



PRAGATI ENGINEERING COLLEGE

SCIENCE QUEST

JULY TO DECEMBER-2014
VOLUME -6

DEPARTMENT OF BASIC SCIENCES & HUMANITIES

ABOUT DEPARTMENT

To assist all the Engineering Programmes in solving the engineering problems and to enable the students in the basic concepts of sciences and communication skills.

Vision

To Emerge as a Premier Institution for Technical Education in the Country through Academic Excellence and to be recognized as a Center for Excellence in Research and Development, catering to the needs of our Country.

Mission

To realize a strong Institution by consistently maintaining State -of -art infrastructure and building a cohesive , world class Team and provide need based Technical education Research And development through enhanced Industry Interaction

SHORT TERM GOALS

- To improve soft skills and communication skills among the students of rural background.
- To inculcate problem solving skills among the students.

LONG TERM GOALS

- To create research environment among the faculty and the students.
- To enable the students to utilize the basic sciences in their core research.

LIST OF FACULTY MEMBERS

For the Month of December 2014

S.No	Name of Faculty	Qualification	Designation
Department of Mathematics			
1	Prof.B.Venkateswara Rao	M.Sc.	Professor
2	Mr T.Satyanarayana	M.Sc.M.Phil, (Ph.D)	Assoc.Prof.&HOD
3	Mr K. Bhaskara Rao	M.Sc., M.Phil	Assoc.Prof.
4	Mr. P.Madhu Babu	M.Sc.	Asst.Prof.
5	Mrs..R. Sugnani	M.Sc., M.Phil	Asst.Prof.
6	Mr.Ch.Satish	M.Sc.	Asst.Prof.
7	Mr.K.Rambabu	M.Sc.	Asst.Prof.
8	Ms.V.Sarada	M.Sc.	Asst.Prof.
9	M.V.Raghava Reddy	M.Sc.	Asst.Prof.
10	Mr.V.V.Durga Prasad Vanka	M.Sc.	Asst.Prof.
11	Mr .B.V.V.Satyanarayana Murthy	M.Sc.	Asst.Prof.
12	Mr.M. Balaiah	M.Sc., M.Phil (Ph.D)	Asst.Prof.
13	Mr.M.Rajev	M.Sc.	Asst.Prof.
14	Mrs.P.Sowjanya	M.Sc.	Asst.Prof.
Department of English			
15	Mrs.M. Madhavi	M.A (Lit)	Asst.Prof.
16	Lt. J.D. Naidu	M.A (Lit) (M.Phil)	Asst.Prof.
17	Mrs.V.Srujana	M.A (Lit)	Asst.Prof.
18	Mr. B. Kishore Kumar	M.A (Lit)	Asst.Prof.
19	Mrs. V.Shirley Grace	M.A (Lit)	Asst.Prof.
20	Mr.SANA Mashahaddi	M.A (Lit)	Asst.Prof.
21	Mrs.A.Jyothi	M.A (Lit)	Asst.Prof.

