



1	Name of the Department	POLYMER SCIENCE
2	Year of establishment	1983
3	Is the Department part of a School/Faculty of the university?	YES; PART OF SCHOOL OF CHEMICAL SCIENCES
4	Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)	1) PG- M.Sc. Polymer Chemistry 2) Ph.D - Ph.D in Polymer Science
5	Interdisciplinary programmes and departments involved	Nil
6	Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil
7	Details of programmes discontinued, if any, with reasons	Nil
8	Examination System: Annual/ Semester/ Trimester/Choice Based Credit System	Choice Based Credit System
9	Participation of the department in the courses offered by other departments	This department participates in the courses offered by other departments through offering 5 electives in the polymer science subjects.

**10. Number of teaching posts sanctioned, filled and actual
 (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	Nil	1(CAS)
Associate Professors	2	1 (Promoted as Professor)	Nil
Asst. Professors	2	2	2
Others	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr.A.SultanNasar	Ph.D.	Professor & Head	Polymer Science	19 years (including 13 years of teaching)	5
Dr.G.Harichandran	Ph.D.	Assistant Professor	Physical chemistry- Polymer science	17 years teaching	9
Dr.N.Rajendiran	Ph.D.	Assistant Professor	Inorganic - Physical Chemistry	8-1/2 years teaching	7

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

Nil

13. Percentage of classes taken by temporary faculty – programme-wise information

Guest Faculty (Par-time), 25%

14. Programme-wise Student Teacher Ratio

M.Sc. Polymer Chemistry :30:4 [Student 30 – Staff 3 +1 (Guest Lecturer)]

Ph.D. Polymer Science : 21:3 [Students 21 - Staff 3]

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

	Sanctioned	Filled	Actual
Technical	3	2 Vacant	1
Section Officer	1	1	1

16. Research thrust areas as recognized by major funding agencies

- 1) Dendritic and highly branched polymers
- 2) Branched biodegradable polymers
- 3) Nano particles



17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

- a) Number of faculty with ongoing projects– *National funding agencies: 2*
- b) Number of faculty with ongoing projects– *International funding agencies: Nil*
- c) *Rs.97.87 Lakhs*

Name of funding agencies	Project title	Grants received (in Lakhs)
DST	Topologically new polymers through controlled molecular architecture	Rs.51.75
CSIR	Topologically new polymers via ATRP method	Rs.20.3
UGC	Synthesis and characterization of novel pH/photothermal sensitive.....biomedical applications	Rs.5.88
DST	Synthesis and characterization and biological studies.....nano particles	Rs.19.94

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration - Nil
- b) International collaboration – Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with

- state recognition- Nil
- national recognition - *GPC with Light Scattering Detector worth of Rs.39 lakhs was purchased under a DST Project and installed in the Department.*
- international recognition - Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies - Nil

22. Publications:

- * Number of papers published in peer reviewed journals (national / international) :
- * Monographs :
- * Chapters in Books :
- * Edited Books : -
- * Books with ISBN with details of publishers :
- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :
- * Citation Index – range / average :
- * SNIP :
- * SJR :
- * Impact Factor – range / average :
- h-index :

23. Details of patents and income generated - Nil

24.Areas of consultancy and income generated- Nil

25. Faculty selected nationally / internationally to visit other laboratories /institutions / industries in India and abroad

Nil.

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify):

Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Dr.N.Rajendiran, was participated in the Refresher course in Nano science (11.11.2009-1.12.2009), conducted by Academic Staff College, University of Madras

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects –**75%**
- percentage of students doing projects in collaboration with other universities / industry / institute – 25%

29.Awards / recognitions received at the national and international level by

- Faculty – Nil
- Doctoral / post doctoral fellows - Nil
- Students - Nil

30.Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Nil

31. Code of ethics for research followed by the departments

UGC regulations on minimum standard and procedure for the award of M.Phil/Ph.D. degree – 2009 are followed.

