NAGARJUNA GOVERNMENT COLLEGE, NALGONDA

(Autonomous) Reaccredited by NAAC with 'A' Grade (Affiliated to Mahatma Gandhi University) (www.ngcnalgonda.org)

DEPARTMENT OF CHEMISTRY



PROFILE

2018-19

NAGARJUNA GOVERNMENT COLLEGE (AUTONOMOUS) NALGONDA

HISTORY OF THE DEPARTMENT

The Department of Chemistry has been functioning from the inception of the college in July, 1956. Then the Chemistry was taught to the students of B.Sc., (MPC) and (BZC) and the medium of instruction was English only. Also it was taught to the students of Pre-University,

Course students with MPC and Bi.P.C, combinations in English medium. The sanctioned strength of students was 30. Then the Department of Chemistry was a headed by Sri. Ch. Satyanarayana Asst. Lecturer.

Initial Status of the Department in 1957

Head of the Department	- Nil	Asst. Lecturer	- 01
Demonstrator	- 01	Attender	- 01

The Department of Chemistry was started with 30 students per a section and a laboratory and a staff room. In due course of time one more laboratory was added to meet the needs of the Department. During the year 1970, in the State of Andhra Pradesh B.Sc. (MPC) and B.Sc (BZC) was introduced with medium of instruction as Telugu. The intake of students was 30 in each combination. The Staff in the Department was also increased to six, during the period 1988, two more posts had been sanctioned to meet requirement. During the Academic year 1998-99 vocational course Industrial Chemistry (MCIC) and restructured course in B.Sc. (MZC) has been started with a sanctioned strength of 30 in each section. Later intune with the demand of the students, during academic year 2002 two more self-financed course have been introduced i.e. B.Sc. (Micro-Biology, Botany, Chemistry) and B.Sc., (Biotechnology, Botany, Chemistry) with Chemistry combinations, during academic year 2018 one more self-financed course have been introduced i.e. B.Sc. (Biotechnology, Zoology, Chemistry). At present *Nine* combinations with Chemistry out of *thirteen* combinations of Science have been offered by the college.

During the academic year 2008-09 M.Sc. Organic Chemistry has been introduced with an intake of 25 students. Later it has been increased to 30 students.

PRESENT STATUS OF THE DEPARTMENT (U.G) 2018 – 19

Total Sanctioned Posts - 10

Regular Lecturers - 08

In charge of the Department - 01

Lecturer with Ph.D. - 02

Lecturer with NET/SET - 08

Lecturers with P.G. Qualification - Nil

Contract Lecturers - Nil

With NET - Nil

With P.G. Qualification - Nil

Guest Lecturers (P.G. Qualification) - Nil

Store Keeper - 01

Lab. Asst. - 04

Laboratories - 04

Balance Room - 01

Store Room - 02

Staff Room - 01

PRESENT STATUS OF THE DEPARTMENT (P.G) 2018 - 19

Guest Lecturers - 05

With SET Qualification - 02

With P.G. Qualification - 03

Lab. Asst. - 01

Laboratories - 02

Staff Room - 01

Facilities Available:

Inorganic, organic, instrumentation & industrial chemistry laboratories are available for B.Sc & M.Sc students.

Combinations offered by the Department of Chemistry

U.G. COURSES:

- 1. B.Sc. Maths, Physics & Chemistry (Eng. Medium)
- 2. B.Sc. Maths, Physics & Chemistry (Tel. Medium)
- 3. B.Sc. Botany, Zoology & Chemistry (Eng. Medium)
- 4. B.Sc. Botany, Zoology & Chemistry (Tel. Medium)
- 5. B.Sc. Maths, Chemistry & Industrial Chemistry (Eng. Medium)
- 6. B.Sc. Microbiology, Zoology & Chemistry (Eng. Medium)
- 7. B.Sc. Microbiology, Botany & Chemistry (Eng. Medium)
- 8. B.Sc. Bio-Technology, Botany & Chemistry (Eng. Medium)
- 9. B.Sc. Bio-Technology, Zoology & Chemistry (Eng. Medium)

P.G. COURSE:

M.Sc., Organic Chemistry

FACULTY DETAILS:

S.No	Name of the faculty	Educational Qualifications	Designation	Teaching & Research Experience	Specialization
1	Sri. P. Ravi Kumar	M.Sc., NET	Asst. Prof.	22 Years	Organic Chemistry
2	Sri. V. Srinivasulu	M.Sc., SET	Asst. Prof.	23 Years	Organic Chemistry
3	Sri. K. Nagi Reddy	M.Sc., NET	Asst. Prof.	10 Years	Organic Chemistry
4	Sri. Y. Yadagiri Rao	M.Sc., NET	Asst. Prof.	7 Years	Chemistry
5	Sri. CH. Muthaiah	M.Sc., NET	Asst. Prof.	7 Years	Organic Chemistry
6	Dr. P. Balaswamy	M.Sc., Ph.D.	Asst. Prof	6 Years	Organic Chemistry
7	Sri. R. Chandra Shekar	M.Sc., SET	Asst. Prof.	23 Years	Physical Chemistry
8	Dr. B. Bixamaiah	M.Sc., Ph.D.	Asst. Prof	27 Years	Physical Chemistry

Student Strength particulars:

S.No	Year	I Year	II Year	III Year	Total	No. of staff
1	2018-19	660	371	345	1376	08
2	2017-18	378	350	319	1047	10
3	2016-17	384	339	304	1027	10
4	2015-16	379	308	440	1127	10
5	2014-15	420	474	427	1321	10

STUDENT PASS PERCENTAGE

S.No	Year	I Year (%)	II Year (%)	III Year (%)
1	2017-18	55%	60%	89%
2	2016-17	65%	81%	80%
3	2015-16	71%	76%	82%
4	2014-15	49%	87%	68%
5	2013-14	52%	91%	64%

M.Sc. ORGANIC CHEMISTRY

S.No	P.G. Faculty	Educational Qualifications	Designation	Teaching & Research Experience	Specialization
1	Sri. G. Murali	M.Sc., SET	Guest Lecturer	6 Years	Organic Chemistry
2	Sri.A. Anjaneyulu	M.Sc., SET	Guest Lecturer	10 Years	Physical Chemistry
3	Sri.K. Narsimha	M.Sc.	Guest Lecturer	10 Years	Inorganic Chemistry
4	Sri.T. Saidulu	M.Sc., B.Ed.	Guest Lecturer	14 Years	Organic Chemistry
5	Sri.M. Saidulu	M.Sc.,	Guest Lecturer	3 Years	Organic Chemistry

PARTICULARS OF NON – TEACHING STAFF

S.No	Name	Qualification	Designation
1	Sri. P. Madhu	Intermediate	Record Assist.
2	Sri. D. Karunakar	Intermediate	Record Assist
3	Sri. U. Venkanna	M.A.	Lab. Assist.
4	Sri. D. Kiran Kumar	M.Sc.	Lab. Assist.
5	Sri. A. Nagaraju	B.Sc.	P.G. Lab. Assist.

