MATHEMATICS DEPARTMENT

INTRODUCTION
The Department of Mathematics has been there, right from the inception of the College (1997), offering instructions in Mathematics and Statistics. The department shares the vision of the institute “to be among the best of the institutions for engineers and technologists with attitudes, skills and knowledge and to become an epicenter of creative solutions” through teaching and research. It always strives to succeed in this endeavor.

Currently the department offers seven courses covering various areas of Mathematics and Statistics for several UG and PG programmes. The various courses of this department are designed to nurture mathematical interests, meet the requirements of the fast growing technology and motivate research in this field. They are reviewed and updated from time to time to make them more relevant.

The department has also been training students on application softwares like MATHEMATICA and MATLAB. It also runs a forum “ADVANCED ACADEMIC CENTRE “ to support projects of both faculty and students and leading resource persons also visit the college under this forum.

The department is strengthened with a total of 16 faculties out of which 4 are Doctorates and 5 are pursuing Ph.Ds. Presently there are two professors, two associate professors and twelve assistant professors in the department working in the thrust areas: Mathematical modeling, Fluid Mechanics, Real Analysis, Queuing Theory and Cryptography. The department maintains a very vibrant academic atmosphere through various academic initiatives. The department regularly organizes workshops and department seminars to enhance the professional skills of faculty.

The faculty of the department also contributes significantly in institute administration by taking up some of the key responsibilities at the institute level and by actively participating in various institute level committees.

Doctorates in Mathematics (Basic Science Department)

<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>13</td>
</tr>
<tr>
<td>2</td>
<td>Dr. B. Rama Krishna Reddy</td>
<td>2006</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Dr. V. N. Rama Devi</td>
<td>2015</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>Dr. G. Swapna</td>
<td>2014</td>
<td>10</td>
</tr>
</tbody>
</table>
Dr. S. Ramamurthy (ID: 184)

Designation: Professor

Qualifications: M.Sc, Phd (Maths)

Experience: 26yrs

Research interest: Approximation theory

Publications in international Journals

1. Parametric fitting of non function like curves by minmaxion and minaddition in International Journal Of scientific & Innovation Mathematical research (IJSIMR) ISSN 2347-307X, Vol 2 (2) – pp 221-232


3. Connective Stem Determination by Minmaxion International journal of Modern Sciences and Engineering Technology (IJMSET) International journal of Modern...
Publication in National Journals

4. Curve fitting when the curve may not be a function - Journal of Interdisciplinary Mathematics- Vol(9)-3-pp 551-568, 2006


6. Piecewise fitting of non-function-like curves by minmaxion - Published in proceedings of “National Conference on Mathematical Sciences & Engineering Applications” – Baba Institute of Technology and Sciences, Visakhapatnam in the year March 2012.


** 3 papers communicated (2 for National journals & 1 for an International journal)

National Conferences

1. On ultimately periodic sequences and some special matrix operations- APSMS-2003

2. Curve fitting when the curve may not be a function-a data guided approach- APSMS-2005


Name of Faculty: Dr. BRK Reddy

Designation: Professor

Qualifications: M.Sc, Ph.D

Experience: 18 Years

Research Interest: Computational Fluid Dynamics

No. of Publication/Conferences: 5

Certifications: 1

Journal Publications:


2. RADIATION AND INCLITATION EFFECTS OF CONVECTIVE HEAT AND MASS TRANSFER OF A MHD NANO FLUID FLOW PAST A PERMEABLE FLAT PLATE International Journal of Futuristic Science Engineering and Technology Vol 1 Issue 4 April 2013, ISSN 2320 – 4486

3. FINITE ELEMENT ANALYSIS OF FREE CONVECTION FLOW WITH MHD MICROPOLOR AND VISCOUS FLUIDS IN A VERTICAL CHANNEL WITH DISSIPATIVE EFFECTS, June, 2011, DOI: 10.3329/jname.v8i1.5808
Name of Faculty: Dr. V.N. Rama Devi

Designation: Associate Professor, HOD of Mathematics

Qualifications: M.Sc, Ph.D, M.B.A

Experience: 16 years

Research Interest: Queueing Theory

No. of Publication/Conferences: 7

Certifications: Nil

No. of times invited for guest lectures: -

Books Published: Nil

Journal Publications:

International publications: (year wise –descending order)


