	E	3
	Soft Skill	III	S	2
	Internship	III	I	2
ECO E210	International Economics	IV	E	3
ECO E 211	Indian Economic Issues	IV	E	3
ECO E212	Industrial Organisation	IV	E	3
	Soft Skill	IV	S	2

#### M.Phil. APPLIED ECONOMICS

Course Code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
ECO C131	Advanced Economic Theory and Applications	C	5
ECO C132	Research Methodology	C	5
ECO E131	Topics in Applied Economics & Econometrics	E	5
<b>II SEMESTER</b>			
ECO C133	Dissertation and Viva - Voce	C	21

#### M.Phil. DEVELOPMENT ECONOMICS

Course Code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
ECO E301	Recent Trends in Development Economics	E	5
ECO C301	Welfare Economics: Theory and Applications	C	5

ECO C302	Analytical Tools and Data Processing in Economics: Statistical System in India/Data/ Analysis Tools	<b>C</b>	<b>5</b>
<b>II SEMESTER</b>			
ECO C303	Dissertation and Viva- Voce	<b>C</b>	<b>21</b>

**P.G. DIPLOMA IN AMBEDKAR THOUGHTS**

<b>Course Code</b>	<b>Title of the Course</b>	<b>C/E/ S</b>	<b>Credit</b>
<b>I SEMESTER</b>			
ECO C375	Economic Thoughts of Ambedkar-I	<b>C</b>	<b>4</b>
ECO C376	Social Thoughts of Ambedkar-I	<b>C</b>	<b>4</b>
ECO C377	Economics of Discrimination-I	<b>C</b>	<b>4</b>
ECO C378	Indian Economic Thought-I	<b>C</b>	<b>4</b>
<b>II SEMESTER</b>			
ECO C379	Economic Thoughts of Ambedkar-II	<b>C</b>	<b>4</b>
ECO C380	Social Thoughts of Ambedkar-II	<b>C</b>	<b>4</b>
ECO C381	Economics of Discrimination-II	<b>C</b>	<b>4</b>
ECO C382	Indian Economic Thought-II	<b>C</b>	<b>4</b>
<b>III SEMESTER</b>			
ECO C383	Project Work	<b>C</b>	<b>21</b>

**SCHOOL OF INFORMATION AND COMMUNICATION STUDIES**

**DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE**

The Department takes great pride to be the first LIS School to be initiated by the Father of Library Science in India Padma Shri Dr. S.R. Ranganathan, himself. A full-fledged teaching Department was established in 1956. Consequently the Sarada Ranganathan Endowment Chair was created in 1959. In 1976, the Masters Programme in Library Science was started. The advancements in the LIS field led to the change in nomenclature to 'Library and Information Science' in 1980. Subsequently the Department was also renamed as Library and Information Science offering MLIS degree. At the same time the Doctoral Programme was also introduced on both full-time and part-time basis. Since then there have been more than 50 candidates who have been awarded. In the year 1988, the One year BLIS and One year MLIS programme were transformed into an Integrated Two year Programme. In 1996, UGC recognised this Department under its Special Assistance Programme (SAP), thus becoming the first Department in this field to be accorded with this Status in the country. The Department completed SAP Phase – III in 2012. The thrust areas include Computer Applications in Information Storage and Retrieval, Design and Development of Multilingual Databases, Multimedia, E-Publishing, Infometrics, Digitization and Automation of Libraries and Information Centres. All of this paved way for the Department to be brought under the faculty of Sciences and in 1993 for the first time in India, M.Sc Library and Information Science was introduced at the Department. In accordance with the UGC recommendation regarding the uniformity in nomenclature of the PG in Library & Information Science at the national level, the nomenclature of the degree was changed to as M.Lib.I.Sc. (Master of Library and Information Science) in 2015.

The Department is equipped with a computer laboratory and a well stocked library which are extensively utilised by the students and scholars of the Department. The Department has excellent infrastructure in terms of LCD projector equipped classrooms and other electronic equipment paving way for an enhanced learning, teaching and research environment. The Department has tie ups with some of the best institutions where our students undertake internships.

**Department of Journalism and Communication**

One of the first journalism programme in Asia (outside Japan) was started by the University of Madras in 1947. The Dept. has a strong tradition in Journalism Education and has been the pioneer in

the introduction of Bachelors, Masters, M.Phil and Ph.D programmes for the first time in Tamil Nadu/South India. *Certificate in Journalism (1947-1975), Bachelor of Journalism (BJ) (1975-1979), MA Journalism and Communication 1979, MPhil Journalism and Communication 1982, PhD Journalism and Communication 1982, M.Sc Electronic Media 2005 (self-supported) -discontinued in 2011, MJ (Masters in Journalism) Online Media 2011 attest to the pioneering attempts by the Department.* The Dept. focuses on activities and field work based learning (three student groups work in the areas of Urban Affairs Reporting with a focus on slums in Chennai, Visual anthropology and Theatre and folk arts. The student members undertake regular field visits and submit reports. These activities are meant to expose them to issues of social realities as well as interdisciplinarity. 24/7 Class Room on Facebook has been successfully implemented for subjects such as film studies and Tamil journalism. Since 2008, the Dept. has been tapping the MoUs and its network of foreign contacts to have collaborative workshops, training programmes and internship programmes. At present, the Dept. has MoUs with *Hallym University, South Korea; Aalborg University, Denmark; University of Jaffna, Srilanka and Nanzan University, Japan* .The Dept. launched the *Media and Society Seminar Series* during 2008- 2009 to conduct skills based workshops and seminars *every month* focusing on extended class room learning, research and community linkages. Nearly 30 seminars have been conducted so far with the support of internationally renowned scholars from different disciplines and experts from India. The *Department's Experimental Theatre Group Muttram* was inaugurated to promote group communication skills, acting skills. Script writing skills, cultural and communication competencies among communication students even as it seeks to promote the folk and theatre arts of Tamil Nadu.

**Faculty**

Dr. V. Chandrakumar, Ph.D

Chairperson

**Journalism and Communication**

Dr. Beulah Rachel Rajarathnamani, Ph.D

Associate Professor & Head i/c

Mr. N.Leo Samuel

Assistant Professor

Dr. T. Jaisakthivel, Ph.D

Assistant Professor

Dr. M. Kalavathy, Ph.D

Assistant Professor

**Library and Information Sciences**

Dr. V. Chandrakumar, Ph.D

Professor and Head

Dr. A. Perumal, Ph.D

Assistant Professor

Dr. H. Fazlunnisa, Ph.D

Assistant Professor

**M.A. JOURNALISM AND MASS COMMUNICATION**

Course Code	Title of the Course	C/E/S	Credit
<b>SEMESTER I</b>			
CIS C001	History of Communication	C	4
CIS C002	News Reporting	C	4
CIS C003	News Editing and Writing	C	4
CIS C004	Print Journalism Practical	C	4
<b>SEMESTER II</b>			
CIS C005	Comparative Communication Systems	C	4
CIS C006	Critical Communication Studies	C	4
CIS C007	Practice Journal	C	4
CIS C008	Social Media and Communication	C	4
<b>SEMESTER III</b>			
CIS C009	Radio Journalism	C	4
CIS C010	Communication Research Methods	C	4
CIS C011	Radio Journalism Practical	C	4
CIS C013	Film Studies	C	4
<b>SEMESTER IV</b>			

CIS C014	Television Journalism	C	4
CIS C015	Television Journalism Practical	C	4
CIS C016	Dissertation	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
<b>Course Code</b>	<b>Title of the Course</b>	<b>Semester</b>	<b>C/E/S</b>	<b>Credit</b>
CIS E001	Indian Constitution and Communication	I	E	3
CIS E002	Indian Society, History and Politics	I	E	3
UOM S026	Functional Tamil for Journalism - I	I	S	2
CIS E003	Public Relations	II	E	3
CIS E004	Tamil Society, History and Politics	II	E	3
CIS E010	Media and Gender	II	E	3
CIS E011	Business Communication	II	E	3
UOM S027	Functional English for Journalism - I	II	S	2
CIS E005	Tamil Journalism	III	E	3
CIS E006	Performing Arts and Communication	III	E	3
CIS E012	Advertising	III	E	3
UOMS180	Functional Tamil for Journalism - II	III	S	2
UOM I001	Internship	III	I	2
CIS E007	Cross Cultural Communication	IV	E	3
CIS E008	Communication Ethics and Policies	IV	E	3
CIS E 009	Environmental Journalism	IV	E	3
CIS E013	Ham Radio	IV	E	3
UOMS181	Functional English for Journalism - II	IV	S	2

**Details of Soft Skill courses offered (related to the discipline of the department/school)**

Practical English: Learning and Teaching (Swayam – Moocs)	II
Tamil for Journalism	IV

**M.J. ONLINE MEDIA**

<b>Course Code</b>	<b>Title of the Course</b>	<b>C/E/S</b>	<b>Credit</b>
<b>SEMESTER I</b>			
CIS C101	History of Communication	C	4
CIS C102	News Reporting	C	4
CIS C103	News Editing and Writing	C	4
CIS C104	Print Journalism Practical	C	4
<b>SEMESTER II</b>			
CIS C105	Comparative Communication Systems	C	4
CIS C106	Critical Communication Studies	C	4
CIS C107	Practice Journal	C	4
CIS C108	Social Media and Communication	C	4
<b>SEMESTER III</b>			
CIS C109	Internet Mediated Communication	C	4
CIS C110	Web 2.0 Journalism	C	4
CIS C111	Web 2.0 Journalism Practical	C	4
CIS C112	Online Research Method	C	4



<b>SEMESTER IV</b>			
CIS C113	Mobile Phone Communication	<b>C</b>	<b>4</b>
CIS C114	Mobile Journalism	<b>C</b>	<b>4</b>
CIS C115	Mobile Journalism Practical	<b>C</b>	<b>4</b>
CIS C116	Project	<b>C</b>	<b>4</b>

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
<b>Course Code</b>	<b>Title of the Course</b>	<b>Semester</b>	<b>C/E/S</b>	<b>Credit</b>
CIS E001	Indian Constitution and Communication Laws	<b>I</b>	<b>E</b>	<b>3</b>
CIS E002	Indian Society, History and Politics	<b>I</b>	<b>E</b>	<b>3</b>
UOM S026	Functional Tamil for Journalism – I	<b>I</b>	<b>S</b>	<b>2</b>
CIS E003	Public Relations	<b>II</b>	<b>E</b>	<b>3</b>
CIS E004	Tamil Society, History and Politics	<b>II</b>	<b>E</b>	<b>3</b>
CIS E010	Media and Gender	<b>II</b>	<b>E</b>	<b>3</b>
CIS E011	Business Communication	<b>II</b>	<b>E</b>	<b>3</b>
UOM S027	Functional English for Journalism – I	<b>II</b>	<b>S</b>	<b>2</b>
CIS E005	Tamil Journalism	<b>III</b>	<b>E</b>	<b>3</b>
CIS E006	Performing Arts and Communication	<b>III</b>	<b>E</b>	<b>3</b>
CIS E012	Advertising	<b>III</b>	<b>E</b>	<b>3</b>
UOMS180	Functional Tamil for Journalism – II	<b>III</b>	<b>S</b>	<b>2</b>
UOM I001	Internship	<b>III</b>	<b>I</b>	<b>2</b>
CIS E007	Cross Cultural Communication	<b>IV</b>	<b>E</b>	<b>3</b>
CIS E008	Communication ethics and Policies	<b>IV</b>	<b>E</b>	<b>3</b>
CIS E009	Environmental Journalism	<b>IV</b>	<b>E</b>	<b>3</b>
CISE013	Ham Radio	<b>IV</b>	<b>E</b>	<b>3</b>
UOMS182	Functional English for Journalism - II	<b>IV</b>	<b>S</b>	<b>2</b>

**M. Lib.I Sc- MASTER OF LIBRARY AND INFORMATION SCIENCE**

<b>Course Code</b>	<b>Title of the Course</b>	<b>C/E/S</b>	<b>Credit</b>
<b>SEMESTER I</b>			
CIS C201	Foundation of Library & Information Science	<b>C</b>	<b>4</b>
CIS C202	Principles and Techniques of Management	<b>C</b>	<b>4</b>
CIS C203	Introduction to IT and Programming	<b>C</b>	<b>4</b>
CIS C204	Information Sources	<b>C</b>	<b>4</b>
<b>SEMESTER II</b>			
CIS C205	Information Products and Services	<b>C</b>	<b>4</b>
CIS C206	Knowledge Organization (Theory)	<b>C</b>	<b>4</b>
CIS C207	Information Storage & Retrieval	<b>C</b>	<b>4</b>
<b>SEMESTER III</b>			
CIS C208	Knowledge Organisation (Practice-I: Classification)	<b>C</b>	<b>4</b>
CIS C209	Knowledge Organisation (Practice -II: Cataloguing and Metadata)	<b>C</b>	<b>4</b>
CIS C210	Library Management & Automation	<b>C</b>	<b>4</b>
CIS C211	Elements of Statistics and Research Methods	<b>C</b>	<b>4</b>
<b>SEMESTER IV</b>			
CIS C212	Content Management	<b>C</b>	<b>4</b>



CIS C213	Web Technology	C	4
CIS C214	Digital Libraries	C	4
CIS C215	Informetrics	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
<b>Course Code</b>	<b>Title of the Course</b>	<b>Sem</b>	<b>C/E/S</b>	<b>Credit</b>
CIS E201	Academic Library System	I	E	3
UOMS192	Communication Skills for Information Professionals	I	S	2
CIS E202	Community Information Services	II	E	3
CIS E203	Documentation	II	E	3
UOMS193	Personality Enrichment for Library and Information Science Professionals	II	S	2
CIS E204	Marketing of Information Services and Products	III	E	3
CIS E205	Information System for Industry	III	S	3
UOM I001	Internship	III	I	2
UOMS194	Etiquettes for Library and Information Science Professionals	III	S	2
CIS E206	Electronic Publishing	IV	E	3
CIS E207	Knowledge Management	IV	E	3
UOMS030	Consolidation and Presentation Skills	IV	S	2

#### **M.Phil. COMMUNICATION (Full-Time)**

<b>Subject Code</b>	<b>Title of the Course</b>	<b>C/E/S</b>	<b>Credits</b>
<b>I SEMESTER</b>			
CIS C021	Research Methods for Social Science	C	5
CIS C023	Public Opinion Studies	C	5
CIS C022	Critical Theories and Philosophies	C	5
<b>II SEMESTER</b>			
CIS C024	Research Seminar	C	5
CIS C025	Dissertation	C	16

#### **SCHOOL OF PHILOSOPHY AND RELIGIOUS THOUGHT**

The School of Philosophy and Religious Thought comprises of the departments of Philosophy, Saiva Siddhantha, Vaishnavism, Jainology and Christian Studies.

The department of Indian Philosophy was started in 1957 for promoting South Indian Philosophical thought. Prof. S.S.Suryanarayana Sastri and Prof.T.M.P.Mahadevan have rendered exemplary services in the department to make it Dr.S.Radhakrishnan Centre for Advanced Study in Indian Philosophy in 1964. Currently the department offers Masters, M.Phil., Ph.D. and P.G. Diploma Programmes.

During the Post centenary Silver Jubilee celebrations of the University of Madras in 1984 the department of Saiva Siddhantha was started. It offers Certificate, Diploma, Masters and Ph.D. Programmes.

The department of Vaishnavism was also started during the 1984 Post Centenary Silver Jubilee Celebrations. The department now offers Masters and Ph.D. Programmes.

The department of Jainology was also started in 1984. It offers Masters, Ph.D. and P.G. Diploma Programmes.

The department of Christian Studies was also created during the 1984 Post Centenary Silver Jubilee Celebrations. It offers Masters, M.Phil., Ph.D., P.G. Diploma Programmes and Certificate Programmes.

Following are the four Post Graduate Diploma courses conducted:

1. Ethics and Human Resource Management
2. Ethics and Biotechnology
3. Christian Spirituality and Counselling
4. Biblical Languages and Interpretation

The Justice Basheer Ahmed Sayeed centre for Islamic Studies offers Masters and M.Phil. Programmes.

**Faculty**

Dr. G.Patrick, Ph.D Chairperson

**Philosophy**

Dr. M. Venkatachalapathy, Ph.D Assistant Professor Head i/c

**Saiva Siddhantha**

Dr. S. Saravanan, Ph.D Professor & Head

**Vaishnavism**

Dr. K. Dayanidhi Ph.D Assistant Professor & Head i/c

**Jainology**

Dr. Priyadarshana Jain, Ph.D Assistant Professor & Head i/c

**Christian Studies**

Dr. G. Patrick, Ph.D Professor & Head  
Dr. James Ponniah, Ph.D Assistant Professor

**Justice Basheer Ahmed Sayeed Centre for Islamic Studies**

Mr.P.K. Abdul Rahiman, M.Phil Assistant Professor & Head i/c

**M.A. INDIAN PHILOSOPHY**

Course Code	Title of the Course	C/E/S	Credit			
			L	T	P	
<b>I SEMESTER</b>						
PRT C001	Foundation of Indian Philosophy	C	3	1	0	4
PRT C002	Critical Appraisal of the Philosophy of Advaita	C	2	1	0	3
PRT C003	Logic	C	2	1	0	3
PRT C004	Contemporary Indian Philosophy	C	3	1	0	4

<b>II SEMESTER</b>						
PRT C005	Introduction to Aseevagam	C	2	1	0	3
PRT C006	Sankara's Critique of Other Schools	C	2	1	0	3
PRT C007	Introduction to Schools of Saivism	C	2	1	0	3
PRT C008	Political Philosophy	C	3	1	0	4
PRT C009	Philosophy of Science	C	2	1	0	3
<b>III SEMESTER</b>						
PRT C010	Buddhism	C	3	1	0	4
PRT C011	Ancient and Modern Western Philosophy	C	2	1	0	3
PRT C012	Sivajananabodham	C	2	1	0	3
PRT C013	Siddha and Yoga	C	2	1	0	3
PRT C014	Moral Philosophy	C	3	1	0	4
<b>IV SEMESTER</b>						
PRT C015	Mandukyakarika of Gaudapada	C	3	1	0	4
PRT C016	Research Methodology in Philosophy	C	2	1	0	3
PRT C017	Contemporary Western Philosophy	C	2	1	0	3
PRT C018	Indian Social Philosophy	C	2	1	0	3
PRT C019	Dissertation	C				4

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>				
Course Code	Title of the Course	Sem	C/E/S	Credit
PRT E001	Indian Philosophy of Beauty	I	E	3
PRT E002	Philosophy of Saint Ramalingar	I	E	3
UOM S158	Sanskrit for Beginners	I	S	2
PRT E003	Thoughts of Pandit Iyodhi Doss	II	E	3
PRT E005	Yoga: Theory and Practice	II	E	3
PRT S001	Self-study	II	S	3
UOM S		II	S	2
PRT E006	Gandhian Philosophy	III	E	3
PRT E007	Social and Political Philosophy of Dr.B.R. Ambedkar	III	E	3
UOM I001	Internship	III	I	2
PRT S002	Self-study	III	S	3
UOM S159	Work Ethics	III	S	2
PRT E008	Religion and Philosophy of Tamils	IV	E	3
PRT E010	Philosophy of Religion	IV	E	3
PRT E011	Swami Vivekananda on Spirituality	IV	E	3
PRT S003	Self-study	IV	S	3

### M.A. BUDDHISM

Course Code	Title of the Course	C/E/S	Credits
<b>I SEMESTER</b>			
PRT C047	Pre – Buddhist India	C	4
PRT C048	Introduction to Non-Buddhist Indian Philosophy	C	4
PRT C049	Life of Gautama Buddha	C	4
PRT C050	History of Indian Buddhism	C	4
<b>II SEMESTER</b>			
PRT C051	Buddhist Pali Literature & Philosophy	C	4
PRT C052	Buddhism in Abroad	C	4
PRT C053	Buddhist Ethics	C	4

PRT C054	Buddhism in Tamil Nadu	C	4
<b>III SEMESTER</b>			
PRT C055	Buddhist Sanskrit Literature and Philosophy	C	4
PRT C056	Buddhist Logic and Epistemology	C	4
PRT C057	Social & Political Philosophy of Buddhism	C	4
PRT C058	Buddhism in Modern India	C	4
<b>IV SEMESTER</b>			
PRT C059	Buddhist Meditation & Healing	C	4
PRT C060	Research Methodology in Buddhism	C	4
PRT C061	Dissertation	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
PRT E022	Buddhist Art & Architecture	I	E	3
PRT E023	Religious Philosophy	I	E	3
UOM S031	Pali for Beginners	I	S	2
PRT E024	Buddhist Education	II	E	3
PRT E025	Woman in Buddhism	II	E	3
UOM S160	Hindi for Beginners	II	S	2
	Self-Study	II		
PRT E026	ZEN Buddhism	III	E	3
PRT E027	Yoga Philosophy	III	E	3
UOMS159	Work Ethics	III	S	2
UOM I001	Internship	III	I	2
	Self-Study	III		
PRT E028	Buddhist Ritual	IV	E	3
PRT S009	Self Study	IV	S	
UOMS162	Critical thinking, Problem Solving and Decision making	IV	S	2

**M.A. YOGA: THEORY AND PRACTICE**

Course Code	Title of the Course	C / E / S	Credit
<b>SEMESTER I</b>			
PRT C031	Introduction to Indian Philosophy	C	4
PRT C032	Yoga in Pre-Upanishads period	C	4
PRT C033	Philosophy of Samkhya	C	4
PRT C034	Yoga –Sutra (Part – I)	C	4
<b>SEMESTER II</b>			
PRT C035	Philosophy of Citta	C	4
PRT C036	Bhagavat-Gita and Yoga	C	4
PRT C037	Siddha and Yoga	C	4
PRT C038	Yoga – Sutra ( Part – II)	C	4
<b>SEMESTER III</b>			
PRT C039	Integral Yoga of Sri Aurobindo	C	4
PRT C040	Modern Yoga Sects	C	4
PRT C041	Swami Vivekananda on Yoga	C	4
PRT C042	Yoga- Practical I	C	4
<b>SEMESTER IV</b>			
PRT C043	Yoga and Zen Buddhism	C	4

PRT C044	Hatha Yoga	C	4
PRT C045	Yoga Practical II (Pranayama and Dhyana)	C	4
PRT C046	Dissertation	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>				
<b>Course Code</b>	<b>Title of the Course</b>	<b>Semester</b>	<b>C/E/S</b>	<b>Credit</b>
PRT E012	Indian Philosophy of Beauty	I	E	3
PRT E013	Philosophy of St. Ramalingar	I	E	3
UOMS158	Sanskrit for Beginners	I	S	2
PRT E014	Indian Social Philosophy	II	E	3
PRT E015	Philosophy of Religion	II	E	3
PRT S004	Self –Study	II	S	3
UOM S160	Hindi for Beginners	II	S	2
PRT E016	Studies on J.Krishnamoorthi	III	E	3
PRT E017	Mahatma Gandhi of Meditation	III	E	3
UOM S159	Work Ethics	III	S	2
PRTS 005	Self Study	III	S	3
UOMI 001	Internship	III	I	2
PRT E018	Religion and Philosophy of Tamils	IV	E	3
UOM S162	Critical Thinking, Problem Solving and Decision Making	IV	S	2
PRT S006	Self Study	IV	S	3

**M.A. COMPARATIVE RELIGION AND PHILOSOPHY WITH SPECIALISATION IN SAIVA SIDDHANTA**

<b>Course Code</b>	<b>Title of the Course</b>	<b>C/E/S</b>	<b>Credit</b>
<b>I SEMESTER</b>			
PRT C401	History of Saiva Siddhanta up to 12 <sup>th</sup> Century A.D.	C	4
PRT C402	Schools of Saivism	C	4
PRT C403	Theories of Knowledge	C	4
PRT C419	History of Saiva Siddhanta Post 12 <sup>th</sup> Century AD	C	4
<b>II SEMESTER</b>			
PRT C404	Essentials of Indian Philosophy	C	4
PRT C405	Introduction to Saiva Siddhanta Sastras-I	C	4
PRT C406	Saiva Siddhanta Sastra's Critique of other Schools	C	4
PRT C420	Tradition, Rituals and Festivals	C	4
<b>III SEMESTER</b>			
PRT C407	Sivagnana Bodham and its Commentaries - I	C	4
PRT C416	History of Saiva Agamas with special reference to Kaamiga Agama	C	4
PRT C408	The Experience of Kaduvul/Transcendental Reality	C	4
PRT C409	Introduction to Saiva Siddhanta Sastras-II	C	4
PRT C410	Dance of Siva	C	4
PRT C421	Essentials of Saiva Siddhanta	C	4
<b>IV SEMESTER</b>			
PRT C411	Contemporary of Saiva Siddhanta	C	4
PRT C412	Libration of Eternal Life - Maranam Illa Peruvaazhvu	C	4
PRT C413	Comparative Study of Thirumuraigal and Nalayira Divya Prabhandham	C	4
PRT C414	Bhakthi and Philosophy	C	4

PRT C415	Project Work	C	6
PRT C417	Sivagana Bodham and its Commentaries – II	C	3
PRT C418	Pathway to God in Thirumurai	C	2
PRT C422	Comparative Study of Sivagnana Siddhiyar and Sivaprakasam	C	3

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Sem	C/E/S	Credit
PRT E401	Sociological History of Saivism	I	E	3
PRT E402	Detailed Study of Ulloor Sivasubramaniyar Sadhagam	I	E	3
PRT E408	Nomenclature, Imagery and Images of Transcendental Reality*	I	E	3
PRT E409	Development of Saiva Siddhanta Sastras-Post Umapathi Sivam	I	E	3
UOMS032	Terminology of Saiva Siddhanta	I	S	2
PRT E403	Essentials of Kevaladvaita/ Sankara Vedanta	II	E	3
PRT E404	Philosophy of Karaikkal Ammaiyar and Thirumoolar	II	E	3
PRT E410	Saiva Siddhanta in Colonial and Post-colonial Period	II	E	3
UOMS033	Saiva temples of Pilgrimage	II	S	2
PRT E405	Aesthetics in Saiva Temples	III	E	3
PRT E406	Philosophy of Yoga	III	E	3
UOMS034	Art of Religious Discourse	III	S	2
UOM I001	Internship	III	I	2
PRT E407	Philosophy of Thirukkural	IV	E	3
PRT E411	Suddha advaitam and Suddha Sanmaargam	IV	E	3
UOMS035	Practicing Morality	IV	S	2

**M.A. SAIVA SIDDHANTA - PHILOSOPHY AND PRACTICE**

Sem	Title of the Course	C/E/S	Cr
<b>SEMESTER-I</b>			
PRT C301	Early History of Saivam	C	4
PRT C302	Sacred Works	C	4
PRT C303	Philosophical Works	C	4
PRT C304	Epistemology in Saiva Literature	C	4
PRT E301	Saivam in Ancient Tamil Literature	E	3
PRT E302	Social History of Saivam	E	3
UOMS210	Glossary of Supreme Being in Panniru Thirumurai	S	2
<b>SEMESTER-II</b>			
PRT C305	Forerunners of Saivam	C	4
PRT C306	Religious Movements in Modern Tamil Nadu	C	3
PRT C307	Modern Sectarian Developments of Saivam	C	4
PRT C308	A Study of Tevara Arulmurai Tirattu and Thiruvarutpayan	C	4
PRT E303	A Study of Kandhar Kali Venba	E	4
PRT E304	Spiritual, Sacred and Philosophical Content of Tamil Language	E	3
UOMS211	Glossary of Supreme Being in Thiruppugazh and other Texts	S	2

<b>SEMESTER-III</b>			
PRT C309	Places of Worship	C	4
PRT C310	Private Worship	C	4
PRT C311	Devotion and Divinity	C	4
PRT C312	Dynamics of Revelation	C	4
PRT E305	Birth and Re-birth	E	3
PRT E306	Characteristics of the Supreme Being	E	3
UOMS212	Glossary of Saivism	S	2
UOMI001	Internship – Temples Visit – Mutts – Saiva Institution – Samadhi – Socio religious Organizations	I	2
<b>SEMESTER-IV</b>			
PRT C313	Perspectives of Family and Learning	C	4
PRT C314	Individual and Society in Saivam	C	4
PRT C315	Saivam and Social Discrimination	C	4
PRT C316	Humanism, Religious Pluralism and Universalism	C	4
PRT C317	Dissertation	C	8
PRT E307	Salvation and Purification	E	3
PRT E308	Experience of Transcendental Reality	E	3
UOMS213	Rituals and Prayer	S	2

**M.A. DIVYAPRABANDHAM**

Course Code	Title of the Course	C / E / S	Credit
<b>SEMESTER I</b>			
PRT C221	Thiruvoimozhi - I	C	4
PRT C222	Thiruvoimozhi - II	C	4
PRT C223	Thiruvoimozhi - III	C	4
PRT C224	Thiruvoimozhi - IV	C	3
<b>SEMESTER II</b>			
PRT C225	Thiruvoimozhi - V	C	4
PRT C226	Thiruvoimozhi - VI	C	4
PRT C227	Thiruvoimozhi - VII	C	4
PRT C228	Thiruvoimozhi - VIII	C	3
<b>SEMESTER III</b>			
PRT C229	Thiruvoimozhi – IX	C	4
PRT C230	Thiruvoimozhi - X	C	4
PRT C231	Thiruvoimozhi - XI	C	4
PRT C232	Thiruvoimozhi - XII	C	3
<b>SEMESTER IV</b>			
PRT C233	Thiruvoimozhi - XIII	C	4
PRT C234	Thiruvoimozhi - XIV	C	4
PRT C235	Thiruvoimozhi - XV	C	4
PRT C236	Thiruvoimozhi - XVI	C	3

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
PRT E211	Songs of Mudal Azhwar	I	E	3
PRT E212	Songs of Thirumazhisai Azhwar	I	E	3
	Soft Skill	I	S	2
PRT E213	Songs of Nammazhwar	II	E	3
PRT E214	Songs of Periyazhwar	II	E	3

	Soft Skill	II	S	2
PRT E215	Songs of Andal	III	E	3
PRT E216	Songs of Thirumangai Azhwar	III	E	3
UOM S	Soft Skill	III	S	2
	Internship	III	I	3
PRT E217	Songs of Kulasekara Azhwar	IV	E	3
	Soft Skill	IV	S	2

### M.A. VAISHNAVISM

Course Code	Title of the Course	C/E/ S	L	T	P	Credit
<b>I SEMESTER</b>						
PRT C201	Historical Development of Vaishnavism - I	C	3	1	0	4
PRT C202	Early Tamil Texts in Vaishnavism	C	2	1	0	3
PRT C203	Hymns of Periyalvar	C	2	1	0	3
PRT C204	Vaishnavism in Early Sanskrit Texts	C	3	1	0	4
<b>II SEMESTER</b>						
PRT C205	Historical Development of Vaishnavism - II	C	3	1	0	4
PRT C206	Hymns of Tirumangai Alvar	C	2	1	0	3
PRT C207	Rahasya Granthas of Lokacharya and Nayanar	C	3	1	0	4
PRT C208	Basic Concepts of Visishtadvaita	C	3	1	0	4
<b>III SEMESTER</b>						
PRT C209	Hymns of Nammalvar	C	3	1	0	4
PRT C210	Doctrines of Visishtadvaita I	C	3	1	0	4
PRT C211	Schools of Vaishnavism	C	3	1	0	4
PRT C212	Special Sanskrit Texts in Vaishnavism	C	2	1	0	3
<b>IV SEMESTER</b>						
PRT C213	Doctrines of Visishtadvaita II	C	3	1	0	4
PRT C214	Rahasya Grantha of Vedanta Desika	C	3	1	0	4
PRT C215	Srivaishnava Commentary Tradition	C	3	1	0	4
PRT C216	Songs of Pillai Perumal	C	3	1	0	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
PRT E201	Hymns of Mudal Alvars	I	E	3
PRT E202	Sanskrit Stotras in Vaishnavism	I	E	3
PRT E208	Basic Sanskrit for Philosophy	I	E	3
UOMS036	Basic terms in Vaishnavism #	I	S	2
PRT E203	Hymns of Kulasekara Alvar	II	E	3
PRT E204	Special Tamil Texts in Vaishnavism	II	E	3
PRT E209	Aesthetics in Vaishnava Temples	II	E	3
UOMS037	Vaishnavism and Divya desam#	II	S	2
PRT E205	Hymns of Andal	III	E	3
PRT E206	Hymns of Tirumalisai Alvar	III	E	3
PRT E210	Special Texts of Vedanta Desika	III	E	3
PRT E211	Vaishnava Saints and Sages of India	III	E	3
UOMS038	Agama Principles#	III	S	2
UOM S001	Internship	III	I	2
PRT E207	Vaishnavism in Tamil Literature	IV	E	3
PRT E212	Temple Festivals and Society	IV	E	3
PRT E213	Fundamental Tenets of Visishtadvaita	IV	E	3



UOMS039	Vaishnavism manipravala commentaries an analysis#	IV	S	2
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# *Soft Skills offered with the School*  
**M.A. JAINA STUDIES**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
PRT C901	History of Jaina Tradition	C	4
PRT C902	General Introduction to Jain Scriptures	C	3
PRT C903	Jaina Metaphysics	C	4
PRT C904	Study of Acharanga Sutra	C	3
PRT C917	Essentials of Jainism	C	2
<b>II SEMESTER</b>			
PRT C905	Ethical Doctrines in Jainism	C	4
PRT C906	Introduction to Indian Philosophy	C	4
PRT C907	Study of Samayasara	C	4
PRT C908	Basics of Prakrit Language and Grammar	C	4
PRT C918	Theory of Knowledge	C	4
<b>III SEMESTER</b>			
PRT C909	Jaina Epistemology and Logic	C	4
PRT C910	Study of Tattvartha Sutra	C	4
PRT C911	Study of Uttaradhyayana Sutra	C	4
PRT C912	Study of Ganadharavada	C	4
PRT C919	Introduction to Tattvartha Sutra	C	4
<b>IV SEMESTER</b>			
PRT C 913	Jaina Yoga and Sadhana	C	4
PRT C914	Study of Jaina Logic Works	C	4
PRT C915	Legend of Srimad Rajchandra	C	3
PRT C916	Dissertation	C	6
PRT C920	Jaina Ethical Works	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>				
Course Code	Title of the Course	Sem	C/E/S	Credit
PRT E 901	Meditation and Personality Development	I	E	3
PRT E 902	Jainism and Indian Culture	I	E	3
PRT E 903	Stories and Parables from Jain Scriptures	I	E	3
PRT E 904	Jain Cosmology & Geography	I	E	
PRT E 905	Study of Jain Tamil Literature	I	E	3
PRT E 906	Art of Right Living and Holistic Health	II	E	3
PRT E 907	Karma and Rebirth in Indian Religions	II	E	
PRT E 908	Jain Spirituality and Rituals	II	E	3
PRT E 909	Tirukkural and Jainism	II	E	3
PRT E 910	Hymns of Anandghan	III	E	3
PRT E 911	Prominent Jain Teachers and Acharyas	III	E	3
PRT E 912	Jainism & Gender Studies	IV	E	3
PRT E 913	Jaina Astrology	IV	E	3
PRT E 914	Business Ethics and Corporate Social Responsibility	IV	E	3
UOMS040	Prakrit Subhashitas and Life Management Skills	I	S	2
UOMS041	Jain Food and Thought and Culinary Skills	II	S	2

UOMI001	Internship	III	I	2
UOMS042	Jain Art and Architecture and Religious Tourism	III	S	2
UOMS043	Preksha Meditation and Science of Living	IV	S	2

**M.A. COMPARATIVE RELIGION AND PHILOSOPHY WITH SPECIALIZATION IN CHRISTIAN STUDIES**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
PRT C101	Methodology of Study and Research	C	2
PRT C102	Christianity : Introduction and History	C	4
PRT C103	Old Testament I : General Introduction, Pentateuch and Historical Books	C	4
PRT C105	Sociology of Religion	C	2
PRTC917	Essentials of Jainism	C	2
<b>II SEMESTER</b>			
PRT C104	Indian Christianity :Thought and History	C	3
PRT C106	Christian understanding of God	C	4
PRT C107	Christian Ethics and Social Thought	C	4
PRT C108	Old Testament II : Wisdom and Prophetic Literatures	C	4
PRT C120	Environment : Christian Perspective	C	2
PRT C217	Essentials of Vaishnavism	C	2
<b>III SEMESTER</b>			
PRT C110	Christianity and Culture	C	3
PRT C111	Christian Spirituality and Mysticism	C	2
PRT C112	New Testament I : Person and Message of Jesus in Gospels	C	2
PRT C113	Christian Understanding of Human	C	3
<b>IV SEMESTER</b>			
PRT C115	New Testament II : Acts, Epistles and Revelation	C	4
PRT C116	Christian Practices and Beliefs	C	3
PRT C117	Dissertation	C	6
PRT C421	Essentials of Saiva Siddhanta	C	3
PRT C516	Essentials of Islam	C	3