Name : P. RAVI KUMAR

Designation : Asst. Prof. of Chemistry

Date of Birth : 12-06-1974

Date of first appointment : 23.01.2002

Date of Entry into Service UG Level : 05- Nov- 2010

Academic Qualifications : M.Sc. (Organic Chemistry), NET

Topics/Area of Research : Preparation of 1,8-naptharidine derivatives.

(Under going)

Details of Publications :

Seminars/Workshops : 1. Participated in Infosys training Programme

on analytical Skills. (2011).

2. Participated in 3-day Induction

programme -2011

3. Participated in National conference on

NCNN-2014

4. Paper presentation on Microwave

Assisted Synthesis and

Crystallograhic studies of 5-amino-3,4-dimethyl isoxazole Schiff bases. (National

conference on GCSE – 2016).

5. Paper presentation on TFAA/H₃PO₄ as an efficient catalyst system for C-acylation

for sustainable organic synthesis.

(National seminar on GCSD -2017).

Orientation / Refresher : 1. Refresher Course at JNTU Aug-2013

2. Orientation Course at MANUU - 2017

Co-Extra Curricular Activities : 1. Controller of Examinations

2. P.G. Co-ordinator

3. Incharge of Chemistry

AWARDS/MEDALS/MERIT

Name : V.SRINIVASULU

Designation : Asst. Prof. in Chemistry

Date of Birth : 29-05-1970

Date of first appointment : 19 June 1995

Date of Entry into Service UG Level : 27- Nov- 2010

Academic Qualifications : M.Sc.

Topics/Area of Research : -

Details of Publications : -

Seminars/Workshops : 02

Orientation / Refresher : 1. O.C at MANUU, Hyd. May-2013

2. Refresher Course at HCU, Hyd. July- 2011

3. Refresher Course at HCU, Hyd. July- 2011

Extra Curricular Activities : 1. Incharge of Industrial Chemistry

AWARDS/MEDALS/MERIT

Name : K. NAGI REDDY.

Designation : Asst. Prof. in Chemistry

Date of Birth : 06-02-1982

Date of first appointment : 26 Dec 2011

Date of Entry into Service UG Level : 26 Dec 2011

Academic Qualifications : M.Sc. B.Ed..

Topics/Area of Research : Synthesis of Natural Products

Details of Publications :

Seminars/Workshops : 03

Orientation / Refresher : 1. Orientation Course at JNTU, Hyd. June-2013

2. Refresher Course at HCU, Hyd. Aug- 2014

Extra Curricular Activities : 1. Incharge of Computer Science

AWARDS/MEDALS/MERIT

Name : YADAGIRI RAO YASALA

Designation : Asst. Prof. in Chemistry

Date of Birth : 05-06-1985

Date of first appointment : 26 Dec 2011

Date of Entry into Service UG Level : 26 Dec 2011

Academic Qualifications : M.Sc.

Topics/Area of Research :

Details of Publications :

Seminars/Workshops : 03

Orientation / Refresher : 1. Orientation Course at JNTU, Hyd. Feb-2017

2. Refresher Course at MANUU, Hyd. Oct-2013

Extra Curricular Activities : 1. Incharge of Biotechnology

AWARDS/MEDALS/MERIT

CERTIFICATES RECEIVED : -Rank Certificate from KU (PG)

Name : CHINTHA MUTHAIAH

Designation : Asst. Prof. in Chemistry

Date of Birth : 12-04-1986

Date of first appointment : 26 Dec, 2011

Date of Entry into Service UG Level : 26 Dec,2011

Academic Qualifications : M.Sc. (Organic Chemistry), NET, (Ph.D)

Topics/Area of Research : Synthesis, Characterization and Biological

Screening of Novel Schiff's base Metal complexes

Details of Publications : -

Seminars/Workshops : 1. National Conference on the "New vistas of chemistry an Interdisciplinary approach"

Conducted by dept. of Chemistry, PALAMURU

UNIVERSITY.

2. Workshop on "Recent trends in Science and Technology "at DRC- MVS GDC MBNR.

3. Workshop on "Instrumentation" at GDC WNP

4. National seminar on the "Old and New trends in Chemical Sciences" at Tara GDC, Medak.

5. National seminar on "Recent trends in Drug

Discovery" at BRR GDC Jadcherla.

Training Programmes Attended 1. Three days training programme on "Human Values & Professional ethics". at MVS GDC

2. Two days training programme"NIPUNA"

Orientation / Refresher : 1.Refresher Course attended at ASC, OU Hyd.

2. Orientation course attended at ASC, UoH, HYD

Extra Curricular Activities : 1. In charge of Department of Geology

RDS/MEDALS/MERIT

CERTIFICATES RECEIVED : CSIR – JRF

Name : Sri. R.CHANDRASHEKAR

Designation : ASST.PROF. OF CHEMISTRY

Date of Birth : 03-08-1972

Date of first appointment : 26-10-1998 As SGTeacher

Date of Entry into Service UG Level : 1-08-2016

Academic Qualifications : M.Sc., B.Ed;SET

Topics/Area of Research : -

Details of Publications : -

Seminars/Workshops : NIPUNA-2017

3 DAY INDUCTION PROGRAMME

Orientation / Refresher : -

Extra Curricular Activities :

Name : Dr. P. Balaswamy

Designation : Asst. Prof. of Chemistry

Date of Birth : 16-11-1982

Date of first appointment : 14-09-2012

Date of Entry into Service UG Level : 31-07-2016

Academic Qualifications : M.Sc., Ph.D.

Topics/Area of Research : Green Chemistry.

