

DEPARTMENT OF BIOTECHNOLOGY

VISION OF THE DEPARTMENT

To be a centre of excellence in basic and applied research and training young minds in the fields of Biotechnology.

MISSION OF THE DEPARTMENT

- To provide a platform for education of global standards in Biotechnology using advanced methods and techniques.
- To carry out discovery-oriented research of international standards towards biotech product development.
- To establish academic and research collaborations with the industries and healthcare institutions at both national and international levels.
- To produce bioentrepreneurs and human resources for biotechnology industries.

PROGRAM OBJECTIVES


The aim of M.Sc. Biotechnology (2-Year Programme) is to provide a broad overview of biotechnology, and thus produce graduates with sufficient knowledge and expertise to apply them in basic biosciences research and teaching.

The program has following specific objectives:

1. To provide an intensive and in-depth knowledge to the students in diverse areas of basic biotechnology,
2. To impart knowledge and skills necessary to generate recombinant DNA and genetically engineered organisms,
3. To provide bioinformatics skills for biological sequence data mining,
4. To train the students to take up wide variety of roles like researchers, scientists, and academicians, and
5. To provide the students hands on training for the technical review and literature search for designing research problems.

PROGRAM OUTCOMES (POs)

PO-1	Knowledge Gaining: Demonstrate comprehensive knowledge and interdisciplinary skills in the fields of biotechnology.
PO-2	Computational Biotechnology: Apply computational modelling of proteins, drug design and simulations to test the models and solve scientific problem.
PO-3	Experimental Abilities: Hypothesis testing, experimental designing, interpretation of the data to solve various problems in different areas of biotechnology.
PO-4	Scientific Communication: Demonstrate communication skills, scientific writing and data recording abilities in all the fields of biotechnology.


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	procedures and their applications in the elective areas of biotechnology including animal, plant, food, environmental, aquaculture, pharmaceutical and medical biotechnology and bioprocess technology.
PSO-4	Students will be able to acquire knowledge in the research-oriented specialized areas including (a) emerging infectious diseases, (b) herbal and tissue culture technology, (c) molecular diagnostics, (d) probiotics, prebiotics and feed technology, (e) molecular phylogeny and nutraceuticals of marine sources, (f) translational research in animal sciences, and (g) molecular drug discovery and development.
PSO-5	Students will be equipped to understand three fundamental aspects in biological phenomenon: a) what to seek; b) how to seek; c) why to seek? Students will acquire life skills, innovative thinking, planning and setting-up of small-scale biotechnology-related industries by exploring, developing and gaining hands on experience in skill-oriented activities such as (a) research methodologies and scientific communication skills in biotechnology, (b) submission of educational tour report, (c) delivering seminar in advances of biotechnology, (d) analyzing the landmark discoveries critically in journal club, and (e) preparation of project poster and dissertation. This experience would enable them to begin a career in industry as well as in research laboratories conducting fundamental research.




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M.Sc. BIOTECHNOLOGY – COURSE DETAILS

FIRST SEMESTER				
S.No.	Course Code	Course Title	Course Focus on (Employability/ Entrepreneurship/Skill Development/ Project/Field Work/Internship)	Old/New
1.	BT T-101	Microbiology & Cell Biology	Skill Development	Old
2.	BT T-102	Chemistry of Biomolecules	Skill Development	Old
3.	BT T-103	Modern Genetics	Skill Development	Old
4.	BT T-104	Biophysical & Biochemical Techniques	Skill Development	Old
5.	BT T-105	Intellectual Property Rights, Biosafety & Bioethics of Biotechnology	Skill Development	New
6.	BT P-101	Microbiology & Cell Biology	Skill Development	Old
7.	BT P-102	Chemistry of Biomolecules	Skill Development	Old
8.	BT P-103	Modern Genetics	Skill Development	Old
9.	BT P-104	Biophysical & Biochemical Techniques	Skill Development	Old


SECOND SEMESTER				
S.No.	Course Code	Course Title	Course Focus on (Employability/ Entrepreneurship/Skill Development/ Project/ Field Work/Internship)	Old/New
10.	BT T-201	Enzymology & Intermediary Metabolism	Employability	Old
11.	BT T-202	Immunology & Immunotechnology	Employability	Old
12.	BT T-203	Molecular Biology	Employability	Old
13.	BT T-204	Bioinformatics & Biostatistics	Skill Development	Old
14.	BT T-205	Entrepreneurship in Biotechnology	Entrepreneurship	New
15.	BT P-201	Enzymology & Intermediary Metabolism	Skill Development	Old
16.	BT P-202	Immunology & Immunotechnology	Skill Development	Old
17.	BT P-203	Molecular Biology	Skill Development	Old
18.	BT P-204	Bioinformatics & Biostatistics	Skill Development	Old