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
PRT E101	Christian Spirituality : Elements & History	I	E	3
PRT E102	Introduction to Christianity	I	E	3
PRT E103	Religion and Peace	I	E	3
PRT E106	Contemporary Debate on Human Rights	I	E	3
PRT E104	Inter – faith Relations: Practice and Conversations	I	E	3
UOMS044	Writing  Skills for Religious Studies	I	S	2
PRT E107	Psychology of Religion	II	E	3
PRT E108	Introduction to Christian Scriptures	II	E	3
PRT E109	Bio-Ethics	II	E	3
PRT E110	Basics of Greek Language and Grammar	II	E	3
PRT E111	Modern and Post-modern Western Thought	II	E	3

PRT E112	Religion and Wholistic Health	II	E	3
UOMS163	Christian Theological Glossary	II	S	2
PRT E105	Christian Classics and Great Christian	III	E	3
PRT E113	Christianity in India General Introduction	III	E	3
PRT E114	Structuralism and Post structuralism	III	E	3
PRT E115	Religion and Globalisation	III	E	3
PRT E116	Social Audit:An Ethical Imperative	III	E	3
PRT E117	Religion and Eco-Concerns	III	E	3
UOMS164	Skills for Psycho Spiritual Mentoring	III	S	2
UOM I001	Internship	III	I	2
PRT E118	Feminism and Religions	IV	E	3
PRE E119	Religion and Civil Society	IV	E	3
PRTE 120	Spirituality and Counselling	IV	E	3
PRT E121	Basic of Hebrew Language and Grammar	IV	E	3
UOMS048	Skills for Christian Communication#	IV	S	2

### M.A. CHRISTIAN SCRIPTURES

Course Code	Title of the Course	C/E/S	Credits
<b>SEMESTER I</b>			
PRT C801	General Introduction to Christian Scriptures	C	4
PRT C802	Pentateuch	C	3
PRT C803	Synoptic Gospels	C	3
PRT C804	Acts of the Apostles & Early Christianity	C	3
PRT C805	Biblical Spirituality	C	4
PRT C421	Essentials of Saiva Siddhanta	C	3
EFL C002	Post-Colonial Theory and Literature	C	4
SSS C851	Introduction to Feminist Theories	C	4
<b>II SEMESTER</b>			
PRT C806	Historical Books	C	2
PRT C807	Prophetic Literature	C	3
PRT C808	Gospel of John	C	2
PRT C809	Biblical Understanding of the Person and Message of Jesus	C	4
PRT C217	Essentials of Vaishnavism	C	2
PRT C506	Development of Islamic Thought	C	4
<b>III SEMESTER</b>			
PRT C810	Biblical Hermeneutics	C	4
PRT C811	Wisdom Literature and Psalms	C	3
PRT C812	Christianity: History, Beliefs and Practices	C	3
PRT C813	Pauline Letters	C	4
PRT C814	Biblical Understanding of the Human	C	3
PRT C917	Essentials of Jainism	C	2
<b>IV SEMESTER</b>			
PRT C815	Letter to Hebrews & General Letters	C	2
PRT C816	Book of Revelation & Apocalyptic Literature	C	3
PRT C817	Bible and Christian Ethics	C	4
PRT C818	Literature of the New Testament Times	C	2
PRT C819	Dissertation	C	6

**ELECTIVE & SOFT SKILL COURSES  
OFFERED FOR THE DEPARTMENT / SCHOOL**

Course Code	Title of the Course	Semester	C/E /S	Credit
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PRT E801	Greek – I	I	E	3
PRT E802	Indian Translations of Bible	I	E	3
PRT E803	General Introduction to Para-Biblical	I	E	3
PRT E804	Biblical Resources for Counselling	I	E	3
UOMS044	Writing Skills for Religious Studies	I	S	2
PRT E805	Greek – II	II	E	3
PRT E806	Christian Scriptures and Contemporary Social Concerns	II	E	3
PRT E807	Approaches of Indian Thinkers to Bible	II	E	3
PRT E808	Bible and Tamil Christian Literature	II	E	3
UOMS163	Christian Theological Glossary	II	S	2
PRT E809	Hebrew – I	III	E	3
PRT E810	Subaltern Perspectives in the Bible	III	E	3
PRT E811	Peace Education and Bible	III	E	3
PRT E812	Bible and Eco-concerns	III	E	3
UOM I001	Internship	III	I	2
UOMS164	Skills for Psycho Spiritual Mentoring	III	S	2
PRT E813	Hebrew – II	IV	E	3
PRT E814	Feminism and Bible	IV	E	3
PRT E815	Bible and Inter-textual Readings	IV	E	3
PRT E816	Bible and Human Rights	IV	E	3
UOMS048	Skills for Christian Communication	IV	S	2

### M.A. ISLAMIC STUDIES

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
PRT C501	Qur’anic Studies: Methodology and Approach	C	4
PRT C502	Studies in Hadith Methodology	C	4
PRT C503	Islamic History-I	C	4
PRT C504	Introduction to Arabic Language	C	4
PRT C105	Sociology of Religion		
<b>II SEMESTER</b>			
PRT C505	Islamic Law and Jurisprudence	C	4
PRT C506	Development of Islamic Thought	C	4
PRT C507	Islamic History - II	C	4
PRT C508	Islamic Reform: Emerging Voices	C	4
<b>III SEMESTER</b>			
PRT C509	Islam in the Public Sphere	C	4
PRT C510	Islam in India: Religion, Culture and Politics	C	4
PRT C511	Islam and Modernity	C	4
<b>IV SEMESTER</b>			
PRT C512	Studies in Sufism	C	4
PRT C513	Orientalism and Islam	C	4
PRT C514	Islam, State and Politics	C	4
PRT C515	Islamic Movements	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit

PRT E501	Islam and Human Rights	I	E	3
PRT E502	Introduction to Islam	I	E	3
	Soft Skill	I	S	2
PRT E503	Islamic Philosophy	II	E	3
PRT E504	Studies in Islamic Economics	II	E	3
	Soft Skill	II	S	2
PRT E505	Women and Gender in Islam	III	E	3
UOM I001	Internship	III	S	2
	Soft Skill	III	S	2
PRT E506	Applied Islamic Ethics	IV	E	3
PRT E507	Women and Law in the Muslim World	IV	E	3
	Soft Skill	IV	S	2

### M.Phil. PHILOSOPHY

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
PRT C021	Research Methodology	C	5
PRT C022	Western and Indian Metaphysics	C	5
PRT E021	Western and Indian Epistemology	E	5
<b>II SEMESTER</b>			
PRT C023	Dissertation and Viva- Voce	C	21

### M.PHIL IN SAIVA SIDDHANTA

Course Code	Title of the Course	C/E/S	Credits
<b>I SEMESTER</b>			
PRT C001	Research Methodology	C	5
PRT C003	Saiva Siddhanta in 19 <sup>th</sup> & 20 <sup>th</sup> Century	C	5
PRT E001	Thaharalaya Rahasiyam	E	5
<b>II SEMESTER</b>			
PRT C004	Dissertation and Viva-Voce	C	21

### M.Phil. VAISHNAVISM

Course name	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
PRT C701	Research Methodology	C	5
PRT C702	Srivaishnava Commentary Tradition	C	5
PRT E701	Introduction to Visishtadvaita Philosophy	E	5
<b>II SEMESTER</b>			
PRT C703	Dissertation	C	21

### M.Phil. CHRISTIAN STUDIES

Course Code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
PRT C131	Research Methods in Religious Studies and Social Sciences.	C	5
PRT C132	Christian theological Methods with Special Reference to Hermeneutics	C	5

PRT C133	Religions and Contemporary Concerns in India	C	5
<b>II SEMESTER</b>			
PRT C134	Dissertation and Viva - Voce	C	21

**M.Phil ISLAMIC STUDIES**

Course Code	Title of the Course	C / E	Credit
<b>I SEMESTER</b>			
PRT C551	Research Methods in Religious Studies and Social Sciences	C	5
PRT C552	Contemporary Trends in Islamic Thought	C	5
PRT C553	Quranic Studies : Text and Context	C	5
PRT E551	Religious Discourse and Public Sphere	E	5
PRT E552	Islam and Gender	E	5
<b>II SEMESTER</b>			
PRT C554	Dissertation and Viva- Voce	C	21

**M.Phil JAINA STUDIES**

Course Code	Title of the Course	C / E	Credit
<b>I SEMESTER</b>			
PRT C951	Research Methodology	C	5
PRT C952	Study of Tattvartha Sutra	C	5
PRT C953	Origin and Development of Jaina Philosophical Literature	C	5
<b>II SEMESTER</b>			
PRT C954	Dissertation and Viva- Voce	C	21

**M.Phil. BUDDHISM**

COURSE No.	COURSE TITLE	C/E/S	CREDITS			
			L	T	P	C
<b>I SEMESTER</b>						
PRT C	Research Methodology in Buddhism	C	3	2	0	5
PRT C	Metaphysics of Buddhism	C	3	2	0	5
PRT E	Epistemology of Buddhism	E	3	2	0	5
<b>II SEMESTER</b>						
PRT C	Dissertation / Vivo-Vice	C				21

**P.G. DIPLOMA IN YOGA: THEORY, PRACTICE AND THERAPY**

COURSE CODE	COURSE TITLE	C/ E/S	CREDITS			
			L	T	P	C
<b>First Semester</b>						
PRTC 062	Foundation of Yoga	C	3	1	0	4
PRTC 063	Basics relevant to Yoga Therapy	C	3	1	0	4
PRTE 064	Human Biology	E	3	1	0	4
PRTE 065	Basics of Integral Approach to Yoga Therapy	E	3	1	0	4
PRTC 066	Yoga Therapy in Practice	C	3	1	0	4
PRTC 067	Practical – I Kiriyas, Mudras and Asanas	C	0	0	4	4
PRTC 068	Practical – II Pranayamas and Dhyana	C	0	0	4	4
<b>Second Semester</b>						
PRTC 069	Project Work: Clinical Examination and Viva-Voce	C	0	0	0	8

**P.G. DIPLOMA IN PEACE AND COMMUNAL HARMONY**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
PRT C024	Paper I - Introduction to Social Philosophy	C	5
PRT C025	Paper II – Indian Reform Movements	C	5
PRT C026	Paper III – Human Rights	C	5
<b>II SEMESTER</b>			
PRT C027	Paper IV – Introduction to Social Harmony	C	5
PRT C028	Paper V – Peace Movements	C	5
PRT C029	Paper VI – Gandhian Thought	C	5
<b>III SEMESTER</b>			
PRT C030	Paper VII – Project	C	6

**P.G. DIPLOMA IN SAIVA SIDDHANTA**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
PRT C476	Introduction to Saiva Siddhanta Sastras	C	4
PRT C477	Introduction to Thirumurais	C	4
PRT E476	Kumara Kurubarar’s Kandhar Kali Venba	E	3
<b>II SEMESTER</b>			
PRT C478	Unmai Vilakkam	C	4
PRT E477	Thiru Anda Paguthy Manickavasakar	E	3
<b>III SEMESTER</b>			
PRT C479	Siddhiyar Subakkam with Commentary of Sivagnana Munivar	C	4
PRT C480	Umapathi Sivacharyar’s Tevara Arul Murai Thiratu	C	4
<b>IV SEMESTER</b>			
PRT C481	Contemporary of Saiva Siddhanta	C	4
PRT C482	Project Work	C	6

**P.G. DIPLOMA IN PERIYA PURANAM STUDIES**

COURSE Code	TITLE OF THE COURSE	C/E/S	CREDIT
<b>I SEMESTER</b>			
PRT C501	Devotion in PeriyaPuranam	C	4
PRT C502	Theology in PeriyaPuranam	C	4
PRT C503	Psychology in PeriyaPuranam	C	3
<b>II SEMESTER</b>			
PRT C504	Religious History in PeriyaPuranam	C	4
PRT C505	Social History in PeriyaPuranam	C	3
<b>III SEMESTER</b>			
PRT C506	Liberation in PeriyaPuranam	C	4
PRT C507	Humanism in PeriyaPuranam	C	3
<b>IV SEMESTER</b>			
PRT C508	Philosophy in PeriyaPuranam	C	5
PRT C509	Project Work	C	6

**P.G. DIPLOMA IN ETHICS AND HUMAN RESOURCE MANAGEMENT**

Course Code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
PRT C175	Paper I : Human Resource Management in General	C	4
PRT C176	Paper II : General Introduction to Ethics	C	4
PRT C177	Paper III : Human Resource Management in General: Rewards, Development and Management	C	4
<b>II SEMESTER</b>			
PRT C178	Paper IV : Personnel and Social Relation in HRM	C	4
PRT C179	Paper V : Leadership Development, Succession, the Future of HRM	C	4
PRT C180	Paper VI: Ethical Issues Related to HRM	C	4
<b>III SEMESTER</b>			
PRT C181	Paper VII : Measuring Ethical Relevance	C	3
PRT C182	Paper VIII: Relevant Ethical Teachings for HRM	C	3
PRT C183	Paper IX: Project	C	6

#### P.G. DIPLOMA IN ETHICS AND BIOTECHNOLOGY

Course Code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
PRT C676	Paper I: Fundamentals of Biotechnology	C	4
PRT C677	Paper II: General Introduction to Ethics	C	4
PRT C678	Paper III: Bioethics	C	4
<b>II SEMESTER</b>			
PRT C679	Paper IV: Contemporary Issues Related to Human Biotechnology	C	4
PRT C680	Paper V: Contemporary Issues related to Plant Biotechnology	C	4
PRT C681	Paper VI : Societal Issues in Biotechnology	C	4
<b>III SEMESTER</b>			
PRT C682	Paper VII: Biotechnology and Health Care	C	3
PRT C683	Paper VIII: Biotechnology, Information technology and Media	C	3
PRT C684	Paper IX: Project	C	6

#### P.G. DIPLOMA IN CHRISTIAN SPIRITUALITY AND COUNSELLING

Course Code	Title of the Course	C	Credit
<b>I SEMESTER</b>			
PRT C151	Paper I : Christian Spirituality	C	5
PRT C152	Paper II : Religion and Personality Development	C	5
PRT C153	Paper III : Spiritual Methods	C	5
<b>II SEMESTER</b>			
PRT C154	Paper IV : Spirituality and Health	C	5
PRT C155	Paper V : Spirituality and Counselling	C	5
PRT C156	Paper VI: Therapies and Spiritual Direction	C	5
PRT C157	Project	C	6

#### P.G. DIPLOMA IN BIBLICAL LANGUAGES AND INTERPRETATION



Course Code	Title of the Course	C	Credit
<b>I SEMESTER</b>			
PRT C851	Biblical Greek – Level I	C	5
PRT C852	Biblical Hebrew – Level I	C	5
PRT C 853	Biblical Exegesis and Hermeneutics	C	5
<b>II SEMESTER</b>			
PRT C854	Biblical Greek – Level II	C	5
PRT C855	Biblical Hebrew – Level II	C	5
PRT C856	Practice of Biblical Interpretation	C	5
PRT C857	Project	C	6

### DIPLOMA IN BUDDHIST STUDIES

Course Code	Title of the Course	C/E/S	Credits
PRT C801	History of Buddhism	C	5
PRT C802	Buddhist Metaphysics and Ethics	C	5
PRT C803	Outlines of Indian Philosophy	C	5
PRT C804	Holistic Buddhist Meditation	E	3

### DIPLOMA IN JAINA TEMPLE MANAGEMENT

Course Code	Title of the Course	C/E/S	Credits
PRT C971	Essentials of Jainism	C	5
PRT C972	Basic Principles of Temple Management	C	5
PRT C973	Svetambara Temple Rituals	C	5
PRT C974	Digambara Temple Rituals	E	5
PRT C975	Project/Practical	C	5

### DIPLOMA IN SAIVA SIDDHANTA

CODE	TITLE OF THE COURSE	C/E/S	CREDIT
<b>I Semester</b>			
PRT C521	Thiruvagam - Four Agaval	C	3
PRT C522	Kandhar Kalivenba	C	3
PRT C523	Thiruvunthiyar and Thirukkalirrupadiyar	C	3
<b>II Semester</b>			
PRT C524	UnmaiVilakkam	C	3
PRT C525	Thiruvarutpayan	C	3
PRT C526	ThevaraArulmuraiThirattu	E	3

### CERTIFICATE IN CHRISTIAN SCRIPTURES AND INTERPRETATION

Course Code	Title of the Course	C/E/S	Credit
PRT C126	Old Testament : Survey of the Books and Salient Themes	C	3
PRT C127	New Testament : Survey of the Books and Salient Themes	C	3
PRT C128	Interpreting the Bible Today	C	3

### CERTIFICATE IN BUDDHIST STUDIES

Course Code	Title of the Course	C/E/S	Credits
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PRT C851	Basic Buddhism	C	4
PRT C852	Detailed Study of Buddhism and its Evolution	C	4
PRT C853	Practical – Buddhist Meditation	C	1

#### **CERTIFICATE IN SAIVA SIDDHANTA**

<b>COURSE CODE</b>	<b>TITLE OF THE COURSE</b>	<b>C/E/S</b>	<b>CREDIT</b>
PRTC 491	Historical development and basic philosophies of Saiva Siddhanta	C	3
PRTC 492	Saiva worship, Rituals and practices	C	3
PRTC 493	SaivaEthics	C	3

#### **SCHOOL OF FINE AND PERFORMING ARTS**

On 19th May 1932, the Registrar of the University issued a notice announcing the starting of a Department of Indian Music. Hitherto music was taught only in Queen Mary's College, an affiliated college of the University, conducting the B.A. degree course in the subject. A one-year course leading to a Diploma was instituted. Along with the Diploma course, admission to Research also started.

Thiru K. Varadachariar, the great musician, respectfully and popularly called "Tiger", was the first lecturer and Head of the Department. With the help of two teaching assistants he conducted the classes in Vocal, Vina and Violin and also guided Research students. Eminent scholars like Thiru M.S.Ramaswami Ayyar and Thiru P.Sambamoorthi were invited to give lectures to students on The History and Theory of Music, respectively.

The establishment of the Department was hailed in music circles all over India and very soon enquiries about the course came pouring in even from as far a place as Rajkot. The diploma course was soon intensified and made into a two-year course from August 1937. Two years later the University also introduced an Oriental title course, Sangita Sironmani, though the department as such did not offer the course. Enrolment of Students for research leading to the M.Litt. degree was also started and in 1940 the first M.Litt: degree was awarded.

In the late forties, Indian Music was introduced in Stella Maris College, Madras, also. In late fifties, M.A. course was commenced there with its students coming to the Department for the Inter-Collegiate classes. Gradually enrolment for Ph.D. degree also commenced in the department.

During the twenty-five years, i.e., from 1937 to 1961, Thiru P. Sambamoorthy was the Head of the Department, initially as a Lecturer and later from 1952 as a Reader. This period witnessed all round activity in teaching, performance and research. Dr. T. Vishwanathan and Dr. Miss Isaac followed him as the Heads of the Department. In 1975, Dr. Miss S. Seetha, Lecturer, took over charge and became a Reader and in quick succession was appointed the first Professor. In 1991, Dr. M.B. Vedavalli succeeded her and in 1995 Dr. N.Ramanathan took over the position as the Head of the Department. In 1998 when the departments in the University were classified under Schools the Department was placed under the School of Fine and Performing Arts of which Dr. N.Ramanathan was the Chairperson until 2002-2003. Dr. M. Premeela was appointed as Professor and Head of the Department and Chairperson from 2003, She belongs to the First batch of the M.A, degree course in Indian Music instituted in the Department in the year 1976.

The M.A. teaching, which had been suspended in colleges was revised and started in the

Department in 1976. With this there was a spurt in teaching and research and other cultural activity. Soon a long-time grievance—that there existed no facility for men candidates to do B.A. degree course in music in Madras University also got redressed. In 1982, the B.A. degree course in Indian Music began to be conducted in the Department. This course was later adopted in the B.A. correspondence stream by the Institute of Correspondence Education. This course was, in 1987, introduced in the Open University System also. In 1986, the M.Phil course was commenced. In 1998, the University adopted the Credit Based Semester System under which the Curriculum in the Department was re-organised.

In the year 2003-2004, the Department under the Industrial Consultancy Programme of the UICIC of the University of Madras, has introduced the Three Months Certificate Programme in Understanding Music and Dance Music (Bharathanatyam).

In the year 2004-2005, the Department of Indian Music, has introduced the M.A. degree course in Bharathanatyam under the Choice Based Credit System under Self-Supportive Mode.

From the year 2004-2006, Six month Certificate Courses in (i) Karnatic Music, (ii) Hindustani Music, (iii) Harikatha and Bhajana and (iv) Western Music, have been introduced under the Industrial Consultancy Programme of the UICIC.

In the year 2006-2007, the Department of Indian Music, has introduced the M.A. degree course in Rhythmology and M.A. degree course in Folk Music under the Choice Based Credit System.

Currently the Department has more than 5000 books and 1000 published Audio Cassette tapes covering South Indian, North Indian and Other systems of World Music. Also books on Dance, Drama, Culture and History are available. Over 1500 prominent Indian and Foreign Journals facilitate serious research work. The Department also has photocopies and microfilms of Manuscripts. Audio-visual equipments, music discs, Audio-video tapes, Television, Projector, Cameras along with Musical Instruments and Computer with Music software in CD-ROMs for deeper and wide understanding of Indian Music.

### **School of Fine and Performing Arts**

#### **Faculty**

Dr. Rajshri Ramakrishna, Ph.D                      Chairperson

#### **Department of Indian Music**

Dr. Rajshri Ramakrishna, Ph.D                      Associate Professor and Head i/c  
Dr. R. Hemalatha, Ph.D                              Assistant Professor  
Dr. M. Subhasree, Ph.D                              Assistant Professor

### **M.A. BHARATHANATYAM (SELF SUPPORTIVE)**

<b>Course</b>	<b>Title Of The Course</b>	<b>C/E/S</b>	<b>Credit</b>
<b>I SEMESTER</b>			
FPA C001	Foundation Course in Performance - 1 (Practical)	<b>C</b>	<b>4</b>
FPA C002	Bharatanatyam Repertoire – 1 (Practical)	<b>C</b>	<b>4</b>
FPA C004	Foundation Course in Dance Music – 1 (Practical)	<b>C</b>	<b>2</b>
FPA C114	Historical and Theoretical Concepts of Fine Arts – 1	<b>C</b>	<b>4</b>
<b>II SEMESTER</b>			
FPA C005	Bharatanatyam Repertoire - 2 (Practical)	<b>C</b>	<b>4</b>
FPA C016	Bharatanatyam Repertoire - 3 (Practical)	<b>C</b>	<b>4</b>

FPA C115	Historical and Theoretical Concepts of Fine Arts – 2	C	4
FPA C008	Foundation Course in Dance Music – 2 (Practical)	C	2
<b>III SEMESTER</b>			
FPA C009	Bharatanatyam Repertoire - 4 (Practical)	C	4
FPA C012	Choreography (Practical)	C	4
FPA C017	Bharatanatyam Repertoire - 5 (Practical)	C	4
FPA C018	Advanced Theory – 1	C	4
<b>IV SEMESTER</b>			
FPA C117	Research Methodology (Theory)	C	4
FPA C013	Project Work and Viva-voce	C	8
FPA C019	Advanced Theory – 2	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
FPA E001	Basic Tala Aspects (Practical)	I	E	3
FPA E002	Dances of India (Theory)	I	E	3
UOMS155	Languages (Sanskrit and Telugu)	I	S	2
FPA E004	Percussion Instruments (Theory)	II	E	3
FPA E005	Advanced Tala Aspects (Practical)	II	E	3
UOMS156	Languages (Kannada and Malayalam)	II	S	2
FPA E006	Ritualistic Tradition in Natya 1 (Practical)	III	E	3
FPA E007	South Indian Art Music - An appreciation	III	E	3
UOMS145	Source Readings-Selected Verses and Passages from Tamiz Texts (Theory)	III	S	2
UOM 1001	Internship	III	I	2
FPA E020	Ritualistic Tradition in Natya 2 (Practical)	IV	E	3
FPA E009	Contemporary Dance Books (Theory)	IV	E	3
UOMS146	Source Readings-Selected Verses and Passages from Samskrta Texts (Theory)	IV	S	2

If the candidate's mother tongue is telugu then he/she will have to learn tamil instead

If the candidate's mother tongue is kannada or malayalam then he/she will have to learn tamil instead

#### M.A. INDIAN MUSIC

Course Code	Title Of The Course	C/E/S	Credit
<b>I SEMESTER</b>			
FPA C101	Foundation Course in Performance – 1 (Practical)	C	4
FPA C102	Kalpita Sangita 1 (Practical)	C	4
FPA C103	Manodharma Sangita 1 (Practical)	C	4
FPA C114	Historical and Theoretical Concepts of Fine Arts – 1 (Theory)	C	4
<b>II SEMESTER</b>			
FPA C105	Foundation Course in Performance – 2 (Practical)	C	4
FPA C107	Manodharma Sangita 2 (Practical)	C	4

FPA C115	Historical and Theoretical Concepts of Fine Arts – 2 (Theory)	C	4
<b>III SEMESTER</b>			
FPA C108	Foundation Course in Performance – 3 (Practical)	C	4
FPA C106	Kalpita Sangita 2 (Practical)	C	4
FPA C110	Alapana, Tanam & Pallavi – 1 (Practical)	C	4
FPA C116	Advanced Theory – Music (Theory)	C	4
<b>IV SEMESTER</b>			
FPA C112	Project Work and Viva-voce	C	8
FPA C113	Alapana, Tanam & Pallavi – 2 (Practical)	C	4
FPA C117	Research Methodology (Theory)	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
FPA E101	Devotional Music - Regional Forms of South India (Practical)	I	E	3
FPA E105	Compositions of Muttusvami Dikshitar (Practical)	I	E	3
UOMS155	Languages (Sanskrit and Telugu)	I	S	2
FPA E111	Opera – Nauka Caritram (Practical)	II	E	3
FPA E102	Nandanar Caritram (Practical)	II	E	3
UOMS156	Languages (Kannada and Malayalam)	II	S	2
FPA E106	Compositions of Syama Sastri (Practical)	III	E	3
FPA E108	South Indian Art Music – An Appreciation	III	E	3
UOMS145	Source Readings-Selected Verses and Passages from Tamiz Texts (Theory)	III	S	2
UOM1001	Internship	III	I	2
FPA E 103	Padams and Javalis (Practical)	IV	E	3
FPA E 109	Arunagirinatar’s Tiruppugazh	IV	E	3
UOMS146	Source Readings – Selected Verses and Passages from Sanskrit Texts	IV	S	2

**M.A. FOLK MUSIC**

Course Code	Title of the Course	C / E/S	Credits
<b>I SEMESTER</b>			
FPA C201	Foundation Course in Karnatic Music	C	4
FPA C202	Folk Songs of Kurinji Region	C	4
FPA C203	Culture and Environment - Kurinji	C	4
FPA C204	History of Kurinji Region	C	4
<b>II SEMESTER</b>			
FPA C205	Archiving - Video and Audio-Equipments	C	4
FPA C206	Folk Songs of Mullai Region	C	4

FPA C207	Culture and Environment - Mullai	C	4
FPA C208	History of Mullai Region	C	4
<b>III SEMESTER</b>			
FPA C209	Documentary Film making	C	4
FPA C210	Folk Songs of Marudam Region	C	4
FPA C211	Culture and Environment - Marudam	C	4
FPA C212	History of Marudam and Neythal Regions	C	4
<b>IV SEMESTER</b>			
FPA C213	Project Work	C	6
FPA C214	Folk Songs of Neythal	C	4
FPA C215	Culture and Environment - Neythal	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
FPA E201	Folk Songs in Tamil	I	E	3
FPA E202	Folk Theatre in Tamil Nadu	I	E	3
FPA E203	Learn a Folk Instrument - Tappu	I	E	3
	Soft Skill	I	S	2
FPA E204	Folklore of Asia	II	E	3
FPA E205	Malayalam Folk Songs	II	E	3
FPA E206	Learn to play Urumi	II	E	3
FPA E207	Folk narratives in Tamil Nadu	II	E	3
	Soft Skill	II	S	2
FPA E208	Telugu and Kannada Folk Songs	III	E	3
FPA E209	Folk Music in other Indian States	III	E	3
FPA E210	Role of Folk Music in Films	III	E	3
FPA E211	Therukkuttu and style of singing	III	E	3
	Soft Skill	III	S	2
UOM I001	Internship	III	I	2
	Soft Skill	IV	S	2

**M.A. DEGREE IN RHYTHMOLOGY (REGULAR & SELF SUPPORTIVE)**

Course Code	Title Of The Course	C/E/S	Credit
<b>SEMESTER-I</b>			
FPA C301	Foundation Course Percussion - 1 (Practical)	C	4
FPA C302	Rhythmical Compositions– 1 (Practical)	C	4
FPA C303	Rhythmical accompaniment for Dance - 1 (Practical)	C	4
FPA C114	Historical and Theoretical Concepts of Fine Arts – 1	C	4
<b>SEMESTER-II</b>			
FPA C304	Rhythmical Compositions – 2 (Practical)	C	4
FPA C305	Percussion of Neraval (Practical)	C	4

FPA C306	Rhythmical Accompaniment for Dance - 2 (Practical)	C	4
FPA C115	Historical and Theoretical Concepts of Fine Arts - 2	C	4
<b>SEMESTER-III</b>			
FPA C307	Foundation Course Percussion-2 (Practical) Tiruppugazh	C	4
FPA C308	Accompaniment for Ragam, Tanam and Pallavi - 1 (Practical)	C	4
FPA C309	Advanced Theory - Percussion	C	4
<b>IV SEMESTER</b>			
FPA C310	Research Methodology	C	4
FPA C311	Accompaniment for Ragam, Tanam and Pallavi-1 (Practical)	C	4
FPA C312	Project Work and Viva-voce	C	6

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
FPA E101	Devotional Music - Regional Forms of South	I	E	3
FPA E116	Tala applications - 1 (Practical)	I	E	3
UOMS155	Languages (Sanskrit and Telugu)	I	S	2
FPA E102	Foundation Course in Music -1 (Practical)	II	E	3
FPA E103	Tala applications - 2	II	E	3
UOMS156	Languages (Kannada and Malayalam)	II	S	2
FPA E104	South Indian Art Music – An Appreciation	III	E	3
FPA E117	Tala Applications-3 (Practical)	III	E	3
UOMS145	Source Readings – Selected Verses and Passages from Tamiz Texts	III	S	2
UOM I001	Internship	III	I	2
FPA E118	Tala Applications-3 (Practical)	IV	E	3
FPA E108	Foundation Course in Music -2	IV	E	3
UOMS146	Source Readings-Selected Verses and Passages from Sanskrit Texts (Theory)	IV	S	2

### M.Phil INDIAN MUSIC

Course Code	Title Of The Course	C	Credit
<b>I SEMESTER</b>			
FPA C131	Research Methodology and Research Tools	C	5
FPA C132	Areas of Research in Music	C	5
FPA C133	Analysis of Styles of Composers & Performance	C	5
<b>II SEMESTER</b>			
FPA C134	Dissertation & Viva-Voce	C	21

### DIPLOMA IN TEACHING METHODOLOGY - ABHINAYA & NATTUVANGAM

Course Code	Title Of The Course	C	Credits
<b>SEMESTER – I</b>			
FPA C901	Foundation 1 – Basic Abhinaya Compositions (Practical)	C	3

FPA C902	Foundation II – Basic Tala Aspects (Practical)	C	3
FPA C903	History of Bharatanatyam – I (Theory)	C	3
<b>SEMESTER - II</b>			
FPA C904	Advanced Abhinaya Compositions (Practical)	C	3
FPA C905	Advanced Tala Aspects (Practical)	C	3
FPA C906	History of Bharatanatyam – II (Theory)	C	3

**DIPLOMA IN TEACHING METHODOLOGY IN MUSIC**

Course Code	Title Of The Course	C	Credits
<b>SEMESTER – I</b>			
FPA C801	Foundation 1 – Basic (Practical)	C	3
FPA C802	Kalpita 1 - Compositions (Practical)	C	3
FPA C803	History of Music – I (Theory)	C	3
<b>SEMESTER - II</b>			
FPA C804	Foundation 2 - Advanced (Practical)	C	3
FPA C805	Kalpita 2 Compositions (Practical)	C	3
FPA C806	History of Music – II (Theory)	C	3

**CERTIFICATE IN KARNATIC MUSIC (SELF SUPPORTIVE)**

Course Code	Title Of The Course	C	Credits
FPA C601	Foundation Course in Karnatic Music (Practical)	C	5
FPA C602	Foundation Course in Karnatic Music Theory	C	4

**CERTIFICATE IN VOICE TRAINING (SELF SUPPORTIVE)**

Course Code	Title Of The Course	C	Credits
FPA C631	Voice Training – Basic (Practical)	C	4
FPA C632	Voice Training – Advanced (Practical)	C	5

**SCHOOL OF ENGLISH AND FOREIGN LANGUAGES**

The School of English and Foreign Languages consists of two Departments : English and French and other Foreign Languages.

The Department of English was established in 1969 and it started specializing in Literary Criticism, Commonwealth Literature, American Literature and English Language teaching. In the last decade it has moved into Postcolonial and Culture Studies. Gender, Theatre, Translation, Dalit, Australian and Canadian Studies have become Core Courses. English for corporate communication, Technical writing are the thrust areas in electives.

The Indian High Commission in London first proposed the creation of French and German Departments in the University of Madras. In 1928, French was taught in the intermediate and Bachelors courses. In 1983, a full-fledged Department of French came into being offering M.A, M.Phil and Ph.D programmes in French as well as certificate and Diploma courses in French, German and Italian. In 2010, the Department of French was renamed as Department of French and Other Foreign Languages and now also offers elective courses in French, German, Italian, Russian and Spanish. Our fields of specialization are Teaching of French as a Foreign Language, Quebec studies, Comparative Literature and Translation.