1. Details of Publications

Balaswamy. P, Aravind. S, Satyanarayana. B*, "Synthesis Of Pyrrolidines And Tetrahydropyrimidines Via One-Pot And Three Component Cascade Coupling Strategy In Water" (2017). Rasayan Journal of Chemistry, 10 (1), 6-12

Balaswamy. P, Aravind. S, Satyanarayana
B*, "Polyethylene Glycol-400 Used As Phase Transfer
Catalyst For One-Pot Synthesis Of 2-Amino-3Cyanopyridine Derivatives Under Aqueous Conditions",
(2017). Rasayan Journal of Chemistry, 10 (4), 1334-1339.

3 P. Balaswamy, S. Aravind*, S. Purushotham Reddy, and B. Satyanarayana* Synthesis, Antimicrobial Activity, and Docking Studies of 2-Mercapto Substituted Quinazolin-4(3H)-one and Their Derivatives. Russ J. of Gen. Chem, 2018, Vol. 88,4 pp 744-779

Seminars/Workshops : 1. Indian Science Congress 2017 attended.
Orientation / Refresher : -

Extra Curricular Activities : 1. FAC Principal

2. NSS Programme Officer

3. Examination In-charge

RDS/MEDALS/MERIT :

CERTIFICATES RECEIVED : CSIR – JRF

Name Dr. B. Bixamaiah

Designation Asst. Prof. of Chemistry

Date of Birth 01-08-1963

Date of first appointment 06-04-1996

Date of Entry into Service UG Level 01-08-2013

Academic Qualifications M.Sc., Ph.D.

Topics/Area of Research Polymers

2. Details of Publications : 1. Viscosity studies of Poly(Ethyl Methacrylate) J.polym.Mater.7(1990),327-330

> 2. Charge Transfer Copolymerization and Characteristics of 2-vinyl pyridine with Methyl Methacrylate and Ethyl Methacrylate. Die Angewandte Macromolecular Chemie 188(1991) 97-103 (Nr.3147)

- 3. Radical Copolymerization of 2-Vinyl Pyridine with Ethyl Methacrylate and Butyl Methacrylate in Diethyl formamide. J.Indian Chem.Soc. Vol.68, April 1991, pp. 231-234.
- 4. Charge Transfer Copolymerization and Characterization of Ethyl Methacrylate with Acrylonitrile and Methacrilonitrile. Polymer Science - PP 282-286 (1991).

International Symposium at Pune.

- 5. Charge Transfer Copolymerization and properties of Isopropyl Methacrylate with Acrylonitrile and Methacrilonitrile. Journal of Applied Polymer Science, Vol.44(1992)1415-1412.
- 6. Charge Transfer Copolymerization and sequencelength distribution of Methyl Methacrylate with Acrylonitrile and Methacrilonitrile.

Macromolecular Reports, A29(SUPPL-1) 71-86(1992)



7. Synthesis and Characterization of Copolymers of Acrylonitrile with Vinyl Propionate and Vinyl Butyrate.

Macromolecular Reports, A30(SUPPLS-1&2) 67-82(1993)

8. Radical Copolymerization and thermal properties of methacrylonitrile with vinyl propionate and vinyl butyrate copolymers.

Macromolecular Reports, 430(SUPPI S-384) 211-

Macromolecular Reports, A30(SUPPLS-3&4) 211-223(1993)

Seminars/Workshops

: 1. National Symposium on Polymer Chemistry.1990. At Sardar Patel University, Gujarat.

2. International Symposium on polymers at Pune-1991.

Orientation / Refresher

: 1. Orientation Course at MANUU, Hyderabad-2015

Extra Curricular Activities

1. Assistant to the Principal (ATP)

2. Deputy Warden

3. Loco-Parent.

4. Examination In-charge

5. NSS Programme Officer.

6. Academic Coordinator.

7. Incharge of PG Department of Chemistry.

RDS/MEDALS/MERIT

Merit Certificate from KU (PG)

CERTIFICATES RECEIVED

CSIR Fellowhip

Name : Sri. T. SAIDULU

Designation : P.G. Guest Faculty in Chemistry

Date of Birth : 10-06-1978

Date of Entry into Service UG Level : 03 Jan 2013

Academic Qualifications : M.Sc., B.Ed.,

Topics/Area of Research : -

Details of Publications : -

Seminars/Workshops : State Level Seminar Attended on

28 Aug 2010 at A.V. College, Hyd.

Orientation / Refresher : -

Extra Curricular Activities : -

RDS/MEDALS/MERIT

<u>CURRICULUM – VITAE</u>



Name : Sri. G. MURALI

Designation : P.G. Guest Faculty in Chemistry

Date of Birth : 20-08-1988

Date of Entry into Service PG Level : 01 Oct 2012

Academic Qualifications : M.Sc., Organic Chemistry (SET Qualified)

Topics/Area of Research : -

Details of Publications : -

Seminars/Workshops : -

Orientation / Refresher : -

Extra Curricular Activities : -

RDS/MEDALS/MERIT

<u>CURRICULUM – VITAE</u>



Name : M. SAIDULU

Designation : P.G. Guest Faculty in Chemistry

Date of Birth : 06-09-1990

Date of Entry into Service PG Level : 01-09-2017

Academic Qualifications : M.Sc., (Organic Chemistry)

Topics/Area of Research : -

Details of Publications : -

Seminars/Workshops : -

Orientation / Refresher : -

Extra Curricular Activities : -

RDS/MEDALS/MERIT



Name : Sri. A. ANJANEYULU

Designation : P.G.Guest Faculty in Chemistry

Date of Birth : 06-04-1982

Date of Entry into Service PG Level : 22 Jan 2013

Academic Qualifications : M.Sc., Physical Chemistry (SET Qualified)

Topics/Area of Research : -

Details of Publications : -

Seminars/Workshops : -

Orientation / Refresher : -

Extra Curricular Activities : -

RDS/MEDALS/MERIT





Name : Sri. K. NARSIMHA

Designation : P.G. Guest Faculty in Chemistry

Date of Birth : 03-04-1977

Date of Entry into Service PG Level : 20 Aug 2012

Academic Qualifications : M.Sc., Inorganic Chemistry

Topics/Area of Research : -

Details of Publications : -

Seminars/Workshops : -

Orientation / Refresher : -

Extra Curricular Activities : -

RDS/MEDALS/MERIT

STATEMENT RELATED TO STUDENT ENROLMENT

Students profile according to Programmes of study, gender, etc.:

The enrolment is 100%, out of which 40% are Women. Most of the students come from rural area and are Socio-Economically backward. The student Enrolment profile for the year 2012-13 to 2017-18 is as follows:

