BASIC SCIENCES DEPARTMENT

INTRODUCTION

The Department of Basic Sciences is devoted to foster the fundamental principles and understanding of science that are capable of enhancing the human experience. The academic programs of this department are organized to meet the requirements of the fast growing technology. The Department has been there, right from the inception of the College, offering instruction in Mathematics, Physics and Chemistry to students of the various core branches of engineering.

“Delivering a transformative education is the core mission of basic science”

The department of mathematics has been training students on application software like MATHEMATICS and MATLAB. It also runs a forum “ADVANCED ACADEMIC CENTRE “ and leading resource persons visit the college under this forum.

The department is strengthened with a total of 36 faculties out of which 4 are Doctorates and 10 are pursuing PhD’s.

Doctorates in Basic science

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of the Faculty</th>
<th>Degree Awarded</th>
<th>No. of Publications(journals/conferences)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr S. Ramamurthy</td>
<td>2007</td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>Dr R. Subrahmanyam</td>
<td>1985</td>
<td>7</td>
</tr>
<tr>
<td>3</td>
<td>Dr B. Ramakrishna Reddy</td>
<td>2006</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>Dr C. Vekateshwarao</td>
<td>1995</td>
<td>26</td>
</tr>
<tr>
<td>5.</td>
<td>Dr V. Lakshmi Prasanna</td>
<td>2015</td>
<td>6</td>
</tr>
</tbody>
</table>

Faculty and their publications:

Dr. S. Ramamurthy

Qualifications: M.Sc, Phd (Maths)

Experience: 24 yrs

Research interest: Approximation theory

No. of Journal Publications/Conference Proceedings: 3

Journal Publications


**Dr. C. R. VENKATESWARA RAO**

**Qualifications:** M.Sc, Phd (chemistry), POSTDOCTORAL

**Experience:** 18 yrs

**Research Interest:** ‘Synthesis, Characterization and Superconductivity Studies of Single Crystals of High Tc Oxides and Fullerides’.

**No. of Journal Publications/Conference Proceedings:** 27

**Journal Publications**

**International**


21. The hydriding behaviour of UFe$_1$-xNixAl system (0<x<0.75) and magnetic studies onUFe$_1$-xNixAlH0.8 P.Raj, A.Sathyamoorthy, K.Shashikala, N.Harish Kumar, C.R.Venkateswara Rao and S.K.Malik, J.Alloys Compd. 296(1-2), 20-26 (2000).


27. Crystallization of self-assembled polyoxovanadate nano-clusters by diffusive mixing of VO$_{2}^+$ and VO$_{4}^{3-}$ in aqueous medium (submitted).

V.N. RamaDevi

Qualifications: Ph.D

Experience: 14 years

Research Interest: Queuing theory

No. of Journal Publications/Conference Proceedings:

International


Conference Proceedings

International

1. Presented a paper in International conference on STATISTICS&INFORMATION TECHNOLOGY FOR A GROWING NATION from 22 Nov-2 Dec,2014, Sri Venkateswara University,Tirupati,A.P.

National

1. Presented a paper in National conference on “Mathematical And Applications-2011”,Dhule, Maharashtra,India.

Mr. M. Sreedhar, Associate Professor, Dept. of Physics


Experience: 14+ Years

Research interest: Solid State Physics, Electromagnetism, Materials Science

Journal Publications: International: 1


National Conference Proceedings: 6


K. Vagdevi, Assistant Professor of Physics


Experience: 10 years

Research Interest: Condensed Matter physics, Fiber optics

No. of Journal Publications/ Conference Proceedings: 10

Journal Publications:


Conference Proceedings

International:


National


Dr. V. Lakshmi Prasanna, Associate Professor of English
Qualifications:  M.A.,  M.Ed.,  Ph. D.