**Faculty**



Dr. S. Armstrong, Ph.D

Chairperson

**Department of English**

Dr. S. Armstrong, Ph.D

Professor & Head

Dr. R. Azhagarasan, Ph.D

Professor

Dr. D. Venkataramanan, Ph.D

Associate Professor

Dr. Supala Pandiarajan, Ph.D

Assistant Professor

**Department of French and other Foreign Languages**

Dr. N.C.Mirakamal, Ph.D

Assistant Professor and Head i/c

Ms. K. Srunika

Assistant Professor

**M.A. ENGLISH (REGULAR & SELF SUPPORTIVE)**

Course Code	Title Of The Course	C/E/S	Credit
<b>I SEMESTER</b>			
EFL C001	English Poetry	C	4
EFL C002	Post-Colonial Theory and Literature	C	4
EFL C003	European Drama	C	4
<b>II SEMESTER</b>			
EFL C004	American Literature	C	4
EFL C005	Language, Linguistics and Communication	C	4
EFL C006	Shakespeare Studies	C	4
EFL C007	Translation Studies	C	4
<b>III SEMESTER</b>			
EFL C008	Literary Criticism and Theory	C	4
EFL C009	Critique of Materialism Victorian Prose and Fiction	C	4
EFL C010	Canadian Studies	C	4
EFL C011	Dalit Studies	C	4
<b>IV SEMESTER</b>			
EFL C012	Modernism and Postmodernism	C	4
EFL C013	Australian Studies: Texts and Contexts	C	4
EFL C014	Project	C	6

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Sem	C/E /S	Credit
EFL E001	Theatre and Communication I	I	E	3
EFL E002	Copy Editing	I	E	3
UOMS020	Essentials of Spoken and Presentation Skills in English - Basic Level	I	S	2
EFL E010	English Literature for UGC-NET/SLET	II	E	3
UOMS049	Essentials of Spoken and Presentation Skills in English – Advanced Level	II	S	2
EFL E006	Romantic Movement and its Critique	III	E	3
EFL E007	Contemporary Indian Writing in English	III	E	3
UOM I001	Internship	III	I	2

UOMS050	Principles and Practice of Language and Communication English – Basic Level	III	S	2
EFL E008	Technical Writing	IV	E	3
EFL E009	Film and Media Studies	IV	E	3
UOMS051	Principles and Practice of Language and Communication English – Advanced Level	IV	S	2

### M.Phil ENGLISH

Course Code	Name of the Course	C/E	Credits			
			L	T	P	C
<b>I SEMESTER</b>						
EFL C021	Research Skills and Methodology	C	4	1	0	5
EFL C022	Literary Theory and Culture Studies	C	4	1	0	5
EFL E021	Poetry and the Poetics of Resistance	E	4	1	0	5
EFL E022	Language, Literature and Application	E	4	1	0	5
<b>II SEMESTER (21 Credits)</b>						
EFL C023	Dissertation and Viva	C				21

### M.A. FRENCH

COURSE CODE	TITLE OF THE COURSE	C/E	CR.
<b>SEMESTER I</b>			
EFLC 101	Grammaire du français contemporain	C	4
EFLC 102	Civilisation I : De l'époque mérovingienne jusqu'à la Révolution française	C	4
EFLC 103	Histoire de la Littérature française : Moyen Âge & XVI <sup>e</sup> siècle	C	4
EFLC 104	Éléments de linguistique générale	C	4
<b>SEMESTER II</b>			
EFLC 105	Histoire de la Littérature française : XVII <sup>e</sup> siècle	C	4
EFLC 106	Histoire de la Littérature française : XVIII <sup>e</sup> siècle	C	4
EFLC 107	Civilisation II : Du 1 <sup>er</sup> Empire jusqu'à la V <sup>e</sup> République	C	4
EFLC 108	Didactique du français langue étrangère	C	4
<b>SEMESTER III</b>			
EFLC 109	Histoire de la Littérature française : XIX <sup>e</sup> siècle	C	4
EFLC 110	Histoire de la Littérature française : XX <sup>e</sup> siècle – Roman & Critique	C	4
EFLC 111	Histoire de la Littérature française : XX <sup>e</sup> siècle – Poésie & Théâtre	C	4
EFLC 112	Théories de la traduction-I (Stylistique comparée)	C	4
<b>SEMESTER IV</b>			
EFLC 113	Théories de la traduction-II (Théorie interprétative)	C	4
EFLC 114	Littératures francophones-I : Québec	C	4
EFLC 115	Littératures francophones-II : Afrique noire, Maghreb, Suisse romande, Belgique	C	4

### ELECTIVE & SOFT SKILL COURSES

OFFERED FOR THE DEPARTMENT / SCHOOL				
Course code	Title of the Course	Sem	E/S/I	Credits
EFLE 101	Techniques de l'expression écrite et orale	I	E	3
EFLE 102	French : Beginners Level-I	I	E	3
EFLE 103	German : Beginners Level-I	I	E	3
EFLE 104	Italian : Beginners Level-I	I	E	3
EFLE 105	Russian : Beginners Level-I	I	E	3
EFLE 106	Spanish : Beginners Level-I	I	E	3
UOMS052	Pratique de l'oral	I	S	2
EFLE 107	Grands mouvements artistiques de la France-I	II	E	3
EFLE 108	French : Beginners Level-II	II	E	3
EFLE 109	German : Beginners Level-II	II	E	3
EFLE 110	Italian : Beginners Level-II	II	E	3
EFLE 111	Russian : Beginners Level-II	II	E	3
EFLE 112	Spanish : Beginners Level-II	II	E	3
UOMS053	Français de l'administration	II	S	2
UOMI 001	Internship	II	I	2
EFLE 113	Grands mouvements artistiques de la France-II	III	E	3
EFLE 114	French : Intermediate Level-I	III	E	3
EFLE 115	German : Intermediate Level-I	III	E	3
EFLE 116	Italian : Intermediate Level-I	III	E	3
EFLE 117	Russian : Intermediate Level-I	III	E	3
EFLE 118	Spanish : Intermediate Level-I	III	E	3
UOMS054	Français des affaires	III	S	2
EFLE 119	Traduction technique	IV	E	3
EFLE 120	French : Intermediate Level-II	IV	E	3
EFLE 121	German : Intermediate Level-II	IV	E	3
EFLE 122	Italian : Intermediate Level-II	IV	E	3
EFLE 123	Russian : Intermediate Level-II	IV	E	3
EFLE 124	Spanish : Intermediate Level-II	IV	E	3
UOMS055	Français de l'hôtellerie et du tourisme	IV	S	2
UOMS056	Major Literary Movements in France		S	2
UOMS057	History of Contemporary France		S	2

Note: **Electives Paper I, Paper VII, Paper XIII, Paper XIX** as specified above will have to be mandatorily taken by the students of this department and students are free to choose the other three electives.

#### M.Phil. FRENCH

Course Code	Title of the course	C/E	Credits			
			L	T	P	C
<b>FIRST SEMESTER</b>						
EFL C151	Méthodologie de la Recherche	C	4	1	0	5
EFL C153	Littérature Comparée	C	4	1	0	5
EFL E155	Techniques de la Traduction	E	4	1	0	5
EFL E157	Critique Littéraire	E	4	1	0	5
EFL E159	Méthodologie de l'enseignement du français langue étrangère	E	4	1	0	5
<b>SECOND SEMESTER</b>						
EFL C152	Dissertation and Viva-Voce	C	-	-	-	21

**POST GRADUATE DIPLOMA IN TECHNICAL WRITING**

Course Code	Title of the Course	C	Credits
<b>I SEMESTER</b>			
EFL C301	Introduction to Technical Writing	C	5
EFL C302	Document Design	C	5
EFL C303	English and Technical Writing	C	5
EFL C304	Technical Application - I	C	8
EFL C305	Technical Application - II	C	8
EFL C306	User Manual	C	3
EFL C307	Assignment	C	2

**CERTIFICATE IN FRENCH (SELF SUPPORTIVE)**

Course Code	Title of the Course	C/E	Credits
EFL C252	Prescribed text and Grammar (French)	C	3
EFL C253	Comprehension and Composition (French)	C	3
EFL C254	Viva-voce (French)	C	3

**CERTIFICATE IN GERMAN (SELF SUPPORTIVE)**

Course Code	Title of the Course	C/E	Credits
EFL C261	Prescribed text and Grammar (German)	C	3
EFL C262	Comprehension and Composition (German)	C	3
EFL C263	Viva-voce (German)	C	3

**CERTIFICATE IN ITALIAN (SELF SUPPORTIVE)**

Course Code	Title of the Course	C/E	Credits
EFL C255	Prescribed text and Grammar (Italian)	C	3
EFL C256	Comprehension and Composition (Italian)	C	3
EFL C257	Viva-voce (Italian)	C	3

**CERTIFICATE IN SPANISH**

Course Code	Title of the Course	C/E	Credits
EFL C258	Prescribed text and Grammar (Spanish)	C	3
EFL C259	Comprehension and Composition (Spanish)	C	3
EFL C260	Viva-voce (Spanish)	C	3

**DIPLOMA IN FRENCH (SELF SUPPORTIVE)**

Course Code	Title of the Course	C/E	Credits
<b>I SEMESTER</b>			
EFL C265	Prescribed text and Grammar – I (French)	C	3
EFL C266	Comprehension, Composition and Translation– I (French)	C	3
EFL C267	Viva-voce (French)	C	3
<b>II SEMESTER</b>			
EFL C268	Prescribed text and Grammar-II (French)	C	3
EFL C269	Comprehension, Composition and Translation – II (French)	C	3

EFL C270	Dissertation and Viva-Voce (French)	C	3
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#### DIPLOMA IN GERMAN (SELF SUPPORTIVE)

Course Code	Title of the Course	C/	Credit
<b>I SEMESTER</b>			
EFL C271	Prescribed text and Grammar-I (German)	C	3
EFL C272	Comprehension, Composition and Translation – I (German)	C	3
EFL C273	Viva-voce (German)	C	3
<b>II SEMESTER</b>			
EFL C274	Prescribed text and Grammar-II (German)	C	3
EFL C275	Comprehension, Composition and Translation – II (German)	C	3
FL C276	Dissertation and Viva-Voce (German)	C	3

#### DIPLOMA IN ITALIAN (SELF SUPPORTIVE)

Course Code	Title of the Course	C/E	Credits
<b>I SEMESTER</b>			
EFL C277	Prescribed text and Grammar-I (Italian)	C	3
EFL C278	Comprehension, Composition and Translation – I (Italian)	C	3
EFL C279	Viva-voce (Italian)	C	3
<b>II SEMESTER</b>			
EFL C280	Prescribed text and Grammar-II (Italian)	C	3
EFL C281	Comprehension, Composition and Translation – II (Italian)	C	3
EFL C282	Dissertation and Viva-Voce (Italian)	C	3

#### DIPLOMA IN SPANISH (SELF SUPPORTIVE)

Course Code	Title of the Course	C/E	Credits
<b>I SEMESTER</b>			
EFL C283	Prescribed text and Grammar-I (Spanish)	C	3
EFL C284	Comprehension, Composition and Translation – I (Spanish)	C	3
EFL C285	Viva-voce (Spanish)	C	3
<b>II SEMESTER</b>			
EFL C286	Prescribed text and Grammar-II (Spanish)	C	3
EFL C287	Comprehension, Composition and Translation – II (Spanish)	C	3
EFL C288	Dissertation and Viva-Voce (Spanish)	C	3

#### SCHOOL OF BUSINESS AND MANAGEMENT STUDIES

The School consists of the Departments of Commerce and Management Studies.

The Board of Studies in Commerce was first established in 1926 and B.Com. (Pass) course was first instituted in March 1945. A full-fledged Commerce Department was established in 1952-53 and M.Com. and M.Phil Degree courses began to be offered in 1976-77.

The Ph.D. course commenced in 1975-76. The Department offers M.Com. International Business and Finance. Its specialization includes Development Banking International Marketing, Business Finance Taxation, Financial Markets and Portfolio Management, The Department has an exclusive Library and a Computer Laboratory. The department also offers job oriented diploma

programme such Diploma in Internal Audit, Diploma in Global Trade Management and PG Diploma in Banking and Finance since 2015.

In August 1955, the Department of Management Studies began a Diploma Course in Business Management. In July 1971, the Master of Business Administration (M.B.A) course (both full time and part time) was introduced. Research Programmes of the department began in 1975-76. The Department specializes in Marketing, Finance, Human Resource and System Management. The Department has an exclusive Library, Computer Laboratory and a Placement Officer.

**Faculty**

Dr. J. Khaja Sheriff, Ph.D Chairperson

**Commerce**

Dr. R. Rangarajan, Ph.D Professor & Head  
 Dr. R. Shanthi, Ph.D Associate Professor  
 Dr. S. Yuvaraj, Ph.D Assistant Professor  
 Dr. P.S. Buvanewari, Ph.D Assistant Professor

**Management Studies**

Dr. J. Khaja Sheriff, Ph.D Professor & Head  
 Dr. K. Sathyanarayan, Ph.D Associate Professor  
 Dr. P.S. Manjula, Ph.D Assistant Professor  
 Dr. S. Usha, Ph.D Assistant Professor  
 Dr. Vaneeta Aggarwal, Ph.D Assistant Professor  
 Dr. L. Kangalakshmi, Ph.D Assistant Professor  
 Dr. P. Siva Kumar (Re- Deployed) Assistant Professor  
 Dr. I. Josephraj (Re- Deployed) Assistant Professor

**Centre for Infrastructural Management Studies**

Dr. J. Khaja Sheriff, Ph.D Professor & Head i/c

**M.COM - INTERNATIONAL BUSINESS AND FINANCE**

Course Code	Title of the Course	Credits
<b>SEMESTER – I</b>		
BUS C101	Strategic Management	4
BUS C105	Global Business Environment	4
BUS C108	Practical Costing	4
BUS C109	International Banking and Global Financial Markets	4
BUS E124	Elective 1 - Organizational Behaviour	3
	Elective 2 – To be taken from other department	3
UOM S058	Business Communication	2
<b>SEMESTER – II</b>		
BUSC128	Global Entrepreneurship	4
BUS C104	International Marketing	4
BUS C111	Management of Human Resources	4
BUS C117	Insurance and Risk Management	4
BUS C121	Merchant Banking and Financial Services	4
BUS C125	EXIM Trade	4
BUS E135	Elective 3 - Business Ethics, Corporate Governance & Corporate Social Responsibility	3
	Elective 4 – To be taken from other department	3
UOM S224	Personality Development	2

SEMESTER – III		
BUS C113	Global Marketing Research	4
BUS C115	International Trade Relations	4
BUSC129	International Business Law	4
BUS C123	Marketing of Services	4
BUS E139	Elective 5 - Corporate Legal Framework	3
	Elective 6 – To be taken from other department	
UOM S059	Basics of Stock Trading	2
UOM I001	Internship	2
SEMESTER – IV		
BUS C126	Derivatives and risk management	4
BUS C127	Tax Planning and Management	4
BUS E121	Elective 7 - Industrial Relations and Labour Laws	3
BUS C114	Project Work	6
UOM S060	Business Etiquettes	2

**M.COM. BUSINESS DATA SCIENCE (SELF-SUPPORTIVE)**

First Semester		
Core Papers		Credits
BUS C301	Global Strategic Management	4
BUS C302	Financial Reporting	4
BUS C303	Global Business Environment	4
BUS C304	Logistics and Supply Chain Management	4
Second Semester		
BUS C305	EXIM Trade	4
BUS C306	Management of Human Resource	4
BUS C307	Financial Accounting and Analysis	3
BUS C308	Global Marketing Research	4
Third Semester		
BUS C309	Descriptive Statistics	4
BUS C310	Machine Learning Concept	4
BUS C311	Data Visualization	4
BUS C312	Data Analytics Tools	4
Fourth Semester		
BUS C313	Inferential Statistics	4
BUS C314	Machine Learning Technique	4
BUS C315	Project Work	6

ELECTIVE & SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL				
Course Code	Title of the Course		C/E /S	Credit
BUS E301	Portfolio Management using Excel		E	3
UOMS058	Business Communication		S	2
BUS E302	R Language		E	3
UOMS059	Basics of stock trading		S	2
UOMI001	Internship		I	2
UOMS060	Business Etiquettes		S	2
BUS E 117	Operations Research		E	3
BUS E 303	Strategic Human Resource Management		E	3

BUS E305	Applications of Business Data Analysis		E	3
BUS E 124	Organizational Behaviour		E	3
BUS E 134	Strategic Cost Management		E	3
BUS E 135	Business Ethics, Corporate Governance and Social Responsibility		E	3
BUS E 136	Total Quality Management		E	3
UOMS214	Personality Development		S	2

**MASTER OF BUSINESS ADMINISTRATION (MBA) TOTAL CREDITS = 94**  
**(CORE: 60 + ELECTIVE: 24+SOFT SKILLS: 8+INTERNSHIP:2= 94)**

Subject code	Subject	C/E/S	Credit
<b>SEMESTER – I</b>			
BUSC201	Management Process and Business Ethics	C	4
BUSC202	Quantitative and Research Methods in Business	C	4
BUSC203	Organisational Behaviour	C	4
BUSC204	Managerial Economics	C	4
BUSC205	Management Accounting	C	4
BUSC206	Legal Aspects of Business	C	4
BUSE201	Innovation and Creativity	E	3
UOMS167	Executive Communication	S	2
<b>SEMESTER II</b>			
BUSC207	Operations Management	C	4
BUSC208	Applied Operations Research	C	4
BUSC209	Financial Management	C	4
BUSC210	Marketing Management	C	4
BUSC211	Strategic Human Resource Management	C	4
BUSC212	Strategic Management	C	4
BUSE202	International Business	E	3
UOMS168	Business Etiquette	S	2
<b>SEMESTER – III</b>			
BUSC213	Management Information System	C	4
UOMS169	Leadership and Team Building	S	2
UOMS!70	Stress Coping Strategies for Managers	S	2
UOMI001	Internship	I	2
<b>SEMESTER – IV</b>			
BUSC214	Project work & Viva- Voce	C	8
UOMS206	Personality Development	S	2

<b>ELECTIVE SUBJECTS</b>			<b>Cr.</b>
1.	BUSE203	Sales and Distribution Management	3
2.	BUSE204	Integrated Marketing & Communication	3
3.	BUSE205	Corporate Finance	3
4.	BUSE206	Security Analysis and Portfolio Management	3
5.	BUSE207	Human Resources Development	3
6.	BUSE208	Database Management Systems	3
8.	BUSE210	Labour Laws	3
9.	BUSE211	Supply Chain Management	3
11.	BUSE213	E-Business	3
12.	BUSE214	Merchant Banking & Financial Services	3



13.	BUSE215	Brand Management	3
14.	BUSE216	Digital Marketing	3
15.	BUSE217	Services Marketing	3
16.	BUSE218	Marketing Research and Consumer Behaviour	3
17.	BUSE219	Customer Relationship Management	3
18.	BUSE220	Quality Management	3
19.	BUSE221	Performance Management System	3
21.	BUSE223	Project Management	3
22.	BUSE224	Derivatives Management	3
23.	BUSE225	International Financial Management	3
24.	BUSE226	International Marketing	3
25.	BUSE227	System Analysis and Design	3
26.	BUSE228	Retail Marketing	3
27.	BUSE229	Banking and Insurance	3
28.	BUSE230	Rural Marketing	3
29.	BUSE231	Principles & Practice of Logistics Management	3
30.	BUSE232	Inventory & Warehousing Management	3
31.	BUSE233	Domestic and International Logistics Management	3
32.	BUSE234	Health Policy and Health Care Systems	3
33.	BUSE235	Hospital Planning and Administration	3
34.	BUSE236	Hospital Records Management	3
35.	BUSE237	Business Analytics	3
36.	BUSE238	International Human Resource Management	3

\*Electives offered from the DEpartment may be offered to the other department students subject to the availability of vacancies.

**EXECUTIVE MASTER OF BUSINESS ADMINISTRATION (EMBA) (only for Executives)**

<b>Code</b>	<b>Title of the Course</b>	<b>C/E/S/I</b>	<b>Cr</b>
<b>I Semester</b>			
BUSC 601	Management Principles and Business Ethics	<b>C</b>	<b>4</b>
BUSC 602	Quantitative and Research Methods in Business	<b>C</b>	<b>4</b>
BUSC 603	Organisational Behaviour	<b>C</b>	<b>4</b>
BUSC 604	Managerial Economics	<b>C</b>	<b>4</b>
	Elective – 1	<b>E</b>	<b>3</b>
BUSC 605	Capstone Project I	<b>C</b>	<b>3</b>

<b>II Semester</b>			
BUSC 606	Accounting for Managers	<b>C</b>	<b>4</b>
BUSC 607	Legal system in Business	<b>C</b>	<b>4</b>
BUSC 608	Management Information Systems	<b>C</b>	<b>4</b>
BUSC 609	Operations Management ( <b>Functional Core</b> )	<b>C</b>	<b>4</b>
	Elective – 2	<b>E</b>	<b>3</b>
BUSC 610	Capstone Project II	<b>C</b>	<b>3</b>
<b>III Semester</b>			
BUSC 611	Applied Operations Research ( <b>Functional Core</b> )	<b>C</b>	<b>4</b>
BUSC 612	Financial Management ( <b>Functional Core</b> )	<b>C</b>	<b>4</b>
BUSC 613	Marketing Management ( <b>Functional Core</b> )	<b>C</b>	<b>4</b>
BUSC 614	Human Resource Management ( <b>Functional Core</b> )	<b>C</b>	<b>4</b>
	Elective – 3	<b>E</b>	<b>3</b>
BUSC 615	Capstone Project III	<b>P</b>	<b>3</b>

IV Semester			
BUSC 616	Strategic Management (Functional Core)	C	4
	Elective – 4	E	3
BUSC 617	Project Report & Viva Voce	C	8

ELECTIVE & SOFT SKILL COURSES			
Course	Title of the Course	C/E /S	Credit
BUSE 203	Sales and Distribution Management	E	3
BUSE 204	Integrated Marketing and Communication	E	3
BUSE 205	Corporate Finance	E	3
BUSE 206	Security Analysis and Portfolio Management	E	3
BUSE 207	Human Resources Development	E	3
BUSE 208	Database Management Systems	E	3
BUSE 209	Decision Support System	E	3
BUSE 210	Industrial and Labour Relations	E	3
BUSE 211	Supply Chain Management	E	3
BUSE 212	Tax Management	E	3
BUSE 213	E-Business	E	3
BUSE 214	Merchant Banking & Financial Services	E	3
BUSE 215	Brand Management	E	3
BUSE 216	Industrial Marketing	E	3
BUSE 217	Services Marketing	E	3
BUSE 218	Marketing Research and Consumer Behaviour	E	3
BUSE 219	Customer Relationship Management	E	3
BUSE 220	Quality Management	E	3
BUSE 221	Performance Management	E	3
BUSE 222	Organisational Development	E	3
BUSE 223	Project Management	E	3
BUSE 224	Derivatives Management	E	3
BUSE 225	International Financial Management	E	3
BUSE 226	International Marketing	E	3
BUSE 227	System Analysis and Design	E	3
BUSE 228	Retail Marketing	E	3
BUSE 229	Banking and Insurance	E	3
BUSE 230	Rural Marketing	E	3
BUSE 231	Principles & Practice of Logistics Management	E	3
BUSE 232	Inventory & Warehousing Management	E	3
BUSE 233	Domestic and International Logistics Management	E	3
BUSE 234	Health Policy and Health Care Systems	E	3
BUSE 235	Hospital Planning and Administration	E	3
BUSE 236	Hospital Records Management	E	3
BUSE 237	Business Analytics	E	3
BUSE 238	International Human Resource Management	E	3

**M.Phil COMMERCE**

Course Code	Title of the Course	C/E	Credit
SEMESTER I			
BUS C151	Business Research Methods	C	5

BUS C152	Quantitative Methods	C	5
	Elective Paper	E	5
SEMESTER II			
BUS C153	Dissertation & Viva Voce	C	21

**Elective Courses**

BUS E151	Human Resource Management	E	5
BUS E155	International Trade Relations	E	5

**PG DIPLOMA IN BANKING AND FINANCE**

Course Code	Title of the Course	C/E	Credit
SEMESTER I			
BUS C001	Contemporary Indian Banking, and Indian Financial System	C	4
BUS C002	Legal and Regulatory Aspects of Banking	C	3
BUS C003	Human Resources Management in Banks	C	3
BUS C004	Credit Management	C	4
BUS C005	Foreign Exchange, International Banking and Business Mathematics	C	4
BUS C006	Priority Sector and Rural Banking	C	4
BUS C007	Retail Banking and Corporate Banking	C	4
BUS C008	Risk Management, Compliance and Preventive Vigilance	C	4
BUS C009	Internship Training and Project Work	C	6

**DIPLOMA COURSE IN INTERNAL AUDITING**

Course Code	Title of the Course	C/E	Credit
SEMESTER I			
BUS C251	Internal Audit Conceptual Framework		4
BUS C252	Internal Audit Process		5
BUS C253	Management Control and Business Analysis		4
BUS C254	Information System Auditing & Risk Based Auditing		5

**SCHOOL OF MATHEMATICS, STATISTICS AND COMPUTER SCIENCE**

Mathematics, Statistics and Computer Science together constitute a school with wide scope for interaction aiming at excellence in fundamental research and applications.

The University of Madras is known for its nurturing the genius Srinivasa Ramanujan, the great mathematical luminary whose mathematics is engaging the attention of leading mathematicians even today for its profoundness and applications. The University Department of Mathematics was created in 1927. The Ramanujan Institute of Mathematics, founded by Dr.Rm.Alagappa Chettiar came into existence in 1957. In 1967, with the assistance from UGC it became a Centre of Advanced Study in Mathematics merging the two units. This centre is now known as the Ramanujan Institute for Advanced Study in Mathematics (RIASM), The RIASM offers Masters, M.Phil. and Ph.D. programmes.

An independent Department of Statistics started functioning in 1941 and became a full fledged

department of study and research from 1975 under the leadership of Prof. K.N.Venkataraman. The department offers Masters, M.Phil. and Ph.D. programmes. The department also offers M.Sc. Actuarial Science programme under UGC Innovative programme. The Department is DST-FIST sponsored.

Study of Computer Science in the University began in 1984. An independent department was instituted in 1987. The Department of Computer Science concentrates research in the areas of Algorithms, Artificial Neural Networks, Image Processing and Data Mining. It has a well equipped Computer Laboratory. The department currently offers Master of Computer Applications, M.Phil. Computer Science and Ph.D. programmes

### Faculty

Dr. P. Thangavel, Ph.D Chairperson

### RIAS in Mathematics

Dr.M. Pitchaimani, Ph.D	Assistant Professor & Director i/c
Dr.C. Uma Maheswari, Ph.D	Assistant Professor
Dr.K. Jeganathan Ph.D	Assistant Professor
Ms.R. Ezhilarasi	Assistant Professor
Dr.A.Tamilselvi, Ph.D	Assistant Professor
Dr.K. Kaliraj, Ph.D	Assistant Professor
Dr.R. Parthasarathy, Ph.D	Assistant Professor

### Statistics

Dr. M.R. Sindhumol	Associate Professor & Head i/c
Dr. M. Ramadurai, Ph.D	Assistant Professor
Dr.S.Suresh	Assistant Professor

### Computer Science

Dr. P. Thangavel, Ph.D	Professor and Head
Dr. P.L. Chitra, Ph.D	Professor
Dr. M. Sornam, Ph.D	Professor
Dr. S. Gopinathan, Ph.D	Professor
Dr. B. Lavanya, Ph.D	Associate Professor

### M.Sc. MATHEMATICS (Regular and Self-Supportive)

Course	Title of the Course	C/E/ S	L	T	P	Credit
<b>I SEMESTER</b>						
MSI C001	Linear Algebra	C	3	1	0	4
MSI C002	Real Analysis	C	3	1	0	4
MSI C003	Ordinary Differential Equations	C	3	1	0	4
MSI C004	Number Theory	C	3	1	0	4
	Elective – 1	E	2	1	0	3
	Soft Skill	S	2			2
<b>II SEMESTER</b>						
MSI C005	Algebra	C	3	1	0	4
MSI C006	Topology	C	3	1	0	4
MSI C007	Partial Differential Equations	C	3	1	0	4
MSI C008	Multivariable Calculus and Analysis	C	3	1	0	4
	Elective-2	E	2	1	0	3
	Elective-3	E	2	1	0	3
	Soft Skill	S	2			2

<b>III SEMESTER</b>						
MSI C009	Complex Analysis	C	3	1	0	4
MSI C010	Measure & Integration theory	C	3	1	0	4
MSI C015	Functional Analysis	C	3	1	0	4
	Elective - 4	E	2	1	0	3
	Elective - 5 / Elective for other Depts*	E	2	1	0	3
	Soft Skill	S	2			2
	Summer Internship	I	2			2
<b>IV SEMESTER</b>						
MSI C013	Advanced Analysis	C	3	1	0	4
MSI C014	Differential Geometry	C	3	1	0	4
MSI C011	Probability theory	C	3	1	0	4
MSI C016	Project / Seminar	C	3	1	0	4
	Elective – 6	E	2	1	0	3
	Elective – 7	E	2	1	0	3
	Soft Skill	S	2			2

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>			
<b>Course Code</b>	<b>Title of the Course</b>	<b>C/E /S</b>	<b>Credit</b>
MSI E001	Discrete Mathematics*	E	3
MSI E002	Number Theory and Cryptography	E	3
MSI E003	Programming and Soft Computations*	E	3
MSI E004	Difference Equations	E	3
MSI E005	Lie Algebras	E	3
MSI E006	Stochastic Processes	E	3
MSI E007	Representation Theory of Finite Groups	E	3
MSI E008	Graph Theory*	E	3
MSI E009	Lie Groups of Transformations and Ordinary Differential Equations	E	3
MSI E010	Lie Groups of Transformations and Partial Differential Equations	E	3
MSI E011	Algebraic Number Theory	E	3
MSI E013	Algebraic Topology	E	3
MSI E014	Calculus of Variations and Integral Equations	E	3
MSI E015	Algebraic Geometry	E	3
MSI E016	Control Theory	E	3
MSI E017	Mathematical Modeling with Ordinary Differential Equation	E	3
UOMS062	Scientific Document Preparation using Latex#	S	2
UOMS063	Computations using Mathematical Software like Maple, Mathematica#	S	2
	SOFT SKILL – 3	S	2
	SOFT SKILL – 4	S	2

\* *Electives offered for other Departments, # Soft Skills offered by the Department*

#### SELF STUDY COURSES

MSI S001	Financial Calculus	<b>3</b>
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MSI S002	Fuzzy Analysis	<b>3</b>
MSI S003	Harmonic Function Theory	<b>3</b>
MSI S004	Introduction to Fractals	<b>3</b>
MSI S005	Lie Groups and Lie Algebras	<b>3</b>
MSI S006	Probability on Abstract Spaces	<b>3</b>
MSI S007	Quantum Computations	<b>3</b>

### M.Sc. STATISTICS

Course Code	Title of the Course	C/E/S	L	T	P	C
<b>I SEMESTER</b>						
MSI C121	Statistical mathematics	C	3	1	0	4
MSI C122	Measure and Probability Theory	C	3	1	0	4
MSI C123	Distribution Theory	C	3	1	0	4
MSI C124	R Programming	C	3	1	0	4
<b>II SEMESTER</b>						
MSI C125	Linear Regression Analysis	C	3	1	0	4
MSI C126	Sampling Theory	C	3	1	0	4
MSI C127	Statistical Estimation Theory	C	3	1	0	4
MSI C128	Statistical Laboratory	C	2	0	0	2
<b>III SEMESTER</b>						
MSI C129	Multivariate Analysis	C	3	1	0	4
MSI C130	Testing Statistical Hypotheses	C	3	1	0	4
MSI C131	Design & Analysis of Experiments	C	3	1	0	4
<b>IV SEMESTER</b>						
MSI C132	Statistical Quality Management	C	3	1	0	4
MSI C133	Advanced Operations Research	C	3	1	0	4
MSI C134	Statistical Laboratory -II	C	0	0	2	2
MSI C135	Statistical Software Practical	C	0	6	2	2
MSI C136	Project Work / Dissertation	C	0	6	0	6
	Introduction to Data Analytics, SWAYAM ( <a href="https://swayam.gov.in/courses/3864-introduction-to-data-analytics">https://swayam.gov.in/courses/3864-introduction-to-data-analytics</a> )					

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
MSI E121	Actuarial Statistics		E	3
MSI E122	Statistical Methods for Epidemiology		E	3
MSI E123	Stochastic Process*		E	3
MSI E124	Non parametric inference		E	3
MSI E125	Data Mining*		E	3
MSI E126	Bayesian Inference		E	3
MSI E127	Reliability Theory		E	3
MSI S128	Survival Analysis		E	3
MSI S129	Categorical Data Analysis		E	3
MSI E130	Bio-Statistics*		E	3

MSI E133	Machine Learning Techniques	III	E	3
MSI E134	Population Studies	I	E	3
UOMS064	Time series using statistical software#	I	S	2
UOMS065	Basic Statistics using Microsoft Excel#	II	S	2
	SOFT SKILL – 3	III	S	2
	SOFT SKILL - 4	III	S	2

\* *Electives offered for other Departments* # *Soft Skills offered by the Department*

**M.Sc. ACTUARIAL SCIENCE (Self-Supportive)**

Course Code	Title of the Course	C/E/S	L	T	P	C
<b>I SEMESTER</b>						
MSI C221	Probability and Distributions	C	3	1	0	4
MSI C222	Financial Mathematics – I	C	3	1	0	4
MSI C223	Life Contingencies - I	C	3	1	0	4
MSI C224	Principles and Practice of Insurance	C	3	1	0	4
<b>II SEMESTER</b>						
MSI C225	Statistical Inference	C	3	1	0	4
MSI C226	Financial Mathematics – II	C	3	1	0	4
MSI C227	Life Contingencies – II	C	3	1	0	4
MSI C228	Computational Laboratory – I	C	0	0	2	2
<b>III SEMESTER</b>						
MSI C229	Stochastic Modeling	C	3	1	0	4
MSI C230	Time Series Analysis	C	3	1	0	4
MSI C231	Finance and Financial Reporting	C	3	1	0	4
MSI C232	Financial Economics	C	3	1	0	4
<b>IV SEMESTER</b>						
MSI C233	Risk Models	C	3	1	0	4
MSI C234	Survival Models	C	3	1	0	4
MSI C235	Corporate Financial Management	C	3	1	0	4
MSI C236	Computational Laboratory - II	C	0	0	2	2
	Introduction to Data Analytics, SWAYAM ( <a href="https://swayam.gov.in/courses/3864-introduction-to-data-analytics">https://swayam.gov.in/courses/3864-introduction-to-data-analytics</a> )					
<b>ELECTIVE &amp; SOFT SKILL COURSES</b>						
Course Code	Title of the Course	Semester	C/E /S	Credit		
MSI E211	Basics of Financial Accounting		E	3		
MSI E212	Stochastic Calculus		E	3		
UOM S	Soft Skill		S	2		
MSI E213	Computer based Statistical Analysis		E	3		
MSI E214	Principles of Economics		E	3		
UOM S	Soft Skill		S	2		
MSI E215	Numerical Methods		E	3		
MSI E216	Resource Optimization Principles		E	3		
UOM S	Soft Skill		S	2		
UOM I001	Internship		I	2		
UOMS	Soft Skill		S	2		



**MASTER OF COMPUTER APPLICATION (M.C.A.)**

Course Code	Title of the Courses	C/E	Credits
<b>SEMESTER-I</b>			
MSI C351	Digital Principles	C	3-1-0-4
MSI C352	C++ and Data Structures	C	3-1-0-4
MSI C353	Design and Analysis of Algorithms	C	3-1-0-4
MSIC354	Data Structures using C++ Lab.	C	0-0-2-2
<b>SEMESTER-II</b>			
MSI C355	Web based Application development	C	3-0-0-3
MSI C356	Object Oriented Analysis and Design	C	3-0-1-4
MSI C357	Artificial Intelligence	C	3-1-0-4
MSI C358	Database Management Systems	C	3-1-0-4
MSI C359	DBMS and Web based Application development Lab.	C	0-0-2-2
<b>SEMESTER-III</b>			
MSI C360	Machine Learning	C	3-1-0-4
MSI C361	Digital Image Processing	C	3-1-0-4
MSI C362	Data Analytics	C	3-0-1-4
MSI C363	Machine Learning and Image Processing lab	C	0-0-2-2
UOMI001	Internship-1		2
<b>SEMESTER-IV</b>			
MSI C364	Project Work	C	0-0-15-15

**Note** - Number of Minimum Credits required for Core Courses is 60

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Sem	C/E /S	Credit
MSI E352	Advanced Java Programming		E	3-0-0-3
MSI E353	Programming in COBOL		E	3-0-0-3
MSI E354	High Performance Computing		E	3-0-0-3
MSI E355	Multimedia Systems		E	3-0-0-3
MSI E356	Computer Oriented Statistical Methods		E	3-0-0-3
MSI E357	Software Project Management & Testing		E	3-0-0-3
MSI E358	Project and Case Studies – I		E	0-0-3-3
MSI E359	Project and Case Studies – II		E	0-0-3-3
MSI E362	Introduction to Programming in PYTHON		E	2-0-1-3
MSI E363	Functional Programming using Haskell		E	2-0-1-3
MSI E364	Cryptography		E	3-0-0-3
MSI E365	Programming with Open Source Software		E	3-0-0-3
MSI E366	Cloud Computing		E	3-0-0-3
MSI E367	Internet of Things		E	3-0-0-3
MSI E368	Mobile Application Development		E	3-0-0-3
MSI E369	Information Security		E	3-0-0-3
MSI E370	Bioinformatics		E	3-0-0-3
MSI E371	Microprocessors and Embedded Systems		E	3-0-0-3
MSI E372	Operating Systems		E	3-0-0-3
MSI E373	Computer Graphics		E	3-0-0-3
MSI E374	Theory of Computation		E	3-0-0-3
MSI E375	Computer Networks		E	3-0-0-3
MSI E376	Software Engineering		E	3-0-0-3
MSI E377	Data Mining and Data Warehousing		E	3-0-0-3



MSI E378	Programming in Java		E	3-0-0-3
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**SOFT SKILL COURSES OFFERED IN THE DEPT. OF COMPUTER SCIENCE**

UOMS066	Computing Skill	S	2
UOMS067	IT-companies interview preparation	S	2
UOMS068	Advanced MS-Office	S	2
UOMI001	Internship-I	S	2
UOMS133	Term Paper and Seminar – I	S	2
UOMS134	Term Paper and Seminar – II	S	2
UOMS136	Team Project– I	S	2
UOMS137	Team Project– II	S	2
UOMS	Communication Skill for Software Engineers	S	2

**Note** - Number of Minimum Credits required for Elective Courses is 21  
Number of Minimum Credits required for Soft Skills Courses is 8  
Number of Minimum Credits required for Internship Courses is 2

**M.Sc. COMPUTER SCIENCE – SELF SUPPORTIVE**

Course Code	Title of the Course	C/E/S	Credits L-T-L-C
<b>I SEMESTER</b>			
MSI C421	Mathematics for Computer Science	C	3-1-0-4
MSI C422	Theory of Computation	C	3-1-0-4
MSI C423	Design and Analysis of Algorithms	C	3-1-0-4
MSI C424	Algorithms Lab	C	0-0-1-1
<b>II SEMESTER</b>			
MSI C425	Computer Networks	C	3-1-0-4
MSI C426	Artificial Intelligence	C	3-1-0-4
MSI C427	Database Management Systems	C	3-1-0-4
MSI C428	Database Management Systems Lab.	C	0-0-2-2
<b>III SEMESTER</b>			
MSI C429	Machine Learning	C	3-1-0-4
MSI C430	Digital Image Processing	C	3-1-0-4
MSI C431	Data Analytics	C	3-0-1-4
MSI C432	Cryptography	C	3-1-0-4
MSI C433	Machine Learning and Image Processing lab	C	0-0-2-2
UOMI 001	Internship-I		0-0-2-2
<b>IV SEMESTER</b>			
MSI C434	Project Work	C	0-0-15-15
<b>Additional list of elective courses for M.Sc. Computer science</b>			
MSI E401	Programming in Java and Web Technology	E	3-0-0-3
MSI E402	Microprocessors and Embedded Systems	E	3-0-0-3
MSI E403	Data Mining and Data Warehousing	E	3-0-0-3
MSI E404	Software Engineering	E	3-0-0-3
MSI E405	Mathematics for Computer Science	E	3-0-0-3
MSI E406	Web based Application development	E	3-0-0-3
MSI E407	Object Oriented Analysis and Design	E	3-0-0-3
MSI E408	Programming in C	E	3-0-0-3

**Note** - Number of Minimum Credits required for Core Courses is 60  
Number of Minimum Credits required for Elective Courses is 21  
Number of Minimum Credits required for Soft Skills Courses is 8

Number of Minimum Credits required for Internship Courses is 2

### M.PHIL MATHAMATICS

Course Code	Title of the Courses	C/E	Credits
<b>I SEMESTER</b>			
MSI C031	Algebra	C	5
MSI C032	Analysis	C	5
	Elective	C	5
<b>II SEMESTER</b>			
MSI C 034	Dissertation and Viva- Voce	C	21
MSI E031	Combinatorial Representation Theory	E	5
MSI E032	Fractional Differential Equations	E	5
MSI E033	Queueing Theory	E	5
MSI E034	Topology and Geometry	E	5

### M.PHIL COMPUTER SCIENCE

Course Code	Title of the Courses	C/E	Credits
<b>I SEMESTER</b>			
MSI C101	Research Methodology	C	3-2-0-5
MSI C102	Advance course on Computing	C	3-2-0-5
MSI E101	Selected Topics in Algorithms	E	3-2-0-5
MSI E102	Artificial Neural Networks	E	3-2-0-5
MSI E103	Digital Image Processing	E	3-2-0-5
MSI E104	Wireless Networks	E	3-2-0-5
MSI E105	Computer Graphics	E	3-2-0-5
MSI E106	Date Base Management System	E	3-2-0-5
MSI E107	Data Warehouse and Data Mining	E	3-2-0-5
<b>II SEMESTER</b>			
MSI C103	Dissertation and Viva-voce	C	6+15=21

### SCHOOL OF TAMIL AND OTHER DRAVIDIAN LANGUAGES

The School of Tamil and Dravidian Languages Consists of Departments of Tamil Literature, Tamil Language, Chair on Christian Tamil Literature, and Departments of Telugu, Kannada and Malayalam.