U.G. CHEMISTRY ENROLMENT PARTICULARS

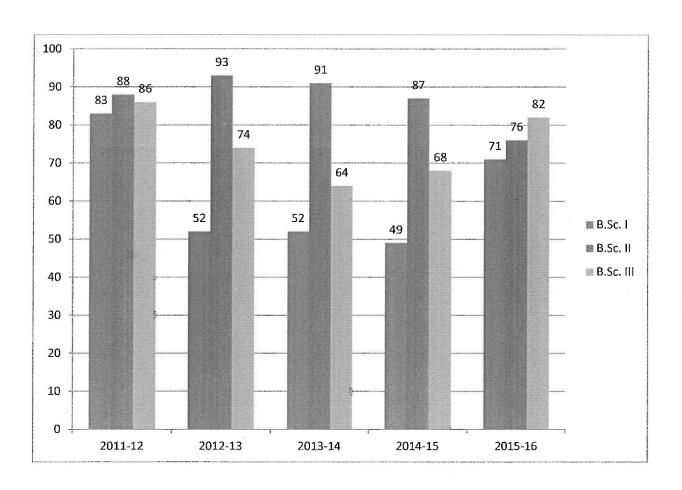
Academic Year	Men	Women	Total
2013-14	304	244	548
2014-15	197	220	417
2015-16	157	222	379
2016-17			
2017-18			

P.G. ORGANIC CHEMISTRY STRENGTH PARTICULARS

Academic Year	Men	Women	Total
2012-13	32	27	59
2013-14	30	30	60
2014-15	28	30	58
2015-16	22	36	58
2016-17		*	
2017-18		4	

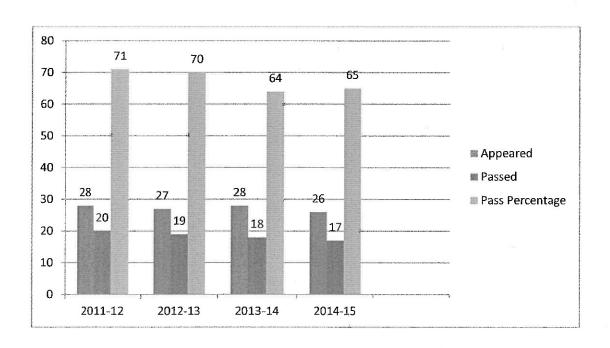
STUDENT PERFORMANCE (RESULTS) UG FROM 2012-13 to 2017-18

Academic Year	B.Sc. I	B.Sc. II	B.Sc. III
2012-13	52%	93%	74%
2013-14	52%	91%	64%
2014-15	49%	87%	68%
2015-16	71%	76%	82%
2016-17	65%	81%	80%
2017-18	55%	60%	89%



STUDENT PERFORMANCE (RESULTS) M.Sc., Organic Chemistry

Academic Year	Appeared	Passed	Pass Percentage
2011-12	28	20	71%
2012-13	27	19	70%
2013-14	28	18	64%
2014-15	26	17	65%
2015-16	24	15	62.5%
2016-17	25	15	60%



BOARD OF STUDIES – 2018-19

SI. No	Designation	Name	Cell No
1	Chairman Board of studies	Sri. P. Ravi Kumar, N.G College, Nalgonda	9440208972
2	University Nominee	Dr. A. Bhanu Prasad, Principal, GDC, Ramanapet, Nalgonda.	9848385850
3	Subject Expert (from outside)	Sri. P. Yedukondalu Lecturer in Chemistry MKR GDC, Devarakonda	9849056316
4	Subject Expert (from outside)	Dr. A. Srinivasulu Asst. Prof. of Chemistry GDC, Huzurnagar	9440140506
		1. Sri. V. Srinivasulu	9440838371
	Members:	2. Sri K. Nagi Reddy	9052454283
	All The Faculty	3. Sri. Ch. Muthaiah	9985046563
5	members of the Department	4. Sri Y. Yadagiri Rao	9959422591
		5. Sri. R. Chandrashekar	9951020987
		6. Dr. P. Balaswamy	9704346175
		7. Dr. B. Bixamaiah	9440522563

CURRICULUM ASPECTS:

- During 2011-12 the common core syllabus had been followed as an M.G.U. affiliated college.
- ➤ The Department of Chemistry follows unitized semester system from 2007-08 academic year under autonomous pattern.
- > The unitized syllabus comprises of four units in each semester.
- > The syllabus is introduced with the approval of BOS.
- ➤ BOS constitution:- Incharge Dept of Chemistry act as Chairman of BOS. Among the Three BOS members one members is a University nominee and two from senior most members of affiliated colleges.
- > Departmental academic plan semester wise is maintained.
- Additional teaching module is added for each paper.
- > Previous question papers are made available to the students which enable to enlighten the students through faculty members.

VI. TEACHING, LEARNING AND EVALUTION:

- > Annual academic plan is prepared by every faculty member as per assigned syllabus in each paper before commencement of semester, in end of the week the completion of syllabus verified by Department in charge.
- > Teaching dairies and teaching notes synopsis have been maintained as per schedule mentioned.
- ➤ In addition to regular academic activities to improve standards of the students, seminars are conducted for each paper, guiding study projects for meritorious students, assignments are assigned to students, remedial classes are initiated for backlog students.
- > To inculquate scientific attitude among the students, there are asked to prepare charts, modules, individually as per their own interest.
- Extra information regarding the subject is provided through Information Communication Technology (ICT), in which (e-journals, Internet communication, OHP, CD's) different typical topics.
- ➤ At the end of each semester question bank, previous question papers and study materials are made available to students.

- > Paper clippings are displayed on notice board of recent developments and evaluation of chemistry and science.
- ➤ In the process of evaluation, Internal Assessments, Assignments and remedial classes (backlog students) are conducted.
- > The process of ward counseling is carried out under supervision of incharge lecturer for every group of students and students scholastic record is maintained to improve their individual performance.
- > To encourage the meritorious students, inception of Gold-medals with the support of philanthropists.
- > To promote the teachers for their excellence, teachers are encouraged to apply for the T.G. State Best teacher award in every year.
- > In every semester two internal assessment tests are conducted in each paper as a part of continuous internal evaluation.
- \triangleright In each semester student is evaluated with semester end examination with 40 marks as a maximum marks and added by 10 marks as internal examinations (40 + 10).
- From 2014-15 CBCS system is introduced. In each semester a student is evaluated with semester end examination with maximum marks 70 and 30 marks of Internal assessment (20 Marks for Internal Exam + 5 marks for Assignment + 5 marks student seminar)
- > Department conducts Extension lectures, Guest lecturers to students by inviting experts from various colleges and Universities.
- > Apart from the regular curriculum the department has been conducting quiz competitions, student seminars every year.

