



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

Swami Ramanand Teerth Marathwada University, Sub- Centre, Latur

Admissions are open to the following Post Graduate Courses in the University
Sub-Centre, Latur for the Academic year 2010-2011:

	Seats
1) School of Social Science	
I. M.A. Economics:	(30)
2) School of Technology	
I. M.Sc. Computer Science (Geoinformatics/ ICT):	(30)
II. M.Sc. Information & Communication Technology (ICT)	(40)
(B.Sc + M.Sc. Five Year Integrated Course after 12 th Science)	
III. M.Sc. Bioinformatics :	(30)
3) School of Management	
I. M.B.A. (Through DTE-CET)	(60)

❖ Upcoming Courses

- 1) **School of Social Science**
 - I. M.S.W.
 - II. M.Sc. Econometrics
- 2) **School of Management**
 - I. M.B.A. Rural Management

How To Apply:

The prospectus & application form can be obtained from Sub-Centre, Latur against cash payment of Rs.100/- (Rupees One Hundred Only)

SCHOOL OF TECHNOLOGY

A) M.Sc. Computer Science:

Introduction:

IT – ICT and Geoinformatics are the next engine of economic growth. The Government of India has geared its strategic focus towards promoting and sustaining the development of the IT enabled sector in India. Since, the Government announced its vision of facilitating rural developments using Geoinformatics and IT/ICT, establishing regional Information and Communication

Technology (ICT) hub, the country has come a long way in assembling all the prerequisites to develop its ICT sector.

To be able to have skilled human resources for efficient processing of data/information systems, there is an immense need to provide high caliber technical training.

This M.Sc (Geoinformatics) Programme is geared towards providing an opportunity to those with an ambition to excel in the Navigation, Satellite Image Processing, Pattern recognition, Web commerce and GIS Sector globally.

Eligibility: Standard to be followed same as that the University Department or as in University affiliated PG Colleges – B.Sc.CS / B.Sc. (IT) / BCA

Intake Capacity : 30 Seats

(Reservation will be as University and Govt. of Maharashtra rules.)

Faculty :

Dr. Virendra Gomase

Mr. Agnihotri P.P.

Mr. Tamsekar P.B.

Mr. Gulwe A.B.

SKELETON of M.Sc. Computer Science

First Year		
Year / Semester	Theory / Lab Papers	Justification
First Semester	1) Introduction to IT (Basic, PLC, OS)	Pure computer science subjects as foundations to Semester III and IV. This covers all those topics, not included in UG syllabus
	2) Network Essentials	
	3) Software Engineering	
	4) Computational Mathematics (Covering TSP, Shortest path, optimization concepts)	
	Lab – I SE case studies	
	Lab – II Network + Maths	
Second Semester	1) Advances in DBMS	Hands on Advanced Computing Platforms
	2) Data Structure & Algorithms	
	3) Internet and Web Development Technologies – I (Development using Internet Platforms, Java, Server Pages)	
	4) AI (Advanced trends – Intelligent Agent)	
	Lab – III –DBMS, DS, AI case studies	
	Lab – IV – Java Programming	
Second Year		
Third Semester	1) Distributed Computing and Web / e-commerce	Introductory Specialization
	2) Internet and Web Development Technologies –II (Development using Internet Platforms, Java bins, EJB, Servlets)	
	3) GIS - I	
	4) RS - I	
	Lab – V Java Lab	
	Lab – VI Tools for GIS and RS	

Fourth Semester	1) Soft Computing	Understanding core of GIS and RS and potential benefit of their applications
	2) Elective	
	a) ICT for Rural – Socio economic developments	
	b) Wireless and Mobile Computing	
	c) Data warehousing and Data Mining	
	3)GIS-II	
	4)RS-II	
	Lab – VII –case studies – soft computing	
Lab – VIII – Seminar and Dissertation (use of GIS and RS case studies)		
<p>Note : GIS and RS covered above in Semester III and IV will not include pure Image processing and pattern matching concepts. Emphasis will be given on Application point of view, satellite image processing, Navigation systems, Map analysis, path finding, Web based GIS, agro businesses like crop yield analysis.</p>		

B) M.Sc. Information & Communication Technology

After 12th Science

Five Years Integrated Dual Degree B.Sc & M. Sc. Program

Objectives of the course:

1. To meet the needs of the IT Industry and Scientific Research Organizations in Computer Science.
2. To develop technical skills.
3. To handle the relevant IT solutions and software.
4. To develop communication skills.
5. Gain a deeper understanding of Software Engineering principles.
6. Overall Personality Development Programme.