The Department of Comparative Philology, Oriental Research Institute (ORI), University of Madras first began researches in Tamil in 1914. In 1927, a separate Tamil department was established in the Institute. In 1930 the Tamil department was further expanded. The Tamil department specialized in Classical Tamil Literature, Folklore, Thirukkural Studies and Comparative Grammar. It published the much reputed annals of Oriental Research and Tamil dictionary. The department of Tamil was bifurcated into departments of Tamil Literature and Tamil Language in 1980-81.

Since 1981, the department of Tamil Literature specializes in Literary Studies, Grammar, Linguistics, Folklore, Translation, Mass media and Comparative Literature to evolve a holistic study of Tamil Culture. The department of Tamil Literature offers Masters, and Ph.D. Programmes. Thirukkural Research Unit (TRU) of the Tamilnadu Government Endowment Scheme is also functioning under the aegis, of this department. The Department offers a Post Graduate Diploma

courses in Manuscriptology and Editing, Folkloristics and Mass Media & Inscriptions and Culture.

The department of Tamil Language specializes in the fields of Lexicography, Grammar, Translation, Stylistics, Discourse analysis (Linguistics, Literary Criticism, and Publishing. It offers Masters, M.Phil. and Ph.D. Programmes.

In 1984, a Chair on Christian Tamil Literature was instituted by the Government of Tamil Nadu and this Chair specializes on the contributions of Christians to Tamilology. This Chair offer M.Phil. and Ph.D. Programmes.

The unit of Telugu Studies was created in ORI in 1914 and it became full fledged department in 1927. When it was reorganized in 1930, the focus of the department was shifted to social and cultural dimensions of Telugu Literature, Comparative Literature and Folklore. The department of Telugu offers Masters, M.Phil. and Ph.D. Programmes.

The unit of Kannada Studies was also started in 1927 in ORI with A.Venkata Rao as its head. In 1930, the department was expanded and began to give attention to Literary Criticism, Kannada Culture and Comparative Grammar. The department offers Masters, M.Phil. and Ph.D. Certificate and Diploma Programmes.

The unit of Malayalam Studies was established in the ORI in 1927 under the headship of C.Achutha Menon. The department studies social and cultural dimensions of Malayalam Language and Literature. The department offers Masters, M.Phil. and Ph.D. Programmes.

**Faculty**

Dr. Y. Manikandan, Ph.D Chairperson

**Tamil Literature**

Dr. G. Palani, Ph.D Professor & Head  
Dr. A. Ekambaram, Ph.D Professor

**Tamil Language**

Dr. Y. Manikandan, Ph.D Professor and Head  
Dr. Vani Arivaalan, Ph.D Assistant Professor  
Dr. V.Nirmalar Selvi, Ph.D Assistant Professor

**Sangapalagai for Tamil Development**

Dr. Y. Manikandan, Ph.D Professor and Head & i/c  
Dr. K. Sankara Narayanan, Ph.D Assistant Professor

**Centre for Thirukkural Research**

Dr. G. Palani, Ph.D Professor & Head i/c

**Centre for Endangered Languages**

Dr. A. Ekambaram, Ph.D Professor & Head i/c

**Kannada**

Dr. Tamil Selvi, Ph.D Professor and Head  
Dr.M. Rangaswamy, Ph.D Assistant Professor

**Malayalam**

Dr. P.M. Girish, Ph.D Associate Professor & Head i/c  
Dr. O.K. Santhosh, Ph.D Assistant Professor

Telugu

Dr. Vistali Sanakara Rao, Ph.D

Professor & Head

**M.A. TAMIL LITERATURE AND CULTURE**

**I SEMESTER**

Course Code	Title of the Course	C/E/S	Credits
TDL C001	Modern Literature I	C	4
TDL C002	Tolkaappiyam: Porulathikaram	C	4
TDL C003	Sangam Literature: Akam	C	4
TDL C004	Epics I	C	4
TDL E001	Translation	E	3
TDL E002	An Introduction to Tamil Language*	E	3
UOM S069	Tamil software's and mobile applications	S	2

**II SEMESTER**

Course Code	Title of the Course	C/E/S	Credits
TDL C005	Modern Literature II	C	4
TDL C006	Tolkappiyam: Eluttathikaram	C	4
TDL C007	Sangam Literature: Puram	C	4
TDL C008	Epics II	C	4
TDL E003	History of Tamil Theatre	E	3
TDL E004	An Introduction to Sangam Classics*	E	3
UOM S070	Reference Works	S	2

**III SEMESTER**

Course Code	Title of the Course	C/E/S	Credits
TDL C009	Tolkappiyam: Collathikaram	C	4
TDL C010	Bhakti Literature	C	4
TDL C011	Minor Literature	C	4
TDL C012	Research Methodology	C	4
TDL E005	Tamil Commentaries	E	3
TDL E006	An introduction to Tamil Literary History*	E	3
UOM S071	Ancient Documents*	S	2
UOM I001	Internship	I	2

**IV SEMESTER**

Course Code	Title of the Course	C/E/S	Credits
TDL C013	General Linguistics	C	4
TDL C014	Didactic Literature	C	4
TDL C015	Applied Folkloristics	C	4
TDL C016	Project Work	C	4
TDL E007	Tamil Diaspora	E	3
TDL E008	An Introduction to Tamil Culture*	E	3
UOM S072	Creative Writing	S	2

\* Course for students from other departments.

**M.A. TAMIL STUDIES**

Course Code	Title of the Course	C/E/S/I	Credits
<b>Semester I</b>			
TDLC101	Modern Literature	C	4
TDLC102	Didactic Literature	C	4
TDLC103	Bhakthi Literature I	C	4

TDLC104	Tolkappiam- Porulathikaram I	C	4
<b>Semester II</b>			
TDLC105	Sangam Literature	C	4
TDLC106	Bhakthi Literature II	C	4
TDLC107	General Linguistics	C	4
TDLC108	Tolkappiam – Porulathikaram II	C	4
<b>Semester III</b>			
TDLC109	Epics	C	4
TDLC110	Tolkappiam – Collathikaaram	C	4
TDLC111	Folkloristics	C	4
TDLC112	Lexicography	C	4
<b>Semester IV</b>			
TDLC113	Minor Literature	C	4
TDLC114	Tolkappiam - Elutthathikaram	C	4
TDLC115	Literary Studies	C	4
TDLC116	Dimensions of Tamil Grammar	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>				
Course Code	Title of the Course	Sem	C/E/S	Cr
TDL E101	Stylistics- நடையியல்	I	E	3
TDL E103	Journalism - இதழியல்	I	E	3
UOMS073	Elocution Skill - மேடைப் பொழிவுத்திறன்#	I	S	2
TDL E104	Diaspora Literature- புலம்பெயர் இலக்கியம்	II	E	3
TDL E106	History of Tamil Literature - தமிழ் இலக்கிய வரலாறு	II	E	3
UOMS072	Creative Writing - படைப்பிலக்கியம்#	II	S	2
TDL E105	Tourism-சுற்றுலாவியல்	III	E	3
TDL E107	Translated Literature-மொழிபெயர்ப்பு இலக்கியம்	III	E	3
TLD E108	Manuscriptology-சுவடியியல்	III	E	3
UOMS074	Book Publishing - நூல் வெளியீட்டியல்#	III	S	2
UOM I001	Internship	III	I	2
TDL E109	History of Tamilnadu and Culture - தமிழக வரலாறும் பண்பாடும்	IV	E	3
UOMS075	The Structure of Tamil Language - தமிழ் மொழி அமைப்பியல்#	IV	S	2

\* Electives offered for other Departments # Soft Skills offered by the Department

#### M.A. TELUGU

Course Code	Title of the Course	C/E/S	Credits
<b>SEMESTER-I</b>			
TDL C301	Classical Telugu Poetry	C	4
TDL C302	History of Telugu Literature-I	C	4
TDL C303	Telugu Grammar	C	4
TDL C304	General Linguistics	C	4
TDL C317	Manuscriptology	C	4
<b>SEMESTER-II</b>			
TDL C305	Evolution of Telugu Language	C	4
TDL C306	History of Telugu Literature-II	C	4
TDL C307	Prosody & Poetics	C	4
TDL C308	History of Sanskrit Literature	C	4

TEL C318	Modern Telugu Poetry	C	2
<b>SEMESTER-III</b>			
TDL C309	Literary Criticism	C	4
TDL C310	Dravidian Philosophy	C	4
TDL C311	Folk Literature	C	4
TDL C319	Prabandha Sahityam	C	4
<b>SEMESTER-IV</b>			
TDL C312	Telugu Journalism	C	4
TDL C313	Techniques of Translation	C	2
TDL C314	Sanskrit Prose & Poetry	C	2
TDL C315	Project Work	C	6
TDL C316	History & Culture of Andhras	C	4
TDL C320	Script Editing	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
TDL E301	Lexicography	I	E	3
TDL E302	Evolution of Telugu Short Story	I	E	3
TDL E303	Basics in Telugu*	I	E	3
UOMS076	Vemana Padyalu#	I	S	2
TDL E304	Dialectology	II	E	3
TDL E305	Post Modern Trends in Telugu poetry	II	E	3
TDL E306	Modern Telugu*	II	E	3
UOMS077	Proof Reading#	II	S	2
TDL E307	Evolution of Telugu Novel	III	E	3
TDL E308	Written Telugu*	III	E	3
UOMS078	Sumati Padyalu#	III	S	2
UOM I001	Internship	III	I	2
TDL E309	Comparative Literature	IV	E	3
TDL E310	Spoken Telugu*	IV	E	3
UOMS079	Telugu Computing#	IV	S	2

\* Electives offered for other Departments

# Soft Skills offered by the Department

#### M.A. KANNADA

Course code	Title of the Course	C/E/S	Credits
<b>SEMESTER I</b>			
TDL C401	History of Kannada literature I	C	4
TDL C402	Ancient Kannada Poetry	C	4
TDL C403	General linguistics	C	4
TDL C404	Comparative poetics	C	4
TDL C416	Alternative Core: Special Study of Ranna	C	4
<b>SEMESTER II</b>			
TDL C405	History of Kannada literature II	C	4
TDL C406	Medieval Kannada poetry	C	4
TDL C407	History of Kannada language	C	4
TDL C408	Kannada grammar	C	4
TDL C417	Special Study of Kumara Vyasa	C	4

SEMESTER III			
TDL C409	Literary Criticism	C	4
TDL C410	Study of Kannada Inscriptions and Culture	C	4
TDL C411	Comparative Dravidian languages	C	4
TDL C418	Special Study of Kuvempu	C	4
SEMESTER IV			
TDL C412	Kannada journalism	C	4
TDL C413	Textual criticism	C	4
TDL C414	Project work	C	4
TDL C415	Kannada prosody	C	4
TDL C419	Special Study of Kannada Women's Literature	C	4

ELECTIVE & SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL				
Course Code	Title of the Course	Semester	C/E/S	Credit
TDL E401	Lexicography	I	E	3
TDL E402	Evolution of kannada short story	I	E	3
TDL E403	Introductory Course In Kannada*	I	E	3
UOMS080	Kannada Computing#	I		2
TDL E404	Comparative literature – Kannada and tamil	II	E	3
TDL E405	Post Modern trends in Kannada poetry	II	E	3
TDL E406	Modern Kannada*	II	E	3
UOMS081	Proof Reading#	II	S	2
TDL E407	Evolution of Kannada novel	III	E	3
TDL E408	Spoken Kannada*	III	E	3
UOM I001	Internship	III		2
UOMS082	Sarvajna and Thiruvalluvar Poems#	III		2
TDL E409	Techniques of Translation	IV	E	3
TDL E410	Kannada Folk Literature	IV	E	3
TDL E411	Written Kannada*	IV	E	3
UOMS083	Someshwara Shataka Poems#	IV	S	2

\* Electives offered for other Departments # Soft Skills offered by the Department

## M.A. MALAYALAM

Course Code	Title of the Course	C/E/S	Credit
SEMESTER I			
TDL C501	Ancient Literature	C	4
TDL C502	Medieval Literature	C	4
TDL C503	Grammar-I	C	4
TDL C504	Cultural History of Kerala	C	4
TDL C517	Folklore	C	4
SEMESTER II			
TDL C505	Modern Poetry-I	C	4
TDL C506	Novel	C	4
TDL C507	Grammar-II	C	4
TDL C508	Practicals / Creative Writing	C	2

TDL C518	Translation Theory and Practice	C	4
<b>SEMESTER III</b>			
TDL C509	Modern Poetry-II	C	4
TDL C510	Short Story	C	4
TDL C511	History of Language	C	4
TDL C519	Western Literary Theories	C	4
TDL C520	Screenplay Writing	C	4
<b>SEMESTER IV</b>			
TDL C512	Malayalam Literary Criticism	C	4
TDL C513	Linguistics	C	4
TDL C514	Dalit Studies	C	4
TDL C516	Project Work Dissertation	C	2
TDL C515	Cognitive Grammar	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
TDL E501	Indian Literary Theories	I	E	3
TDL E502	Drama and Performing Arts	I	E	3
UOMS084	Poetry Appreciation#	I	S	2
TDL E504	Cultural Studies	II	E	3
TDL E505	Auto Biographical Studies	II	E	3
UOMS085	Review Writing#	II	S	2
TDL E506	Cyber Literature in Malayalam	III	E	3
TDL E509	Comparative Literature	III	E	3
UOMS086	Travelogue Writing#	III	S	2
UOM I001	Internship	III	I	2
TDL E510	Film Studies-E	IV	E	3
TDL E512	Feminist Literature	IV	E	3
UOMS087	Appreciation of Visual Arts#	IV	S	2

\* *Electives offered for other Departments*

#### M.Phil TAMIL STUDIES

Course Code	Title of the Course	C/E	Credit
<b>SEMESTER I</b>			
TDL C121	Research Methodology	C	5
TDL C122	Stylistics	C	5
TDL E121	History of Tamil Research	E	5
<b>SEMESTER II</b>			
TDL C123	Dissertation and Viva-Voce	C	21

#### M.Phil TAMIL LITERATURE

Course Code	Title of the Course	C/E	Credit
<b>SEMESTER I</b>			
TDL C031	Research Methodology	C	5
TDL C032	History of Research in Tamilology	C	5
TDL E031	Art History in Tamil	E	5
<b>SEMESTER II</b>			



TDL C033	Dissertation and Viva-Voce	C	21
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**M.Phil. TELUGU**

Course Code	Title of the Course	C/E	Credit
SEMESTER I			
TDL C321	Research Methodology	C	5
TDL C322	Evolution of Telugu Re- search	C	5
TDL E321	Trends in Modern Telugu Literature	E	5
TDL E322	Linguistic	E	5
TDL E323	Applied Research Methodology	E	5
SEMESTER II			
TDL C323	Dissertation & Viva-Voce	C	21

**M.Phil. KANNADA**

Course code	Title of the Paper	C/E	Credit
SEMESTER I			
TDL C421	Research Methodology	C	5
TDL C422	Modern Kannada Literature	C	5
TDL E421	Kannada Language Research	E	5
TDL E422	Kannada Literature Research	E	5
TDL E423	Literary Biographical Studies	E	5
TDL E424	Kannada Literary Criticism	E	5
SEMESTER II			
TDL C423	Dissertation and Viva-Voce	C	21

**M.Phil. MALAYALAM**

Course Code	Title of the Course	C/E	Credit
SEMESTER I			
TDL C521	Research Methodology	C	5
TDL C522	Media Studies	C	5
TDL E521	Post Modern Linguistics	E	5
SEMESTER II			
TDL C523	Dissertation and Viva- Voce	C	21

**DIPLOMA IN MANUSCRIPTOLOGY AND EDITING**

Course Code	Title of the Course	C/E	Credit
SEMESTER I			
TDL C041	Fundamental of Manuscriptology	C	5
TDL C042	Fundamentals of Editing	C	5
TDL C043	Prosody of Tamil Editing	C	5
TDL E041	History of Tamil Editing	E	3
SEMESTER II			
TDL C044	Conservation of Manuscripts	C	5
TDL C045	Electronic Media and Manuscriptology	C	5
TDL C046	Project Work	C	8

**DIPLOMA IN FOLKLORISTICS AND MASS MEDIA**

Course Code	Title of the Course	C/E	Credit
<b>SEMESTER I</b>			
TDL C051	Fundamentals of Folkloristics	C	5
TDL C052	Fundamentals of Mass Media	C	5
TDL C053	Field Work- Theory & Application	C	5
TDL E051	Material Culture	E	3
<b>SEMESTER II</b>			
TDL C054	History of Tamil Folkloristics	C	5
TDL C055	History of Tamil Mass Media	C	5
TDL C056	Project Work	C	8

**P.G. DIPLOMA IN INSCRIPTIONS AND CULTURE**

Course Code	Title of the Course	C/E	Credit
<b>SEMESTER I</b>			
TDL C061	Structure of Inscriptions	C	5
TDL C062	Paleography and Inscriptions	C	5
TDL C063	Site of Inscriptions in Tamil Nadu	C	5
TDL E061	Temple Inscriptions	E	3
<b>SEMESTER II</b>			
TDL C064	Tamil Culture and Inscriptions	C	5
TDL C065	Inscriptions and Literature	C	5
TDL C066	Project Work	C	8

**P.G. DIPLOMA IN LINGUISTICS**

Course Code	Title of the Course	C/E	Credit
<b>SEMESTER I</b>			
TDL C071	Linguistics : Basic Principles	C	5
TDL C072	Socio Linguistics	C	5
TDL C073	Tamil Grammer and Linguistics	C	5
TDL E071	Linguistics and Computer	E	3
<b>SEMESTER II</b>			
TDL C074	History of Linguistics	C	5
TDL C075	Literature and Linguistics	C	5
TDL C076	Project Work	C	8

**DIPLOMA IN TELUGU**

Course Code	Title of the Course	Core	Credits
<b>SEMESTER I</b>			
TDL C331	Prescribed Texts - Poetry	C	4
TDL C332	Prescribed Texts - Prose	C	4
TDL C333	Comprehensive, Composition & Letter Writing	C	4
TDL C334	Viva-Voce	C	6

**DIPLOMA IN KANNADA**

Course Code	Title of the Course	C/E	Credit
<b>SEMESTER I</b>			
TDL C431	Prescribed Texts - Poetry	C	4
TDL C432	Prescribed Texts - Prose	C	4
TDL C433	Comprehensive, Composition & Letter writing, Essay writing and Translations	C	4
TDL C434	Viva-Voce	C	6

**CERTIFICATE IN KANNADA**

Course code	Title of the Paper	Core	Credits
<b>SEMESTER I</b>			
TDL C001	Introduction to Kannada Language	C	3
TDL C002	Basic Grammar	C	3
TDL C003	Comprehensive, Composition	C	3
TDL C004	Viva-Voce	C	5

**CERTIFICATE IN TELUGU**

Code No.	Title of the Paper	Core	Credits
<b>SEMESTER I</b>			
TDL C341	Introduction to Telugu Language	C	3
TDL C342	Grammar	C	3
TDL C343	Translation	C	3

**CERTIFICATE IN MALAYALAM**

Code No.	Title of the Paper	Core	Credits
<b>SEMESTER I</b>			
TDL C525	Basic Malayalam	C	5
TDL C526	Basic Grammar	C	4

**SCHOOL OF SANSKRIT AND OTHER INDIAN LANGUAGES**

The Oriental Faculty of Comparative Philology with special reference to Arabic, Persian and Sanskrit was organized in the University under the headship of Dr. Mark Collins in 1914. The department was reorganized during 1927-30, to include Dravidian and Islamic Languages. The Sanskrit unit since then made huge strides in research and publishing in various aspects of Sanskrit Studies and in Sanskrit Catalogues Catalogorum. Now, the Department of Sanskrit offers Masters, M.Phil. and Ph.D. Programmes.

The Madras University started the Department of Hindi in April 1952 to make comparative studies between Hindi and other Indian Languages. The Department of Hindi offers Masters, M.Phil. and Ph.D. Programmes.

Arabic, Persian and Urdu department was started during the reorganization of the oriental faculty during 1930. The aim of Arabic, Persian and Urdu department was to redeem from obscurity the early literary works of outstanding merit in these languages. The Department now offers Masters, M.Phil. and Ph.D. programmes in Arabic and Urdu languages.

**Faculty**

Dr. K. Habeeb Ahmed, Ph.D

Chairperson

**Sanskrit**

Dr. C. Murugan Ph.D

Assistant Professor & Head i/c

**Hindi**

Dr. Chitti Annapurna, Ph.D

Professor & Head

Dr.P. Saraswathi

Assistant Professor

**Arabic, Persian and Urdu**

Dr. K. Habeeb Ahmed, Ph.D

Professor and Head

Dr. A. Jahir Hussain, Ph.D

Assistant Professor

Dr. M.B. Amanulla, Ph.D

Assistant Professor

**M.A. SANSKRIT**

Semester	Course Code	Title of the Course	Core/ Elective	Credits
I	SILC101	Prose & Prosody	Core	4
I	SILC102	Poetry - Naiṣadhīyacaritam	Core	4
I	SILC103	Invitation to Indian logic	Core	4
I	SILC104	Grammar I	Core	4
II	SILC105	SahityaDarpana	Core	4
II	SILC106	Drama	Core	4
II	SILC107	Vedāntasāra	Core	4
II	SILC108	Grammar II	Core	4
III	SILC119	Kavyaprakasa	Core	4
III	SILC110	NyayaSiddhantaMuktavali	Core	4
III	SILC111	Sankhya	Core	4
III	SILC112	The Karaka Theory	Core	4
IV	SILC113	The Theory of Compounding (Samasa)	Core	4
IV	SILC114	Yoga-Sutra	Core	4
IV	SILC115	Dhvanyaloka	Core	4
<b>ELECTIVE COURSES</b>				
I	SILE101	Raghuvamsam Canto I	Elective	3
I	SILE102	Introduction to Sanskrit I*	Elective	3
II	SILE103	Introduction to Sanskrit II*	Elective	3
II	SILE104	Bhagavadgita	Elective	3
II	SILE105	Grammar I A	Elective	3
III	SILE106	Introduction to Sanskrit III*	Elective	3
III	SILE107	Kathopanishad	Elective	3
III	SILE108	Mimamsa	Elective	3
III	SILE109	Vedanta Metaphysics	Elective	3
IV	SILE112	History of Sanskrit Literature	Elective	3
IV	SILE113	Paspasahnika of Mahabhashya	Elective	3
IV	SILE114	Introduction to Sanskrit IV*	Elective	3
<b>SOFT SKILL COURSES</b>				
	UOMS215	History of Classical Sanskrit Literature	Soft Skill	2
	UOMS088	Sanskrit for Beginners I	Soft Skill	2
	UOMS089	Sanskrit for Beginners II	Soft Skill	2
	UOMS090	Sanskrit for Beginners III	Soft Skill	2
	UOMS091	Sanskrit for Beginners IV	Soft Skill	2
	UOMS092	Hitopadeśa – <i>Mitralābha</i> - 3 Stories	Soft Skill	2
	UOMS093	Hitopadeśa – <i>Suhrdbheda</i> – 3 Stories	Soft Skill	2
	UOMS094	Hitopadeśa – <i>Vigraha</i> - 3 Stories	Soft Skill	2
	UOMS095	Hitopadeśa – <i>Sandhi</i> - 3 Stories	Soft Skill	2

**M.A. HINDI**

Course code	Title of the Course	C / E / S	Credits
<b>SEMESTER I</b>			
SIL C001	Modern Prose	<b>C</b>	<b>4</b>
SIL C002	Drama and one Act Play	<b>C</b>	<b>4</b>
SIL C003	History of Hindi Literature (upto Reethi Kaal)	<b>C</b>	<b>4</b>

SIL C004	History of Hindi Language	C	4
<b>SEMESTER II</b>			
SIL C005	Modern Poetry	C	4
SIL C006	History of Hindi Literature (Aadhunik Kaal)	C	4
SIL C007	General Linguistics	C	4
SIL C008	Translation : Theory and Practice	C	4
<b>SEMESTER III</b>			
SIL C009	Ancient Poetry	C	4
SIL C010	Medieval Poetry	C	4
SIL C011	Indian Poetics	C	4
SIL C012	Official Language Policy of Government of India	C	4
SIL C017	A Brief History of Dravidian Literature (Tamil, Telugu, Kannada and Malayalam)	C	4
<b>SEMESTER IV</b>			
SIL C013	Western Poetics	C	4
SIL C014	A Critical Study of Premchand : with Special Reference to Godan	C	4
SIL C015	Research Methodology	C	4
SIL C016	Project	C	4
SIL C018	Essay Writing	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
SIL E001	Hindi Grammar	I	E	3
SIL E002	Vyavaharik Hindi	I	E	3
SIL E003	Introduction to Dravidian Languages	I	E	3
SIL E012	Hindi Language for Beginners – I*	I	E	3
UOMS216	Spoken Hindi Skills	I	S	2
SIL E004	Prayojan moolak Hindi	II	E	3
SIL E005	Administrative Hindi	II	E	3
SIL E013	Comparative Studies in Literature and Linguistics	II	E	3
UOMS217	General Hindi Writing Skills	II	S	2
SIL E008	Journal Writing and Practice	III	E	3
SIL E009	Translation Practice	III	E	3
SIL E014	Journalism	III	E	3
UOM I001	Internship	III	I	2
UOMS098	Computational Skills in Hindi–Beginners I	III	S	2
SIL E010	Net-Slet – Paper II and III	IV	E	3
SIL E011	Vyavasayik hindi*	IV	E	3
UOMS182	Literary Writing Skills in Hindi	IV	S	2

*Note: For the students of the School or other Departments FUNDAMENTAL KNOWLEDGE IN HINDI IS ESSENTIAL)*

#### M.A. ARABIC

Course code	Title of the Course	C / E / S	Credits
<b>SEMESTER I</b>			
SIL C301	Studies in Grammar Paper I	C	4
SIL C302	Modern Prose	C	4
SIL C303	Modern Tafseer Literature	C	4

SIL C304	Arabic Linguistics	C	4
SEMESTER II			
SIL C305	Hadith Studies of 20th Century	C	4
SIL C306	Studies in Grammar Paper II	C	4
SIL C307	Drama and Novel	C	4
SIL C308	Literary Criticism	C	2
SEMESTER III			
SIL C309	Classical Prose	C	4
SIL C310	Classical Poetry	C	4
SIL C311	Translation Skills	C	4
UOMI001	Internship	I	2
SEMESTER IV			
SIL C312	Indian Writing in Arabic	C	4
SIL C313	Essay Writing	C	2
SIL C314	Travel Literature	C	2
SIL C315	Project work	C	6
SIL C316	Modern Poetry	C	4

ELECTIVE & SOFT SKILL COURSES			
Course Code	Title of the Course	C/E/S	Credit
SIL E301	Rhetoric	E	3
SIL E302	Short Stories	E	3
UOMS195	Communication Skill in Arabic-I	S	2
SIL E303	History of Classical Arabic Literature	E	3
SIL E304	Women's Writing in Arabic	E	3
UOMS196	Communication Skill in Arabic-II	S	2
SIL E305	History of Modern Arabic Literature	E	3
SIL E306	Functional Arabic	E	3
UOMS197	Commercial Arabic-I	S	2
UOM I001	Internship	I	2
SIL E307	Arabic Journalism	E	3
UOMS198	Commercial Arabic-II	S	2

### M.A. URDU

Course code	Title of the Course	C / E / S	Credits
SEMESTER I			
SIL C401	Gazal Aur Nazm	C	4
SIL C402	Dastan Aur Novel	C	4
SIL C403	Tarikh-e-Zaban Wa Adab-e-Urdu	C	4
SIL C404	Philology in Urdu	C	4
SEMESTER II			
SIL C405	Qasida Aur Rubai	C	4
SIL C406	Urdu Afsana Nigari	C	4
SIL C407	Arooz Aur Ilm-e-Badee	C	4
SIL C408	Urdu Journalism	C	2
SEMESTER III			
SIL C409	Mathnawi Aur Marthiya	C	4
SIL C410	Tanqueed	C	4

SIL C411	Inshayia Aur Maqala	C	4
SEMESTER IV			
SIL C412	Mass communication in Urdu	C	4
SIL C413	Literary Biographical Studies	C	2
SIL C414	Mazmoon Nawesi	C	2
SIL C415	Project work	C	6
SIL C416	Urdu Drama	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
SIL E401	Special Author-Hali / Abul Kalam Azad	I	E	3
SIL E402	Urdu Poets of Tamilnadu	I	E	3
UOMS100	Ibtidai Urdu –I	I	S	2
SIL E403	Tazkira Nawesi	II	E	3
SIL E404	Tarjuma Nigari	II	E	3
UOMS101	Ibtidai Urdu –II	II	S	2
SIL E405	Dakhni Literature	III	E	3
SIL E406	Persian Text	III	E	3
UOMS218	Ibtidai Urdu –III	III	S	2
UOM I001	Internship	III	I	2
SIL E407	Urdu Ki Adabi Tahreekath	IV	E	3
UOMS219	Ibtidai Urdu –IV	IV	S	2

#### M.Phil. HINDI

Course code	Title of the Course	C / E	Credit
I SEMESTER			
SIL C021	Research Methodology	C	5
SIL C022	Applied Methodology	C	5
SIL E021	Contemporary Hindi Prose	E	5
SIL E022	Contemporary Hindi Poetry	E	5
SIL E023	Medieval Hindi Literature	E	5
SIL E024	Reethi Hindi Literature	E	5
II SEMESTER			
SIL C023	Dissertation and Viva- Voce	C	21

#### M.Phil. ARABIC

Course code	Title of the Course	C / E	Credit
I SEMESTER			
SIL C321	Research Methodology	C	5
SIL C322	History of Arabic Literature: Classical / Modern	C	5
SIL E321	Advanced Grammar	E	5
SIL E322	Literary Biographical Studies	E	5
SIL E323	Arabic Literary Criticism	E	5
SIL E324	Translation : Theory and Practice	E	5
II SEMESTER			
SIL C323	Dissertation and Viva-Voc	C	21

**M.Phil. URDU**

Course code	Title of the Course	C / E	Credit
<b>I SEMESTER</b>			
SIL C421	Research Methodology	C	5
SIL C422	Regional History of Urdu Literature	C	5
SIL E421	Urdu Literary Criticism	E	5
SIL E422	Philology	E	5
SIL E423	Urdu Journalism	E	5
SIL E424	Translation : Theory and Practice	E	5
<b>II SEMESTER</b>			
SIL C423	Dissertation and Viva- Voce	C	21

**M.Phil. SANSKRIT**

Course code	Title of the Course	C / E	Credit
<b>I SEMESTER</b>			
SIL C131	Research Methodology	C	5
SIL C132	Indian Culture	C	5
SIL E131	Advaita & Nyaya	E	5
SIL E132	Visistadvaita & Dvaita	E	5
SIL E133	Alankarasastra	E	5
SIL E134	Grammar & Linguistics	E	5
SIL E135	Agamas	E	5
SIL E136	Paspasahnika	E	5
<b>II SEMESTER</b>			
SIL C133	Dissertation and Viva- Voce	C	21

**P.G. DIPLOMA IN FUNCTIONAL HINDI AND TRANSLATION**

Course code	Title of the Course	C/E	Credits
<b>I SEMESTER</b>			
SIL C001	Historical & Linguistic Study of Hindi Language	C	5
SIL C002	Vyavasyayik Hindi	C	4
<b>II SEMESTER</b>			
SIL C003	Administrative Hindi	C	5
SIL C004	Translation Theory	C	4
<b>III SEMESTER</b>			
SIL C005	Official Language policy of India	C	5
SIL C006	Computational skills in Hindi	C	4
<b>IV SEMESTER</b>			
SIL C007	Translation Practice	C	5
SIL C008	Project	C	4

**DIPLOMA IN HINDI**

Course code	Title of the Course	C/E	Credits
<b>I SEMESTER</b>			
SIL C001	Hindi Prose and Non-Detailed Study	C	5
SIL C002	Communicative and Creative Writing Skills	C	4
<b>II SEMESTER</b>			
SIL C003	Practical Hindi Grammar	C	5



SIL C004	Functional Hindi & Translation	C	4
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### Diploma in ARABIC

Course code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
SIL C331	Grammar	C	5
SIL C332	Prose	C	5
SIL E331	Translation	E	3
<b>II SEMESTER</b>			
SIL C333	Viva-Voce	C	5

### Diploma in URDU

Course code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
SIL C431	Grammar	C	5
SIL C432	Text	C	5
SIL E431	Composition & Translation	E	3
<b>II SEMESTER</b>			
SIL C433	Viva-Voce	C	5

### Certificate in ARABIC

Course code	Title of the Course	C/E	Credit
SIL C341	Grammar	C	3
SIL C342	Text	C	3
SIL C343	Translation & Composition	C	3

### Certificate in URDU

Course code	Title of the Course	C/E	Credit
SIL C441	Text & Grammar	C	3
SIL C442	Composition & Translation	C	3
SIL C443	Viva - Voce	C	3

### Certificate in YOGA

Course code	Title of the Course	C/E	Credits
SIL C151	Principles and Practice of Asana and Pranayama	C	5
SIL C152	Yoga Sutra and Basic Sanskrit	C	4

### Certificate in HINDI

Course code	Title of the Course	C/E	Credits
SIL C051	Introduction of Hindi Language and General Grammer	C	5
SIL C052	Spoken Hindi & Translation Practice	C	4

### SCHOOL OF EARTH AND ATMOSPHERIC SCIENCES

The School of Earth and Atmospheric Sciences (SEAS) comprises of three Departments namely Geology, Applied Geology, and Geography.