SEMINAR ON "A NOVEL APPROACH METHODS IN CATALYSIS" ON 7th MARCH 2014

Department of Chemistry has organized a seminar on "A Novel Approach Methods in Catalysis" on 7th March 2014. Prof. D.B.Rama Chary, Prof in Chemistry UOH, Dr. N.Lingaiah, Principal Scientist, I & PC division IICT, Hyd. and

Dr. Y. Prashanthi, Asst. Prof. in Chemistry, MGU have delivered seminars on Catalysis.

Prof. D.B. Rama Chary, alumni of the college delivered a lecture on "Fishing for the wild catalysis to Develop new catalytic Asymmetric Reactions" He explained the significance of enzymatic catalysis in obtaining stereo specific products in catalytic reactions.

Dr. N. Lingaiah delivered a lecture on "The Role of catalysis for sustainable developments" He pleased for the importance of heterogeneous catalysis, in fulfilling the needs in the life at cheaper cost.

Dr. Y. Prashanthi, alumni of the college gave a talk on "Nano Catalysis" She explained about the significant and yield of the product in these reactions.

In this seminar the speakers insisted on the significance of enzymes, heterogeneous catalysts, Nano catalysts in catalysis, their utility in many industries in the synthesis of drugs and different compounds etc.

About Nagarjana Govt. College

Nagarjuna Government College (Autonomous) is premier institution of higher learning in the Telangana Region. Since its Establishment in 1956, it has been growing from strength to strength serving the educational needs of this area and today if has as many as 4225 (U.G. & P.G) students on the rolls. The college was reaccredited by NAAC with 'A' grade in 2011.

About the Department

The Department of Chemistry has been functioning from the inception of the college in July 1956, with B.Sc. (M.P.C.) and B.Sc. (B.Z.C.) English Medium alone. In due course of time, in the year 1970, Telugu Medium was introduced for B.Sc. (M.P.C. & B.Z.) students. In the Academic year 1998-99, Vocational Industrial Chemistry and a restructured course in B.Sc. (M.Z.C.) group introduced. In the year 2001 - 02, two more self financed courses were started with Micribiology (M.B.C.) and Bio Technology (B.B.C.) combinations. At present the Department have eight groups with different combinations with Industrial Chemistry, Microbiology and Biotechnology with the students strength of 1500. During the Academic year 2007-08 a Post Graduate course in Organic Chemistry started with 30 students intake.

About the Programme:

Catalysis plays a vital role in most of the natural processes like, metabolic reactions, photosynthesis etc., and in industry.

Heterogeneous catalysts and phase transfer catalysis are playing their own quantum role in laboratory reactions. Today we are using enzymes as catalysts in the laboratory and in many industries.

Enzymes and several metal ions act as catalysts in laboratory reactions. From ages we have been using yeast in the preparation of alcohol or wine. Many metal ions like Ru, Os and other transition metal ions of various oxidation states have been used as catalysts in several reactions, which play a big role in industry.



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SEMINAR

On

A NOVEL APPROACH METHODS IN CATALYSIS

Sponsored by

UGC GRANTS

At 10:30 a.m. On March 7th, 2014 At Seminar Hall, NG College, Nalgonda.



Organized by
DEPARTMENT OF CHEMISTRY

Inaugural Session



Chairperson
Dr. R Nagender Reddy, M.A., LL.B., Ph.D.
Principal, NG College
Will Preside over the Programme

Guests of Honour

Prof. Dr. D.B. Rama Chary Professor, School of Chemistry, University of Hyd.

Dr. N. Lingaiah Principal Scientist, 182°C Division, HCT, Hyd.

Dr. Y. Prashanthi Asst. Professor, Dept. of Chemistry, M.G.U., Nlg.

Programme Convener
Mr. K. Prabhakar Reddy
B.O.D., Dept. of Chemistry, N.G. College, Nig.

Organising Committee

F. Yedukondalu P. Bayi Kumar Dr. Ch. Govardhan M. Venkatashwasia Dr. K. Venkata Krishac K. Rayi V. Bhayani T. Saidulu

PROGRAMME SCHEDULE:

11-30 am to 1-30 pm
Lesture on

"Fishing for the Mild Catalysis to Develop New Catalylic
Asymmetric Reactions"
by
Prof. Dr. D.B. Rama Chary
University of Hyd.

1-30 pm to 2-30 pm : Lunch Break

2-30 pm to 3-30 pm Lecture on "The Role of Catalysis for Sustainable Developments" by Br. N. Lingalah Principal Scientist, IICT, Hyd.

> 3-30 pm to 4-30 pm Lacture on "Nano Catalysis" by Or. Y. Prashanthi Asst. Prof. MGU, Nig.

4-30 pm to 5-00 pm Valedictory Session

SEMINAR On "A NOVEL APPROACH METHODS IN CATALYSIS" On 7th March 2014



SYMPOSIUM ON NEW DEVELOPMENTS IN CHEMISTRY On 28th February, 2015

Department of Chemistry, has organized a symposium on "New Developments in Chemistry" on collaboration with Royal Society, Deccan section, India on 28th February 2015.

Prof. V. Peesapati, Hon, Sec, RSC Deccan section, India, Prof. P.S.N. Reddy, Retd. Professor, OU, Hyd, Dr. B. Rakeshwar, Director API-RND DRL, Hyd, Dr. Y.V.D. Nageswar Chief Scientist, IICT, Hyderabad, Prof K.S. Sastry, Retd. Professor OU, Hyderabad and Dr. Y. Prashanthi, Asst. Prof. in Chemistry, MGU, Nalgonda delivered seminars in it.

Morning Session: A Lecture, delivered by Dr. Y.V.D. Nageswar, Sr. Scientist CSIR-IICT. Hyderabad on "Historical perspective of drug Discovery" He explained the importance of drugs in human life from ancient period to till date.

Later, a Lecture on "Introduction to NMR spectroscopy – its applications" by Prof. P.S.N.Reddy Retd. Prof. O.U. Hyderabad. A very useful topic for III year students, and they participated in it by interacting with the professor.