Experience: 24 years

Research Interest: Indian Writing in English

Journal Publications / Conference Proceedings:

National Publications:

1. Dr. V. LakshmiPrasanna, Paper published in National Journal ‘Triveni’, -“Images of Women in the Novels of Nayantara Sahgal” March 2011

International publications:

2. Indian Writing in English: Objectives and Achievements, volume: 7, Issue: 1, June 2014, ISSN 0972-0901, Cyber Literature: The International online Journal
3. Nayantara Sahgal’s Place In Indo-English Novel, Volume: 7 Issue: 1 (June 2014) ISSN 0972-0901 Cyber Literature: The International Online Journal

International Conferences:


9. Dr. V. LakshmiPrasanna, Paper Presented on “The Role of Email in the communication process- Netiquette in International Elt@I Rajasthan Conference on Interfacing Language, Culture & Technology BITS Pilani, Rajasthan.(8-9, Oct)

10. Dr. V. LakshmiPrasanna, Paper Presented on “The Role of Technology in Project-Based learning” in World Conference on Applied science, Engineering &Technology at GITAM University, Hyd. (8 March, 2013).

11. Dr. V. LakshmiPrasanna, Paper Presented on “The Importance of Partition Literature in Indian Writing in English” in the International Conference on English Language and Literature: Readings and Reflections at GITAM University, Hyderabad on 7&8 August, 2015.


**National Conferences:**

13. Dr. V. LakshmiPrasanna, Participated “National Practicum on Emerging Areas of Research in English Language &Literary studies” conducted by JNTUH (29 April, 2011).


17. Dr. V.V. LakshmiPrasanna, Participated in a two day National Symposium on “Teacher-Text-Student Interaction” during 13-14 December 2013 at JNTUH, Hyderabad.

Certifications


20. Dr. Vaidana Lakshmi Prasanna completed FDPICT001x: Use of ICT in Education for Online and Blended Learning, an online Certificate Course of study offered by IIT Bombay X during April-Aug 2016

WorkShops

1. Dr. Vaidana Lakshmi Prasanna Participated in the one day Faculty Development Programme on Effective Methods of Teaching for Engineering Faculty, organized by Institute of Public Enterprise (IPE), Hyderabad, held on 14 October 2012 at Hyderabad.

2. Attended NASSCOM workshop at JNTUH, 2Sep to Sep 6, 2013 Hyderabad.

Rekha P.M, Assistant Professor in English


Experience: 13+ years
Research Interest: American Literature

Conference Proceedings
International

1. Participated in the Three Days International Conference conducted by British Council and English Foreign Languages university, Hyderabad on English Language Teacher Education in a Diverse Environment in 2013

No. Of Journal publications


Qualifications:

Ph.D ( Indian Literature pursuing, reg OU 2013), M.A Lit ( English Language Teaching) (OU Hyderabad-2003) , B.Sc (Computers) (OU Hyderabad-1997)

Experience: 13 years

Research Interest: Modern Drama

No. of Journal Publications/Conference Proceedings: 01


Certifications


Conference proceedings 03

Journal Publications:

International:

1. “Women subjugation and gender inequality in Manjula Padmanaban’s play Lights Out” in International Conference on English Language and Literature: Reading and Reflections conducted at GITAM University on 7-8 August 2015

National


International


R. Lakshmi Kanthi, Asst. Professor in English

Qualifications: PhD (English) (JNTU-H, in progress, Registered 2010), PGCTE (EFLU, Hyderabad), M.A (English Litt.) (Andhra University, 1983), B.A (English Litt.) (AU, 1981)

Experience: 28 years

Research Interest: Contemporary Indian Writing in English & Commonwealth Literature

No. of Journal Publications/Conference Proceedings: 4

Conference Proceedings

International


National


Mr. M. Aravinda Kumar, Asst. Professor in English

Qualifications:
Ph.D (HRM, Acharya Nagarjuna University in progress, Registered in 2011), M.A. English Literature (Osmania University, Hyderabad in 2005), Post Graduate Diploma in Communicative English (University of Hyderabad, 2008), B.A. English Literature (Sri Krishna Devaraya University, Anantapur), M.Phil (ANU, Guntur 2010), MHRM (ANU, Guntur 2008).