22	Mrs.K.Hima Chandana	M.A (Lit)	Asst.Prof.
23	Mr.N.Naresh Babu	M.A (Lit)	Asst.Prof.
24	Mr.K.Balaji	M.A (Lit)	Asst.Prof.
25	Mr.K.Chakrapani	M.A (Lit)	Asst.Prof.
26	Mrs.K.Sudha Rani	M.A (Lit)	Asst.Prof.
27	Mr.D.Naga Raju	M.A (Lit)	Asst.Prof.
28	Ms.B.Sridurga	MBA,M.A (Lit)	Asst.Prof.
29	Mr.N.Brahmaiah	M.A (Lit)	Asst.Prof.
30	Mrs.N.Hymavathi	M.A (Lit)	Asst.Prof.
Department of Chemistry			
31	Prof.N. Ramam	M.Sc, M.Phil	Professor
32	Dr.P.V.S.Machi Raju	M.Sc ,Ph.D	Professor
33	Mr.P.Satyanarayana	M.Sc	Asst.Prof.
34	Mrs.A.Jyostna	M.Sc	Asst.Prof.
35	Ms.K.Vani Sri Krishna	M.Sc	Asst.Prof.
36	Ms.M.Sandhya	M.Sc	Asst.Prof.
37	Mrs.D.Saraswathi	M.Sc	Asst.Prof.
38	Mrs.L.D.V.Lakshmi	M.Sc	Asst.Prof.
39	Mr.K.Satyanarayana	M.Sc	Asst.Prof.
40	Ms.P.Sridevi	M.Sc	Asst.Prof.
Department of Environmental Studies			
41	Dr. N.Lakshmi	M.Sc ,Ph.D	Assoc.Prof.
42	Mrs.P.Sravani	M.Sc	Asst.Prof.
Department of Physics			
43	Mr P.Raj Shekhar Phaneendra	M.Sc,(M.Phil)	Asst.Prof.
44	Mr.G.Ravi Prasad	M.Sc	Asst.Prof.
45	Mr.D.Ravi Kumar	M.Sc	Asst.Prof.
46	Mr.K.V.S.CH.Prasad	M.Sc	Asst.Prof.
47	Mr.R.N.V.Sundar	M.Sc	Asst.Prof.
48	Ms.P.Kiranmai	M.Sc	Asst.Prof.
49	Ms.N.Adi Lakshmi	M.Sc	Asst.Prof.
50	Mr.G.Bhaskara Rao	M.Sc	Asst.Prof.
51	Mr.N.Ramkrishna	M.Sc	Asst.Prof.
Department of Management Science			
52	Mr S.Vamsi Kiran	MBA M.Phil	Assoc.Prof.

		(Ph.D)	
53	Mr.K.S.V.G.K.Murthy	M.Com	Asst.Prof.
54	Mr.K.Anand	MBA	Asst.Prof.
55	Ms.K.Lakshmi Sudha	MBA	Asst.Prof.
56	Mr.P.Raj Kumar	MBA	Asst.Prof.
57	Mr.P.Ramaswamy	MBA	Asst.Prof.
58	Mr.T.Gopi Krishna	MBA	Asst.Prof.
59	Mr.Ch.Raj Kumar	MBA	Asst.Prof.

GUEST LECTURE

An expert lecture on “ENGINEERING EDUCATION –CAREER OPPORTUNITIES & CHALLENGES” was given to I B.Tech students by Sri K.Suryanarayana Senior consultant Tcs on 4th and 5th July, 2014.



Faculty Research Publications in International Journals

1. **Dr.P.V.S.Machiraju** and K. Jhansi Lakshmi published a paper in Asian Journal of Chemistry on “ Physico-Chemical, Biochemical and Heavy Metals Analysis of Subsurface Waters Near Non-Point Source for Assessing Their Quality for End User Application”, vol-26, supplementary issue-2014.S153-S156.
2. **Dr.P.V.S.Machiraju** and **Ch.V.V.Satyavani.M.Krishna Murthy** published a paper in Asian Journal of Chemistry on “Quality Evaluation of Ground Water Near point source in Urban Area for Assessment of its Potential for Application “,vol-26,supplementary issue-2014,S146-S152.
3. **Alfred Hugo, Goteti V .R.L.Sarama, Dr. N. Lakshmi** professor of Environmental Science published a paper in an international journal of Mathematical Modelling and Applied Computing “Modeling Prey Predator System with Immigrant Prey and Predator Harvesting”ISSN: 0973-6093, vol-5(1), pp.5-16.2014.
4. **Alfred Hugo, Goteti V .R.L.Sarama, Dr. N. Lakshmi** professor of Environmental Science published a paper in an international journal of Mathematics Research on “Mathematical model for Prey Predator system with Immigrant Prey” ISSN:0976-5840,VOL-6(3,PP.297-309).2014.
5. **B.Vijaya Kumari , Y.L.N.Murthy,Dr.P.V.S.Machiraju**, published a paper in an international journal of Current Microbiology and Applied Sciences on”Chemical and microbial characterization of surface and ground waters near estuaries of East Godavari region for evaluation of their potential for application “,ISSN: 2319-7706 ,VOL-3(12).PP.205-212.2014.
6. **Dr. N. Lakshmi** Professor of Environmental Science, published a paper in an international journal of Engineering Research & Development on “Lead content in seeds of groundnut (Arachis hypogea L.var TMV-2) grown at different soil lead amendment”.ISSN:2278-067X, Vol.10, issue10, Oct.2014 PP 47-50
7. **Alfred Hugo, Goteti V .R.L.Sarama, Dr. N. Lakshmi** professor of Environmental Science published a paper in an international journal of Advanced Scientific and Technical Research on “An Eco –Epidemiological Mathematical Model for Predator –

prey system with disease infection in prey population”, ISSN: 2249-9954, issue -4, vol-5, Sep-Oct-2014.