Eligibility:

Any XIIth Science (50% to MHT-CET + 50% Average Marks)

1) Merit list will be prepared on the basis of 50% MHT-CET and 50%Average marks H.S.C. examination.

2) If the candidate has not appeared for MHT-CET he/she may apply.

In this case MHT-CET marks will be considered to be zero for Preparing the merit list.

Intake Capacity: Only 40 Seats

Reservation will be as University and Govt. of Maharashtra rules.

Structure of the Course:

If a candidate is unable to continue this course after the sixth semester, He / she will be awarded B. Sc. (Computer Science) provided he/she has passed in all subjects upto VI semester.

**Course Curriculum of Five Years Integrated Dual Degree
[B. Sc and M. Sc.]**

First Semester:

Sr.No.	Course Code	Title of the Paper	No. of Credit
1	ICT1-1 T	Communication Skills- I	4
2	ICT1-2 T	Discrete Mathematics	4
3	ICT1-3 T	Fundamentals of Computer	4
4	ICT1-4 T	Programming in C	4
5	ICT1-5 P	Desc. Math Lab	4
6	ICT1-6 P	C Programming Lab	4

Second Semester:

Sr.No.	Course Code	Title of the Paper	No. of Credit
1	ICT1-1 T	Communication Skills- II	4
2	ICT1-2 T	Statistical Methods	4
3	ICT1-3 T	Digital Electronics	4
4	ICT1-4 T	8085 Microprocessor	4
5	ICT1-5 P	Statistical Method Lab	4
6	ICT1-6 P	8085 Micro. Lab	4

Third Semester

Sr.no.	Course Code	Title of Course	No. of Credits
1	ICT3-1 T	Web Technology	4
2	ICT3-2 T	Advance C Programming	4
3	ICT3 -3 T	Operating System	4
4	ICT3 -4 T	Object Oriented Programming using C++	4
5	ICT3 -5 P	Operating System Lab	4

Fourth Semester

Srno	Course Code	Title of Course	No. of Credits
1	ICT4-1 T	Computer System Security	4
2	ICT4-2 T	E-Commerce	4
3	ICT4 -3 T	Advanced Database Management System Concepts	4
4	ICT4 -4 T	Data Structure using C ++	4
5	ICT4 -5 P	Advanced Database Management	4

		System Lab	
6	ICT4 -6 P	Data Structure using C ++ Lab	4

Fifth Semester

Srno	Course Code	Title of Course	No. of Credits
1	ICT5-1 T	Network Essentials	4
2	ICT5-2 T	Software Engineering	4
3	ICT5 -3 T	VB.NET programming	4
4	ICT5 -4 T	RDBMS Through Oracle 8i	4
5	ICT5 -5 P	Network & Software Eng. Lab	4
6	ICT5 -6 P	VB .NET & Oracle Lab	4

Sixth Semester

Srno	Course Code	Title of Course	No. of Credits
1	ICT6-1 R1	Major Project : Review 1	3
	ICT6-2 R2	Review 2	3
	ICT6-3 R3	Review 3	4
	ICT6-4 R4	Project (Final)	8
2	ICT6-5 R5	One Seminar : Review 1	1
	ICT6-6 R6	Review 2	2
	ICT6-7 R7	Seminar (Final)	3

Seventh Semester

Srno	Course Code	Title of Course	No. of Credits
1	ICT7-1 T	TCP/IP	4
2	ICT7-2 T	Programming in Java	4
3	ICT7 -3 T	Project Management	4
4	ICT7 -4 T	Artificial Intelligence	4
5	ICT7 -5 P	Artificial Intelligence Lab	4
6	ICT7 -6 P	Programming in Java Lab	4