The Department of Geology was established in 1952. The Department of Geology was recognized by the University Grants Commission (UGC), which awarded Special Assistance Programme under DRS Level - I for the period 1994 to 1999. The Department was subsequently awarded Special Assistance Programme (Phase -II) by UGC was sanctioned Rs.30.2 lakhs for the period 2000 to 2005. As the Department had executed various multi- research and academic programmes most effectively, the UGC further awarded the COSIST (ASIST) Program (Phase -I) to the Department and sanctioned Rs.68 lakhs for Research and Developmental Programmes for the period 2001 to 2006.

The Department is also sponsored by DST through FIST Programme for 5 years from 2002 to 2007 and was sanctioned an amount of Rs.60 lakhs for Infrastructural Development.

The Department has been awarded DSA by University Grants Commission (UGC) and sanctioned an amount of Rs.56 lakhs for Research and Developmental Programmes for the period 2007 to 2012.

## **TEACHING & RESEARCH ACTIVITIES**

The Department of Geology is pursuing research in the fields of Micropaleontology, Igneous and Metamorphic Petrology, Sedimentology, Sedimentary Petrology, Marine Geochemistry and Ecology, Hydrogeology and Geology. The Department has also been sanctioned several research projects for its faculty from various funding agencies like UGC, DST, MOES, CSIR, INCOIS, etc.

The Department offers a two year (Four semesters) M.Sc Geology Programme and one year (Two Semester) M.Phil. Geology Programme. The Department also offers Full-time and Part-time Research Programmes leading to Ph.D. Degree in different specialized fields of Geology. The Department has produced a number of Ph.D. Degrees and the alumni of this Department are occupying eminent positions in National and International Universities, Institutes and Research organizations.

Recognizing the extensive consultancy potential of the Faculty of the Department, Organisations such as ONGC, Hardy Exploration and Production Inc & TAMIN have utilized the services of the Department through University Industry Community Interaction Cell (UICIC) of University of Madras. It is of immense delight that various International Research institutes are coming forward and approaching us for collaboration.

The Department of Applied Geology was established in the University of Madras in 1952 and has been functioning in the Maraimalai Campus. During the last six decades, the Department has made significant strides in academics and research. The Department has supervised more than 70 Ph.Ds, 10 M.Phils. and about 600 M.Sc. scholars and students in Applied Geology. Part-time Research scholars are from the following organizations: Public Works Department, Institute of Remote Sensing, Central Ground Water Board, Tamil Nadu Water Supply and Drainage Board, Tata Consultancy Services, Cognizant Techniques & Solutions, Hi-tech Diagnostic, Department of Geology and Mining, Institute of Water Studies, Tamil Nadu Minerals Limited, Neyveli Lignite Corporation Limited, National Remote Sensing Agency (NRSA, Hyderabad) and Zyllog Systems.

The Department has the facilities and infrastructure for carrying out petrological, sedimentological, micropaleontological, environmental geochemistry, groundwater targeting and contamination, hydrogeological, geophysical, oceanographic, paleoceanographic, paleoclimatic, geomorphological and coastal environmental investigations. The Department offers consultancy services for: (a) Delineation of potential zones of groundwater and groundwater assessment, well design and construction, demarcation of salt water-fresh water interface and river basin studies (b) Ore

reserve estimation and preparation of thin sections of minerals, rocks, fossils, and polished ores (c) Geological and geophysical investigations for civil engineering problems (d) Granite quality studies (e) Groundwater analysis (f) Rock, mineral and ore analysis (g) Environmental Impact Analysis, pollution studies (h) Processing and interpretation of geological/geophysical, geochemical and hydrogeological data and mathematical modeling and (i) Remote sensing and GIS applications to geological and environmental studies including integrated coastal zone management (ICZM) (j) Paleoenvironmental and tsunami modeling. Atomic Absorption Spectroscopic (AAS) instrument for heavy metal analysis facility is available in our Department. The Geological Museum of the Department is a treasure house for collections of rocks, minerals, fossils, etc. and has been visited by several schools in the city.

The Department of Geography at the Madras University is one of the oldest Departments in this country and celebrated its Golden Jubilee in the year 1983. The academic efforts received a great fillip in 1976 when the faculty was strengthened and new courses for M.Sc. Applied Geography was introduced. The department has periodically updated the curriculum.

The Department currently has academic programmes for M.Sc. and Ph.D. Degrees. The M.Sc. Applied Geography Programme is a very specialised one with heavy inputs on applied aspects of the discipline especially GIS, EIA and Remote Sensing. The success of the training imparted to the students is reflected in their ready absorption in jobs and in specialized programmer. From the academic year 2000-2001 onwards a new need based industry oriented programme viz. M.Sc. Spatial information Technology is offered in addition to the existing course. This course is to promote GIS technology and mapping science in our country. PG Diploma in GIS Management is yet another need based course offered as University - Industry and Community Interaction Centre (UICIC) programme. It is offered as an evening programme from the academic year 1999-2000 onwards. The Ph.D. programme is a specialised one with emphasis on socially relevant research such as agricultural and rural geography, watershed management, integrated area of planning marketing geography, urban and metropolitan problems, quantitative and spatial analysis in geography, social and area analysis, health care delivery systems and environmental problems.

The department is collaborating with the Botany, Zoology and Geology Departments in conducting inter-disciplinary courses. The courses are often designed in collaboration with the Statistics and Computer Science departments.

The Department has been assisting the State Planning Department, Ground Water Department of Tamil Nadu, Water Institute of Government of Tamil Nadu and Institute of Remote Sensing (Anna University) in research programmes and has developed good academic contacts with ISRO, Bangalore; NRSA, Hyderabad; Survey of India, Hyderabad Land and Survey Records of Tamil Nadu, Town and Country Planning of The Government of Tamil Nadu and CMDA, Chennai to name a few.

The Department has also been alive towards strengthening the teaching of geography in the affiliated colleges and to that end, has been organizing Refresher courses, Workshops and Curriculum Development Programmes.

### **Faculty**

Dr. R. Jaganathan, Ph.D

Chairperson

### **Geology**

Dr. Shaik Mohammed Hussain, Ph.D

Professor and Head

Dr. M. Suresh Gandhi, Ph.D

Professor

Dr. P. Saravanan, Ph.D

Assistant Professor

### **Applied Geology**

Dr. R.R. Krishnamurthy, Ph.D	Professor and Head
Dr. S.G.D. Sridhar, Ph.D	Professor
Dr. N. Rajeshwara Rao, Ph.D	Professor

**Geography**

Dr. R. Jaganathan, Ph.D	Professor & Head
Dr. M. Sakthivel, Ph.D (LIEN)	Professor
Dr. G. Bhaskaran, Ph.D	Professor
Dr. S. Sanjeevi Prasad, Ph.D	Assistant professor

**Centre for Natural Hazards and Disaster Studies**

Dr. R. Jaganathan, Ph.D	Professor & Head i/c
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**Centre for Environmental Sciences**

Dr. M. Suresh Gandhi, Ph.D	Professor & Head i/c
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**Centre for Water Resource Management**

Dr. G. Bhaskaran, Ph.D	Professor & Head i/c
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**Elective courses offer by the Center for Natural Hazards and Disaster Studies**

Course code	Title of the Course	Semester	Credits
EAS E601	Disaster and Management	First	3
EAS E602	Global Warming and Climate Change	Second	3

**Elective courses offer by the Center for Environmental Science**

Course code	Title of the Course	Semester	Credits
EAS E701	Environmental Sciences	First	3

**Elective courses offer by the Center for Water Resource Management**

Course code	Title of the Course	Semester	Credits
EAS E801	Remote Sensing & GIS for Water Resources	First	3
EAS E802	Urban Water Resource Management	Second	3

**M.Sc. GEOLOGY – REGULAR AND SELF-SUPPORTIVE**

Course Code	Title of the Course	C/ E/ S	Credits			
			L	T	P	C
<b>I SEMESTER</b>						
EAS C201	Stratigraphy and Sequence Stratigraphy	C	4	-	-	4
EAS C202	Advanced Paleontology	C	4	-	-	4
EAS C203	Paleontology and Structural Geology Practicals	C	-	-	4	4
<b>II SEMESTER</b>						
EAS C204	Advanced Igneous and Metamorphic Petrology	C	4	-	-	4
EAS C205	Sedimentology and Sedimentary Petrology	C	4	-	-	4
EAS C206	Mineralogy and Petrology Practicals	C	-	-	4	4
EAS C207	Geological Mapping	C				4
<b>III SEMESTER</b>						
EAS C208	Economic Geology and Mineral Exploration	C	4	-	-	4

EAS C209	Engineering Geology, Mining Geology and Geochemistry	C	4	-	-	4
EAS C210	Economic Geology, Mining Geology, Remote Sensing and GIS Practicals	C	-	-	4	4
UOMI001	Internship	I	-	-	-	2
<b>IV SEMESTER</b>						
EAS C211	Advanced Micropaleontology	C	4	-	-	4
EAS C212	Environmental Geology, Natural Hazards and Disaster Studies	C	4	-	-	4
EAS C213	Geological Oceanography	C	4	-	-	4
EAS C214	Micropaleontology and Geochemistry Practicals	C	-	-	4	4
EAS C215	Dissertation & Viva- Voce	C	-	-	-	6
EAS C216	Geological Instructional tour	C	-	-	-	2

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
EAS E201	General Geology & Geomorphology	I	E	3
EAS E 202	Structural Geology and Tectonics	I	E	3
	Human Values and Professional Ethics#	I	S	2
EAS E203	Mineralogy	II	E	3
EAS E204	Fuel Geology	II	E	3
UOMS102	Scientific Writings & Presentation Skills#	II	S	2
EAS E205	Remote sensing and G.I.S.	III	E	3
EAS E206	Geophysics*	III	E	3
EAS E207	Hydrogeology*	III	E	3
UOMI001	Internship	III	I	2
UOMS106	Ethics in Higher Education#	III	S	2
UOMS199	How to write a Better Thesis	IV	S	2

\* Electives offered for other Departments # Soft Skills offered within the School

**M.Sc. APPLIED GEOLOGY– REGULAR AND SELF-SUPPORTIVE**

Course Code	Title of the Course	C/E/S	Credits
<b>SEMESTER I</b>			
EAS C301	Physical Geology and Geomorphology	C	4
EAS C302	Mineralogy and Instrumentation Techniques	C	4
EAS C303	Mineralogy and Paleontology Practical	C	4
<b>SEMESTER II</b>			
EAS C304	Structural Geology and Geotectonics	C	4
EAS C305	Applied Remote Sensing and GIS	C	4
EAS C306	Field Mapping	C	2
EAS C307	Structural Geology and Geotectonics Practical	C	4
EAS C308	Petrology Practical	C	4
<b>SEMESTER III</b>			
EAS C309	Exploration Geophysics	C	4

EAS C310	Applied Hydrogeology	C	4
EAS C311	Geophysics and Applied Hydrogeology Practical	C	4
UOMI001	Internship	I	2
<b>SEMESTER IV</b>			
EAS C312	Applied Geochemistry	C	4
EAS C313	Engineering and Mining Geology	C	4
EAS C314	Engineering, Mining Geology and Geochemistry Practical	C	4
EAS C315	Geological Field Tour	C	2
EAS C316	Dissertation	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Sem	C/E/S	Credit
EAS E301	Stratigraphy of India and its application	I	E	3
EAS E302	Recent Trends in Paleontology (Optional)	I	E	3
UOMS108	Laws of Life	I	S	2
EAS E303	Applied Petrology (Mandatory)	II	E	3
EAS E304	Environmental Earth Science (Optional) (Optional)	II	E	3
UOMS204	Personality Development	II	S	2
EAS E305	Economic Geology (Mandatory)	III	E	3
EAS E306	Disaster Management (Optional)	III	E	3
UOM 1001	Internship (During Vacation at the end of First	III	I	2
UOMS109	Nuances of Scientific Writing	III	S	2
EAS E307	Oceanography and Climatology (Mandatory)	IV	E	3
UOMS110	Individual Social Responsibility	IV	S	2
EAS E312	Petroleum Exploration and Mudlogging	-	E	3

\* *Electives offered for other Departments*

# *Soft Skills offered within the School*

## DEPARTMENT OF GEOGRAPHY

### M.Sc. Applied Geography

Subject Code	Title of the Course	C/E/S/I	Credits			
			L	T	P	C
<b>I SEMESTER</b>						
EAS C001	Principles of Cartography	C	3	0	1	4
EAS C002	Applied Geomorphology	C	3	0	1	4
EAS C003	Applied Climatology	C	3	0	1	4
EAS C004	Practical-I Techniques of Mapping and Map Analysis	C	1	0	3	4
<b>II SEMESTER</b>						
EAS C005	Geographic Information System	C	3	0	1	4

EAS C006	Principles of Remote Sensing	C	3	0	1	4
EAS C007	Hydrology and Oceanography	C	3	1	0	4
EAS C008	Practical– II: Spatial Analysis - GIS lab	C	1	0	3	4
<b>III SEMESTER</b>						
EAS C010	Economic Geography and Public Policy	C	2	1	1	4
EAS C011	Urban Geography	C	3	1	0	4
EAS C012	Geographical Thought	C	3	1	0	4
EAS C013	Practical-III: Spatial Analysis - Remote Sensing lab	C	1	0	3	4
UOM I001	Internship	I	0	0	2	2
<b>IV SEMESTER</b>						
EAS C014	Research Methodology and Project Management	C	2	1	1	4
EAS C015	Field Work and Mapping	C	0	1	2	3
EAS C016	Project Work	C	0	1	5	6
<b>ELECTIVE COURSES</b>						
EAS E001	Geography of India and Planning	E	2	1	0	3
EAS E002	Population and Settlement Geography	E	2	1	0	3
EAS E003	Agricultural Geography	E	2	1	0	3
EAS E004	Climate change impacts and adaptation	E	2	1	0	3
EAS E005	Field work and Mapping	E	1	1	1	3
EAS E006	Social and Cultural Geography	E	2	1	0	3
EAS E007	Applications of Geospatial Technology in Humanities and Social Sciences	E	2	1	0	3
EAS E008	Geostatistics	E	2	0	1	3
EAS E009	Geography of Health Care and Wellbeing	E	2	0	1	3
EAS E010	Political Geography	E	2	1	0	3
EAS E011	Environmental Impact Assessment	E	2	0	1	3
EAS E012	Landscape Ecology and Management	E	2	1	0	3
EAS E013	Regional Development and Planning	E	2	1	0	3
EAS E014	Transportation Geography and Planning	E	2	0	1	3
EAS E015	Geographies of Crime and Justice	E	2	0	1	3
<b>SELF-STUDY COURSES</b>						
EAS SS001	Web Cartography and Spatial Information delivery	SS	2	1	0	3
EAS SS002	Microwave Remote Sensing	SS	2	1	0	3
EAS SS003	Micro - Climatic Studies	SS	2	1	0	3
EAS SS004	Sustainable Urban Land Management	SS	2	1	0	3
<b>SOFT SKILL COURSES</b>						
UOM S001	Communication and Presentation Skills	S	1	0	1	2
UOM S002	Technical Writing	S	1	0	1	2
UOM S003	Emotional Intelligence and Academic Performance	S	1	0	1	2
UOM S004	Decision Making and Logical Thinking Skills	S	1	0	1	2

**M.TECH. GEOINFOMATICS**

Subject Code	Title of the Course	C/E/S	Credits			
			L	T	P	C
<b>ISEMESTER</b>						
EAS C501	Principles of Cartography	C	3	0	1	4
EAS C502	Photogrammetry and Remote sensing	C	3	0	1	4
EAS C503	Practical-I: Modern Surveying	C	1	0	3	4
EAS C504	Practical-II: Photogrammetry and Remote sensing	C	1	0	3	4
<b>II SEMESTER</b>						
EAS C505	Geographical Information System	C	3	1	0	4
EAS C506	Geostatistics	C	2	1	1	4
EAS C507	Practical- III: Python and R Programming	C	2	0	2	4
EAS C508	Practical-IV: GIS (Spatial Analysis and WebGIS)	C	1	0	3	4
<b>III SEMESTER</b>						
EAS C509	Cloud Computing and GIS	C	3	0	1	4
EAS C510	Microwave Remote Sensing	C	3	0	1	4
EAS C511	Geospatial Artificial Intelligence	C	2	0	2	4
EAS C512	Practical-V: Spatial Big Data Analytics	C	2	0	2	4
UOM I001	Internship	I	0	0	2	2
<b>IV SEMESTER</b>						
EAS C513	Project Work	C	0	1	5	6
EAS C514	Research Methodology and Project Management*	C	2	1	1	4
EAS C515	Field Work	C	0	1	2	3
<b>ELECTIVE COURSES</b>						
		E	2	0	1	3
EAS E501	Principles of Spatial Database Design	E	2	0	1	3
EAS E502	Mobile Mapping and LBS	E	1	0	2	3
EAS E503	Field Survey Techniques (Field Work)	E	2	0	1	3
EAS E504	Spatial Data Science	E	1	0	2	3
EAS E505	Principles of Programming	E	2	0	1	3
EAS E506	Urban Geography and Planning	E	2	0	1	3
EAS E507	Geospatial Technology for EIA	E	2	0	1	3
EAS E508	Spatial Business Analytics	E	2	0	1	3
EAS E509	Regional Development and Planning	E	2	0	1	3
EAS E510	Geoinformatics for Watershed Management	E	2	0	1	3
EAS E511	Green Energy and Sustainability	E	2	0	1	3
EAS E512	Transportation Geography and Planning	E	2	0	1	3
<b>SOFT SKILL COURSES</b>						
UOM S001	Communication and Presentation Skills	S	1	0	1	2
UOM S002	Technical Writing	S	1	0	1	2
UOM S003	Emotional Intelligence and Academic Performance	S	1	0	1	2
UOM S004	Decision Making and Logical Thinking Skills	S	1	0	1	2

M.Phil. GEOLOGY



Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
EAS C231	Research Methodology in Geology	<b>C</b>	<b>5</b>
EAS C232	Recent Researches in Geology	<b>C</b>	<b>5</b>
EAS E231	Applied Micropaleontology	<b>E</b>	<b>5</b>
EAS E232	Advanced Igneous and Metamorphic Petrology	<b>E</b>	<b>5</b>
EAS E233	Applied Sedimentology and Sequence Stratigraphy	<b>E</b>	<b>4</b>
EAS E234	Environmental Geosciences	<b>E</b>	<b>4</b>
EAS E235	Applied Marine Geology	<b>E</b>	<b>4</b>
EAS E236	Petroleum Geology	<b>E</b>	<b>4</b>
EAS E237	Remote Sensing and GIS Application in Geosciences	<b>E</b>	<b>4</b>
<b>II SEMESTER</b>			
EAS C233	Dissertation and Viva- voce	<b>C</b>	<b>21</b>

### **P.G. DIPLOMA IN GEOSPATIAL DATA ANALYTICS**

Course Code	Name of the Courses	Credits
<b>First Semester</b>		
EASC 701	Cartography Techniques & Digital Mapping	<b>4</b>
EASC 702	Principles of Geospatial Technology	<b>4</b>
EASC 703	Fundamentals of Spatial Data Science	<b>4</b>
EASC 704	Practical – Geospatial Laboratory -I	<b>4</b>
<b>Second Semester</b>		
EASC 705	Application of Location and Image Analytics	<b>4</b>
EASC 706	Geostatistics & Spatial Intelligences	<b>4</b>
EASC 707	Practical – Geospatial Laboratory –II	<b>4</b>
EASC 708	Project: Spatial Analytics	<b>8</b>

### **SCHOOL OF CHEMICAL SCIENCES**

The School of Chemical Sciences comprises of Departments of Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Polymer Science and Energy. These departments were established in 1960, 1975, 1950, 1952 and 1983 respectively.

School of Chemical Sciences, University of Madras was established in 1973 when M.Phil Course common to Organic, Inorganic and Physical Chemistry was introduced. The Master of Science programme was introduced in 1976 wherein the first year students undergo a common chemistry programme and the students specialize in one of the areas of Chemistry in the second year: Physical Chemistry, Organic Chemistry and Inorganic Chemistry. Since 1987, the department of Analytical Chemistry also joined the School of Chemical Sciences and the teaching programme is conducted by admitting the students in all the four branches based on the performance of the students in the entrance examination.

In the School of Chemical Sciences teaching program is jointly organized by four departments, viz., Analytical Chemistry, Inorganic Chemistry, Organic Chemistry and Physical Chemistry. From the academic year 1975-76 the departments are conducting M.Sc & M.Phil. The Chairperson, School of Chemical Sciences coordinates the academic programme. The students of School of Chemical Sciences have been performing very well in the competitive examinations and are working in prestigious institutions in India and abroad.

The Department of Analytical chemistry was established in the 1960 as a research department under University of Madras. It is one of the unique departments in our country offering M.Sc. and Ph.D programs in Analytical Chemistry. Currently the department is awarded with UGC-SAP DRS-I program for thrust area of graphene related research. The Department is actively involved in research since its inception and has produced over 90 Ph.D scholars and numerous post-graduates and M.Phil students. The alumni of this department are rendering their services to premier academic institutions and industries across the world. The department specializes in the areas of Electrochemistry, Spectroscopy, Chemical Sensors, Catalysis, Coatings, Electroplating, Drug delivery systems, Biomineralization, Gas Sensors, Corrosion studies and Graphene based nanobiomaterials. The sophisticated instruments available in the department include UV- Vis Spectrophotometers, HPLC, FTIR, AAS, Chromatography, Ultrasonicator, Polishing machine, Nephelometer, Fluorometer, pH meter, Flame photometer, conductivity meter, Electrochemical workstations, Quartz crystal microbalance, Contact angle meter, Optical microscope with image analyser polarograph, Gas Chromatograph, Ion-analyzer, Corrosion monitoring system, Polishing Machine and Refractometer besides a Computation laboratory. The department regularly organizes National and International Conferences and Workshops, Seminars, Guest Lectures, Summer Internship for PG students and Camp for school students.

The Department of Inorganic Chemistry concentrates on research work in photochemistry, Coordination chemistry, bioinorganic chemistry, catalysis (chemosensors, nanomaterials, polymers) and laser chemistry. The facilities in the Department include spectrophotometers, fluorimeters, photochemical, electrochemical systems, flash photolysis spectrometer, Nd-YAG pumped laser flash photolysis spectrometer, excimer laser, time-correlated Single Photon Counting spectrometer, IR, UV-Visible, esr, gas chromatograph, cyclic voltammeter and pulse polarograph.

The Department of Organic Chemistry specializes in the fields of synthesis of heterocyclic compounds of pharmacological interest, (supramolecular chemistry and synthesis of organic nanomaterials), asymmetric synthesis, bio- organic and carbohydrate chemistry. The facilities of the department include (Bruker 300 MHz NMR and mass spectrometer, UV-vis spectrophotometer, FT IR, C,H,N elemental analyzer, GC, HPLC and Polarimeter. The staff of this department offer consultancy services in the synthesis of various types of industrially important organic compounds and structure solving assistance through spectra.

The department of Physical Chemistry specializes in homo- and hetero - multisite catalysts, triphase catalysis, synthesis, characterization and kinetics of polymerization, model enzyme reactions, electrocatalysis by metal complexes, electron transfer reactions, electrochemical studies on copper-halide interactions, ion-selective electrodes, SANS study of microemulsions, polymerization and oxidation reactions in microemulsion, synthesis, characterization and catalytic activity of anionic clays, sorption studies of surfactants on polymeric surfaces, electroanalytical oxygen evolution at oxide electrodes as in photo assisted splitting of water. Development of polymer-modified catalytic electrodes for detection of neurotransmitter enzymeless biosensors etc. The facilities of the department include gas chromatography Varian 3700 with data system (VISTA401), UV-visible SPECORD and TECHCOMP spectrophotometers, PAR-Cyclic voltammetric, spectrofluorimeter-AMINCO, FIBRE -SPINNING equipment, FTIR and GC-MS equipments, etc. The Department offers consultancy in areas like synthesis and characterization of polymers, environmental studies involving fluorosis, polymer-drug interactions, preparation and application of catalysts, development and applications of ion selective electrodes, polymer supported reagents, enzyme models, electrocatalysis, anionic clays, micro emulsions and enzymeless biosensors.

The Department of Physical Chemistry was established 1952 with specialized in research areas like homo- and hetero- multisite catalysts, triphase catalysis, synthesis, characterization and kinetics of polymerization, model enzyme reactions, electrocatalysis by meta complexes, electron transfer reactions, electrochemical studies on copper-halide interactions, ion-selective electrodes, SANS study of microemulsions, polymerization and oxidation reactions in microemulsion, synthesis,

characterization and catalytic activity of anionic clays, sorption studies of surfactants on polymeric surfaces, electroanalytical oxygen evolution at oxide electrodes as in photo assisted splitting of water, development of polymer-modified catalytic electrodes for detection of neurotransmitter enzymeless biosensors etc., The current facilities of the department includes gas chromatography Varian 3700 with data system (VISTA401), UV-visible SPECORD, TECHCOMP and UHI5300 spectrophotometers, Cyclic Voltammetric - PARSTAT 3000, CHI Instruments, Spectrofluorimeter- AMINCO, FIBRE – SPINNING equipment, FTIR AND GC-MS equipments, etc. Intention to offer Ph.D, M.Phil. and M.Sc courses in Physical Chemistry and thereby to generate potential human for teaching and research. Generally, we pay attention to conduct the research for the development of products through outstanding research that in turn useful to society in common. Furthermore, the department offers consultancy in areas like synthesis and characterizations of polymer, environmental studies involving fluorosis, polymer-drug interactions, preparation and application of catalysts, development and applications of ion selective electrodes, polymer supported reagents, enzyme models, electrocatalysis, anionic clays, microemulsions and enzymeless biosensors.

The intense specialization of the department on polymers has resulted in the creation of Department of Polymer Science in 1983. Keen research of this department pertains to synthesis of dendritic and hyper-branched polymers, Ziegler-Natta Polymerization, polyurethanes, polymer chemistry, modification of polymers, synthesis and characterization of new polymers and biopolymers. The sophisticated instrumental facilities and equipments of the department are: UV-Vis spectrophotometer, FT-IR spectrophotometer, computers, tensile testing machine, etc. The consultancy potential of the department exists in the areas of polyurethanes, polymer synthesis, polymer composites and metal containing Polymers.

The Department of Energy was established in 1983 to provide a knowledge base for the ever increasing energy needs and information on conventional and non-conventional energy sources and better utilization and conservation of the existing energy sources. The Department of energy is actively involved in research areas such as photocatalysis in presence of radiation matching the solar spectrum, fast reactions, visible light-assisted photoelectrochemistry, direct conversion of solar energy into photopotential and electricity, hydrogen fuel production from water and aqueous solutions, solid electrolytes and solid state batteries. The facilities of the department include UV and visible continuous photolysis setup, stopped flow spectrophotometer, UV- visible spectrophotometer, photochemical reaction assembly, high temperature furnaces, pelletizer, four probe conductivity setup, BAS 100A electrochemical analyser (USA), HP4284A Precision LCR meter.

### Faculty

Dr. A.K. Mohanakrishnan, Ph.D	Chairperson
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### Analytical Chemistry

Dr. K. Ravichandran, Ph.D	Professor and Head, Director i/c, IDE
Dr.T.M. Sridhar, Ph.D	Assistant Professor
Dr. Deepa P. Nambiar, Ph.D	Assistant professor
Dr. K.Venkatachalam, Ph.D	Assistant professor

### Inorganic Chemistry

Dr. K. Pandian, Ph.D	Professor and Head (COE)
Dr. A. Murugadoss, Ph.D	Assistant Professor

### Organic Chemistry

Dr. A.K. Mohanakrishnan, Ph.D	Professor & Head
Dr. K. Parthasarathy Ph.D	Assistant Professor
Dr. R. Anandan Ph.D	Assistant Professor

### Physical Chemistry

Dr. E.Murugan, Ph.D	Professor & Head
Dr. R.Sasikumar, Ph.D	Assistant Professor
Dr. S.Nehru, Ph.D	Assistant Professor
Dr. P.Prabhu, Ph.D	Assistant Professor

**Polymer Science**

Dr. A. Sultan Nasar, Ph.D	Professor
Dr. G. Harichandran, Ph.D	Associate Professor & Head i/c
Dr. N. Rajendiran, Ph.D	Associate Professor
Dr. G. Sankar, Ph.D	Assistant Professor

**Energy**

Dr. B. Muthuraaman, Ph.D	Assistant Professor & Head i/c
Dr.M.Balaji, Ph.D (on study leave)	Assistant Professor

**M.Sc. ANALYTICAL CHEMISTRY**

Course code	Title of the Course	C/E/S	Credits			
			L	T	P	C
<b>I SEMESTER</b>						
CHE C001	Fundamentals of Analytical Chemistry	C	3	0	0	3
CHE C101	Coordination and Nuclear Chemistry	C	3	0	0	3
CHE C201	Stereochemistry and Organic Reaction Mechanism	C	3	0	0	3
CHE C301	Thermodynamics, Electrochemistry and Chemical Kinetics	C	3	0	0	3
CHE C202	Organic Chemistry Practical – I	C	0	0	3	3
CHE C302	Physical Chemistry Practical – I	C	0	0	3	3
CHE C209	Name reaction, reagents and rearrangement in organic Chemistry	C	4	0	0	4
<b>II SEMESTER.</b>						
CHE C002	Analytical Instrumentation	C	3	0	0	3
CHE C102	Main Group Elements and Inorganic Polymers	C	3	0	0	3
CHE C203	Organic Reaction Mechanism	C	3	0	0	3
CHE C303	Quantum Chemistry and Group Theory	C	3	0	0	3
CHE C003	Analytical Chemistry Practical – I	C	0	0	3	3
CHE C103	Inorganic Chemistry Practical – I	C	0	0	3	3
<b>III SEMESTER</b>						
CHE C601	Physical Methods in Chemistry	C	4	0	0	4
CHE C004	Practical – Analysis of Complex Materials and Separation Techniques	C	0	0	3	3
CHE C005	Practical – Instrumental Methods	C	0	0	3	3
CHE C006	Optical and Surface Analytical Techniques	C	4	0	0	4
CHE C007	Separation Techniques	C	4	0	0	4
CHE C008	Project	C	0	0	6	6

<p><b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b></p>
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Course Code	Title of the Course	Semester	C/E/S	Credit
CHE E001	Electronics and Computers for Chemists	I	E	3
CHE E101	Inorganic Reaction Mechanism	I	E	3
CHE E201	Name Reactions in Organic Chemistry	I	E	3
UOMS147	Software packages for Chemists-MATLAB, ORIGIN AND CHEMDRAW	I	S	2
UOMS115	Lab Safety and First Aid	I	S	2
CHE E002	Analysis of Complex Materials	II	E	3
CHE E102	Nuclear Chemistry	II	E	3
CHE E202	Functional Group Transformation in Organic Chemistry	II	E	3
CHEE302	Macromolecular Chemistry	II	E	3
UOMS116	Fire Safety and Firefighting	II	S	2
CHE E003	Classical & Radio analytical Methods of Analysis	III	E	3
CHE E601	Biological Chemistry	III	E	3
UOMS117	Chemistry Databases-SciFinder, Mandeleef, Scopus, Web of Science and Google Scholar	III	S	2
UOMS118	Spectroscopy instrumentation		S	2
UOM I001	Internship	III	I	2
CHE E004	Electroanalytical Chemistry	IV	E	3
CHE E005	Introduction to Chromatographic Techniques	IV	E	3
CHE E006	Basic Electroanalytical Chemistry	IV	E	3
CHE E603	Novel Reagents in Organic Synthesis	IV	E	3
UOMS119	Glass Blowing Techniques	IV	S	2

\* Electives offered for other Departments # Soft Skills offered with the School

### M.Sc INORGANIC CHEMISTRY

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
CHE C001	Fundamentals of Analytical Chemistry	C	3
CHE C101	Coordination and Nuclear Chemistry	C	3
CHE C201	Stereochemistry and Organic Reaction Mechanism	C	3
CHE C301	Thermodynamics, Electrochemistry and Chemical Kinetics	C	3
CHE C202	Organic Chemistry Practical - I	C	3
CHE C302	Physical Chemistry Practical - I	C	3
CHE C209	Name reaction, reagents and rearrangement in organic Chemistry	C	3
<b>II SEMESTER</b>			
CHE C002	Analytical Instrumentation	C	3
CHE C102	Main Group Elements and Inorganic Polymers	C	3
CHE C203	Organic Reaction Mechanism	C	3
CHE C303	Quantum Chemistry and Group Theory	C	3
CHE C003	Analytical Chemistry Practical - I	C	3
CHE C103	Inorganic Chemistry Practical - I	C	3
CHE C510	Electrochemical Energy Device	C	4
<b>III SEMESTER</b>			
CHE C601	Physical Methods in Chemistry	C	4

CHE C104	Inorganic Chemistry Practical – II	C	3
CHE C105	Inorganic Chemistry Practical – III	C	3
<b>IV SEMESTER</b>			
CHE C106	Transition Metal Chemistry	C	4
CHE C107	Organometallic Chemistry	C	4
CHE C108	Project	C	6

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
CHE E001	Electronics and Computers for Chemists	I	E	3
CHE E101	Inorganic Reaction Mechanism	I	E	3
CHE E201	Name Reactions in Organic Chemistry	I	E	3
CHE E301	Essential of Statistical thermodynamics	I	E	3
UOMS147	Software packages for Chemists-MATLAB, ORIGIN AND CHEMDRAW	I	S	2
UOSM115	Lab Safety and First Aid	I	S	2
CHE E002	Analysis of Complex Materials	II	E	3
CHE E102	Nuclear Chemistry	II	E	3
CHE E202	Functional Group Transformation	II	E	3
CHE E302	Macromolecular Chemistry	II	E	3
UOMS116	Fire Safety and Firefighting	II	S	2
CHE E601	Biological Chemistry	III	E	3
CHE E602	Photochemistry and Nanomaterials	III	E	3
UOMS	Soft Skill	III	S	2
UOMS117	Chemistry Databases-SciFinder, Mandeleef, Scopus, Web of Science and Google Scholar	III	S	2
UOM S118	Spectroscopy instrumentation	III	S	2
UOMI001	Internship	III	I	2
CHE E603	Novel Reagents in Organic Synthesis	IV	E	3
CHE E004	Electroanalytical Chemistry	IV	E	3

\* *Electives offered for other Departments*

# *Soft Skills offered by the Department*

### M.Sc. ORGANIC CHEMISTRY

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
CHE C001	Fundamentals of Analytical Chemistry	C	3
CHE C101	Coordination and Nuclear Chemistry	C	3
CHE C201	Stereochemistry and Organic Reaction Mechanism	C	3
CHE C301	Thermodynamics, Electrochemistry and Chemical Kinetics	C	3
CHE C202	Organic Chemistry Practical - I	C	3
CHE C302	Physical Chemistry Practical - I	C	3

### SEMESTER II

CHE C002	Analytical Instrumentation	C	3
CHE C102	Main Group Elements and Inorganic Polymers	C	3
CHE C203	Organic Reaction Mechanism	C	3
CHE C303	Quantum Chemistry and Group Theory	C	3
CHE C003	Analytical Chemistry Practical – I	C	3
CHE C103	Inorganic Chemistry Practical – I	C	3
CHE C009	Chromatographic Techniques	C	4
<b>SEMESTER III</b>			
CHE C601	Physical Methods in Chemistry	C	4
CHE C204	Organic Chemistry Practical - II	C	3
CHE C205	Organic Chemistry Practical - III	C	3
<b>IV SEMESTER</b>			
CHE C206	Orbital Symmetry, Photochemistry and Non-conventional techniques in Organic Synthesis	C	4
CHE C207	Chemistry of Natural Products	C	4
CHE C208	Project / Dissertation	C	6

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Sem	C/E/S	Credit
CHE E001	Electronics and Computers for Chemists	I	E	3
CHE E101	Inorganic Reaction Mechanism	I	E	3
CHE E201	Name Reactions in Organic Chemistry	I	E	3
CHE E301	Essentials of Statistical thermodynamics	I	E	3
UOMS147	Software packages for Chemists-MATLAB, ORIGIN AND CHEMDRAW	I	S	2
UOMS115	Lab Safety and First Aid	I	S	2
CHE E002	Analysis of Complex Materials	II	E	3
CHE E102	Nuclear Chemistry	II	E	3
CHE E202	Functional Group Transformation	II	E	3
CHE E302	Macromolecular Chemistry	II	E	3
UOMS116	Fire Safety and Firefighting	II	S	2
CHE E601	Biological Chemistry	III	E	3
CHE E604	Chemistry of Heterocycles, Organolithium and Asymmetric synthesis	III	E	3
PHY E008	Fundamentals of Molecular Spectroscopy	III	E	3
UOMS117	Chemistry Databases-SciFinder, Mandeleef, Scopus, Web of Science and Google Scholar	III	S	2
UOMS118	Spectroscopy instrumentation	III	S	2
UOM I001	Internship	III	I	2
CHE E203	Structural Organic Chemistry	IV	E	3
CHE E204	Modern Synthetic Methodology and Spectrometric Identification of Organic Compounds	IV	E	3
CHE E603	Novel Reagents in Organic Synthesis	IV	E	3
UOMS119	Glass Blowing Techniques	IV	S	2