In the afternoon session – a Lecture on "Process Research & Development in Pharma Industry" by Dr. B. Rakeshwar Director API-R&D Dr. Reddy's Labs. Hyderabad a Power point presentation – explaining the developments in Pharama Industry.

Prof. K. S. Sastry, Rtd Prof. O.U. Hyderabad. Interacted with the students and encouraged them to do research work.

A Quiz Programme is organized by Prof. V. Peesapati, Hon. Sec, Royal society of Chemistry (London) Deccan section. India., with the help of Dr. Y. Prasanthi and our Department Faculty. In this Programme 10 groups are participated. Our college teams stood in first & Third places and Sri Raghavendra Degree College, Nalgonda got second place.

Finally in the closing ceremony, the RSC distributed certificates to the students. And the guests were honored with mementoes' by our department.

Ahout Nagarjuna Govt, College

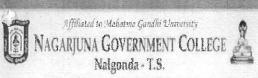
Nagarjuna Government College (Autonomous) is premier institution of higher learning in the Telangana Region. Since its Establishment in 1956, it has been growing from strength to strength serving the educational needs of this area and today it has as many as 3806 (U.G. & P.G) students on the rolls. The college was reaccredited by NAAC with 'A' grade in 2011.

About the Department

The Department of Chemistry has been functioning from the inception of the college in July 1956, with B.Sc. (M.P.C.) and B.Sc. (B.Z.C.) English Medium alone. In due course of time, in the year 1970, Telugu Medium was introduced for B.Sc. (MPC & BZC) students. In the Academic year 1998-99, Vocational Industrial Chemistry and a restructured course in B.Sc. (MZC) group introduced. In the year 2001 - 02, two more self financed courses were started with Micribiology (MBC) and Bio Technology (BBC) combinations. At present the Department have eight groups with different combinations with Industrial Chemistry, Microbiology and Biotechnology with the students strength of 1500. During the Academic year 2007-08 a Post Graduate course in Organic Chemistry started with 30 students intake,

Aim of the Programme:

"The Symposium is to create awareness and stimulating young science graduates the importance of chemical sciences for the advance of research in drug development and other areas, complimented by QUIZ forming a key part of the program by bringing together experts from academia, R&D labs and Industry".



(Autonomous) (Re accredited by NAAC with 'A' Grade) and

The Royal Society of Chemistry (London)

Deccan Section, India

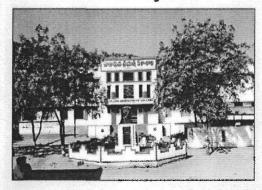
SYMPOSIUM

On

NEW DEVELOPMENTS IN CHEMISTRY

On 28th February, 2015, At 10:00 a.m. At KRR Seminar Hall, NG College, Nalgonda.

Under UGC Programme



Organized by DEPARTMENT OF CHEMISTRY

Chairperson Dr. R Nagender Reddy, MA, LLB, Ph.D. Principal, NG College

Chief Guest

Prof. K. Narender Reddy Registrar, MG University, Nalgonda

Guests of Honour

Prof. V. Peesapati Hon. Secretary, RSC-Deccan Section, India

> Prof. P.S.N. Reddy Retd. Professor, O.U., Hyd.

Dr. B. Rakeshwar Director, API-R&D, Dr. Reddy's Labs, Hyd.

> Dr. Y.V.D. Nageswar Chief Scientist, IICT, Hyd.

Dr. Y. Prashanthi UGC Co-ordinator / Asst. Prof., MGU, Nig.

Programme Conveners

Prof. V. Peesapati

Sri K. Prabhakar Reddy

Secretary, RSC-Deccan Section. India Vice Principal & HOD Chemistry, N.G. College, Nalgonda

PROGRAMME SCHEDULE:

10-00 to 10-30 am Inaugural Session

10-30 to 11-30 am Lecture on

*Introduction to NMR

Spectroscopy - Its applications* Prof. P.S.N. Reddy (Retd.), O.U., Hyd.

11-30 to 12-30 pm Legture on

Process Research &

Development in Pharma Industry" Dr. B. Rakeshwar, Director, API-R&D,

Dr. Reddy's Labs, Hyd.

12-30 to 01-30 pm Lunch Break

01-30 to 02-30 pm Lecture on

"Historical Perspective of drug Discovery"

Dr. Y.V.D. Nageswar, Sr. Scientist, CSIR-IICT, Hyd.

02-30 to 4-30 pm Quiz Programme

Prof. V. Peesapatl (Retd.), OU, JNTU

and NIPER, Hyd.

04-30 to 05-30 pm Closing ceremony



Organising Committee

P. Yedukondalu Academic Coordinator

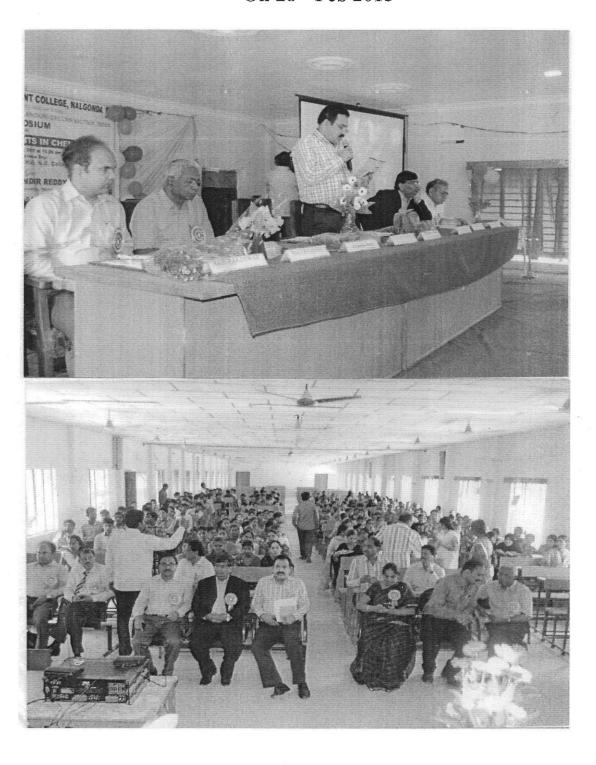
P. Ravi Kumar Controller of Examinations B. Nagaraju UGC Condomin

