

# SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

#### Re-accredited with 'A' Grade by NAAC





#### **DEPARTMENT OF MATHEMATICS**

### ATTAINMENT OF PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES AND COURSE OUTCOMES

## SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI ATTAINMENT OF PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES AND COURSE OUTCOMES

Name of the Department: Mathematics		
Methods/Strategies of measuring the attainment level of:		
Programme Outcomes	Programme Specific Outcomes	Course Outcomes
<ol> <li>Investigate mathematical problems and solutions in a variety of contexts related to science, technology, business and industry, and illustrate these solutions using symbolic,numeric, or graphical methods.</li> <li>Apply the knowledge of mathematics to address real life problems.</li> <li>Gain the knowledge of software which will be useful in Research.</li> <li>Acquire the strong foundation of knowledge which will benefit to them become a goodacademician.</li> <li>Qualify various competitive exams like CSIR-UGC NET, SET, SLET, GATE, MPSC, UPSC, GRE, TOFFEL, G-PAT, G-MAT, JAM etc.</li> </ol>	<ol> <li>To enhance self-learning and improve own performance.</li> <li>To perform research in conjunction with others as well as individually.</li> <li>To imbibe effective scientific and technical communication in both oral andwriting.</li> <li>To develop problem solving skills, thinking and creativity.</li> <li>To produce next generation researchers in mathematics.</li> </ol>	<ul> <li>1.Good results inUniversityexaminations</li> <li>2. Better results in modeland internalexaminations</li> <li>3.Performance in Model test papers and Performance in Viva voice</li> <li>4. Performance in Seminars andassignments, Brilliant group discussions</li> <li>5.Success in competitions and Better employability</li> </ul>

The Department of Mathematics is establishedin 1990 with the major objective of promotingPost-Graduate studies and research. The Department offers M.Sc. and Ph.D. programs. The main thrust area of researchis Relativity and Cosmology and till to date 35 students have obtained their Ph.D. degrees. The departmenthas successfully completed two research projects funded by University Grants Commission,New Delhi. It is a matter of pride that the Department has organized two InternationalConferences ICR-2005 and ICGR-2015 to commemorate the centenary years of Einstein'sSpecial Theory of Relativity and General Theory of Relativity in the years 2005 and 2015respectively -possibly the lone Department who organized these events in the country. Also on the eve of Silver Jubilee Year, The Department has organized the National Conference on Recent Advances in Mathematical Science-2016. Eleven Students of the Department have qualified NET/SET/GATE and one research student has completed research under INSPIRE Fellowship, DST, New Delhi.

In order to measure course outcomes, the department conducts unit-wise test papers for all courses during each month on completion of each unit. Students are given assignments and they have to make presentations in addition to timely submission of assignments. Instant Quizzes, Debate competitions, seminars are also held to evaluate their general awareness and knowledge in the subject based on current issues.End semester examinations are conducted at the university level.The high performance of students in these assessments testifies the good achievement in theCO.

In order to evaluate Programme Specific Outcomes, under the guidance of the teachersthey have to prepare theQuestionnaires using mathematical softwares, collect the information; analyze and the report should be submitted. Viva-Voice is done based on the it. Moreover, Programme Specific Outcomes may be evaluated on the basis of the performance of students in the national and International level tests and competitions. Eleven Students of the Research and Post Graduate Department have qualified NET/SET/GATE examinations during the past years and one research student has completed research under INSPIRE Fellowship, DST, New Delhi. Above all the happiness and positive feedback of the alumni testifies the achievement of the programme specific outcomes.

In order to evaluate Programme Outcomes, we conduct Aptitude test, Mathematical Intelligence Test and Competitive examination test on various topics. This helps them in to crack the competitive examination required to get employment. Also, we collect feedback from Students and Alumina after gettingemployment regarding their performance in the respective area and institutes.

For detail information of the programme outcomes, programme-specific outcomes and course outcomes [Click here]

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Head Department of Mathematics

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