\* *Electives offered for other Departments*

# *Soft Skills offered by the Department*

### M.Sc. PHYSICAL CHEMISTRY

Course Code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
CHE C001	Fundamentals of Analytical Chemistry	C	3
CHE C101	Coordination and Nuclear Chemistry	C	3
CHE C201	Stereochemistry and Organic Reaction Mechanism	C	3
CHE C301	Thermodynamics, Electrochemistry and Chemical Kinetics	C	3
CHE C202	Organic Chemistry Practical - I	C	3
CHE C302	Physical Chemistry Practical - I	C	3
CHE C209	Name reaction, reagents and rearrangement in organic Chemistry	C	4
<b>II SEMESTER</b>			
CHE C002	Analytical Instrumentation	C	3
CHE C102	Main Group Elements and Inorganic Polymers	C	3
CHE C203	Organic Reaction Mechanism	C	3
CHE C303	Quantum Chemistry and Group Theory	C	3
CHE C003	Analytical Chemistry Practical – I	C	3
CHE C103	Inorganic Chemistry Practical – I	C	3
<b>III SEMESTER</b>			
CHE C601	Physical Methods in Chemistry	C	4
CHE C304	Physical Chemistry Practical – II	C	3
CHE C305	Physical Chemistry Practical – III	C	3
CHE C309	Advanced materials for catalysis and drug delivery applications	C	4
CHE C510	Electrochemical Energy Device	C	4
<b>IV SEMESTER</b>			
CHE C306	Advanced Thermodynamics and Kinetics of Chemical Reactions and Electrochemistry	C	4
CHE C307	Quantum Chemistry and Macromolecules	C	4
CHE C308	Project	C	6

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>			
Course Code	Title of the Course	C/E /S	Credit
CHE E001	Electronics and Computers for Chemists	E	3
CHE E101	Inorganic Reaction Mechanism	E	3
CHE E201	Name Reactions in Organic Chemistry	E	3
CHE E301	Essentials of Statistical Thermodynamics	E	3
UOMS147	Software packages for Chemists-MATLAB, ORIGIN AND CHEMDRAW	S	2
CHE E002	Analysis of Complex Materials	E	3
CHE E102	Nuclear Chemistry	E	3
CHE E202	Functional Group Transformation in Organic Chemistry	E	3
CHE E302	Macromolecular Chemistry-I	E	3
UOMS116	Fire Safety and Firefighting	S	2
CHE E601	Biological Chemistry	E	3
CHE E602	Photochemistry and Nanomaterials	E	3
	Elective (from other school)	E	3
UOMS117	Chemistry Databases-SciFinder, Mandeleef, Scopus, Web of Science and Google Scholar	S	2
UOMS118	Spectroscopy instrumentation	S	2
UOM I001	Internship	I	2
CHE E004	Electro Analytical Chemistry	E	3



CHE E603	Novel Reagents in Organic Synthesis	E	3
UOMS119	Glass Blowing Techniques	S	2
CHE E303	Macromolecular Chemistry-II	E	3

\* Electives offered for other Departments # Soft Skills offered by the Department

### M.Sc. CHEMISTRY (POLYMER CHEMISTRY)

Course Code	Title of the Course	C/E/S/I	Cr.
I SEMESTER			
CHE C 401	Structure and Bonding	C	4
CHE C 402	Reaction mechanism and Stereochemistry	C	4
CHE C 403	Chemical kinetics and Electrochemistry	C	4
CHE C 404	Chemistry Practicals –I	C	4
II SEMESTER			
CHE C 405	Coordination chemistry	C	4
CHE C 406	Reaction mechanism, Rearrangements, Name reactions, Oxidation and Reduction Reactions	C	4
CHE C 407	Quantum chemistry and Analytical techniques	C	4
CHE C 408	Chemistry Practicals – II	C	4
III SEMESTER			
CHE C 409	Inorganic photochemistry, Spectroscopy and Organometallics	C	4
CHE C 410	Spectroscopy, Spectrometry and their applications	C	4
CHE C 411	Thermodynamics and Group theory	C	4
CHE C 412	Polymer Practicals	C	4
IV SEMESTER			
CHE C 413	Photochemistry, Pericyclic reactions, Heterocycles and Natural products	C	4
CHE C 414	Plastics and Rubber technology	C	4
CHE C 415	Project	C	6

### ELECTIVE, SOFT SKILL & INTERNSHIP COURSES OFFERED FOR THE DEPARTMENT/SCHOOL

Course Code	Title of the Course	Sem	E/S/I	Cr.
CHE E401	Polymers chemistry (mandatory elective)	I	E	3
CHE E402	Reagents in Organic Synthesis	I	E	3
UOM S121	Excel & Origin Software for Chemist	I	S	2
CHE E403	Physical Chemistry of Polymers (mandatory elective)	II	E	3
CHE E404	Molecular Spectroscopy	II	E	3
UOMS209	Polymer Testing and Characterization	II	S	2
CHE E405	Polymer physics (mandatory elective)	III	E	3
CHE E406	Specialitypolymers	III	E	3
	Course may be chosen from SWAYAM/NPTEL portals at appropriate time	III	S	2
UOM I001	Internship – Industrial training	III	I	2
CHE E407	Applied Polymer Science (mandatory elective)	IV	E	3
UOM S122	Chemwindow software	IV	S	2

**M.Sc. ENERGY AND MATERIALS SCIENCE**

Course Code	Title of the Course	C / E	Credits
<b>I SEMESTER</b>			
CHE C501	Fundamentals of Energy Science	C	4
CHE C502	Conventional and Renewable Energy	C	4
CHE C503	Physics of Materials	C	4
CHE C504	Energy Lab - I	C	4
<b>II SEMESTER</b>			
CHE C505	Chemical Principles of Energy Conversion Processes	C	4
CHE C506	Solar Energy Materials	C	4
CHE C507	Principles of Thermal Energy Storage	C	4
CHE C508	Energy Lab - II	C	4
<b>III SEMESTER</b>			
CHE C509	Elements of Wind Energy	C	4
CHE C510	Electrochemical Energy Devices	C	4
CHE C511	Energy Lab - III	C	4
<b>IV SEMESTER</b>			
CHE C512	Energy from Nuclear Fission and Fusion	C	4
CHE C513	Fuel Cell Technology	C	4
CHE C514	Research Project	C	8

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>				
Course Code	Title of the Course	Sem	C/E/S	Credit
CHE E501	Basics of Energy Storage	I	E	3
CHE E502	Solid State Ionic Materials	I	E	3
	Soft Skill	I	S	2
CHE E503	Energy Conversion Phenomena	II	E	3
CHE E504	Biomass Energy Production	II	E	3
	Soft Skill	II	S	2
CHE E505	Advances in Solar Cells	II	E	3
	Soft Skill	III	S	2
UOM I001	Internship	III	I	2
CHE E507	Energy and Environment	IV	E	3
	Soft Skill	IV	S	2
CHE E508	Introduction to Semiconductors and its applications		E	3
CHE E509	Photovoltaics for Energy Production*		E	3

**M.Phil. ANALYTICAL CHEMISTRY**

Course Code	Title of the Course	C / E	Credit
<b>I SEMESTER</b>			
CHE C121	Research Methodology	C	5
CHE C122	Analytical Techniques and Instrumentation - I	C	5
CHE C123	Analytical Techniques and Instrumentation - II	C	5
<b>II SEMESTER</b>			
CHE C124	Dissertation and Viva-voce	C	21

### M.Phil. INORGANIC CHEMISTRY

Course Code	Title of the Course	C / E	Credit
<b>I SEMESTER</b>			
CHE C221	Advanced Inorganic Chemistry	C	5
CHE C222	Advanced Organic Chemistry	C	5
CHE C223	Advanced Physical Chemistry	C	5
<b>II SEMESTER</b>			
CHE C224	Dissertation and Viva-voce	C	21

### M.Phil. ORGANIC CHEMISTRY

Course Code	Title of the Course	C / E	Credit
<b>I SEMESTER</b>			
CHE C321	Advanced Inorganic Chemistry	C	5
CHE C322	Advanced Organic Chemistry	C	5
CHE C323	Advanced Physical Chemistry	C	5
<b>II SEMESTER</b>			
CHE C324	Dissertation and Viva-voce	C	21

### M.Phil. PHYSICAL CHEMISTRY

Course Code	Title of the Course	C / E	Credit
<b>I SEMESTER</b>			
CHE C421	Advanced Inorganic Chemistry	C	5
CHE C422	Advanced Organic Chemistry	C	5
CHE C423	Advanced Physical Chemistry	C	5
<b>II SEMESTER</b>			
CHE C424	Dissertation and Viva- voce	C	21

### CERTIFICATE COURSE IN CLASSICAL ANALYSIS AND BASIC ANALYTICAL INSTRUMENTATION TECHNIQUES (Self-Supportive mode)

Course Code	Title of the Course	L	T	P	C
CHEC 601	Classical Analysis and Basic Analytical Instrumentation	2	1	0	3
CHEC 602	Classical Analytical Chemistry Practical -I	0	0	3	3
CHEC 603	Analytical Instrumentation Practical -II	0	0	3	3
TOTAL					9

### SCHOOL OF PHYSICAL SCIENCES

The School of Physical Sciences comprises of the Centre of Advance study in Crystallography and Biophysics, the Department of Nuclear Physics, the Department of Theoretical Physics and the Central Instrumentation and Service Laboratory.

#### CAS in Crystallography and Biophysics

The Department of Crystallography and Biophysics was founded in 1952 with Prof. G.N Ramachandran, F.R.S., as the Head. His genius guided the Department in its early years and lead to several pioneering discoveries. The Department is the home of the Triple Helical Structure of Collagen and the famous Ramachandran plot for the protein structure. In keeping with this great tradition,

significant contributions to contemporary research topics continue to be made by the present faculty. The research theme of the faculty continues to be Structural Biology -Viz, (i) to elucidate the structure - function relationship of biological systems with special emphasis on biopolymers; and (ii) the development of methodologies for structural characterization of biomolecules. Faculty members are involved in research on structure and function of biological molecules including proteins, peptides, nucleic acids, drug molecules etc. Methods used include theoretical and computational studies, computer modeling, X-ray crystallography, NMR spectroscopy and other biophysical techniques. Research is also carried out on the development of crystallographic structure solution methods. Since its inception the department has published 1335 research papers and 22 books and volumes. The Department has hosted about 12 International conferences and about 45 at the National Level. A large number of distinguished scientists from India and abroad including more than 30 Nobel Laureates have visited the Department. Right from the beginning the University Grants Commission has been supporting the research activities of the Department generously through grants under CAS, SAP and COSIST programmes. The Department of Science and Technology has recognized this Department for assistance under FIST Programme (Level II). The Department has recently been upgraded to the status of 'Centre of Advanced Study' from April 2007.

The Department conducts a two year M. Sc. (Biophysics) course besides the Ph.D. programme. The sophisticated equipment of the department include single crystal X-ray Diffractometer, IR and UV visible spectrophotometers, ultracentrifuge, HPLC, several SGI workstations and a large number of PCs. A modern biochemical laboratory with state-of-the art equipment is also available. With DBT's massive support of `2.53 Crores, a modern x'ray data collection facility for macromolecules is also available.

### **Department of Nuclear Physics**

The Department of Nuclear Physics was founded in the year 1969. The Department received UGC funding for teaching and research activities under COSIST (ten years), UGC-SAP (fifteen years) and recently under the FIST programme of DST(five years).

The Department of Nuclear Physics offers independent M.Sc.Physics (since1977), M.Phil. Physics and Ph.D.Programmes. The research activities of the department concentrate broadly on Condensed Matter Physics involving Accelerator-based material modification Crystal Structure analysis, Computational electromagnetism, Materials for magnetic, optical, semiconducting, dielectric, photocatalytic, energy and environmental applications. Expertise is available in Nanomaterial Synthesis, Mössbauer Spectroscopy, Positron Annihilation Spectroscopy, X-Ray Diffraction, Electrodeposition, High-Pressure Synthesis, Laser surface modification, Electron Momentum Distribution, Thermal Analysis and Ion-Implantation. The department has a separate Library and a Computer Laboratory for students and scholars with Comsol Multiphysics modules. Material preparation and characterization facilities like Microwave and Silicon carbide furnaces, Positron Angular Correlation Setup, Four-Probe Resistivity Setup, Impedance Analyser, Metallurgical Optical Microscope with Vicker's Indenter, Moessbauer Spectrometer, Thermal Analysis Facility, Vibrating Sample Magnetometer, Thermoelectric power station and X-ray Powder Diffractometer are available. The department also has a Workshop with Lathe, Drilling, Milling and Grinding facilities. The PG curriculum is framed to cover the NET/SLET syllabus in Physics and to give an exposure to the students in Advanced Experimental Techniques related to state-of-the-art research areas. The research output of the department has led to more than 200 publications in International Journals, in the last five years.

### **Department of Theoretical Physics**

The Department of Theoretical Physics was founded in the year 1964. The Department of Theoretical Physics and the Department of Nuclear Physics had jointly received UGC funding for their teaching and research activities under COSIST programmes for ten years. From the academic

year 2011-12, the department has been offering M.Sc. Physics course independently. The number of students admitted for the M.Sc. Course is 20. The department also offers M.Phil in Theoretical Physics and Ph.D. Programmes. The department has a High Performance Computing Centre with numerous computational codes. The avenues of physics in which research programmes are pursued includes, 1) Ab initio studies in a) Transition metal doped semiconductors, b) Binary and Pseudo Binary Intermetallics, c) Shape Memory Alloys, 2) Properties of Layered Structures – Graphene, 3) High Tc Superconductors, 4) Quaternary Semiconductors, 5) Quantum confinements in nano semiconductors, 6) Quantum Optics, 7) DFT calculations on DSSC along with experimental work to develop a suitable material to meet the growing energy demand and 8) Constrained systems (Field Theory). The department has a well equipped library with over thousand books including rare collections in Theoretical Physics along with the latest advances in Physics. The department has Net worked computation facility, independent Wi-Fi connection and e-resources.

### **Central Instrumentation and Service Laboratory**

The University Grants Commission has established centres for providing instrumentation and engineering service facilities to scientific research as well as for promoting R& D in Instrumentation Technology in several Universities in the country since 1976. One such centre was established in 1976 in Madras University as the Central Instrumentation and Service Laboratory (CISL) and later upgraded as the University Science Instrumentation Centre (USIC) in 1980. This Centre maintains sophisticated scientific instruments and has been involved in conducting training programs to the faculty as well as the technical staff as per UGC guidelines in addition to the regular R & D work. To develop research aptitude in Instrumentation, an M.Phil Course on Scientific Instrumentation is being conducted since 1984 and also Ph.D programmes are offered since 1977 in various aspects of Instrumentation. Several University Departments as well as Colleges have made use of this Centre for their research work. The M.Sc., Electronics Science course is conducted jointly by this department and the Departments of Nuclear Physics & Theoretical Physics.

The Centre has an Electronic testing wing for the testing and servicing of all Electronic/ Scientific Instruments and has facility and expertise for the development of advanced circuit designs for various instrumentation applications. In addition to this, a well-equipped Instrument fabrication workshop is available. Liquid Nitrogen Plant is available in this Centre, which has been supplying liquid nitrogen for conducting the low temperature studies and specimen preservation.

The Department has carried out research, in collaboration with several agencies such as the C.L.R.I., C.S.I.O., C.S.E.R.I., and local hospitals, in several areas of Instrumentation including Scientific Instrumentation, Instrumentation for Tannery Effluent treatment and medical diagnostics. As evidence of research contribution, several research papers as well as technical articles have been published in refereed journals on various aspects of instrumentation.

### **DEPARTMENT OF NETWORK SYSTEMS AND INFORMATION TECHNOLOGY**

This Department was established by University Grants Commission in the year 2014. From the academic year 2019-20, the department has been offering M.Sc. Information Technology with specialization in Network Systems course (Self-Supportive). The number of students admitted for the M.Sc. Course is 20. The department also offers M.Phil. (2015-2016 onwards) and Ph.D. Programs (from July 2014). This department is currently engaging with R & D activities in the areas of Advanced Communication Technology, Wireless Network security and Wireless Sensor Networks, Telemetry applications etc.

#### **Faculty**

Dr. C. Venkateswaran, Ph. D

Chairperson

### CAS in Crystallography and Biophysics

Dr. P. Karthe, Ph.D	Professor & Head
Dr. K. Gunasekaran, Ph.D	Assistant Professor
Dr. V.Rajakannan, Ph.D	Assistant Professor
Dr. D.Gayathri, Ph.D	Assistant Professor
Dr. Preethi Ragunathan, Ph.D	Assistant Professor
Dr. K.Gugan, Ph.D	Assistant Professor
Dr. N. R. Sasirekha, Ph.D	Assistant Professor
Dr. P. Rajashree, Ph.D	Assistant Professor

### Nuclear Physics

Dr. C. Venkateswaran, Ph. D	Professor and Head
Dr. G. Anbalagan, Ph.D	Professor
Dr. A. Stephen, Ph.D	Professor
Dr. K. Ravichandran, Ph.D	Associate Professor
Dr. J. Senthil Selvan, Ph.D	Assistant Professor

### Theoretical Physics

Dr. Rita John, Ph.D	Professor & Head
Dr. A.S. Vytheswaran, Ph.D	Assistant Professor
Dr. R. Radhakrishnan, Ph.D	Assistant Professor
Dr. G. Gnana Sangeetha Ph.D	Assistant Professor
Dr. M. Rajalakshmi Ph.D	Assistant Professor

### Central Instrumentation and Service Laboratory [University Scientific Instrumentation Centre]

Dr. D. Nedumaran, Ph.D	Professor & Head
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### Network Systems and Information Technology

Dr. P. Thangavel, Ph.D.	Professor & Head i/c
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### Material Science

Dr. G. Anbalagan, Ph.D.	Professor and Head i/c
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### CENTRAL INSTRUMENTATION AND SERVICE LABORATORY

#### ELECTIVE COURSES OFFERED TO M.Sc. PROGRAMMES

Course code	Title of the Course	C/E	Credits			
			L	T	P	C
<b>I SEMESTER</b>						
PHY E222	Biomedical Instrumentation	E	2	1	0	3
<b>II SEMESTER</b>						
PHY E223	Digital Signal and Image Processing	E	2	1	0	3

### CENTRE FOR ADVANCED STUDIES IN CRYSTALLOGRAPHY & BIOPHYSICS M.Sc. BIOPHYSICS

Course code	Title of the Course	C/E	Credits			
			L	T	P	C
<b>I SEMESTER</b>						
PHY C001	Elementary Crystallography	C	3	1	0	4
PHY C002	Principles of Macromolecular Structure & Function	C	4	0	0	4
PHY C003	Mathematics for Biophysics	C	4	0	0	4
PHY C004	Cell Biology	C	3	1	0	4

PHY C005	Macromolecular Structure & Function (Theory & Practice)	C	0	2	2	4
<b>II SEMESTER</b>						
PHY C006	Principles and Applications of Spectroscopy to Biomolecules	C	3	1	0	4
PHY C007	Physical Studies of Macro-molecules in Solution	C	3	1	0	4
PHY C008	Molecular Biology of the Gene	C	3	1	0	4
PHY C013	Biophysics of the Immune System	C	3	1	0	4
<b>III SEMESTER</b>						
PHY C009	Three Dimensional Structure Determination of Drug Molecules	C	3	1	0	4
PHY C010	Seminars in Biophysics	C	0	4	0	4
PHY C011	Macromolecular Crystallography	C	3	1	0	4
PHY C012	Crystallography Laboratory	C	0	0	4	4
<b>IV SEMESTER</b>						
PHY C014	Project Work	C	0	0	4	4
PHY C015	Biophysics Laboratory	C	0	0	4	4

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
PHY E001	Computational Biology*	I	E	3
PHY E002	Molecules and Medicine*	I	E	3
PHY E009	Principles and Applications of Biocatalysts and Heterogeneous Catalysis*	I	E	3
UOMS123	Art of Reading Research articles	I	S	2
CHE E401	Introduction to Polymer	II	E	3
PHY E003	Basic Structural Biology	II	E	3
PHY E004	Basics of Molecular Virology*	II	E	3
PHY E013	Biophysical Chemistry	II	E	3
PHY E 014	Bio-molecular Nano-mechanics	II	E	3
PHY E005	Introduction to Chemoinformatics and Computer aided Drug Design*	II	E	3
	Soft Skill	II	S	2
PHY E006	Proteins and Proteomics*	III	E	3
PHY E011	Systems Biology*	III	E	3
PHY E008	Fundamentals of Molecular Spectroscopy*	III	E	3
	Soft Skill	III	S	2
UOM I001	Internship	III	I	2
PHY E015	Introduction to Enzyme Catalysis	III	E	3
UOMS223	Essential Skills for Research Laboratory	III	S	2
PHY E007	Membrane Biophysics & Neuro Biophysics	IV	E	3
PHY E012	Protein Purification and Characterization*	IV	E	3
	SOFT SKILL			

\* *Electives offered for other Departments*

**Soft skill Courses** Currently the department is **not offering** any Soft skill Courses. However, following courses have been identified from the online portals.

S.No	Course Name	Semester
1	Writing in the Sciences - <a href="https://www.coursera.org/learn/sciwrite">https://www.coursera.org/learn/sciwrite</a> - <u>By Stanford University</u>	I, II, III & IV (Any 4 Courses)
2	English for Science, Technology, Engineering, and Mathematics- <a href="https://www.coursera.org/learn/stem">https://www.coursera.org/learn/stem</a> <u>By University of Pennsylvania</u>	
3	Astrobiology and the Search for Extraterrestrial Life - <a href="https://www.coursera.org/learn/astrobiology#syllabus">https://www.coursera.org/learn/astrobiology#syllabus</a> <u>By The University of Edinburgh</u>	
4	Biological Bases of Behaviour- <a href="http://nptel.ac.in/courses/109104029/">http://nptel.ac.in/courses/109104029/</a>	
5	Patent Drafting for Beginners - <a href="http://nptel.ac.in/courses/109106128/1">http://nptel.ac.in/courses/109106128/1</a>	
6	Health Research fundamentals - <a href="http://nptel.ac.in/courses/109106095/">http://nptel.ac.in/courses/109106095/</a>	
7	“Biology for Engineers and other Non-Biologists” - <a href="http://nptel.ac.in/courses/121106008/">http://nptel.ac.in/courses/121106008/</a>	
8	Lab Safety: The Interactive Game of "Don't Endanger the Owls" - <a href="https://www.edx.org/course/lab-safety-interactive-game-dont-ricex-labsafety-1x-0">https://www.edx.org/course/lab-safety-interactive-game-dont-ricex-labsafety-1x-0</a>	
9	Biospecimen Research Methods <a href="https://www.edx.org/course/biospecimen-research-methods-ubcx-biobank1x-2">https://www.edx.org/course/biospecimen-research-methods-ubcx-biobank1x-2</a>	
10	Introduction to Bioethics - <a href="https://www.edx.org/course/introduction-bioethics-georgetownx-phlx-101x">https://www.edx.org/course/introduction-bioethics-georgetownx-phlx-101x</a>	
Total Credits for Soft Skill Courses		<b>08</b>

## DEPARTMENT OF NUCLEAR PHYSICS

### M.Sc. PHYSICS

Course code	Title of the course	C/ E	Credits			
			L	T	P	C
<b>SEMESTER I</b>						
PHY C101	Mathematical Physics	C	3	1	0	4
PHY C102	Electronic Devices and Circuits	C	3	1	0	4
PHY C103	Classical Mechanics	C	3	1	0	4
PHY C104	Practical - I – General Physics	C	0	0	4	4
<b>SEMESTER II</b>						
PHY C105	Molecular Physics and Spectroscopy	C	3	1	0	4
PHY C106	Quantum Mechanics - I	C	3	1	0	4
PHY C107	Electromagnetic Theory	C	3	1	0	4
PHY C108	Practical - II - Nuclear Physics & Optical Physics	C	0	0	4	4
<b>SEMESTER III</b>						
PHY C109	Quantum Mechanics – II	C	3	1	0	4
PHY C110	Statistical Physics	C	3	1	0	4
PHY C111	Nuclear Physics & Elementary Particle Physics	C	3	1	0	4
PHY C112	Condensed Matter Physics	C	3	1	0	4
<b>SEMESTER IV</b>						
PHYC113	Materials Physics	C	3	1	0	4
PHY C114	Computational Techniques & Programming	C	3	1	0	4



PHY C115	Project and Viva-voce	C	0	0	6	6
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<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
<b>Course Code</b>	<b>Title of the Course</b>	<b>Semester</b>	<b>C/E/S</b>	<b>Credit</b>
PHY E101	Laser, Nonlinear Optics & Integrated Optics	I	E	3
PHY E102	Nuclear Detectors and Techniques	I	E	3
PHY E103	Mobile Communication	I	E	3
UOMS185	Error Analysis for Physical Sciences	I	S	2
PHY E105	Radiological Safety Aspects	II	E	3
PHY E106	Nuclear Materials	II	E	3
UOMS184	Scientific Writing and Enhancing Professional	II	S	2
UOM I001	Internship	II	I	2
PHY E107	Physics of Thin Films and Device Fabrication	III	E	3
PHY E108	Introduction to Spintronics	III	E	3
PHY E109	Materials Characterization	III	E	3
	Soft Skill	III	S	2
PHY E111	Reactor Physics	IV	E	3
PHY E112	Physics of Nano Materials and Structures	IV	E	3
	Soft Skill	IV	S	2

## DEPARTMENT OF THEORETICAL PHYSICS

### M.Sc. PHYSICS

<b>Course Code</b>	<b>Title of the Course</b>	<b>C/E/S</b>	<b>Credit</b>
<b>I SEMESTER</b>			
PHY C301	Mathematical Physics	C	4
PHY C302	Electronics	C	4
PHY C303	Classical Mechanics	C	4
PHY C304	General Practical - I	C	4
<b>II SEMESTER</b>			
PHY C305	Numerical Methods & Computer Programming	C	4
PHY C306	Electromagnetic Theory	C	4
PHY C307	Quantum Mechanics – I	C	4
PHY C308	General Practical – II	C	4
PHY C315	Mathematical Techniques	C	4
<b>III SEMESTER</b>			
PHY C309	Quantum Mechanics - II	C	4
PHY C310	Statistical Physics	C	4
PHY C311	Nuclear and Elementary Particle Physics	C	4
PHY C312	Advanced Condensed Matter Physics	C	4
<b>IV SEMESTER</b>			
PHY C313	Elements of Spectroscopy	C	4
PHY C314	Project Work & Viva voce	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>				
<b>Course Code</b>	<b>Title of the Course</b>	<b>Semester</b>	<b>C/E/S</b>	<b>Credit</b>
PHY E301	Applications of Theory of Probability and Statistics	I	E	3

PHY E302	Special Functions and Integral Transforms	I	E	3
	Soft Skill	I	S	2
PHY E303	Elementary Quantum Mechanics (For students from other departments)	II	E	3
	Soft Skill	II	S	2
UOM I001	Internship	II	I	2
PHY E305	Introduction to Nanoscience	III	E	3
PHY E306	General Relativity and Cosmology	III	E	3
	Soft Skill	III	S	2
PHY E307	Theory of Nano-solids	IV	E	3
PHY E308	Astrophysics and Advanced Nuclear Theory	IV	E	3
PHY E309	Advanced Topics in Mathematical Physics	IV	E	3
PHY E310	Quantum Field Theory	IV	E	3
PHY E311	Band Gap Engineering in Semiconductors	IV	E	3
PHY E312	Introduction to Bose-Einstein Condensation (BEC), Superfluidity and Superconductivity	IV	E	3
PHY E313	Crystal Growth and Thin Film Physics	IV	E	3
	Soft Skill	IV	S	2
Soft Skill Courses offered by the Department				
UOMS201	Elements of Holistic Personality of a Scientist		S	2
UOMS202	LaTeX for Everyone		S	2

## DEPARTMENT OF NETWORK SYSTEM AND INFORMATION TECHNOLOGY

### M.Sc. INFORMATION TECHNOLOGY (Self Supportive)

Course Code	Title of the Course	C/E /S	Credits			
			L	T	P	C
<b>First Semester</b>						
PHYC401	Applied Mathematics for Computer Science	C	3	1	0	4
PHYC402	Advanced Data Structures and Algorithm	C	3	1	0	4
PHYC403	Advanced Computer Architecture	C	3	1	0	4
PHYC404	Advanced Operating Systems	C	3	1	0	4
PHYC405	Advanced data structures laboratory	C	0	0	2	2
<b>Second Semester</b>						
PHYC406	Machine Learning	C	3	1	0	4
PHYC407	Advanced Computer Networks	C	3	1	0	4
PHYC408	Theory of Computation	C	3	1	0	4
PHYC409	Network Management	C	3	1	0	4
PHYC410	Networking laboratory	C	0	0	2	2
<b>Third Semester</b>						
PHYC411	Distributed and Cloud Computing	C	3	1	0	4
PHYC412	Cryptography and Information Security	C	3	1	0	4
PHYC413	Wireless Networks and Mobile Computing	C	3	1	0	4
PHYC414	Mini Project	C	0	0	2	2
UOMI001	Internship	I	0	0	0	2
<b>Fourth Semester</b>						
PHYC415	Project work	C	0	0	0	10

**Elective & Soft Skill Courses offered for the Department**

Course Code	Title of the Course	Sem	C/E/S	Credits
PHYE401	Information Retrieval Techniques	I	E	3
PHYE402	Problem Solving Techniques and Applications	I	E	3
PHYE403	High Speeds Networks	I	E	3
PHYE404	Social Network Analysis	I	E	3
	Soft Skill	I	S	2
PHYE405	Advanced Object Oriented Programming	II	E	3
PHYE406	Embedded Systems in computing	II	E	3
PHYE407	Advanced Java programming	II	E	3
PHYE408	Electromagnetics for Communications	II	E	3
	Soft Skill	II	S	2
PHYE409	Big data analytics	III	E	3
PHYE410	Internet of Things	III	E	3
PHYE411	Data mining and warehousing	III	E	3
PHYE412	Neural networks	III	E	3
	Soft Skill	III	S	2
PHYE413	Software Quality Assurance and Testing	IV	E	3
PHYE414	Next Generation Networks	IV	E	3
PHYE415	Parallel Algorithms	IV	E	3
PHYE416	Cyber Forensics	IV	E	3
	Soft Skill	IV	S	2

**DEPARTMENT OF MATERIALS SCIENCE**

**M.Sc. MATERIALS SCIENCE (Self Supportive)**

Course Code	Course Title	C/E/S/I	Credits			
			L	T	P	C
<b>I SEMESTER</b>						
PHY C501	Mathematical Physics	C	3	1	0	4
PHY C502	Classical & Statistical Mechanics	C	3	1	0	4
PHY C504	General Lab - I	C	0	0	4	4
PHY C506	Solid State Physics	C	3	1	0	4
<b>II SEMESTER</b>						
PHY C503	Quantum Mechanics	C	3	1	0	4
PHY C505	Electromagnetic Theory and Optics	C	3	1	0	4
PHY C507	Materials Synthesis and Processing	C	3	1	0	4
PHY C508	General Lab - II	C	0	0	4	4
<b>III SEMESTER</b>						
PHY C509	Physical Metallurgy	C	3	1	0	4
PHY C510	Physics of Materials	C	3	1	0	4
PHY C511	Numerical Methods and Computational Techniques for Materials Science	C	3	1	0	4
PHY C512	Materials Science Laboratory	C	3	1	0	4
<b>IV SEMESTER</b>						

PHY C513	Spectroscopy and Materials Characterization	C	3	1	0	4
PHY C514	Semiconductor Materials and Devices	C	3	1	0	4
PHY C515	Project & Viva-Voce	C	4			4

### Elective & Soft Skill Courses offered by the Department

Course Code	Course Title	C/E/S/I	Credits			
			L	T	P	C
PHY E501	Polymers and Composite Materials	E	2	1	0	3
PHY E502	Solar Energy Materials	E	2	1	0	3
UOM S001	Soft Skill	S				2
PHY E503	Ceramic Materials	E	2	1	0	3
PHY E504	Mathematical Modeling and Simulation	E	2	1	0	3
UOM S002	Soft Skill	S				2
UOM I001	Internship	I				2
PHY E505	Advanced Characterization Techniques	E	2	1	0	3
PHY E506	Non Destructive Testing - Principles and Methods	E	2	1	0	3
UOM S003	Soft Skill	S				2
PHY E507	Biomaterials	E	2	1	0	3
PHY E508	Electronic, Photonic and Magnetic Materials	E	2	1	0	3
UOM S004	Soft Skill	S				2
PHY E509	Mechanical Properties of Materials	E	2	1	0	3
PHY E510	Crystallography and Crystal Growth	E	2	1	0	3
PHY E511	Aerospace Materials	E	2	1	0	3
PHY E512	Advanced Smart Materials	E	2	1	0	3

### M.Phil. PHYSICS

Course Code	Title of the Course	C/E	Credits			
			L	T	P	C
<b>I SEMESTER</b>						
PHY C101	Research Methodology	C	4	1	0	5
PHY C102	Advanced Topics in Physics	C	4	1	0	5
PHY E101	Characterisation of Materials	E	4	1	0	5
PHY E102	Application of Thermal Analysis Techniques	E	4	1	0	5
PHY E103	Advanced Nuclear Physics and Radiation Detection	E	4	1	0	5
PHY E104	Reactor Physics	E	4	1	0	5
<b>II SEMESTER</b>						
PHY C103	Dissertation and Viva-Voce	C				21

### M.Phil. THEORETICAL PHYSICS

Course Code	Title of the Course	C/E	Credits			
			L	T	P	C
<b>I SEMESTER</b>						
PHY C001	Advanced Mathematical Methods for Physicists	C	4	1	0	5

PHY C002	Advanced Topics in Physics	C	4	1	0	5
PHY E001	Statistical Physics	E	4	1	0	5
PHY E002	Nonlinear Dynamics and Chaos	E	4	1	0	5
PHY E003	Path Integral Methods	E	4	1	0	5
PHY E004	Atomic Structure	E	4	1	0	5
PHY E005	Quantum Groups	E	4	1	0	5
PHY E006	Advanced topics in Condensed Matter Physics	E	4	1	0	5
II SEMESTER						
PHY C003	Dissertation and Viva-voce	C				21

### M.Phil. SCIENTIFIC INSTRUMENTATION

Course Code	Title of the Course	C / E	Credit
I SEMESTER			
PHY C221	Research Methodology	C	5
PHY C222	Recent Trends in Instrumentation	C	5
PHY E221	Instrumental Methods	E	5
II SEMESTER			
PHY C223	Dissertation and Viva- voce	C	21

### SCHOOL OF LIFE SCIENCES

The Centre for Advanced Studies in Botany, and the Departments of Zoology, Biochemistry, Bio Informatics and Biotechnology and **Centres** for Ocean & Coastal Studies and Herbal Sciences together constitute the School of Life Sciences. **The School of Life Sciences has been recognized as “Centre with Potential for Excellence in Particular Area: CPEPA” by UGC** and sanctioned a research programme on ‘Biomolecules against human, animal and plant viruses’. In addition, **this school has also been receiving financial support by Department of Biotechnology, Ministry of Science and Technology, Government of India under BUILDER (Boost to University of Madras Interdisciplinary Life Science Programme for Advance Education and Research)** for strengthening all our post graduate programmes in the school to a tune of 5.24 Crores (2014-2019).

