



PRAGATI ENGINEERING COLLEGE

SCIENCE QUEST

JANUARY TO JUNE 2014

VOLUME -5

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 June 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.M.V.Raghava Reddy	M.Sc.	Asst.Prof.
8	Mr.K.Rambabu	M.Sc.	Asst.Prof.
9	Ms.V.Sarada	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.Rajeev	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	Ms. V.Shirley Grace	M.A (Lit)	Asst.Prof.
20	Mr.SANA Mashahaddi	M.A (Lit)	Asst.Prof.
21	Ms.C.V.L Padmavathi	M.A (Lit)	Asst.Prof.

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

50	Ms.P.Sridevi	M.Sc	Asst.Prof.
Department of Environmental Studies			
51	Dr. N.Lakshmi	M.Sc ,Ph.D	Assoc.Prof.
Department of Management Science			
52	Mr. S.Vamsi Kiran	MBA M.Phil (Ph.D)	Assoc.Prof.
53	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.Raju Kumar	MBA	Asst.Prof.
57	Mr.P.Ramaswamy	MBA	Asst.Prof.
58	Mr.T.Gopi Krishna	MBA	Asst.Prof.

Guest lecture

A Guest lecture on Soft skills was conducted on 27-3-2014 by Prof.Y.Soma Latha AUMSN, PG Center, Kakinada. She emphasized on improving Soft Skills which will enable the students to lead a proper life in their future. Students of Pragati Engineering College are actively participated in the programme.



Faculty Publications in International Journals

1. **Mr.T.Satyanarayana** Assoc.Prof. Of Mathematics, Dept. of BS&H published a paper on International Journal of Pure and Applied Mathematics “ON PARA KENMOTSU MANIFOLD” ISSN-1314-3395 ,VOL: 90 (1),pp35-41,,2014.
2. **Dr.N.Lakshmi** Prof.of Environmental Sciences published a paper in ARPN journal of Agricultural and Biological Sciences. “Effect of lead (Pb⁺²) on SEED germination of sesamum (*Sesamum indicum*, L.Var.YIM-II) grown in solution and pot cultural at different test concentration of lead” vol.8 (6), May, 2014.
3. Ch. Krishna Prasad and **Dr.P. V. S Machi Raju**, published a paper in an International Journal of Applicable Chemistry on “Synthesis, Characterization and Antibacterial activity of Novel Benzo[b]furan Carbohydrazide Derivative of Intermediate Egonol” , ISSN-2348-5221 ,Vol-3 (4), **2014**.
4. Jhansi Lakshmi, K,**Dr. P.V.S Machiraju**, and Udaya Bhaskar, P., published a paper in an International Journal of Current Chemical Sciences “Physicochemical and Microbial Characterization of Subsurface waters near a Nonpoint Source for Assessment of Quality for End Use Applications”, , Vol-3 (1), pp: 06-13,Jan- **2014**.

Faculty Achievements

- **Dr. P.V.S MACHIRAJ**, Prof. of Chemistry acting as a Resource person and delivered an invited talk on “Nature’s Action and Human’s Reaction” in NSS Coordinator’s Orientation Programme conducted Jointly by Andhra University and JNTU-K, Kakinada for NSS Officers of Affiliated Engineering Colleges of JNTU-K, Kakinada on 8th April,**2014**.
- **Mr. S. Vamsi Kiran**, Assoc Prof. and TPO inducted as a member of Andhra Pradesh Chapter of confederation of Indian Industry (CII) panel on education and still development

FACULTY AWARDS

- **Mr .M.Balliah** Assistant Professor in Mathematics was awarded with phd on fixed point theory from GITAM University.
- **Dr P.V.S. MACHIRAJU** , Prof. of Chemistry awarded as a “Best Citizen Award” during the year 2006.
- **Dr P.V.S. MACHIRAJU**, Prof. of Chemistry awarded as a “Best Teacher Award” during the year 2003.
- **Dr P.V.S. MACHIRAJU**, Prof. of Chemistry awarded as a “District Best Teacher Award” during the year 2003.
- **Dr P.V.S. MACHIRAJU** Prof. of Chemistry awarded as a “Delhi Telugu Academy Award” during the year 2003.
- **Mr S. Vamsi Kiran**, Assoc. Prof. and TPO awarded as a “Best Teacher Award” during the year 2010.