M. Venkateshwarlu K. Ravi Kumar

Dr. K. Venkaia Krislina K. Ravi V. Bhavani

T. Saldulu

SYMPOSIUM On "NEW DEVELOPMENTS IN CHEMISTRY" On 28th Feb 2015



GOLD MEDALS DONARS DETAILS

Name of the Donor with	Gold Medal Instituted in the	Subject
Designation	Name of Philanthropist	
P. Ramakrishna Reddy	Late. Yeddula. Mallareddy	Chemistry In (MPC Group)
(Advocate)		- 5
Smt. Maddipuri. Anjamma	Late Meddipuri. Raja Mallu	Chemistry In B.Sc. Life Science

AWARDS OF GOLD MEDALS FROM 2011-2016

S.	Subject	Sponsored By	In the Name	Name of the	Father's	Year
No		128	of	Awardee	Name	
1				Medishetti	Guruvaiah	2011-12
	Chemistry	P. Ramakrishna	Late.	Nagaraju		
2		1. Kamaki isima	Late.	Anthati	Bixam	2012-13
	In (MPC	Reddy	Yeddula.	Nagalaxmi		
3	Group)	(Advocate)	Mallareddy	Adeeba	Mohd	2013-14
in.	Group)	(Mayocate)		Ummehani	Jaferghani	
4			©:	Bheri Jeevitha	Edaiah	2014-15
5				Dhanalaxmi	Gopalu	2015-16
				Bingi		
						2016-17
						2017-18
						2018-19
6				Mummadi	Venkateshwa	2011-12
	Chemistry	Smt.	Late	Sushma	rlu	
7	•			Perika	Venkatesham	2012-13
	In B.Sc	Maddipuri.	Meddipuri.	Ramanjaneyulu		
8	Life	Anjamma	Raja Mallu	Nelagondarasi	Venkanna	2013-14
		7 xiijaiiiiia		Ramesh		
9	Science	7	=	Kathi Swathi	Bhaskar	2014-15
10				Akkenapally	Venugopala	2015-16
			=	Santhoshi Vani	Chary	
			æ			2016-17
						2017-18
			Ģ	-		2018-19

> Trend in the success rate and drop out of the students during the last five years:

The success rate is \implies 80 to 90% Dropout rate is about -> 5 to 10%.

LEARNING RESOURCES OF THE DEPARTMENT LIKE LIBRARY, COMPUTERS, LABORATORIES AND OTHER RESOURCES

The Department has many learning resources. The department has four UG Laboratories and two PG laboratories i.e. Physical, Organic, Inorganic, Instrumentation and Research laboratories. There are 30 books in the departmental library. The department has One desk top computer with high end configuration with internet facility, and the department also has an OHP, a few DVDs and CDs for audio visual 3D animations in the subject. All these facilities cater the needs of the UG, PG students.

Enhancement of the learning resources during the last five years:

There has been a steady enhancement of learning resources during the last five years. Internet, LCD and Audio visual facility are the additional facilities during period. Study tours are conducted every year for Industrial chemistry students to visit Pharmaceutical and cement industries to make the students aware of the manufacturing of bulk drugs and intermediates and process for cement manufacture, also make them in aware of industrial developments occurring in the present day environment.

- > Extension lectures are arranged by inviting eminent Scientists and Professors from IICT & other educational Institutions.
- > Modern teaching methods in practice other than the lecture method:

The Department has an OHP projector and a computer to assist class room teaching for audio visual interaction of the important topics in the subject. Software packages like ACD Labs Chem. Sketch and Resonance augment teaching learning process.

> Participation of teachers in academic and personal counseling of the students:

The faculty actively participates in academic and personal counseling of the students. Every six months the Department organises academic counseling classes for slow learners and also organises personal counseling for outgoing students with the help of Telangana State Knowledge Centre (TSKC: Training and placement cell in the college).

> Details of the faculty Development programmes and teachers who benefited during the past five years:

The faculty members have completed their mandatory requirement of refresher courses and orientations courses sponsored by UGC, Senior members of the faculty have attending for extension lectures as resources persons at different colleges. The department has organized a seminar on "A Novel Approach Methods in Catalysis" and a symposium on "New Developments in Chemistry".

PARTICIPATION OF TEACHERS IN ACADEMIC ACTIVITIES OTHER THAN TEACHING AND RESEARCH:

The Faculty is actively participating in Co-curricular and extracurricular activities in the college.

Sri. P. Ravi Kumar	Incharge of Department of chemistry	
	Controller of Examinations,	
	P.G. Co-ordinator.	
Sri. V. Srinivasulu	Incharge of Department of Industrial Chemistry	
Sri. K. Nagi Reddy	Incharge of Department of Computer	
Sri. Y. Yadagiri Rao	Incharge of Department of	
Sri. CH. Muthaiah	Incharge of Department of	
Dr. P. Balaswamy	Incharge of Department of	
Sri. R. Chandra Shekar -		
Dr. B. Bixamaiah	Acadamic Coordinator	
	NSS programme Officer	
	Incharge of PG Chemistry department.	

RESEARCH AND CONSULTANCY:

The faculty is actively involving Research & Post Doctoral research in the Department. Their areas in research are

STUDENT SUPPORT & PROGRESSION:

The inception of Gold medals to encourage the meritorious students with financial assistants of philanthropists.

The chemistry students are convened to arrange industrial tours to nearby industries. The study material related to be PG entrance is supplied in the form of notes and CD's which enable them to success PG entrance in different Universities. The students who are poor background they were guided to attend campus placements which related to be chemistry i.e. job concerned to Dr. Reddy Labs, Matrix, GVK Lab etc.

The bright students are placed in reputed organizations such as Dr. Reddy. Lab, Wipro, Infosys, Matrix, CTS, etc. The No. of students succeed to get PG admissions in various Universities and some of the PG students are obtained CSIR fellowship to join research fellows in various reputed institutes like IICT, NCL, and some more CSIR institutions.