32. Student profile programme-wise:

	Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
2008-09	M.Sc.	44	3	3	100%	100%
2009-10	M.Sc.	41	3	3	100%	100%
2010-11	M.Sc.	28	8	7	100%	100%
2011-12	M.Sc.	30	3	5	100%	100%
2012-13	M.Sc.	42	8	7	-	-
2008-09	Ph.D.	8	6	2	-	-
2009-10	Ph.D.	4	2	2	-	-
2010-11	Ph.D.	3	2	1	-	-
2011-12	Ph.D.	6	3	3	-	-

33. Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.Sc. (2009-2010)	100%	0%	-	-
M.Sc. (2010-2011)	20%	80%	-	-
M.Sc. (2011-2012)	60%	40%	-	-
M.Sc. (2012-2013)	30%	50%	10%	10%

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

One student, Mr.A.Gopinath (2010-2012 Batch) belongs to MBC category cleared NET (Lectureship) and GATE

35. Student progression

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-

Student progression	Percentage against enrolled
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurs	-

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	33.3%
from other universities within the State	66.7%
from universities from other States	Nil
from universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

NIL

38. Present details of departmental infrastructural facilities with regard to

- a) Library *- Departmental Library with 66 Books*
- b) Internet facilities for staff and students *- All staff and students are provided with Internet facilities with WIFI connectivity*
- c) Total number of class rooms *- Two*
- d) Class rooms with ICT facility *- NIL*
- e) Students' laboratories *- M.Sc. Laboratory 1 (One)*
- f) Research laboratories *- TWO*

39. List of doctoral, post-doctoral students and Research Associates : Enclosed

- a) from the host institution/university

Sl.No	Name of the Scholar
01	Mr.S.DavidAmalraj
02	Mr.S.Veerapandian
03	Mr.S.Chandirasekar
04	Mr.M.Annadhasan
05	Ms.K.Sarojini Devi
06	Mr.P.Thangamuniyandi
07	Ms.M.R.Jayashree
08	Mr.M.Kanagaraj
09	Mr.S.Sathiyaraj
10	Ms.M.Vanitha
11	Ms.P.Parameshwari
12	Mr.T.Muthukumarasamyvel
13	Mr.G.Christopher
14	Mr.S.Prasad
15	Mrs.S.Tharani

16	Mr.R.Narasimhan
17	Mr.J.SembianRuso
18	Mrs.G.Libni
19	Mrs.S.Kalaimani
20	Mr.N.Elangovan
21	Mr.V.R.SankarfBabu

b) from other institutions/universities - Nil

40. Number of post graduate students getting financial assistance from the university. - 4 M.Sc.students getting financial assistance from Earn While Learn Scheme every year.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Nil

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes. Feedback received from the faculties is placed before the Departmental Committee to revise the curriculum.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Students on staff – every academic year feedback is obtained by the IQAC and the findings are communicated to the faculty individually every year. The feedback is taken into account for confirmation/ promotion.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Nil

43. List the distinguished alumni of the department (maximum 10)

Nil

44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts.

Madras University Chapter of Indian Plastic Institute has been started in the Department of Polymer Science. The First Seminar on Plastics in Packaging Industries was held on 6th August 2011. Experts from all over India delivered

lectures for our students.

45. List the teaching methods adopted by the faculty for different programmes.

OHP and LCD Projectors

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The teaching methods include lectures followed by discussions, assignments, tests, seminars, quiz and counseling.

47. Highlight the participation of students and faculty in extension activities.

Students are regularly participating in the Science Exhibition conducted by Science City, Govt. of Tamil Nadu, every year.

48. Give details of “beyond syllabus scholarly activities” of the department.

Students are regularly participating in the Science Exhibition conducted by Science City, Govt. of Tamil Nadu, every year.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

M.Sc. Polymer Chemistry course offered in this department is unique and job oriented. For the last four years, this department has trained-up 50 post graduates and 5 Ph.D scholars in Polymer Science. They are working in academic & research institutions and polymer based industries.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength:

- The PG Course in Polymer Chemistry and Ph.D in Polymer Science offered in this department are job oriented and demanding in India and abroad.

Weakness:

- Less enrolment of students for P.G course.

Opportunities:

- M.Sc. students undergoing internship training at CIPET, Chennai are receiving certificate for Plastics Processing and Testing. This certificate is additional support for the students in getting job.
- In the future, there is a possibility for the introduction new elective courses jointly with Polymer Products Manufacturers.

Challenges:

- Development of New polymers with attractive topology for specialty applications

52. Future plans of the department.

We plan to bring this department as an identified Centre in India for study and research in Polymer Science.