The first Science department of the University of Madras viz., the Department of Zoology was started in 1927 with Sir. K. Ramunni Menon as the honorary director. The department teaches and researches in the fields of Cryopreservation of gametes and embryos of penaid prawns, Eye stalk neuropeptides and control of reproduction in the decapod crustaceans, Molecular aspects of reproduction in the decapod crustaceans, Biofouling, Environmental impact assessment, Water quality, Aquaculture of live food organisms, Mass culture of fairy shrimps and brine shrimps, Adaptations of cryptobiotic cysts of fairy shrimps and rotifers, Immunobiology of cultivable aquatic invertebrates, Physiology of respiratory pigments, Cell surface glycoproteins, Cancer and free radical biology, Economic Entomology, Biomolecules with Biomedical potentials etc., Facilities are available to do research on the biological and biochemical aspects of animals. Sophisticated instruments available in the department are: AAS, RT-PCR, Spectrofluorimeter, Planer Biomed Kryo 10, Standard Liquid Chromatography system, UV-Visible Spectrophotometers, Electrophoresis Systems, Gas Liquid Chromatography, Phase Contrast and Fluorescence Microscope, Lyophilizer, Ultracentrifuge, HPLC & GC systems, ELISA Reader, Osmometer etc., The consultancy potentials of the department lies in the areas of environmental impact assessment, water quality, cryopreservation in crustacean embryos, live feed for aquaculture, health care of marine organism, immunology of marine organism, biochemistry of cancer and insect pest management. The department offers Masters (M.Sc. & M.Phil.) and Ph.D. programmes. The department has been identified by UGC and has been receiving funds for the last 25 years for research in a thrust area under UGC - DRS and DSA programme. Our department is also been recognized by Ministry of Environment and Forests with a centre called

ENVIS since 2002 as a database centre for 'Microorganisms and Environment Management'. In addition, the department has been conducting post graduate diploma courses viz., P.G. Diploma in Immunotechnology, Stem Cell Biology & Tissue Engineering and Clinical Embryology. The department is also added with a post graduate teaching cum laboratory in the insectarium building with new instrumentation facility supported by DBT-BUILDER.

The Department of Botany was started in 1929 for generating specialization in the field of Algology. In 1944 the emphasis shifted to Plant Pathology. In 1963 it was chosen for elevation as a Centre for Advanced Studies by the University Grants Commission. Algology, Algal Biotechnology, Mycology, Fungal Biotechnology, Molecular Plant Pathology, Environmental Microbiology, Plant Biotechnology and Genetic Engineering are the areas in which teaching and research are carried out by the Centre. The Centre is well equipped with modern sophisticated instruments. The Centre maintains one of the largest culture collections in South Asia and about 800 algal, 500 fungal and a few bacterial strains are maintained. The Centre has an excellent field laboratory, situated at Maduravoyal, 10 kilometers away from Madras with all facilities to conduct field trials. The centre has sophisticated equipments like Atomic Absorption Spectrophotometer, Contamination Monitor, Electroporator, Bio- SEM, ELISA reader, Environmental Shakers, Fermentors, French Press, Gas Liquid Chromatography, Gel Eluter and Progenitor, High Performance Liquid Scintillation Counter, Luminometers, PCR (Polymerase Chain Reaction) Units, Photomicroscope, Scanning densitometer, Spectrofluorimeter, Spectrophotometers, Transilluminator, Ultracentrifuges, Ultramicrotome, Ultrasonicators and Vacuum freezer. The Centre offers consultancy on high technology for organic cultivation of cereals and vegetable crops, bio-fertilizers, bio-pesticides and biotechnological agents. Mushroom production and mushroom compost, Bio-remediation and Biotransformation of heavy metal pollution, Tannery effluent, dye factory effluent, Xenobiotics, radioactivity pollution and oil-pollution, Bio-remediation of polluted soils are some areas in which frequent consultancy takes place. The department offers Masters and Ph.D. programmes.

The department of Biochemistry was started in 1933 under the headship of Dr. M. Damodaran, to study Chemistry and Metabolism of proteins and enzymes. Since 1945, the department offers Masters, M.Phil and Ph.D. programmes. The department teaches and researches in the areas of Clinical Biochemistry, Cancer Biology, Standardization of Pharmaceuticals, Nutritional Biochemistry, De-addiction, Biochemical and Environmental Toxicology and Microbial Pathogenesis. The sophisticated equipments in the department are: Spectrophotometer, Liquid Scintillation Counter, Refrigerated High speed Centrifuges and other instruments essential for biochemical investigations. The Department offers consultancy for Evaluation of drug efficacy and safety, Biochemical investigations for diagnosis, Anticancer studies, Narcotic addicts– Biochemical studies, Cardiotonic drugs, Respiratory and Gastro-intestinal infections, Hepatoprotective activity studies and Efficacy of Ayurvedic drugs. The department was renamed as the Department of Biochemistry and Molecular Biology in 1998 and offers Masters programme in Molecular Biology.

The department of Biotechnology was started in 1997. The department offers Masters and Ph.D. Programmes

### Faculty

Dr. Elangovan Vellaichamy, Ph.D

Chairperson

### Zoology

Dr. S. Janarthanan, Ph.D

Professor & Head

Dr. C. Arulvasu, Ph.D

Associate Professor

Dr. R. Manikandan, Ph.D

Assistant Professor

Dr. M. Jayakumar, Ph.D

Assistant Professor

Dr. R. Shanthi, Ph.D

Assistant Professor.

Dr. S. Milton Prabhu, Ph.D (Re- Deployed)

Associate Professor

Dr. K. Pugazhendy, Ph.D (Re- Deployed) Associate Professor  
Dr. A. Muralitharan, Ph.D (Re- Deployed) Assistant Professor

**Centre for Advanced Studies in Botany**

Dr. N. Mathivannan, Ph.D Head & Director  
Dr. P. Palani, Ph.D Associate Professor  
Dr. N. Radhakrishnan, Ph.D Assistant Professor  
Dr. S. Nagaraj, Ph.D Assistant Professor  
Dr. K. Malarvizhi, Ph.D Assistant Professor  
Dr. K.R. Jayappriyan, Ph.D Assistant Professor

**Biochemistry**

Dr. Elangovan Vellaichamy, Ph.D Professor and Head  
Dr. A. J. Vanisree, Ph.D Professor  
Dr. G. Sudhandiran, Ph.D Associate Professor  
Dr. M. Ravi, Ph.D Assistant Professor

**Biotechnology**

Dr. S. Elumalai, Ph.D Professor & Head  
Dr. K. Uma Maheswari, Ph.D Associate Professor  
Dr. G. Vijayan Siva, Ph.D Associate Professor  
Dr. K. Kathiravan, Ph.D Associate Professor  
Dr. E. Sumathi, Ph.D Assistant Professor

**Bio Informatics**

Dr. P. Karthe, Ph.D Professor and Head i/c

**Centre for Ocean and Coastal Studies**

Dr. S. Elumalai, Ph.D Professor and Head i/c

**Centre for Herbal Sciences**

Dr. Elangovan Vellaichamy, Ph.D Professor & Head i/c

**Centre for Stem Cell Research**

Dr. G. Sudhandiran, Ph.D Associate Professor & Head i/c

**M. Sc. BIOCHEMISTRY**

Course Code	Title of the Course	C/ E	Cr.
<b>SEMESTER I</b>			
LIF C001	Biochemical Techniques	C	4
LIF C002	Chemistry of Biomolecules	C	4
LIF C003	Clinical Biochemistry	C	4
LIF C004	Lab Course in Biochemical Techniques & Clinical Biochemistry	C	4
LIF E001	Human Physiology	E	3
LIF E002	Nutritional Biochemistry	E	3
	Soft Skill 1 (Online)	S	2
<b>SEMESTER II</b>			
LIF C005	Immunology	C	4
LIF C006	Intermediary Metabolism	C	4
LIF C008	Molecular Biology of the Gene	C	4
LIF C009	Lab Course in Molecular Biology	C	4
LIF E003	Metabolic Regulation	E	3
LIF E004	Enzymology	E	3

	Soft Skill 2 (Online)	S	2
<b>SEMESTER III</b>			
LIF C010	Hormonal Biochemistry	C	4
LIF C011	Industrial Microbiology	C	4
LIF C013	Lab Course in Microbiology	C	4
LIF C014	Eukaryotic Gene Expression	C	4
LIF E005	Biochemistry of Cell Signaling	C	3
LIF E006	Developmental Biology	E	3
	Soft Skill 3 (Online)		
UOMI001	Internship	S	2
<b>SEMESTER IV</b>			
LIF C015	Recombinant DNA Technology	C	4
LIF C016	Project and viva voce	C	8
LIF E007	Basics of Gene Therapy	E	3
LIF E008	Molecular basis of diseases and therapeutic strategies	E	3
	Soft Skill 4 (Online)	S	2

### M. Sc. BIOTECHNOLOGY

Course Code	Course Title	C/E/S	Cr.
<b>I Semester</b>			
LIF C201	Plant Biotechnology	C	4
LIF C202	Animal Cell Biotechnology and Stem Cell Biology	C	4
LIF C203	Molecular Genetics	C	4
LIF C204	Practical –I (Plant Biotechnology, Animal Cell Biotechnology and Stem Cell Biology, Molecular Genetics)	C	4
<b>II Semester</b>			
LIF C205	Molecular Therapeutics	C	4
LIF C206	Food and Medical Microbiology	C	4
LIF C207	Marine Biotechnology	C	4
LIF C208	Industrial Biotechnology	C	4
LIF C210	Practical-II (Molecular Therapeutics, Food and Medical Microbiology, Marine Biotechnology and Industrial Biotechnology)	C	4
<b>III Semester</b>			
LIF C211	Immunotechnology	C	4
LIF C212	Bioinformatics	C	4
LIF C213	Molecular Biology	C	4
LIF C215	Practical-III (Immunotechnology, Bioinformatics and Molecular Biology)	C	4
<b>IV Semester</b>			
LIF C217	Nanobiotechnology	C	4
LIF C218	Project Work – Dissertation	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>				
Course Code	Title of the Course	Semester	C/E/S	Credit
	Elective	<b>I</b>	E	3
UOMS124	Intellectual Property Rights	<b>I</b>	S	2
LIF E209	Food Processing Technology*	<b>II</b>	E	3
	Elective	<b>II</b>	E	3



UOMS125	Introduction to Research	<b>II</b>	S	2
LIF E212	Molecular Plant Virology*	<b>III</b>	E	3
Soft Skill	Bioenergy (NPTEL)	<b>III</b>	S	2
UOM1001	Internship	<b>III</b>	I	2
LIF E220	Environment Biotechnology*	<b>IV</b>	E	3
	Elective	<b>IV</b>	E	3
UOMS126	Principles of Downstream Techniques in Bioprocess	<b>IV</b>	S	2

\* *Electives offered for other Departments*

### M.Sc. BOTANY

Course Code	Title of the Course	C/E/S	Cr.
<b>I SEMESTER</b>			
LIFC 301	Biodiversity – I: (Algae, Fungi, Lichens, Bacteria and Viruses)	C	4
LIFC 302	Biodiversity –II: (Bryophytes, Pteridophytes, Gymnosperms and Paleobotany)	C	4
LIFC 303	Plant Cell Biology	C	4
LIFC 304	<b>Lab Course I</b> ; Biodiversity I & II, Plant Cell Biology	C	4
<b>II SEMESTER</b>			
LIFC 305	Taxonomy of Angiosperms and Economic Botany	C	4
LIFC 306	Evolution, Ecology and Phytogeography	C	4
LIFC 307	Plant Anatomy, Embryology, Morphogenesis	C	4
LIFC 308	Genetics, Plant Breeding and Molecular Biology	C	4
LIFC 309	Lab Course II: Taxonomy of Angiosperms and Economic Botany Evolution, Ecology and Phytogeography Plant Anatomy, Embryology, Morphogenesis Genetics, Plant Breeding and Molecular Biology	C	4
	Field Visit Report		2
<b>III SEMESTER</b>			
LIFC 310	Plant Physiology and Metabolism	C	4
LIFC 311	Biotechniques, Phytochemistry and Biostatistics	C	4
LIFC 312	Molecular Plant Pathology and Plant Biotechnology	C	4
LIFC 313	<b>Lab Course III:</b> Plant Physiology and Metabolism Biotechniques, Phytochemistry and Biostatistics Molecular Plant Pathology and Plant Biotechnology	C	4
<b>IV SEMESTER</b>			
LIFC 314	Project work - Dissertation	C	8
<b>ELECTIVE COURSES</b>			
LIFE301	Mass Cultivation of Algae	E	3
LIFE302	Phytopharmacognosy	E	3
LIFE304	Natural Dyes	E	3
LIFE305	Proteomics	E	3
LIFE306	Applied Bioinformatics	E	3
LIFE307	Mushroom Cultivation	E	3
LIFE308	Biopesticides Production Technology	E	3
LIFE309	Recombinant DNA Technology and Gene Therapy	E	3
LIFE310	Nanobiomaterials	E	3
LIFE311	Biological Techniques	E	3
LIFE312	Cyanobacterial Physiology and Biotechnology	E	3
LIF E313	Applied Phycology	E	3
<b>ONLINE SOFT COURSES</b>			

	Plastic Waste Management	S	2
	Plant Cell Bioprocessing	S	2
	Cell Biology: Cellular organization, division and processes	S	2
	Bioengineering: An Interface with Biology and Medicine	S	2
	Introduction to proteomics	S	2
	Tissue engineering	S	2
	Cell Culture Technologies	S	2
	Nanotechnology in Agriculture	S	2
	Wildlife Ecology	S	2
	Experimental Biotechnology	S	2
	Biochemistry	S	2
	Introduction to Developmental Biology	S	2
	Environmental Biotechnology	S	2
	Genetic Engineering: Theory and Application	S	2
	Fundamentals of Protein Chemistry	S	2
	Certificate course in Environmental Sustainability	S	2
	Plant Pathology and Soil Health	S	2
	Microbial Physiology and metabolism	S	2
	Basic concepts in Enzymology	S	2

## DEPARTMENT OF ZOOLOGY

### M. Sc. ZOOLOGY

Course Code	Title of the Course	Core/ Elective	Cred its
<b>Semester I</b>			
LIF C501	Structure and Function of Invertebrates	Core 1	4
LIF C502	Comparative Anatomy of Vertebrates	Core 2	4
LIF C503	Lab Course in Invertebrates & Vertebrates	Core 3	4
LIF E501	Molecules and their interaction relevant to biology	Elective 1	3
LIF E502	Biostatistics	Elective 2	3
		<i>Soft Skill-1</i>	2
<b>Semester II</b>			
LIF C504	Cellular & Molecular Biology	Core 4	4
LIF C505	Genetics	Core 5	4
LIF C506	Evolution	Core 6	4
LIF C507	Developmental Biology	Core 7	4
LIF C508	Lab Course in Cell Biology, Genetics & Developmental Biology	Core 8	4
LIF E507	System Physiology: Plant (Elective to be offered by CAS in Botany to Zoology students)	Compulsory Elective 1	3
LIF E503	Economic Entomology	Elective 3	3
		<i>Soft Skill-2</i>	2
<b>Semester III</b>			
LIF C509 / LIF E508	System Physiology: Animal (Elective to be offered by Zoology to CAS in Botany students)	Core/Compl. Elective 2	4 / 3
LIF C510	Research Methodology	Core 10	4
LIF C511	Immunology	Core 11	4
LIF C512	Lab Course in Immunology & Research Methodology	Core 12	4
LIF E504	Stem Cell Biology*	Elective 4	3
LIF E505	Microbiology / any equivalent or suitable course from	Elective 5	3

	MOOC, SWAYAM and NPTEL online portals		
		Soft Skill-3	2
		Internship	2
<b>Semester IV</b>			
LIF C513	Principles of Ecology & Management	Core 13	4
LIF C514	Dissertation & <i>viva voce</i>	Core 14	8
LIF E506	Aquaculture & Fisheries	Elective 6	3
		Soft Skill-4	2

### M.Phil. BIOCHEMISTRY

Course Code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
LIF C021	Research Methodology	C	5
LIF C022	Analytical Methods	C	5
LIF E021	Induction of Diseases in Experimental Animal Models	E	5
LIF E022	Efficacy Biochemical Evaluation of Drug	E	5
LIF E023	Molecular Diagnostics in the Control of Diseases	E	5
<b>II SEMESTER</b>			
LIF C023	Dissertation & <i>viva voce</i>	C	21

### M.Phil. ZOOLOGY

Course Code	Title of the Course	C/E	Credit
<b>SEMESTER I</b>			
LIF C521	Research Methodology	C	5
LIF C522	Recent Advances in Zoology	C	5
LIF E521	Invertebrate Immunology	E	5
LIF E522	Environmental Monitoring & Assessment	E	5
LIF E523	Live feed in Aquaculture	E	5
LIF E524	General Entomology	E	5
LIF E525	Animal Tissue Culture	E	5
LIF E526	Molecular Cell Biology`	E	5
<b>SEMESTER II</b>			
LIF C523	Dissertation & <i>viva voce</i>	C	21

### M.Phil. BOTANY

Course Code	Title of the Course	C/E/ S	Credits			
			L	T	P	C
<b>SEMESTER - I</b>						
LIF C121	Research Methodology	C	5	0	0	5
LIF C122	Applied Research Methodology	C	5	0	0	5
LIF C123	Algology	C	5	0	0	5
LIF C124	Mycology	C	5	0	0	5
LIF C125	Molecular Plant Pathology	C	5	0	0	5
<b>SEMESTER - II</b>						
LIF C126	Dissertation and <i>viva voce</i>	C	21	0	0	21

### DEPARTMENT OF ZOOLOGY

#### P.G. DIPLOMA IN STEM CELL TECHNOLOGY & TISSUE ENGINEERING

Course Code	Title of the Course	Credits
<b>I SEMESTER</b>		

ZPG D601	Biochemistry	5
ZPG D603	Molecular Developmental Biology	5
ZPG D605	Molecular Cell Biology	5
ZPG D607	Practical I ( <i>Covering ZPGD601,ZPGD603,ZPGD605</i> )	3
<b>II SEMESTER</b>		
ZPG D602	Molecular Biology of the Gene	5
ZPG D604	Stem Cell Technology	5
ZPG D606	Bioinformatics	5
ZPG D608	Practical – II ( <i>Covering ZPGD602 &amp; ZPGD604</i> )	3

**POST GRADUATE DIPLOMA IN TAXONOMY IN FUNGI – CAS IN BOTANY**

Course Code	Title of the Course	Credit
<b>I SEMESTER</b>		
LIF C376	Nomenclature and Classification of Fungi	4
LIF C377	Molecular Taxonomy – Molecular Approaches to Fungal Taxonomy	4
LIF C378	Taxonomy of Zygomycotina, Deuteromycotina	4
LIF C379	Taxonomy of Myxomycotina, Ascomycotina	4
LIF C380	Taxonomy of Mastigomycotina, Basidiomycotina	4
LIF C381	Culturing and cultivation of fungi	4
<b>II SEMESTER</b>		
LIF C382	Economic importance of fungi	2
LIF C383	Dissertation	6
LIF C384	<i>viva voce</i>	4

**POST-GRADUATE DIPLOMA IN TAXONOMY OF ALGAE – CAS IN BOTANY**

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
LIF C476	Nomenclature and Classification of Algae	C	4
LIF C477	Taxonomy of Algae – I	C	4
LIF C478	Taxonomy of Algae – II	C	4
<b>II SEMESTER</b>			
LIF C479	Taxonomy of Algae – III	C	4
LIF C480	Taxonomy of Algae – IV	C	4
LIF C481	Culturing and Cultivation of Algae	C	4
LIF E476	Economic Importance of Algae	E	3
LIF C482	Dissertation	C	6
LIF C483	<i>viva voce</i>	C	4

**P.G. DIPLOMA IN IMMUNOTECHNOLOGY - DEPT OF ZOOLOGY**

Course Code	Title of the Course	Credits
<b>I SEMESTER</b>		
ZPG D701	Essential Immunology I	6
ZPG D703	Essential Immunology II	6
ZPG D705	Lab Course in Immunology	6
<b>II SEMESTER</b>		
ZPG D702	Monoclonal Antibodies and Immunotechnology	6
ZPG D704	Lab Course in Immunotechnology	6
ZPG D706	Project work / Dissertation	6

**P.G. DIPLOMA IN CLINICAL EMBRYOLOGY (Self Supportive) –  
DEPARTMENT OF ZOOLOGY**

<b>SEMESTER – I</b>					
<b>Course Code</b>	<b>Paper</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
ZPDCE-801	Developmental Biology	4	0	0	4
ZPDCE-802	Cell and Molecular Biology	4	0	0	4
ZPDCE-803	Immunology	3	0	0	3
ZPDCE-804	Research Methodology	3	0	0	3
ZPDCE-805	Lab Course I (covering papers ZPDCE-801 to ZPDCE-804)	0	0	3	3
<b>SEMESTER – II</b>					
ZPDCE-806	Fertility and Assisted Conception	3	0	0	3
ZPDCE-807	Assisted Reproduction Techniques – I	3	0	0	3
ZPDCE-808	Assisted Reproduction Techniques – II	3	0	0	3
ZPDCE-809	Lab Course II (covering papers ZPDCE-806 to ZPDCE-808)	0	0	4	4
ZPDCE-810	Dissertation & viva voce	-	-	-	6

**SCHOOL OF BASIC MEDICAL SCIENCES**

The School of Basic Medical Sciences consists of the Departments of Anatomy, Endocrinology, Genetics, Medical Biochemistry, Microbiology, Pathology, Pharmacology and Environmental Toxicology and Physiology.

Along with establishment of Post Graduate Institute of Basic Medical Sciences (PGIBMS), the division of Medical Biochemistry was first established in March 1968. In January 1969, Endocrinology and Genetics came into being. Subsequently, all these divisions became independent departments. Later, the PGIBMS was expanded in 1976 when the Taramani campus started functioning, with the addition of the departments Microbiology, Pharmacology and Environmental Toxicology and Physiology. The third phase of expansion of PGIBMS was in 1977, when the departments of Anatomy and Pathology were added. All departments are involved in active research, training Ph.D. students and offering postgraduate degree programmes.

The department of Anatomy offers M.Sc. Anatomy and M.S. Neuroscience programmes. It is a DST –FIST supported department carrying out research in neural transplantation, cortical localization, and Neuro-electrophysiology in primates and comparative neuroanatomy of primates including man. The department has a well-equipped aseptic operation theatre, tissue processing laboratory, neuroimmunology laboratory, rare collections of histological slides, audio-visual teaching aids and video and audio cassette library. It has several sophisticated equipments like cryostat, vibrotome, microscope, fluorescent microscope, stereo zoom microscope, neonatal incubator, surgical diathermy, bio-monitor, X-ray machine, electro-physiological unipolar cortical stimulator etc.

The department of Endocrinology is a research department recognized by UGC for Department Research Support under UGC Special Assistance Programme (UGC-SAP-DRS-I) to facilitate research in the following thrust areas since 1999. (1) Reproductive and Molecular Endocrinology and (2) Environmental Endocrinology. The UGC-SAP-DRS-II programme is in operation since 2004. UGC has also selected this department for its Assistance for Infrastructural development in Science and Technology (ASIST) since April 2006 to create infrastructure for offering the new M.Sc. Biomedical Science programme and for research in Environmental Endocrinology. The department of Science and Technology, Govt. of India has selected the department for upgrading

infrastructural and equipment facilities for Research under its FIST programme from 2000 onwards. In addition to this, the department is funded by various National Agencies such as DBT, CSIR, DST, ICMR and UGC. The department undertakes research works involving evaluation of hormones, receptors and signalling at the level of genes, in endocrines, reproductive, bone and metabolic disorders and cancer. The department has sophisticated equipment like electroporator, PCR machine, Real time PCR, ELISA reader, CO<sub>2</sub> incubators, speed vacuum concentrator, ion-exchange chromatography, double beam spectrophotometer, research microscope with fluorescence, phase contrast and photography, electrophoretic and blotting system, Gel doc and Chemidoc systems, inverted microscope, stereo zoom microscope, ultra deep freezers, cell culture facility and temperature and light controlled animal room facility. The department has BRIT recognized radioisotope laboratory. The department also offers M.Sc. Biomedical Sciences, M.Phil. and Ph.D. programmes in Endocrinology and two elective papers for M.Sc. CBCS students. The department scored 97% score in the IQAC rating and stands second among 67 departments of the University. The department has two endowments one in the name of Prof. P. Govindarajulu and Ms. Saraswathiammal memorial Endowment lectures and scholarship for the best outgoing students.

The department of Genetics is supported under DST-FIST and UGC- SAP – DRS I Programmes. The faculty members pursue basic and applied research in frontier areas of Genetics that has direct/indirect bearing on health care. The areas of interest include clinical cytogenetics (mental retardation, infertility and birth defects), genetics of hearing, visual and speech disorders, molecular genetics of cancer, cardiovascular disease and Neuro-developmental disorders, pharmacogenomics and personalized medicine, functional genomics, sports genetics, genetics of chronic inflammation in diabetes and cardiovascular diseases, microbial and molecular genetics of *Mycobacterium tuberculosis* and *Pseudomonas fluorescens*. The department offers postgraduate programmes leading to M.Sc. (Biomedical Genetics and Molecular Biology), and Ph.D. degrees. The department has departmental library and a centralized instrumentation facility, which includes Bioanalyzer 2000, Chemidoc system, Nanodrop, Thermo cyclers, Gel documentation system, Spectrophotometers, Refrigerated high speed centrifuges, Refrigerated table top centrifuge, Real-time PCR, MilliQ water purification system, Ice-flaker, Deep freezers, Fluorescence microscope with cytogenetics work station etc. The department also offers consultancy service on genetic counseling, clinical cytogenetics.

The department of Medical Biochemistry offers M.Sc. Medical Biochemistry. It is a UGC-SAP-DRS I and DST-FIST supported department specializing in metabolic free radical mediated diseases including Diabetes mellitus, atherosclerosis, alcoholism, kidney stone disease, cancer, ageing and biochemical toxicology. The facilities of the department include various sophisticated instruments including Scintillation counter, Double beam UV spectrophotometers, spectrofluorimeter, epifluorescence microscope, ultracentrifuge, super speed refrigerated centrifuges, ELISA readers, deep freezers, equilibrium dialyzers, electrophoresis units, thin layer and column chromatographic systems. The department offers expert consultancy in clinical biochemistry in select areas of metabolic disorders and kidney stone disease.

The department of Microbiology offers M.Sc. Medical Microbiology and M.D. Microbiology and is a UGC-SAP-DRS-I and DST-FIST department. The faculty members do research in medical microbiology (diarrhoeal diseases, new diarrhoea pathogens, respiratory pathogens, hospital acquired bacterial, fungal and viral infections; sequelae; Herpes keratitis; AIDS), Immunology (development of diagnostic kits for microbial characterization of bacterial, fungal and viral pathogens by RFLP, cloning and sequencing) and development of antibacterial, antifungal and antiviral agents from medicinal plants and marine organisms; Indigenous development of vaccines; evaluation of industrial products like vaccines, drugs, devices, kits, disinfectants etc. The facilities of the department include tissue culture systems, antigen & antibody purification and characterization, preservation of microbial culture. In vitro and in vivo laboratory models for drug and vaccine development, design and conduction of clinical trials, evaluation etc. The sophisticated equipments of the department are : ELISA systems, HPLC, UV- vis spectrophotometer, UV- Transilluminator with photography,

PCR - Systems, Ultracentrifuge and refrigerated centrifuge, lyophiliser, luminometer, tissue culture laminar flow systems, environmental temperature controlled shakers, ice flaker, deep freezers, liquid nitrogen cylinders, different electrophoresis systems including blotting systems and chromatographic systems, CO<sub>2</sub> Incubator and water purification systems.

The department of Pathology offers M.D.Pathology, Diploma in Clinical Pathology and M.Sc. Laboratory Technology programmes. The faculty carry out research in histopathology, immunology, haematology, haematopathology, immuno-histochemistry and in situ hybridisation. The facilities of the department are histopathology with frozen section facilities, histochemistry, cytochemistry, immunohistochemistry in situ hybridization for viral DNA and RNA. The department is a referral centre for immunohistochemistry and immunocytochemistry. The department is also a WHO training centre for immunohistochemistry and cytochemistry.

The Department of Pharmacology & Environmental Toxicology offers M.Sc. Toxicology. As a research Department it has been recognized by UGC as a UGC- SAP- DRS-phase II with the thrust areas 1 & 2 as follows: Pharmacology of Indian medicinal plants and traditional medicinal preparations and Toxicology of Environmental pollutants. The department is also being funded under DST-FIST programme. The projects of the Department include funding by DBT, UGC and DST. The faculty member's carryout intensive research in: Experimental pharmacology, Phytopharmacology, Traditional medicine formulations, Immuno-pharmacology and toxicology, Neuropharmacology and toxicology, Cardiovascular pharmacology, Aquatic toxicology, Food toxicology, Environmental toxicology and Pesticide toxicology. The expertise and facilities can be used for screening of pharmacological as well as toxicological profile of drugs and medicinal plants as well as toxicological evaluation of specific environmental pollutants. The department has the sophisticated analytical equipments such as Florescence spectrophotometer, GC-MS, high pressure liquid chromatography, UV visible spectrophotometer, electrophoresis unit, soft laser screening densitometer, refrigerated centrifuge, thin layer chromatography system and tissue culture facility. In vitro and in vivo pharmacological/toxicological screening equipments include Polygraph, tissue bath set-up, physiograph and electro cardio graph. Rota-rod, actophotometer, analgesio meter, Heb's William maze are available for behavioural screening. Thermo cyclers, Co<sub>2</sub> incubator for Tissue culture facility, Millicell, as well as Basic equipments such as pH meter, electronic balances, Microscopes, Liquid nitrogen cylinder etc are available.

The department of Physiology offers M.Sc. Physiology programme. The faculty members carry out research in the areas of neuroimmunomodulation, stress physiology, liver regeneration, cassava studies and medical/laboratory instrumentation. The facilities of the department include recording of basic physiological data, behavioral studies in small animals, all common biochemical investigations, all haematological investigations, computer facility for physiological data acquisition etc. The sophisticated instruments of the department are HPLC (Waters) with ECD detector, spectrofluorometer, UV- visible spectrophotometer, flame photometer, single channel strip chart recorder (physiograph), 8-Channel physiological data recorder (Polyrite), Single Channel ECG recorder, deep freezers; laminar flow hood, ultrasonic disintegrator, etc.

### **Faculty**

Dr. V. Sankar, Ph.D	Chairperson
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### **Anatomy**

Dr. V. Sankar, Ph.D	Professor & Head
Dr. S. Prakash, Ph.D	Professor
Dr. R. Ramesh Kumar, Ph.D	Assistant Professor
Dr. Muhammed Ibrahim, Ph.D	Assistant Professor

### **Endocrinology**

Dr. B. Ravisankar, Ph.D	Associate Professor & Head i/c
Dr. R. Ilangovan, Ph.D	Assistant Professor

### Genetics

Dr. A. K. Munirajan, Ph.D	Professor & Head
Dr. B. Anandan, Ph.D	Assistant Professor
Dr. V. Aravindhana, Ph.D	Assistant Professor
Dr. B. Usharani, Ph.D	Assistant Professor

### Medical Biochemistry

Dr. V. Bhuvaramurthy, Ph.D	Professor and Head
Dr. P. Kalaiselvi, Ph.D	Associate Professor
Dr. T. Sumathi, Ph.D	Associate Professor
Dr. S. Yamini Sudhalakshmi, Ph.D	Assistant Professor
Dr. R. Venkateswari, Ph.D	Assistant Professor
Dr. T.M. Vijayalakshmi, Ph.D	Assistant Professor

### Microbiology

Dr. Elanchezian Manickan, Ph.D	Professor and Head
Dr. D. Prabhu, Ph.D	Assistant Professor
Dr. B. Rayvathi, MBBS, MD	Assistant Professor
Dr. P. Suganthi, Ph.D	Assistant Professor

### Pathology

Dr. P. Kalaiselvi, Ph.D	Associate Professor and Head i/c
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### Pharmacology and Environmental Toxicology

Dr. B. Anandan, Ph.D	Assistant Professor and Head i/c
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### Physiology

Dr. R. Ravindran, Ph.D	Associate Professor and Head i/c
Dr. G. Sathya Narayanan, Ph.D	Assistant Professor

### CORE & ELECTIVES OFFERED BY THE DEPARTMENT OF ENDOCRINOLOGY

Course Code	Title of the Course	C/E	Credit
BMS E401	Molecular and Cellular Endocrinology	E	3
BMS E404	Reproductive Physiology and Endocrinology	E	3
BMS E403	Principles of Endocrinology	E	3
BMSC 425	Endocrine Pathology	C	4

### ELECTIVES OFFERED BY THE DEPARTMENT OF PATHOLOGY

Course Code	Title of the Course	C/E	Credit
BMS E901	Basics in Oncopathology	E	3
BMS E902	Basics in Pathology	E	3

### M.Sc. MEDICAL BIOCHEMISTRY (REGULAR AND SELF-SUPPORTIVE)

Course Code	Title of the Course	C/E/S	Credit
<b>I SEMESTER</b>			
BMS C001	Chemistry of Biomolecules	C	4
BMS C002	Biophysical Chemistry and Analytical Techniques	C	4
BMS C003	Food Science and Nutrition	C	4
BMS C004	Cellular Biochemistry	C	4
<b>II SEMESTER</b>			
BMS C005	Cell signaling	C	4



BMS C006	Molecular Biology and Macromolecular Biosynthesis	C	4
BMS C007	Molecular Basis of Human Diseases	C	4
BMS C008	Practical I	C	5
<b>III SEMESTER</b>			
BMS C009	Enzymes and Enzyme Technology	C	4
BMS C010	Physiological Biochemistry	C	4
BMS C011	Metabolic and Gene Regulation	C	4
BMS C012	Practical II	C	5
<b>IV SEMESTER</b>			
BMS C013	Project	C	10

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>				
<b>Course Code</b>	<b>Title of the Course</b>	<b>Semester</b>	<b>C/E /S</b>	<b>Credit</b>
BMSE001	Principles of Biochemistry –I*	<b>I</b>	E	3
BMSE002	Principles of Biochemistry –II*	<b>I</b>	E	3
UOMS151	Basic Computing Techniques in Bioinformatics	<b>I</b>	S	2
BMSE305	Molecular Diagnostics Methods	<b>II</b>	E	3
UOMS129	Writing protocol for drug testing	<b>II</b>	S	2
BMSE003	Principles of Immunology	<b>III</b>	E	3
BMSE101	Principles of Genetics –I	<b>III</b>	E	3
BMSE401	Molecular and Cellular Endocrinology	<b>III</b>	E	3
	Soft Skill	<b>III</b>	S	2
UOM I001	Internship	<b>III</b>	I	2
BMS E004	Medical Biotechnology	<b>IV</b>	E	3
	Soft skill	<b>IV</b>	S	2

**M.Sc. ANATOMY (FACULTY OF MEDICINE)**

<b>Course Code</b>	<b>Course Name</b>	<b>C/E</b>	<b>Cr.</b>
<b>Semester I</b>			
BMS C740	Cell and Molecular Biology	C	4
BMS C742	Fundamentals of Human Anatomy – I	C	4
BMS C743	General Embryology	C	4
BMS C744	Research Methods in Anatomy & Neuroscience	C	4
	Elective 1 – Offered by other department(s)	E	3
	Elective 2 – Offered by other department(s)	E	3
	Soft Skill	S	2
<b>Semester II</b>			
BMS C741	Practical - Cell and Molecular Biology	C	4
BMS C745	Practical – Research Methods in Anatomy and Neuroscience	C	4
BMS C746	Fundamentals of Human Anatomy - II	C	4
BMS C747	Histology	C	4
	Elective 3 – Offered by other department(s)	E	3
	Elective 4 – Offered by other department(s)	E	3
	Soft Skill	S	2

<b>Semester III</b>			
BMS C748	Gross Anatomy – I	C	4
BMS C749	Neuroanatomy – I	C	4
BMS C750	Practical - Gross Anatomy I	C	4
BMS C751	Research Project – Phase I	C	4
	Elective 5 – Offered by other department(s)	E	3
	Elective 6 – Offered by other department(s)	E	3
	Soft Skill	S	2
<b>Semester IV</b>			
BMS C752	Gross Anatomy – II	C	4
BMS C753	Neuroanatomy – II	C	4
BMS C754	Practical - Gross Anatomy II	C	4
BMS C755	Research Project – Phase II	C	4
	Elective 7 – Offered by other department(s)	E	3
	Elective 8 – Offered by other department(s)	E	3
	Soft Skill	S	2
<b>Semester V</b>			
BMS C756	Human Cadavar Dissection – I	C	5
BMS C757	Surface anatomy and Medical Imaging	C	4
BMS C758	Research Project – Phase III	C	4
	Elective 9 – Offered by other department(s)	E	3
	Elective 10 – Offered by other department(s)	E	3
	Soft Skill	S	2
UOM 1002	Internship	I	3
<b>Semester VI</b>			
BMS C760	Human Cadavar Dissection – II	C	5
BMS C764	Systemic Embryology	C	4
BMS C762	Research Project–Phase IV	C	4
	Soft Skill	S	2

**Elective Courses Offered by the Department**

1. Basics of Human Anatomy – I – 3 credits – Theory (On all odd semesters)
2. Basics of Human Anatomy – II – 3 credits – Theory (On all even semesters)

**Students from other departments are eligible to take only these two elective courses** offered by the department. Pre-requisite to these courses are postgraduate students belonging to bio-medical subjects of University of Madras departments.