Eighth Semester

Srno	Course Code	Title of Course	No. of Credits
1	ICT8-1 T	ICT for Rural – Socio Economic Developments	4
2	ICT8-2 T	Neural Network	4
3	ICT8 -3 T	Data Warehouses and Data Mining	4
4	ICT8 -4 T	Compiler design	4
5	ICT8 -5 P	Neural Network Lab	4
6	ICT8 -6 P	Data warehouse and data mining Lab	4

Nineth Semester

Srno	Course Code	Title of Course	No. of Credits
1	ICT9-1 T	Linux Operating System	4
2	ICT9-2 T	Network Security	4
3	ICT9 -3 T	Mobile Computing	4
4	ICT9 -4 T	Elective I 9-3 A T Digital Image Processing 9-3 B T Soft Computing 9-3 B T Multimedia Technology	4
5	ICT9 -5 P	Linux Operating System Lab	4
6	ICT9 -6 P	Elective I Lab	4

Tenth Semester

Srno	Course Code	Title of Course	No. of Credits
1	ICT10-1 R1	Major Project : Review 1	3
	ICT10-2 R2	Review 2	3
	ICT10-3 R3	Review 3	4
	ICT10-4 R4	Project (Final)	8
2	ICT10-5 R5	One Seminar : Review 1	1
	ICT10-6 R6	Review 2	2
	ICT10-7 R7	Seminar (Final)	3

Internship:

As part of the curriculum, the students are required to undertake two projects each of duration six months, which provide them hands on training, thereby exposing them to the requirements and the pre-requisites of the Industry. The Sixth Semester and Tenth semester are devoted entirely to project work, which is usually taken up by the students at software industries and research institutions, thereby enabling them to have industrial and R & D exposure. This not only gives the students an opportunity to work in a challenging environment with state-of-the-art technology, but also, supplements their work culture through which they gain of managerial and technical skills.

C) M.Sc.- Bioinformatics

Introduction:

M.Sc. Bioinformatics (CGPA) degree builds the student for higher studies in Bioinformatics and to be competent with the current race with the development of new computational technologies. The duration of the study is four semesters, which is normally completed in two years. The primary goal of bioinformatics is to increase our understanding of biological processes. What sets it apart from

other approaches, also, it is focus on developing and applying computationally intensive techniques (e.g., computer aided drug design, systems biology, pattern recognition, data mining, machine learning algorithms, and visualization) to achieve this goal. Major research efforts in the field include sequence alignment, gene finding, genome assembly, drug design, drug discovery, protein structure alignment, protein structure prediction, prediction of gene expression and protein-protein interactions, genome-wide association studies and the modeling of evolution.

Features of the course:

- Academically sound and competent faculty
- Well designed and comprehensive coursework of international standards
- Periodic evaluation of the curriculum to keep up with the growth in the subject.
- Well equipped laboratories, libraries and classrooms.
- Obligatory project work.
- No of seats – 30 (Thirty)
- Duration of the course- 2 years (4 semesters CGPA system)

Eligibility:

Bachelors degree in Science (Physical, Mathematical, Computational, Life Sciences) Agriculture, Engineering, Medicine, Pharmacy, Technology and veterinary sciences

Syllabus from the Academic Year 2010-2011

Semester I

Code No	Name Of Paper	Internal Exam / Department Level Credit	Internal Exam Credits	Total Credits
BIM-101 (T)	Genetics and Molecular Biology	2	2	4
BIM-102 (T)	Bioinformatics	2	2	4
BIM-103 (T)	Biostatistics	2	2	4
BIM-104 (T)	Data Base Managements Systems Oracle	2	2	4
BIM-105 (T)	Linux	2	2	4
BIM-102 (P)	Bioinformatics	1	1	2
BIM-103 (P)	Biostatistics	1	1	2
BIM-104 (P)	Data Base Managements Systems Oracle	1	1	2

BIM-105 (P)	Linux	1	1	2
Total Credits		14	14	28

Total Credits in I Semester = 28

Semester II

Code No	Name Of Paper	Internal Exam / Department Level Credit	Internal Exam Credits	Total Credits
BIM-201 (T)	Advanced Molecular Biology	2	2	4
BIM-202 (T)	Computational Biology	2	2	4
BIM-203 (T)	Immunoinformatics	2	2	4
BIM-204 (T)	Chemoinformatics	2	2	4
BIM-205 (T)	Machine Intelligence in Bioinformatics	2	2	4

