

ANDHRA UNIVERSITY

PROGRAM PROJECT REPORT

Master of Science (M.Sc.)/Master of Arts (M.A.)

Mathematics



School of Distance Education

Visakhapatnam-530 003, A.P., India
Mail id : sdeauvsp@andhrauniversity.edu.in

Master of Science (M.Sc.)/Master of Arts (M.A.)

- Mathematics

1. INFORMATION ON RELEVANCE OF PROGRAM :

Introduction:

Andhra University is offering M.A./M.Sc. Mathematics program to provide comprehensive curriculum to groom the students into qualitative mathematicians.

Objectives of the program:

- 1) To provide qualitative education through effective teaching learning processes by introducing projects and participative learning.
- 2) To encourage collaborative learning and application of mathematics to real life situations.
- 3) To inculcate the curiosity for mathematics in students and to prepare them for future research.
- 4) Understand the nature of abstract mathematics and explore the concepts in further details

Program Duration : **2 years (Max. period is 4 years)**

2. INSTRUCTIONAL DESIGN

Eligibility & Admission Criteria:

Any Graduation

BA with Mathematics students are eligible for MA (Mathematics) & B.Sc. with Mathematics are eligible for M.Sc. (Mathematics)

Medium and Method of instruction:

The medium of instruction shall be English. The method of instruction shall comprise print and face to face interaction.

Course Material: Comprehensive printed course material, specially designed for self-study, shall be provided to every learner, Softcopy of the Self Learning Material (SLM) will be supplied to all the learners after confirmation of admission In addition to the course material, the learners are required to read suggested textbooks and articles published in journals.

Academic Counseling: Face-to-face classes and online classes are conducted at designated centres in all programs to enable the learners to have interaction with resource persons for clarification of doubts.

Examinations:

Each paper carries 70 marks end theory examinations and 30 marks internal assessment in the form of assignments. Exams are conducted at different affiliated colleges of the University by sending observers from University

Duration: The duration of each theory examination shall be three hours.

3. PROCEDURE OF EVALUATION

The theory papers of end examinations will be evaluated by different faculty members drawn from University and affiliated colleges.

Internal Evaluation:

Internal evaluation shall be made on the evaluation of the assignments submitted by the learners for 30 marks.

Reappearance:

A learner who has failed in any theory paper of any year shall have to reappear for the examination of that course in the following end examinations.

Betterment:

1. Learners who have passed in all the courses of a program and who have obtained a Pass or SecondClass are eligible for attempting for Betterment of Grades.
2. Learners who have already secured a First Class are not eligible for betterment of Grade.
3. Betterment of Grades is permitted only once and that too within two years of passing.
4. Learners can appear for betterment of all papers in a year.
5. New Marks list / Provisional Certificate shall be issued to candidates who have improved their Class aftersubmitting the old Marks List/Provisional Certificate only.

4. Eligibility for the Award of M.Sc./M.A. Degree:Duration of the program:

The course of study for M.Sc./M.A. Mathematics Program through Distance Learning shall be extended over aperiod of two academic years. However, a learner may complete the program in not more than four years including the study period. Those who joins the program with BA Mathematics will be awarded M.A. (Mathematics) and with B.Sc. Mathematics awarded as M.Sc. (Mathematics).

A learner shall be eligible for the award of M.Sc./M.A, if he/she fulfils the following conditions.

- Registered and successfully completed all the courses.
- Successfully acquired the minimum required marks as specified in the curriculum.
- The learners should not have any dues to the University, and
- No disciplinary action is pending against the learner.

5. GENERAL INSTRUCTIONS:

The academic regulations should be read as a whole for purpose of any interpretation.

- In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice Chancellor is final.
- The University may change or amend the academic regulations, scheme of instructions and syllabus at any time and the changes and amendments made shall be applicable to all the learners with effect from a date notified by the University.

6. **FEE STRUCTURE:** Rs. 5,200/- (tuition fee) per year

7. COURSE STRUCTURE :

PREVIOUS

| S. No. | Paper | Name of the Paper |
|--------|------------|---|
| 01 | Paper - I | Algebra |
| 02 | Paper -II | Linear Algebra, Differential Equations and Models |
| 03 | Paper-III | Real Analysis |
| 04 | Paper - IV | Topology |
| 05 | Paper - V | Discrete Mathematics |

FINAL

| S. No. | Paper | Name of the Paper |
|--------------------------|-------------|--|
| 01 | Paper - I | Complex Analysis |
| 02 | Paper - II | Measure Theory & Functional Analysis |
| OPTIONAL SUBJECTS | | |
| 03 | Paper - I | Number Theory |
| 04 | Paper - II | Lattice Theory |
| 05 | Paper - III | Linear Programming & Game Theory |
| 06 | Paper - IV | Universal Algebra |
| 07 | Paper - V | Integral Equations |
| 08 | Paper -VI | Commutative Algebra |
| 09 | Paper - VII | Numerical Analysis & Computer Techniques |