8. **Dr.P.V.S.Machiraju**, D. Balarama Raju., Dayakar Babu, R., published a paper in International journal of Engineering Research on “Investigative Study to Assess the Potential of Paper Industrial Sludge as a Material for Construction”. ISSN-2321-0869, Vol-2, Issue-8, September ,2014.
9. P.Lakshmi Ganapati., V.Ranga Rao., T.Siva Rao., **Dr.P. V. S. Machiraju** , published a paper in International journal “Physicochemical and Heavy Metal Characterization of drinking waters from rural water supplies in (RWS) for Quality Evaluation”, vol - 3 (5), pp: 2166-2175, 23rd September,2014.

Faculty Research Publications at National Journals

1. **Mr. K. Chakrapani** Assistant Professor of English published a Paper entitled “Englishlanguage teaching and learning strategies: An overview for L2 Teachers”, in Research India Press, page number 237, with ISBN 978-93-5171-023.2014

Faculty Presentation at International/National -Conferences / Seminars

1. **Mr. T. Satyanarayana** Assoc. Prof. of Mathematics, Dept. of BS&H presented a paper on two day national seminar on “**Differential Geometry on a Type of Para Kenmotsu Mani Fold**” at Acharya Nagarujuna University on 22nd to 23rd Dec, 2014.
2. **Mr. K. Chakrapani** Assistant Professor of English presented a paper entitled “The Integration of Literature and culture in second language acquisition and learning”, in the International seminar on literary vistas-2014 organized by the department of English Udaya college of arts and science on 11th October 2014, Ammandivilai post, Kanyakumari Dist, Tamil nadu, 629204,(India).
3. **Lt.J.D.Naidu** Assistant Professor of English Presented a paper on “**The Theme of Poverty and Emancipation in Selected Short Stories of Mulk Raj Anand**” in the International Seminar organized by Uday College of Arts & Science, Kanyakumari on 11th Oct, 2014 .

4. **Dr. P.V.S. Machiraju**, Professor of Engineering Chemistry presented a paper in International Conference on Global Trends in Pure and Applied Chemical Science (ICGTCS-2014) at Hong Kong from 3rd to 5th October, 2014. He also chaired Session for oral presentations in the conference.



5. **Mr. K. Chakrapani** Asst.prof.English presented a paper on "**English language teaching and learning strategies: An overview for L2 Teachers**" at UGC National seminar in English on new trends in English language teaching conducted by the department of English Government Degree college for women, Srikalahasti on 22nd – 23rd August ,2014.
6. Oral Presentation by **Dr. P.V.S. Machiraju**, Professor of Engineering Chemistry in National Conference on Emerging Areas in Chemical Education & Research and National Convention of Chemistry Teachers (NCCT-2014) held at IIS University (Deemed University), JAIPUR, from 16- 18 th October, 2014.

Faculty Participated in International/National -Conferences / Seminars

1. **Mr.P.MadhuBabu and Mr. M.Veera Raghava Reddy** Assistant Professors of Mathematics, participated in a two day National workshop on “Recent Advances in Mathematics and Computational tools for Engineering Applications” held on 5th-6th Dec, 2014 by Department of Mathematics at GMR Institute of Technology, Rajam.
2. **Mrs.R.Sugnani**, Asst Prof. of Mathematics, participated in National Workshop “**Differential Equations-Applications**”sponsored by UGC at St.Theresa’s Autonomous College for women on 15th -16th Dec, 2014.
3. **Mr.P.MadhuBabu and Mr. M.Veera Raghava Reddy** Assistant Professors of Mathematics, participated in a National level Five Day Faculty Program on “Real Time

Engineering Applications of Mathematics” held on 25th-29th Nov, 2014 at Shri Vishnu Engineering College for Women, Bhimavaram