2. “Optimal control of two-phase M/M/1 queueing system with server Start-up, N-Policy, unreliable server and Balking”, V.N.RamaDevi and Dr.K.Chandan, The International Journal Of Engineering And Science (IJES) || Volume || 3 || Issue || 4 || Pages || 59-69 || 2014 , ISSN (e): 2319 – 1


5. “Cost Analysis of Two-Phase M/M/1 Queueing system in the Transient state with N-Policy and Server Breakdowns” Dr V.N.Rama Devi, K.Satish Kumar, G.Sridhar, Dr K.Chandan, *International Journal of Computational Engineering Research (IJCER)*, Volume, 07 || Issue, 9 || September – 2017 ||, ISSN (e): 2250 – 3005


**National publications: (year wise –descending order)**


**Conference Proceedings**

**International Conferences: (year wise –descending order)**


**National Conferences: (year wise –descending order)**

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

2. Rama Devi V.N, Sateesh Kumar.K and Chandan.K. Transient Analysis of a Finite Capacity $M^X/M/1$ Queueing System with Two-Phase, N-Policy, Server Startup and Second Optional Batch Service, National seminar on SQC, Reliability, Design of
experiments and OR in Acharya Nagarjuna University, Guntur from 22-24 February, 2017.

Dr. G. Swapna (ID: 1338)
Designation: Associate Professor
Qualifications: Ph.D
Experience: 10 years
Research Interest: Cryptography, Elliptic Curve Cryptography

Journal Publications/Conference Proceedings: 10
International


National publications: (year wise –descending order)


Conference Proceedings

International Conferences: (year wise –descending order)


National Conferences: (year wise –descending order)


3. “An Efficient ID-based Signature Scheme with Batch Verifications”, G. Swapna, A two-Day National Conference on Computer Science, Engineering and Applications, Sri PadmavatiMahila University, Tirupathi, during 9\textsuperscript{nd}-10\textsuperscript{th} Nov 2012.

4. Participated in the in the National seminar on Modern Trends in Applied Mathematics (NSMTAM) held at Andhra University during 9\textsuperscript{th}-10\textsuperscript{th} October 2010.

5. Participated in the National Conference on Applications of Mathematics in Engineering Sciences (NCAMES-2011) held at Andhra University during 29\textsuperscript{th}-30\textsuperscript{th} June 2011.

Workshops Attended

1. Participated in “Faculty Development Program on Guide to a Passionate Teacher” during 29, June-4 July 2015, held at Gokaraju Rangaraju Institute of Engineering and technology, Hyderabad.

2. Participated in an online course “ET601Tx: Educational Technology for Engineering Teachers” during 07 Jan-07 March 2016 conducted by IIT BombayX.

3. Participated in “Teachers orientation program on Universal Human Values Professional Ethics” during 29 June-1 July 2017, held at JNTU Hyderabad.
Mr. M. V. Sreekanth Reddy (E-Id: 662)

Designation: Assistant Professor

Qualifications: (Ph. D, registered in 2009, Rayalaseema University). M.Sc(Tech)

Area of Specialization: Fluid Dynamics

Teaching Experience: 18 Years

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 7\textsuperscript{th}-11\textsuperscript{th} December 2009.

Mr. Siva Rama Krishna Reddy. V (ID :1380)

Designation: Assistant Professor

Qualifications: M.Sc, (Mathematics), B.Ed.,

Experience: 11 yrs

Research Interest: Mathematical Modelling


Journal Publications

International


National Conference Proceedings:


Bhagathkumar Soma

**Designation**: Assistant Professor

**Qualifications**: Ph.D(Reg. in 2016)

**Experience**: 11 years

**Research Interest**: Analysis, Topology, Functional analysis.

**Journal Publications/Conference Proceedings**: 1

**International/National Journal**: NIL

**Conference Proceedings**

**International**

1) Presented a paper entitled “On various types of Quasi continuous functions”, in A five-Day international Conference on Analysis and its Applications during 28th Nov-2nd Dec 2016, held at IIT ROORKE Uttarakhal..

**Workshops Attended**

1. Participated in “Faculty Development Program on pedagogy and andragogy” during 10-15, September 2012, held at B.V.Raju Institute of Engineering and technology, Narsapur.

2. Participated in 2 weeks program Instructional schools for teachers on “differential equations and analysis”, held at Tata Institute of fundamental research Bangalore collaboration with IIT Bombay