MAJOR Research Projects

(Funding Agencies-UGC, MoWR & BRNS)

- **Dr. P.V.S.Machiraju**, Professor of Chemistry, from the Department of Basic Science has been acting as **Co-Principal Investigator** for a Major Research Project sanctioned by Board of Research in Nuclear Sciences (BRNS), Bhabha Atomic Research Centre (BARC), Mumbai (**39.68 Lakhs**). *The present status of the project is Ongoing*
- A Major research project Proposal of **Dr. P.V.S.Machiraju** was approved by Indian National Committee on Ground Water Board (INCGWB), Central Ground Water Board (CGWB), Ministry of Water Resources (MoWR), New Delhi for **16.70 Lakhs** and the *release of Grant awaited*
- **Dr. P.V.S.Machiraju**, Professor of Chemistry, from the Department of Basic Science submitted a Major Research project proposal for **Rs. 24.82 Lakhs** to Board of Research in Nuclear Sciences (BRNS), Bhabha Atomic research centre (BARC), Mumbai (*Awaiting Final approval for Sanction and Release of Financial assistance*)

Minor Research Project

Funding Agency- UGC-SERO, Hyderabad

Mr. P. Satyanarayana, Assistant Professor of Chemistry, Department of Basic Sciences was sanctioned with a Minor Research Project with a financial assistance of **Rs. 4,20,000/-** and an amount of **Rs.3,15,000/-** released.

**The present status of the project is an Ongoing*

Faculty Presentation at International Conference

- **Mr T.Satyanarayana** Assoc.Prof. Of Mathematics, Dept. of BS&H presented a paper at national conference on **Quarter Symmetric non-metric connection on P-Kenmotsu Manifold** held at JNTUK on 23-24 May 2014.

Faculty Participation at National Conferences / Seminars

- **Mr. M. Balaiah**, Asst Prof. of Mathematics, Participated in “**National Conference on Emerging Trends in Mathematical Sciences and Engineering Applications**” May 23rd - 24th 2014 at Department of Mathematics, JNTUK, Kakinada.

Faculty Acting as Resource Persons

- **Dr.P.V.S MACHIRAJ**, Prof.of.Chemistry acting as Resource Person and delivered a speech on “Atomic Absorption Spectroscopy (AAS) - A significant tool for Heavy Metal Analysis” in a National workshop on Instrumentation Techniques organized at P. G. College, Gayatri Vidya Parishad, Visakhapatnam on 7th -8th February **2014**.
- **Dr.P.V.S MACHIRAJ**, Prof.of.Chemistry acting as a Resource person and delivered a speech on “Nature’s Action and Human’s Reaction” in NSS Coordinator’s Orientation Programme conducted Jointly by Andhra University and JNTU-K, Kakinada for NSS Officers of Affiliated Engineering Colleges of JNTU-K, Kakinada on 8th April **2014**
- **Dr.P.V.S MACHIRAJ**, Prof.of.Chemistry acted as a Resource person and delivered an invited talk on “Significance of NSS Services in Disaster Management in NSS” Coordinators.Orientation Programme conducted by Andhra University, Visakhapatnam

NSS Officers of Degree and Junior Colleges of East and West Godavari Districts organized at Ideal of P.G. Courses, Kakinada on **5-7-2014**

- **Dr.P.V.S MACHIRAJ** acted as a Resource person and addressed on “NSS Volunteer’s Services in Disaster Management” conducted by NSS Unit of Pragati Engineering College, Surampalem on **18-7-2014**.

Students Achievements

Topper for I B.Tech I Semester:

1. 13A31A04F2 (90.91%)

Ventrapragada Alekhya



2. 13A31A0255 (88.24%)

Basava Prasanna Sai



3. 13A31A0317 (84.36%)

Chintakayala Srinivas



NSS ACTIVITIES

- NSS Volunteers were deputed to volunteer in the General Elections 2014 May 7 at Peddapuram Mandal, East Godavari district and 18 Volunteers Attended.

- Mr. P. Rajshekhar Phnaeendra, NSS PO received felicitation from ROTARY GOLDEN JUBILEE CLUB BLOOD BANK for conducting blood camps on 23-02-2014
- Dr.S.Sambhu Prasad, Principal and Chairman NSS Unit Pragati Engineering College delivered a lecture on “Value Education” on 8-2-2014 in the NSS Programme Officers Training and Orientation Programme at JNTUK, Kakinada.
- NSS Programme Officer attended NSS Programme Officers Training and Orientation Programme from 6-02-2014 to 12-02-2014 at JNTUK, Kakinada.
- NSS Unit of the college assisted the Management of Kumararama Bhimeswara Temple, Samalkota in the MahaShiva Ratri celebration on 27-02-2014. Water packets were distributed to the devotees.10 volunteers attended the programme.
- Mr K.Satyaramesh, IV ECE, NSS volunteer received Best NSS Volunteer Award 2013-2014 in the College on 26-01-2014.
- NSS Unit of the college attended the Republic Day parade function on 26-01-2014 at JNTUK, Kakinada. **30** volunteers attended the programme.

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