4. **Mr. K. Chakrapani and Mr.J.D.Naidu** Assistant Professors of English Participated in a two day National level faculty development programme on “**Pragmatic Strategies for Professional communication**” held in Sri Vidyanikethan Engineering College, Tirupati on 26th and 27th September 2014.
5. **Dr.N.Lakshmi** Professor of Environmental Science participated in the Environmental, occupational health and safety seminar at JNTUK, on 4-5 Sep 2014
6. **Lt.J.D.Naidu** Assistant Professor of English Participated in Two Day National Seminar in English on “**New Trends In English Language Teaching**” on 22nd- 23rd August, 2014 at Government Degree College For Women, Srikalahasti.
7. **Lt.J.D.Naidu and Mr. K. Chakrapani** Assistant Professors of English Participated in the National Workshop on “**English Language Teaching: A Blended Approach**” held on 18th August, 2014 at Andhra University, Visakhapatnam.

Faculty Achievements

1. **Mr.M.Balaiah** Asst.Prof of Mathematics was awarded Ph.D on the title “Some Contributions to Fixed Point Theory in Cone Metric Spaces” from GITAM University on 19th Dec, 2014.
2. **Dr. P.V.S. Machiraju**, Professor of Engineering Chemistry and Secretary, South Zone-Association of Chemistry Teachers participated in Executive Council meeting held at Jaipur on 16-10-2014



3. **Dr. P.V.S. Machiraju**, Professor of Engineering Chemistry acted as a Panelist in the Panel discussion on the topic “ How Teaching Research Linkage can be Strengthened in Higher Education” in the National Conference on Emerging Areas

in Chemical Education at IIS University (Deemed University), JAIPUR on 18.10.2014.



Student Achievement

Students Topper for I B.Tech II Semester:

1. 13A31A05A1 (90.06%) Vullaganti Krishna Priya Madhuri



2. 13A31A0592 (89.21%) Putta Prasanthi



2. 13A31A0358 (87.15%) Vechalapu Naga Venkata Sai Kiran



NSS ACTIVITIES

1. NSS Volunteers were deputed to attend “Ambedkar Andarvadu” Programme at JNTUK Sports Grounds Kakinada on 27-07-2014. 21 volunteers were deputed for the event.
2. Inauguration of “ROTRACT CLUB” to Students other than NSS volunteers by ROTARY CLUB Kakinada Central. 17 Students became Members. This Club is inaugurated to encourage students to participate in social organizations for achieving Personality and Employability skills.
3. Orientation Programme to NSS Volunteers on “DISASTER MANAGEMENT” by Dr. P.V.S Machiraju, Professor of Chemistry, Pragati Engineering College on 18-7-2014, 29 Volunteers participated.
4. Rotaract club and NSS Unit of Pragati College have jointly organized the Children’s Day celebrations at Anuru MPP High School on 14.11.2014.



5. NSS unit of Pragati Engineering College organized a **Blood Donation Camp** on 30.10.2014 in association with Lions Club Professional and Blood Bank of GGH Kakinada.



6. NSS Unit & NCC Unit of the college jointly organized communal Harmony week from 19th November to 25th November, 2014 in the college campus. Volunteers conveyed the message of communal peace and brotherhood among the fellow students to promote and strengthen UNITY in DIVERSITY



NCC ACTIVITIES

Lt.J.D.Naidu, A.N.O, NCC and Asst.Prof of English organised the CATC-XIII from 18.08.2014 to 26-08-2014 co ordinating with the commanding officer, NCC 18 (A) BN, Kakinada for 10 days in Pragati Egnieering College providing facility for 600 cadets from different institutions.



CHEMISTRY RESEARCH LAB INAGURATION

Inauguration of Chemistry Instrumentation Research laboratory in Pragati Engineering College by Prof. Y.L.N. Murthy, Member, State Expert Appraisal Committee, MoEF, Govt. of India on 29-09-2014



EDITORIAL BOARD

1. Mr.T.Satyanarayana -Assoc.Prof.& HOD-BS&H
2. Lt.J.D.Naidu - Asst.Prof. of English
3. Mrs.K.Himachandana -Asst.Prof. of English