ALUMINI OF THE CHEMISTRY DEPARTMENT

S.No	Name	Designation	Working Place
1	Dr. B. Rama Chary	Prof. in Chemistry	Hyderabad Central University,
			Hyderabad
2	Dr. D. Ramesh	Principal	G.D.C, Chandoor, Nalgonda
3	Dr. R. Ashok Reddy	Principal	G.D.C. Narayankhed
4	Dr. Ch. Govardhan	Asst. Prof. in	Retd. Lecturer, N.G. College
		Chemistry	Nalgonda
5	D. Govardhan	Lecturer in Chemistry	Retd. Lecturer, N.G. College,
			Nalgonda
6	D. Rammurthy	Lecturer in Chemistry	Retd. Lecturer, N.G. College,
	e		Nalgonda
7	Md. Akthar Hussain	Lecturer in Chemistry	Retd. Lecturer, N.G. College,
			Nalgonda
8	N. Krishna Prasad	Principal	Retd. Principal, N.G. College,
		ы	Nalgonda
9	Dr. K. Venkatakrishna	Asst. Prof. in	N.G. College, Nalgonda
		Chemistry	5
10	Kommu Srinivas	Mandal Educational	Kanagal, Nalgonda
	х-	Officer	= 2
11	K. Ravinder	Head Master	Z.P.H.S. Dandempally
12	G. Yellaiah	Principal	K.B.S. Nalgonda
13	R. Krishnaiah	Hostel Welfare	Nalgonda
		Officer	2
14	B. Verabramha Chary	School Asst.	Z.P.H.S. Bakhalwad,
~			Miryalaguda
15	Late. Rajamallu	Lec. In Chemistry	N.G. College, Nalgonda
16	Late. Sathyanarayana	Lec. In Chemistry	G.D.C. Women, Nalgonda
17	M. L.M. Das	Prof. in Chemistry	Ethiopia

18	K. Nagender Rao	Circle Inspector	Hyderabad
19	Ajay Kumar	Group - I Service	Khammam
20	Venugopal	Scientist	
21	M. Venkatram Reddy	Lec. In Chemistry	Principal, Narayana Jr. College,
22	Thomus Sadanand	Scientist	
23	Dr. Ch. Govardhan Reddy	Scientist	-
24	Beemasena Reddy	Lec. In Chemistry	Rted. Lecturer Tara Govt Degree College, Sangareddy
25	Antati Srinivas	Asst. Prof. in	K.R.R. G.D.C Kodad
	Amad Simiyas	Chemistry	K.K.K. G.D.C Kodad
26	Md. Jaleel Ahmed	Lec. In Chemistry	G.D.C Women Nalgonda
27	Chandra Shaker	Asst. Prof. in Chemistry	MKR. G.D.C. Devarakonda
28	Murali Krishna	Scientist	
29	K. Prashanthi	Asst. Chemistry in	Mahatma Gandhi University,
		Chemistry	Nalgonda
30	K. Kishore Kumar	Guest Faculty	N.G. College, Nalgonda
31	V. Swamy	Guest Faculty	N.G. College, Nalgonda
32	T. Saidulu	Guest Faculty	N.G. College, Nalgonda

Department Vision, Mission and Future Plan for Five Years: Vision:

The Dept of Chemistry of N.G. College is seems to appear as a knowledge hub in chemistry in the future by the way to establish research lab and encourage faculty members to do basic research which enable to recognize as research supervisors in various Universities, for which the qualified faculty members are encouraged to apply minor and major research project UGC & DST, young faculty members would be allowed to apply FDP fellowship.

Mission:

The Dept of Chemistry of N.G. College is leading light in adverting chemical education rating in the high level on the possible of reputed colleges in the state of A.P. The faculty members are planning to take up the following programs during the next five years.

Action Plan:

- > To organize Extension/Guest lectures
- > To encourage group discussions
- > To expose the students for advanced trends in chemistry in the form of teaching modules.
- > To promote the research work the department is endeavoring to get CPE status to the College.
- ➤ Lecturers are encouraged to undertake research project works.
- > To establish advanced instrumentation division.
- To have linkage with local industries.

BOARD OF STUDIES – 2018-19

SI.	Designation	Name	Cell No
1	Chairman	Sri. P. Ravi Kumar,	
	Board of studies	N.G College, Nalgonda	9440208972
2	University Nominee	Dr. A. Bhanu Prasad, Principal, GDC, Ramanapet, Nalgonda.	9848385850
3	Subject Expert (from outside)	Sri. P. Yedukondalu Lecturer in Chemistry MKR GDC, Devarakonda	9849056316
4	Subject Expert (from outside)	Dr. A. Srinivasulu Asst. Prof. of Chemistry GDC, Huzurnagar	9440140506
		1. Sri. V. Srinivasulu	9440838371
	Members:	2. Sri K. Nagi Reddy	9052454283
	All The Faculty	3. Sri. Ch. Muthaiah	9985046563
5	members of the Department	4. / Sri Y. Yadagiri Rao	9959422591
		5. Sri. R. Chandrashekar	9951020987
		6. Dr. P. Balaswamy	9704346175
	= -	7. Dr. B. Bixamaiah	9440522563

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- > Lecturers are encouraged to undertake research project works.
- To establish advanced instrumentation division.
- To have linkage with local industries.

THE LIST OF PLACEMENT RECORDS IN ACADEMIC PROGRESSION PAST FIVE YEARS.

S,No	Name of the Student	Year	Admission into PG Courses &
			CSIR Fellowship
1	Afeefa, (O.U. 5 th Rank)	2013-16	Organic Chemistry O.U.
2	Shiva	2013-16	Physical Chemistry O.U.
3	Narender	2013-16	Physical Chemistry O.U.
4	Dhanunjaya	2013-16	Physical Chemistry O.U.
5	Manisha	2013-16	Physical Chemistry O.U.
6	Ashwini	2013-16	Physical Chemistry O.U.
7	R. Renuka	2013-16	Organic Chemistry M.G.U
8	Sreekanth	2013-16	Organic Chemistry M.G.U
9	Praveen	2012-15	Physical Chemistry O.U
10	T. Nagaraju	2012-15	Phy. Organic Chemistry O.U
11	Mounika	2012-15	Physical Chemistry O.U
12	B. Jeveetha	2012-15	Physical Chemistry O.U
13	Asma	2012-15	Physical Chemistry O.U
14	G. Prakash	2012-15	Organic Chemistry O.U
15	Ramakrishna	2012-15	Phy. Organic Chemistry O.U
16	K. Ramesh	2011-14	Organic Chemistry O.U
17	R. Ruchitha	2011-14	Organic Chemistry M.G.U
18	M. Nagaraju	2009-12	Organic Chemistry O.U. SET,
*			IICT
19	L. Nagaraju	2009-12	Organic Chemistry UGC, JRF
20	A. Lingaswamy	2009-12	Phy. Organic Chemistry O.U
21	R. Saidulu	2009-12	Organic Chemistry O.U.
22	M. Uma	2009-12	Inorganic Chemistry O.U.
23	B. Ashok	2009-12	Physical Chemistry O.U, IICT
24	P. Ramakrishna	2009-12	Phy. Organic Chemistry O.U,
			UGC, JRF