



AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SAMAJ'S

SHRI MULIKADEVI MAHAVIDYALAYA, NIGHOJ

TAL.PARNER, DIST.AHMEDNAGAR.

Department of Computer Science

Programs offered: B.Sc. Computer Science(Credit Pattern)

Sr. No.	Program	Program Objective
01	<u>B.Sc. Computer Science</u>	<ul style="list-style-type: none">• To develop problem solving abilities using a computer.• To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems.• To train students in professional skills related to Software Industry.• To prepare necessary knowledge base for research and development in Computer Science.• To help students build-up a successful career in Computer Science and to produce entrepreneurs who can innovate and develop software products.

Courses offered

Sr. No.	Course	Course Outcomes
01	F.Y.B.Sc. Computer Science Paper-I Semester-I	<ol style="list-style-type: none">1. Explore algorithmic approaches to problem solving.2. Develop modular programs using control structures and arrays in 'C'.

02	F.Y.B.Sc. Computer Science Paper-II Semester-I	<ol style="list-style-type: none"> 1. Solve real world problems using appropriate set, function, and relational models. 2. Design E-R Model for given requirements and convert the same into database tables. 3. Use SQL..
03	F.Y.B.Sc. Computer Science Paper-III Semester-I	<ol style="list-style-type: none"> 1. Devise pseudocodes and flowchart for computational problems. 2. Write, debug and execute simple programs in 'C'. 3. Create database tables in postgresQL. 4. Write and execute simple, nested queries.
04	F.Y.B.Sc. Computer Science Paper-I Semester-II	<ol style="list-style-type: none"> 1. To study advanced concepts of programming using the 'C' language. 2. To understand code organization with complex data types and structures. 3. To work with files.
05	F.Y.B.Sc. Computer Science Paper-II Semester-II	<ol style="list-style-type: none"> 1. Design E-R Model for given requirements and convert the same into database tables. 2. Use database techniques such as SQL & PL/SQL. 3. Explain transaction Management in relational database System. 4. Use advanced database Programming concepts
06	F.Y.B.Sc. Computer Science Paper-III Semester-II	<ol style="list-style-type: none"> 1. Write, debug and execute programs using advanced features in 'C'. 2. To use SQL & PL/SQL. 3. To perform advanced database operations.
07	F.Y.B.Sc. Computer Science Mathematics Paper I Paper II Paper III Semester-I Semester-II	<ol style="list-style-type: none"> 1. A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology and recognize basic geometrical figures and graphical displays, state important facts resulting from their studies. 2. A student should get a relational understanding of mathematical concepts and concerned structures,

		<p>and should be able to follow the patterns involved, mathematical reasoning.</p> <ol style="list-style-type: none"> A student should get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences. A student be able to apply their skills and knowledge, that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion. A student should be made aware of history of mathematics and hence of its past, present and future role as part of our culture
	<p>F.Y.B.Sc. Computer Science Statistics Paper I Paper II Paper III Semester-I Semester-II</p>	<ol style="list-style-type: none"> To familiarize students with elementary techniques of data analysis - graphical and numerical. To introduce students to measures of central tendency and dispersion, and hence enable them to infer about the nature and characteristics of a particular dataset. To acquaint students with the concept and significance of Index Numbers. To introduce to the students the basic concepts of probability, axiomatic theory of probability, concept of random variable, univariate probability distribution, expectation and moments of probability distribution. To compute the correlation coefficient for bivariate data and interpret it. To fit linear and non-linear curves to the bivariate data to investigate relation between two variables. To understand the concepts of demography. To introduce students to some standard discrete univariate distributions, their properties and applications in real life. To acquaint students with bivariate probability distributions with related concepts. To summarize, analyze and interpret data through various techniques learnt by manual calculations as well as by using MS-Excel.
	<p>F.Y.B.Sc. Computer Science Electronics Paper I Paper II Paper III Semester-I</p>	<ol style="list-style-type: none"> To study various types of semiconductor devices, elementary electronic circuits and systems. To bridge the gap between Theoretical and practical knowledge. To get familiar with concepts of digital electronics. To study arithmetic circuits, combinational

	Semester-II	<p>circuits and sequential circuits.</p> <ol style="list-style-type: none"> 5. To use basic concepts for building various applications in electronics. 6. To understand design procedures of different electronic circuits as per requirement. 7. To build experimental setup and test the circuits. 8. To develop skills of analyzing test results of given experiments.
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