**M.Sc. NEUROSCIENCE (Faculty of Medicine) under Self-Supportive mode**

Course Code	Course Name	C/E	Credits
<b>Semester I</b>			
BMS C740	Cell and Molecular Biology	C	4
BMS C742	Systemic Human Anatomy – I	C	4
BMS C744	Research Methods in Anatomy and Neuroscience	C	4
BMS C749	Neuroanatomy – I	C	4
	Elective 1 – Offered by other department(s)	E	3
	Elective 2 – Offered by other department(s)	E	3
UOM S001	Soft Skill	S	2
<b>Semester II</b>			

BMS C741	Practical - Cell and Molecular Biology	C	4
BMS C745	Practical - Research Methods in Anatomy & Neuroscience	C	4
BMS C746	Systemic Human Anatomy - II	C	4
BMS C753	Neuroanatomy – II	C	4
	Elective 3 – Offered by other department(s)	E	3
	Elective 4 – Offered by other department(s)	E	3
UOM S002	Soft Skill	S	2
<b>Semester III</b>			
BMS C759	Research Project–Phase I	C	4
BMS C757	Surface anatomy and Medical Imaging	C	4
BMS C764	Molecular Neuroscience	C	4
BMS C765	Neurophysiology	C	4
	Elective 5 – Offered by other department(s)	E	3
	Elective 6 – Offered by other department(s)	E	3
UOM S003	Soft Skill	S	2

<b>Semester IV</b>			
BMS C766	Neuropathology	C	3
BMS C767	Clinical Neuroscience	C	3
BMS C768	Neuro Microbiology, Virology, Immunology	C	2
BMS C769	Research Project – Phase II	C	4
	Elective 7 – Offered by other department(s)	E	3
UOM S004	Soft Skill	S	2
UOM 1001	Internship	I	2
	Total		91

**M.Sc. MEDICAL MICROBIOLOGY (Faculty of Medicine) – Regular and Self Supportive**

Course Code	Title of the Course	C/E	Cr.
<b>I SEMESTER</b>			
BMS C302	Handling and Use of Laboratory Animals	C	4
BMS C801	Human Physiology I	C	4
BMS C802	Practical - Human Physiology - I	C	3
BMS E742	Basics of Human Anatomy - I	E	3
BMS E001	Principles of Biochemistry - I	E	3
	Soft Skill	S	2
<b>II SEMESTER</b>			
BMS C803	Human Physiology II	C	4
BMS C805	Practical - Human Physiology - II	C	3
BMS E746	Basics of Human Anatomy - II	E	3
BMS E002	Principles of Biochemistry - II	E	3
	Soft Skill	S	2
<b>III SEMESTER</b>			
BMS C310	General Microbiology	C	4
BMS C311	Molecular Biology	C	4
BMS C312	Practical V- General Microbiology	C	3
BMS C313	Practical VI- Molecular Biology	C	3
BMS C314	Practical VII- Immunology	C	3
BMS C315	Research Methods in Microbiology	C	3

BMS E302	Basic Immunology	E	3
	Soft Skill	S	2
<b>IV SEMESTER</b>			
BMS C316	Parasitology - I	C	4
BMS C328	Parasitology - II	C	3
BMS C317	Medical Mycology	C	4
BMS C318	Practical - IX - Parasitology and Helminthology	C	3
BMS C319	Practical - X - Medical Mycology	C	3
BMS E902	Basics in Pathology	E	3
BMS E101	Principles of Genetics - I	E	3
	Soft Skill	S	2

<b>V SEMESTER</b>			
BMS C320	Systematic Bacteriology	C	4
BMS C321	Practical - XI - Systematic Bacteriology	C	4
BMS C328	Clinical Bacteriology	C	4
BMS C322	Practical - XII - Clinical Bacteriology	C	4
MSI E130	Bio-Statistics	E	3
	Soft Skill	S	2
<b>VI SEMESTER</b>			
BMS C323	Virology - I	C	4
BMS C324	Virology - II	C	4
BMS C325	Practical - XIII - Virology	C	3
BMS C326	Practical - XIV - Applied Immunology	C	3
BMS C327	Project with dissertation	C	6
BMS E304	Applied Immunology	E	3
BMS E305	Molecular Diagnostic Methods	E	3
BMS C327	Project with dissertation	C	6
UOM S006	Soft Skill	S	2
UOM I002	Internship	I	3

**Note** - Number of Minimum Credits required for Elective Courses is 30

Number of Minimum Credits required for Soft Skills Courses is 12 and Internship is 3

### M.Sc. PHYSIOLOGY (Faculty of Medicine)

Course Code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
BMS C310	General Microbiology	C	3
BMS C821	Experimental Physiology	C	3
BMS C801	Human Physiology -I	C	4
BMS C802	Physiology practical-I	C	3
<b>II SEMESTER</b>			
BMS C822	Developmental Neurology	C	3
BMS C803	Human Physiology - II	C	4
BMS C804	Human Physiology - III	C	4
BMS C805	Physiology practical II	C	3
<b>III SEMESTER</b>			
	Project work assigned	C	-
BMS C425	Endocrine Pathology	C	4

BMS C806	Human Physiology IV	C	4
BMS C807	Human Physiology- V	C	4
BMS C808	Physiology Practical III (Muscle)	C	3
<b>IV SEMESTER</b>			
BMS C809	Human Physiology VI	C	4
BMS C810	Human Physiology VII	C	4
BMS C811	Regulations in Physiology -Paper VIII	C	4
BMS C812	Physiology Practical IV (Heart, Intestine)	C	3
<b>V SEMESTER</b>			
BMSC813	Dissertation	C	6
BMS C814	Applied Physiology -Paper IX	C	4
BMS C815	Physiology Practical-V (Clinical Examination BP, ECG)	C	3
<b>VI SEMESTER</b>			
BMS C816	Human physiology X	C	4
BMS C817	Human physiology XI	C	4
BMS C818	Human physiology XII	C	4
BMS C819	Physiology Practical VI	C	4
BMS C820	Physiology Practical VII	C	4

**Note** - Number of Minimum Credits required for Core Courses is 90

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Semester	C/E /S	Credit
BMS E001	Principles of Biochemistry I	I	E	3
BMS E104	Population genetics	I	E	3
	Soft skill	I	S	2
BMS E002	Principles of Biochemistry II	II	E	3
BMS E404	Reproductive physiology & Endocrinology	II	E	3
	Soft skill	II	S	2
BMS E101	Principles of genetics - I	III	E	3
BMS E401	Molecular and Cellular Endocrinology	III	E	3
	Soft skill	III	S	2
BMS E902	Basic Pathology	IV	E	3
MSI E130	Bio Statistics	IV	E	3
	Soft skill	IV	S	2
BMS E905	Reproductive Endocrine Toxicology	V	E	3
BMS E302	Basic Immunology	V	E	3
UOM I002	Internship	V	I	3
	Soft skill	V	S	2
	Soft skill	VI	S	2
BMSE801	Basics of human Physiology (Odd Semester)		E	3
BMSE802	Pathophysiology (Even Semester)		E	3

**Note** - Number of Minimum Credits required for Elective Courses is 30

Number of Minimum Credits required for Soft Skills Courses is 12

Number of Minimum Credits required for Internship Courses is 3

We will be advising the students to take new soft skills from the online sources like "Swayam, NPTELs" at the beginning of every semester.

**M.Sc. BIOMEDICAL GENETICS**

Course Code	Title of the Course	C/E/S/I	Cr.
<b>SEMESTER-I</b>			
BMS C 101	Cellular organization and Biomacromolecules	C	4
BMS C 102	Microbial Genetics	C	4
BMS C 103	Eukaryotic Genetics	C	4
BMS C 104	Practical - I	C	4
BMS E 001	Principles of Biochemistry-I	E	3
BMS E 742	Basics of Human Anatomy-I	E	3
	Soft Skill	S	2
<b>SEMESTER-II</b>			
BMS C 105	Molecular Genetics	C	4
BMS C 106	Human Cytogenetics	C	4
BMS C 107	Molecular basis of genetic disorders	C	4
BMS C 108	Practical - II	C	4
BMS E 101	Principles of Genetics-I	E	3
BMS E 002	Principles of Biochemistry-II	E	3
BMS E 746	Basics of Human Anatomy-II	E	3
	Soft Skill	S	2
UOM I 001	Internship	I	2
<b>SEMESTER-III</b>			
BMS C 109	Developmental Genetics	C	4
BMS C 110	Bioinformatics and Proteomics	C	3
BMS C 111	Gene Therapy	C	3
BMS C 112	Practical - III	C	4
BMS E 102	Principles of Genetics-II	E	3
BMS E 302	Basic Immunology	E	3
BMS E 403	Principles of Endocrinology	E	3
	Soft Skill	S	2
<b>SEMESTER-IV</b>			
BMS C 113	Principles of Gene Manipulation and Genomics	C	4
BMS C 114	Cancer Genetics	C	4
BMS C 115	Project	C	6
BMS E 304	Applied Immunology	E	3
BMS E 403	Molecular and Cellular Endocrinology	E	3
	Soft Skill	S	2

**Soft-Skill:** Students of the Department will be advised to take the soft skill courses from SWAYAM/MOOC web portal before the commencement of every semester.

**JOB ORIENTED COURSE: (NOT MANDATORY FOR CLASSIFICATION)**

BMS S101: Molecular Diagnostics Techniques - 2 Credits

**VALUE ADDED COURSE: (NOT MANDATORY FOR CLASSIFICATION)**

BMS S102: Zebrafish Husbandry and Basic Techniques in Biomedical Research - 2 Credits

**M.Phil. ENDOCRINOLOGY**

Course Code	Title of the Course	C/E	Credits
<b>I SEMESTER</b>			
BMS C121	Hormones : Chemistry and Actions	C	5
BMS C123	Endocrine Physiology and Pathophysiology	C	5
BMS C125	Research Methodology	C	5
<b>II SEMESTER</b>			
BMS C122	Dissertation and viva-voce		
	Dissertation – 10, Evaluation by guide – 6 & Viva-Voce-5	C	21

## DEPARTMENT OF PATHOLOGY

### ADVANCED DIPLOMA IN CELLULAR AND MOLECULAR PATHOLOGY TECHNIQUES (SELF-SUPPORTIVE)

Course Code	Title of the Course	C/E	Credit
<b>I SEMESTER</b>			
BMS C601	Molecular Pathology and Cytogenetics	C	3
BMS C602	Histochemistry and Immunohistochemistry	C	3
BMS C603	Molecular Pathology and Cytogenetics (Practicals)	C	3
<b>II SEMESTER</b>			
BMS C604	Special Techniques in Haematology	C	3
BMS C605	Histochemistry and Immunohistochemistry (Practicals)	C	3
BMS C606	Special Techniques in Haematology (Practicals)	C	3

## SCHOOL OF NANOSCIENCE AND PHOTONICS

The school consists of National Centre for Ultrafast Process (NCUFP) and National Centre for Nanoscience and Nanotechnology.

National Centre for Ultrafast Process was established in 1997 initially as a DST-IRHPA-National facility-the first of its kinds for the use of researchers in academic institutions for time resolved emission and absorption studies in the pico and femto-second time scale. With the input of funds for separate building from the Tamil Nadu Government, the centre emerged as an advanced centre for research and the Senate of University of Madras approved the centre as a part of University of Madras and made it as an Advanced Centre for Research in November - 2000. The centre has now emerged as a premier centre for photonics and ultrafast spectroscopy. The centre has mobilized research grants to the tune Rs.700 lakhs through several funded projects including the DST-IRPHA 1st Phase, 2nd Phase, UGC Innovative Programme and research projects from other funding agencies like DST-SERC, DRDO,CSIR.

NCUFP houses hi-tech laser facilities in the time resolution of nanosecond, picosecond and femto second to cater to the needs of Chemists, Physicists and Biologists. The research activities of the centre include electron transfer, proton transfer, solvation dynamics, nanomaterials, Supramolecular inorganic and polymeric systems, liquid crystals. The centre has a collaborative DRDO research project with Regional Research Laboratory, Trivandrum. The Centre has more than 150 users from different parts of the country. The in-house scientists and the users of the centre have produced more than 150 publications in the high impact factor journals like, J.Am. Chem. Soc, J,Phys. Chem, Org. Lett, J.Org. Chem,-Chem. Phys. Chem, Chem. Phys. Letts, etc. during the last decade. In-house scientists are the recipients of Bhatnagar Award, Fellow of Indian Academy and National Academy,

UGC career Award, TANSa award and CRSI Silver and Bronze medals.

The Centre conducts interdisciplinary M.Sc programme on “Photonics & Biophotonics” under Choice Based Credit System initiated by UGC under the Innovative programme. Photonics is a multi-disciplinary subject that combines advanced electronics and Optical technologies. Photonic technology, forms basis for the development of future technologies in telecommunications, health care, aerospace etc. Bio-photonics is the interface of photonics and biological sciences, offering tremendous prospects for optical diagnostics, light activated therapy, surgery, biosensing and restoration of biological functions. The course duration is two years (Four Semester) with a project in the final semester.

### **National Centre for Nanoscience and Nanotechnology**

The National Centre for Nanoscience and Nanotechnology in the University of Madras was started in May 2006 with a seed grant of Rs.5 crore from the Government of Tamil Nadu. It is a totally interdisciplinary course involving physicists, chemists, biologists and medical scientists. It had a core committee consisting of members from all these disciplines to advise the University the course of research as well as the course of teaching activity. In August 2006 the centre introduced M.Sc./M.Tech. dual degree programme. From 2010, the Centre has introduced two years M.Sc. programme in Nanoscience and Nanotechnology.

In 2007, the Ministry of Human Resource Development of India has given a grant of Rs.100 crore for the development of this Centre with a thrust to Biomedical Nanotechnology. This grant includes appointment of a new faculty in the cadre of Professors, Readers, and Lecturers. The total approved faculty strength with the grants from MHRD and Tamilnadu Government is 24. The Centre for Nanoscience and Nanotechnology has its own Governing Council and Research Advisory Council for which the Vice-chancellor of the University will be the President and the Director of the Centre will be the Member Secretary to look after the day to day activity of the centre. This will be a nodal point for a collaborative research and teaching with all the four science schools of the University namely, School of Physical Sciences, School of Chemical Sciences, School of Life Sciences and School of Basics Medical Sciences. The centre has high end instrumentation facility and the flowing equipments have been installed and are working in good condition.

The instruments are, Scanning Electron Microscope, Transmission Electron Microscope, Field Emission Scanning Electron Microscope. High Resolution Transmission Electron Microscope, X-ray photoelectron spectrometer, Confocal Raman microscope and DRS-UV visible spectrophotometer. The facilities available at the centre have been extended to all the students of the Departments of University of Madras. In addition, the centre has provided financial assistance in the form of projects to the Science Faculty members of the University of Madras.

#### **Faculty**

Dr. S. Balakumar, Ph.D	Chairperson
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#### **National Centre for Ultrafast Process**

Dr. C. Selvaraju, Ph.D	Assistant Professor & Director i/c,
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#### **National Centre for Nanoscience and Nanotechnology**

Dr. S. Balakumar, Ph.D	Professor & Director
Dr. R. Ilangovan, Ph.D	Professor
Dr. Amutha Santhanam, Ph.D	Professor
Dr. D. Ravishankaran, Ph.D	Professor



Dr. M. Jeyaraj, Ph.D  
Dr. T. Prakash, Ph.D

Assistant Professor  
Assistant Professor

### PHOTONICS AND BIOPHOTONICS

Course Code	Title of the Course	Type	Credit
<b>I SEMESTER</b>			
UFC C049	Photonics	C	4
UFC C050	Chemical Biology	C	4
UFC C051	Quantum Chemistry	C	4
UFC C052	Practical-I Optics and Computational Methods	C	4

<b>II SEMESTER</b>			
UFC C053	Group Theory and Spectroscopy	C	4
UFC C054	Photophysics and Photochemistry	C	4
UFC C055	Semiconductors & Devices	C	4
UFC C057	Practical - II Spectroscopy	C	3
<b>III SEMESTER</b>			
UFC C058	Optoelectronics and Fibre Optics	C	4
UFC C059	Lasers Theory & Principles	C	4
UFC C060	Nanophotonics & Photonic Materials	C	4
UFC C061	Practical - III Lasers and Optoelectronics	C	4
<b>IV SEMESTER</b>			
UFC C062	Laser Material Processing	C	4
UFC C063	Biophotonics	C	4
UFC C064	Project and viva-voce	C	4

<b>ELECTIVE &amp; SOFT SKILL COURSES</b>			
NSN E001	Introduction to Material Science	E	3
UFC E004	Fluorescence Spectroscopy for Biologists	E	3
PHY E102	Nuclear Detectors and Techniques	E	3
PHY E103	Mobile Communication	E	3
PHY E001	Computational Biology	E	3
UOMS115	Lab Safety and First Aid	S	2
CHE E502	Solid State Ionic Materials	E	3
CHE E503	Energy Conversion Phenomena	E	3
PHY E105	Safety Aspects of Ionising Radiation	E	3
PHY E304	Mathematical Techniques	E	3
NSN E002	Introduction to Nanobiotechnology	E	3
UOMS130	Workshop Skill-Electrical, Mechanical, Carpentry & Plumbing	S	2
UOM I001	Internship	I	2
NSN E004	Applications of Nanomaterials	E	3
PHY E108	Introduction to Spintronics	E	3
PHY E109	Materials Characterization	E	3
CHE E506	Solar Collectors and Heaters	E	3
PHY E306	General Relativity and Cosmology	E	3
UFC E004	Laser Radiation Hazards and Safety Measures*	E	3
UOMS116	Fire Safety and Firefighting	S	2

CHE E507	Energy and Environment	<b>E</b>	<b>3</b>
PHY E110	Physics of Imaging	<b>E</b>	<b>3</b>
PHY E311	Band Gap Engineering in Semiconductors	<b>E</b>	<b>3</b>
UOMS117	Scientific Databases-SciFinder, Mandeleef, Scopus, Web of Science and Google Scholar	<b>S</b>	<b>2</b>
UFC E003	Crystal growth and Experimental techniques	<b>E</b>	<b>3</b>
UOMS118	Spectroscopy Instrumentation	<b>S</b>	<b>2</b>
UOMS131	Scientific Graphs and Images	<b>S</b>	<b>2</b>
UOMS132	Laboratory Safety and Health	<b>S</b>	<b>2</b>

\* *Electives offered for other Departments*

**M.Sc. NANOSCIENCE AND NANOTECHNOLOGY (Regular & Self Supportive)**

Course Code	Course Title	C/E	Cr.
<b>I - SEMESTER</b>			
NSN C001	Introductory Physics	C	4
NSN C002	Introductory Chemistry	C	4
NSN C003	Introductory Biology	C	4
NSN C004	Introduction to Nanoscience and Nanotechnology	C	4
NSN C005	Nanoscience - Practical-I	C	4
<b>II - SEMESTER</b>			
NSN C006	Preparation of Nanomaterials	C	4
NSN C007	Properties of Nanomaterials	C	4
NSN C008	Characterization Techniques of Nanomaterials -I	C	4
NSN C009	Nanoscience Practical-II	C	4
<b>III - SEMESTER</b>			
NSN C 010	Nanoelectronics and Nanosensors	C	4
NSN C 011	Characterization Techniques of Nanomaterials-II	C	4
NSN C 012	Nanomaterials for Energy System	C	4
NSN C 013	Nanoscience Practical – III	C	4
<b>IV - SEMESTER</b>			
NSN C 014	Advanced Nanobiotechnology	C	4
NSN C 015	Biomedical Nanotechnology	C	4
NSN C 016	Project	C	4

**ALTERNATIVE CORE COURSES**

SEMESTER I : Alternative to NSNT - C003 Introductory to Biology

NSNC 017	Biology and Nanobiotechnology	C	4
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SEMESTER II : Alternative to NSNT - C006 Preparation of Nanomaterials

NSNC 018	Nanoscale Engineering of Materials	C	4
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SEMESTER III :

NSNC 019	Nanostructures and Devices	C	4
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SEMESTER IV :

NSNC 020	Nanotechnology for Food and Agriculture	C	4
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<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>				
Course Code	Title of the Course	Sem	C/E /S	Credit
NSN E001*	Introduction to Material Science	<b>I</b>	E	3
	Soft Skill	<b>I</b>	S	2
NSN E009	Nanobiotechnology	<b>II</b>	E	3
NSN E003*	Introduction to Nanotoxicology	<b>II</b>	E	3
	Soft Skill	<b>II</b>	S	2
NSN E004	Applications of Nanomaterials	<b>III</b>	E	3
NSNE005*	Biomaterials & Nanobiotechnology for Tissue Engineering	<b>III</b>	E	3
	Soft Skill	<b>III</b>	S	2

	Internship	<b>III</b>	<b>I</b>	<b>2</b>
NSN E006	Computational Nanoscience	<b>IV</b>	<b>E</b>	<b>3</b>
NSN E007*	Industrial Nanotechnology	<b>IV</b>	<b>E</b>	<b>3</b>
	Soft Skill	<b>IV</b>	<b>S</b>	<b>2</b>

Electives of Paper I, Paper III, Paper V and Paper VII as specified in the course curriculum (appended) will have to be mandatorily taken by the students of this department and students are free to choose the other three electives from other departments.

### **LIST OF SOFT SKILLS FROM NCNSNT**

UOMS131	Scientific Graphs And Images	<b>S</b>	<b>2</b>
UOMS132	Laboratory Safety And Health	<b>S</b>	<b>2</b>

### **MOOCs (Massive Open Online Courses)**

\* Students in Consultation with the Faculty Members May Choose A MOOC Course for Each Semester

## **DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS**

### **Growth of Madras University Union**

During the year 1932, the Syndicate of the Madras University resolved to start the Madras University Union at the House then known as 'Rutland House' in the Spur Tank Road, Chetpet, with provision for playing Tennis and Ball Badminton only. At present, The Madras University Sports Union is one of the best sports centres in Chennai, providing training facility not only to the Madras University Students, but to a larger section of public and private sectors and sports Associations for their sports programmes

### **Aims and Objectives**

The aim of Madras University Union is to promote activities in the field of Sports and Games with excellent infrastructure facilities and also to provide a systematic and scientific training for the students of affiliated colleges. More than 17,000 (Seventeen Thousands) students get competitive experience from the zonal and Inter-zonal competition organized by the Madras University every year.

### **Nature of Programme**

- Madras University affiliated colleges divided into two Zones. (Both Men & Women).
- Total number of Games and Sports 36.
- Nearly 17,000 students get competitive experience every year.
- Conduct of Summer Residential Coaching Camp and Award Function every year during the month of May and June.
- Coaching for school children, college boys and girls, both Morning and Evening sessions at University Union Ground.
- Conduct All India Inter-University Sports/Games Competitions.
- Conduct Award Function for the Madras University Sports persons, Managers and Coaches who have brought laurels to our University by securing medals during the All India Inter-University Competitions.

**Faculty : Dr. V. Mahadevan - Director**

### **Courses Offered**

- M.Sc., Yoga (Regular)
- Ph.D. Programme (Full-Time/Part-Time)
- P.G.Diploma in Yogic Education (1 Year Regular) Two shift Program

**M.Sc. YOGA**

Course Code	Title of the Course	C/E/S	Credits			
			L	T	P	C
<b>I SEMESTER</b>						
PES C001	History and Development of Yoga	C	2	1	1	4
PES C002	Anatomy and Physiology	C	3	1	0	4
PES C003	Fitness and Wellness	C	3	1	0	4
PES C004	Practical-I Principles of Yoga and Methods of Yogic	C	1	0	3	4
<b>II SEMESTER</b>						
PES C005	Yoga and Mental Health	C	3	1	0	4
PES C006	Yoga, Physiology and Psychology	C	3	1	0	4
PES C007	Yoga and Alternative medicine	C	3	1	0	4
PES C008	Practical-II- Principles of Yoga and Methods of Yogic	C	1	0	3	4
<b>III SEMESTER</b>						
PES C010	Research and Statistics in Yoga	C	2	1	1	4
PES C011	Health and Fitness	C	3	1	0	4
PES C012	Yoga Therapy for Positive Health	C	3	1	0	4
PES C013	Practical – III : Principles of Yoga and Methods of Yogic	C	1	0	3	4
<b>IV SEMESTER</b>						
PES C014	Yoga for Intellectual Awareness	C	0	1	3	4
PES C015	Project	C	0	1	5	8

<b>ELECTIVE &amp; SOFT SKILL COURSES OFFERED FOR THE DEPARTMENT / SCHOOL</b>			
Course Code	Title of the Course	C/E /S	Credit
PES E001	Applied Sports Physiology	E	3
PES E002	Applied Sports Psychology	E	3
UOMS111	Seminar (Communication and Presentation Skills)	S	2
PES E003	Yoga and Sports performance	E	3
PES E004	Patanjali yoga	E	3
UOMS112	Technical Writing (Research Articles/ Reports/ Thesis)	S	2
PES E005	Yoga therapy	E	3
PES E006	Yoga and Meditation	E	3
UOMS143	Fitness Development	S	2
UOM I001	Internship	I	2
PES E007	Applications of Test and Measurement	E	3
UOMS144	Evaluation of Human performance	S	2

**M.PHIL. IN PHYSICAL EDUCATION AND YOGA**

Course Code	Title of the Course	C/E/S	Credits
<b>I SEMESTER</b>			
PES C 101	Research Methodology and Statistics in Physical Education and Yoga	C	5
PES C 102	Methods of Hatha Yoga Sadhana	C	5
PES C 103	Scientific Methods of Sports Training	C	5
	Elective – (Any one paper listed below)	E	5
<b>II SEMESTER</b>			
PES C 104	Dissertation	C	21

**ELECTIVE PAPERS**

*Candidates who holds PG Degree in Physical Education*

PES E 101	Yogic Therapy and Diet	E	5
PES E 102	Yoga and Health Science	E	5
PES E 103	Yoga and Self Realization	E	5
<b>Candidates who holds PG Degree in Yoga</b>			
PES E 104	Yogic Physiology and Psychology	E	5
PES E 105	Physical Education and Yoga	E	5
PES E 106	Exercise Physiology	E	5

**POST GRADUATE DIPLOMA IN YOGIC EDUCATION**

Course Code	Title of the Course	C/E/S	Credits
<b>I SEMESTER</b>			
PES C101	Human Anatomy, Physiology and Psychology		6
PES C102	Methods of yoga Teaching Techniques		6
PES C103	Yogic Physiology and Psychology		6
PES C104	Yoga Economy and Management		6
<b>II SEMESTER</b>			
	Elective Paper* (Any ONE Paper listed below)		6
PES C105	Projects		6
	Total		<b>36</b>
PES E101	Yoga Therapy and Diet		6
PES E102	Yoga and Health Science		6
PES E103	Yoga and Physical Education		6

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**XII - UNIVERSITY CALENDAR**

**AUGUST 2021**

<b>DATE</b>	<b>DAY</b>	<b>DETAILS</b>
1.	SUN	HOLIDAY
2.	MON	
3.	TUE	
4.	WED	
5.	THU	
6.	FRI	
7.	SAT	
8.	SUN	HOLIDAY
9.	MON	
10.	TUE	
11.	WED	
12.	THU	
13.	FRI	
14.	SAT	
15.	SUN	INDEPENDENCE DAY - HOLIDAY
16.	MON	
17.	TUE	
18.	WED	
19.	THU	
20.	FRI	MUHARRAM- HOLIDAY
21.	SAT	
22.	SUN	HOLIDAY
23.	MON	
24.	TUE	
25.	WED	
26.	THU	
27.	FRI	
28.	SAT	
29.	SUN	HOLIDAY
30.	MON	KRISHNA JAYANTHI - HOLIDAY
31.	TUE	

SEPTEMBER 2021

DATE	DAY	DETAILS
1.	WED	
2.	THU	
3.	FRI	
4.	SAT	
5.	SUN	HOLIDAY
6.	MON	
7.	TUE	
8.	WED	
9.	THU	
10.	FRI	VINAYAKAR CHATHURTHI- HOLIDAY
11.	SAT	
12.	SUN	HOLIDAY
13.	MON	
14.	TUE	
15.	WED	
16.	THU	
17.	FRI	
18.	SAT	
19.	SUN	HOLIDAY
20.	MON	
21.	TUE	
22.	WED	
23.	THU	
24.	FRI	
25.	SAT	
26.	SUN	HOLIDAY
27.	MON	
28.	TUE	
29.	WED	
30.	THU	



OCTOBER 2021

DATE	DAY	DETAILS
1.	FRI	
2.	SAT	GANDHI -JAYANTI - HOLIDAY
3.	SUN	HOLIDAY
4.	MON	
5.	TUE	
6.	WED	
7.	THU	
8.	FRI	
9.	SAT	
10.	SUN	HOLIDAY
11.	MON	
12.	TUE	
13.	WED	
14.	THU	AYUTHA POOJA - HOLIDAY
15.	FRI	VIJAYA DASAMI - HOLIDAY
16.	SAT	
17.	SUN	HOLIDAY
18.	MON	
19.	TUE	MILAD-UN-NABI - HOLIDAY
20.	WED	
21.	THU	
22.	FRI	
23.	SAT	
24.	SUN	HOLIDAY
25.	MON	
26.	TUE	
27.	WED	
28.	THU	
29.	FRI	
30.	SAT	
31.	SUN	HOLIDAY

NOVEMBER 2021

DATE	DAY	DETAILS
1.	MON	
2.	TUE	
3.	WED	
4.	THU	DEEPAVALI- HOLIDAY
5.	FRI	
6.	SAT	
7.	SUN	HOLIDAY
8.	MON	
9.	TUE	
10.	WED	
11.	THU	
12.	FRI	
13.	SAT	
14.	SUN	HOLIDAY
15.	MON	
16.	TUE	
17.	WED	
18.	THU	
19.	FRI	
20.	SAT	
21.	SUN	HOLIDAY
22.	MON	
23.	TUE	
24.	WED	
25.	THU	
26.	FRI	
27.	SAT	
28.	SUN	HOLIDAY
29.	MON	
30.	TUE	

DECEMBER 2021

DATE	DAY	DETAILS
1.	WED	
2.	THU	
3.	FRI	
4.	SAT	
5.	SUN	HOLIDAY
6.	MON	
7.	TUE	
8.	WED	
9.	THU	
10.	FRI	
11.	SAT	
12.	SUN	HOLIDAY
13.	MON	
14.	TUE	
15.	WED	
16.	THU	
17.	FRI	
18.	SAT	
19.	SUN	HOLIDAY
20.	MON	
21.	TUE	
22.	WED	
23.	THU	
24.	FRI	
25.	SAT	CHRISTMAS - HOLIDAY
26.	SUN	HOLIDAY
27.	MON	
28.	TUE	
29.	WED	
30.	THU	
31.	FRI	

JANUARY 2022

DATE	DAY	DETAILS
1.	SAT	NEW YEAR - HOLIDAY
2.	SUN	HOLIDAY
3.	MON	
4.	TUE	
5.	WED	
6.	THU	
7.	FRI	
8.	SAT	
9.	SUN	HOLIDAY
10.	MON	
11.	TUE	
12.	WED	
13.	THU	
14.	FRI	PONGAL - HOLIDAY
15.	SAT	THIRUVALLUVAR DAY - HOLIDAY
16.	SUN	UZHAVAR THIRUNAL - HOLIDAY
17.	MON	
18.	TUE	
19.	WED	
20.	THU	
21.	FRI	
22.	SAT	
23.	SUN	HOLIDAY
24.	MON	
25.	TUE	
26.	WED	REPUBLIC DAY - HOLIDAY
27.	THU	
28.	FRI	
29.	SAT	
30.	SUN	HOLIDAY
31.	MON	

FEBRUARY 2022

DATE	DAY	DETAILS
1.	TUE	
2.	WED	
3.	THU	
4.	FRI	
5.	SAT	
6.	SUN	HOLIDAY
7.	MON	
8.	TUE	
9.	WED	
10.	THU	
11.	FRI	
12.	SAT	
13.	SUN	HOLIDAY
14.	MON	
15.	TUE	
16.	WED	
17.	THU	
18.	FRI	
19.	SAT	
20.	SUN	HOLIDAY
21.	MON	
22.	TUE	
23.	WED	
24.	THU	
25.	FRI	
26.	SAT	
27.	SUN	HOLIDAY
28.	MON	

MARCH 2022

DATE	DAY	DETAILS
1.	TUE	
2.	WED	
3.	THU	
4.	FRI	
5.	SAT	
6.	SUN	HOLIDAY
7.	MON	
8.	TUE	
9.	WED	
10.	THU	
11.	FRI	
12.	SAT	
13.	SUN	HOLIDAY
14.	MON	
15.	TUE	
16.	WED	
17.	THU	
18.	FRI	
19.	SAT	
20.	SUN	HOLIDAY
21.	MON	
22.	TUE	
23.	WED	
24.	THU	
25.	FRI	
26.	SAT	
27.	SUN	HOLIDAY
28.	MON	
29.	TUE	
30.	WED	
31.	THU	

APRIL 2022

DATE	DAY	DETAILS
1.	FRI	
2.	SAT	
3.	SUN	HOLIDAY
4.	MON	
5.	TUE	
6.	WED	
7.	THU	
8.	FRI	
9.	SAT	
10.	SUN	HOLIDAY
11.	MON	
12.	TUE	
13.	WED	
14.	THU	MAHAVIR JAYANTI- HOLIDAY
15.	FRI	GOOD FRIDAY- HOLIDAY
16.	SAT	
17.	SUN	HOLIDAY
18.	MON	
19.	TUE	
20.	WED	
21.	THU	
22.	FRI	
23.	SAT	
24.	SUN	HOLIDAY
25.	MON	
26.	TUE	
27.	WED	
28.	THU	
29.	FRI	
30.	SAT	

MAY 2022

DATE	DAY	DETAILS
1.	SUN	MAY DAY - HOLIDAY
2.	MON	
3.	TUE	RAMZAN - HOLIDAY
4.	WED	
5.	THU	
6.	FRI	
7.	SAT	
8.	SUN	HOLIDAY
9.	MON	
10.	TUE	
11.	WED	
12.	THU	
13.	FRI	
14.	SAT	
15.	SUN	HOLIDAY
16.	MON	
17.	TUE	
18.	WED	
19.	THU	
20.	FRI	
21.	SAT	
22.	SUN	HOLIDAY
23.	MON	
24.	TUE	
25.	WED	
26.	THU	
27.	FRI	
28.	SAT	
29.	SUN	HOLIDAY
30.	MON	
31.	TUE	



JUNE 2022

DATE	DAY	DETAILS
1.	WED	
2.	THU	
3.	FRI	
4.	SAT	
5.	SUN	HOLIDAY
6.	MON	
7.	TUE	
8.	WED	
9.	THU	
10.	FRI	
11.	SAT	
12.	SUN	HOLIDAY
13.	MON	
14.	TUE	
15.	WED	
16.	THU	
17.	FRI	
18.	SAT	
19.	SUN	HOLIDAY
20.	MON	
21.	TUE	
22.	WED	
23.	THU	
24.	FRI	
25.	SAT	
26.	SUN	HOLIDAY
27.	MON	
28.	TUE	
29.	WED	
30.	THU	

JULY 2022

DATE	DAY	DETAILS
1.	FRI	
2.	SAT	
3.	SUN	HOLIDAY
4.	MON	
5.	TUE	
6.	WED	
7.	THU	
8.	FRI	
9.	SAT	
10.	SUN	BAKRID - HOLIDAY
11.	MON	
12.	TUE	
13.	WED	
14.	THU	
15.	FRI	
16.	SAT	
17.	SUN	HOLIDAY
18.	MON	
19.	TUE	
20.	WED	
21.	THU	
22.	FRI	
23.	SAT	
24.	SUN	HOLIDAY
25.	MON	
26.	TUE	
27.	WED	
28.	THU	
29.	FRI	
30.	SAT	
31.	SUN	HOLIDAY

AUGUST 2022

DATE	DAY	DETAILS
1.	SUN	HOLIDAY
2.	MON	
3.	TUE	
4.	WED	
5.	THU	
6.	FRI	
7.	SAT	
8.	SUN	HOLIDAY
9.	MON	
10.	TUE	
11.	WED	
12.	THU	
13.	FRI	
14.	SAT	
15.	SUN	HOLIDAY
16.	MON	
17.	TUE	
18.	WED	
19.	THU	
20.	FRI	MUHARRAM- HOLIDAY
21.	SAT	
22.	SUN	HOLIDAY
23.	MON	
24.	TUE	
25.	WED	
26.	THU	
27.	FRI	
28.	SAT	
29.	SUN	HOLIDAY
30.	MON	KRISHNA JAYANTHI - HOLIDAY
31.	TUE	