BIM-203 (P)	Immunoinformatics	1	1	2
BIM-204 (P)	Chemoinformatics	1	1	2
BIM-205 (P)	Machine Intelligence in Bioinformatics	1	1	2
BIM-206 (P)	Numerical Methods and Optimization Techniques	1	1	2
Total Credits		14	14	28

Total Credits in II Semester = 28

Semester III

Code No	Name Of Paper	Internal Exam / Department Level Credit	Internal Exam Credits	Total Credits
BIM-301 (T)	Computer Aided Drug Design	2	2	4
BIM-302 (T)	Object Oriented Programming (OOPS) JAVA	2	2	4
BIM-303 (T)	Microbial Genomics	2	2	4
BIM-304 (T)	Principle of Drug Action	2	2	4
BIM-305 (T)	Molecular Modeling	2	2	4

BIM-301 (P)	Computer Aided Drug design	1	1	2
BIM-302 (P)	Object oriented Programming (OOPS) JAVA	1	1	2
BIM-303 (P)	Microbial Genomics	1	1	2
BIM-304 (P)	Perl for Bioinformatics	1	1	2
Total Credits		14	14	28

Total Credits in III Semester = 28

Semester IV

Code No	Name Of Paper	Internal Exam / Department Level Credit	Internal Exam Credits	Total Credits
BIM-401 (T)	Plant Genomics	2	2	4
BIM-402 (T)	Metabolomics and Metabolic Engineering	2	2	4
BIM-403 (T)	Oncogenomics and Cell Signaling	2	2	4
BIM-404 (T)	IPR and Industrial Psychology	2	2	4
BIM-405 (PJ)	Project	4	4	8
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BIM-401 (P)	Plant Genomics	1	1	2
BIM-402 (P)	Metabolomics and Metabolic Engineering	1	1	2
Total Credits		14	14	28

Total Credits in IV Semester = 28

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SCHOOL OF SOCIAL SCIENCES

M.A. Economics

(With Specialization in Econometrics/International Economics)

Introduction:-

Economics is in great demand worldwide now a day. Swami Ramanand Teerth Marathwada University, Nanded at its sub-centre Latur is offering M.A. in Economics (With Specialization in Econometrics/International Economics). This course covers recent developments in economics. The objective of this course is to develop an understanding of the basic and intermediate principles of economics. By the end of this course the students are expected to be familiar with theoretical and practical aspects of economics and to acquire analytical skills to solve problems of the subject and return the society. The focus of the course will be on substantive issues and applications of basic principles. The course will be a mixture of theory and empirics.

Features of the course:

- Academically sound and competent faculty

- Well designed and comprehensive coursework.
- Periodic evaluation of the curriculum to keep up with the growth in the subject.
- Well equipped libraries, computer laboratories and classrooms.
- Obligatory project work.
- No of seats - 30 (thirty)
- Duration of the course- 2 years (4 semesters CGPA system)

Eligibility:

Any graduate with Economics as one of the optional subject.

Faculty :

Mr. P.P. Lonarkar Assistant Professor Economics
M.A. (SET, NET with JRF, M.Phil.)

Structure of M.A. Economics

Semester-I		Semester-II	
Compulsory		Compulsory	
1	Micro Economic Analysis-I	1	Micro Economic Analysis-II
2	Macro Economic Analysis-I	2	Macro Economic Analysis-II
3	Statistical Methods	3	Banking and Financial Institutions
Optional (Choose any one)		Optional (Choose any one)	
1	Computers Application in Economic Analysis	1	Mathematical Methods
2	Agricultural Economics	2	Industrial Economics
3	Environmental Economics	3	Rural Development

Semester-III		Semester-IV	
Compulsory		Compulsory	
1	Public Economics-I	1	Public Economics-II
2	Growth and Development Economics-I	2	Growth and Development Economics-II
3	Research methodology	3	Dissertation
Optional (Choose any one)		Optional (Choose any one)	
1	Econometrics-I	1	Econometrics-II
2	International Economics-I	2	International Economics-II

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For further details contact:

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