Experience: 8 years

Research Interest: Training Practices

Journal Publications / Conference Proceedings: 3


3. Participated and presented a paper on “Recent Trends in HR of Indian Youth Segment: Adapting to Global Scenario” in a national conference on “Changing Scenario of HR in India” at Acharya Nagarjuna University, Guntur in 2012.

M.V.Sreekantha Reddy,

Asst.professor (Mathematics-BS Dept)

Qualifications: Ph.D(Applied Mathematics)
(Rayalaseema University,Kurnool, in progress, Registered 2009),
M.Sc(Tech) (Systems Theory and Industrial Applications)
(JNTU University, 1998), B.Sc (MPC) (SVU, 1995)

Experience: 15 years

Research Interest: Fluid Dynamics

No. of Journal Publications/Conference Proceedings: 6

Journal publications

International


Conference Proceedings

National


3. M.V.Sreekantha Reddy, one week national workshop on “Mathematical Modelling for Performance Oriented Heuristic Techniques and its Applications To Industry” held at M.S.Ramaiah Institute of Technology,Bangalore from 7th-11th December 2009.

B Umamaheswara Rao, Assistant Professor in chemistry

Qualifications: PhD (Chemistry (Andhra University, in progress registered 2010), M.Phil (Engineering Chemistry) (Andhra University College of Engineering(A), Andhra University, 2001), M.Sc (Applied Chemistry) (Andhra University College of Engineering (A), Andhra University, 1999), B.Ed (Madhurai Kamaraj University, Madhurai, 1996).

Experience: 11 years (Teaching), 2 Years (Industry) and 1 year Senior Research Fellow in AU


Journal Publications/Conference Proceedings: 8

Journal publications
International


National


Conference Proceedings

International


National

1. Physio-chemical properties of Gosthani river surface waters AP Science Congress, Osmania University, Hyderabad, 2008.


Name: Ms. K. Kalpana

Designation: Assistant Professor of Humanities & Basic Sciences


Area of Specialization: Organic & analytical chemistry

Area of Interest: Synthesis of chemical compounds, analytical & spectroscopic techniques.

Teaching Experience: 10 years

Conference Proceedings: 2

Conference Proceedings:

1. International Conference on “Trend setting innovations in chemical sciences and technology-Applications in Pharma industry”, at CCST, IST, JNTUH, Hyderabad from 16th -18th Dec 2015.

   Title 1: "Synthesis and biological evaluation of combretastatin –urea derivatives as anti-cancer agents” from 16th -18th Dec 2015 CCST, IST, JNTUH, Hyderabad.
Title2:”A Concise Stereoselective total synthesis of Verbalactone” from 16th -18th Dec 2015 at CCST, IST, JNTUH, Hyderabad.

Name: Mr.J.KISHORE BABU

Designation: AssistantProfessor ,Dept of physics (BS)

Qualifications
- PhD(Physics)(Acharya Nagarjuna-University,Guntur,in progress, Registered in 2014)
- M.Sc(Physics)( Acharya Nagarjuna-University,Guntur,2005)

Area of Specialization: SolidStatePhysics
Area of Interest: Luminescence, Crystal Growth
Teaching Experience: 10 years
Conference Proceedings: 4
National Conference Proceedings:

1. **J.kishore babu**, Sridhar Mandava, A.S. Sai Prasad, B. Subba Rao and KVR Murthy

2. Sridhar Mandava, Subrahmanyam Ramachandrula, Aparna Yarramareddy and **J.kishore babu**

3. **J.kishore babu**, Sridhar Mandava, Arun Kumar, A.S. Sai Prasad, B. Subbarao and KVR Murthy

4. A.S. Sai Prasad, **J.kishore babu**, V. Ravi Kumar and KVR Murthy