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THIRD SEMESTER				
S.No.	Course Code	Course Title	Course Focus On (Employability/ Entrepreneurship/ Skill Development/ Project/Field Work/Internship)	Old/New
19.	BT T-301	Genetic Engineering	Skill Development	Old
20.	BT T-302	'OMICS' Biotechnology	Skill Development	New
21.	BT T-303A	Animal Biotechnology	Employability	Old
22.	BT T-303B	Plant Biotechnology	Employability	Old
23.	BT T-304A	Bioprocess Engineering & Technology	Employability	Old
24.	BT T-304B	Food Biotechnology	Employability	New
25.	BT T-305	Emerging Technologies in Biotechnology	Skill Development	New
26.	BT P-301	Genetic Engineering	Skill Development	Old
27.	BT P-302	'OMICS' Biotechnology	Skill Development	New
28.	BT P-303A	Animal Biotechnology	Skill Development	Old
29.	BT P-303B	Plant Biotechnology	Skill Development	Old
30.	BT P-304A	Bioprocess Engineering & Technology	Skill Development	Old
31.	BT P-304B	Food Biotechnology	Skill Development	New
FOURTH SEMESTER				
S.No.	Course Code	Course Title	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ Project/Field Work/Internship)	Old/New
32.	BT T-401A	Environmental Biotechnology	Employability	Old
33.	BT T-401B	Aquaculture Biotechnology	Employability	New
34.	BT T-402A	Pharmaceutical Biotechnology	Employability	Old
35.	BT T-402B	Medical Biotechnology	Employability	New
36.	BT T-403	Research Methodology & Scientific Communication Skills in Biotechnology	Skill Development	New
37.	BT T-404A	Emerging Infectious Diseases	Skill Development	New
38.	BT T-404B	Herbal & Tissue Culture Technology	Skill Development	New


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39.	BT T-404C	Molecular Diagnostics	Skill Development	New
40.	BT T-404D	Probiotics, Prebiotics & Feed Technology	Skill Development	New
41.	BT T-404E	Molecular Phylogeny & Nutraceuticals of Marine Sources	Skill Development	New
42.	BT T-404F	Translational Research in Animal Sciences	Skill Development	New
43.	BT T-404G	Molecular Drug Discovery & Development	Skill Development	New
44.	BT P-401A	Environmental Biotechnology	Skill Development	Old
45.	BT P-401B	Aquaculture Biotechnology	Skill Development	New
46.	BT P-402A	Pharmaceutical Biotechnology	Skill Development	Old
47.	BT P-402B	Medical Biotechnology	Skill Development	New
48.	BT SEA-1	Educational Tour	Field Work	New
49.	BT SEA-2	Grand Seminar in Advances of Biotechnology	Skill Development	Old
50.	BT SEA-3	Critical Analysis of Landmark Discoveries	Skill Development	New
51.	BT SEA-4	Poster Presentation	Skill Development	New
52.	BT SEA-5	Dissertation	Project	Old


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DEPARTMENT OF FOOD TECHNOLOGY

Syllabus for M.Sc. Food Technology (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – 21

Program Outcomes of M.Sc Food Technology after completion of the program of M.Sc. in Food Technology, every student will know the following attributes

Program Outcomes	
PO1	Knowledge: Course imparts knowledge and understanding of Biology, Biochemistry, Food Chemistry, Food Microbiology, and Food Science, Food processing, Food safety, Food Engineering, Food quality, Food product storage, Food product preservation, Food product packaging and Food product distribution.
PO2:	Student emphasize different bioanalytical techniques applied in various food analysis concepts.
PO3:	Design and Discover: Student able to design and discover new technological formulated foods for satisfying the demand of consumer market.
PO4:	Research: Use research based knowledge and research methods in food processing world including design of experiment, analysis and interpretation of the data
PO5:	Usage of Noval Techniques: Create, select and appropriate noval techniques for analyzing, identify and solving the critical problems in food industry.
PO6:	Student will able to understand the ancient food or traditional food habitats' to carry forward the traditional food processing methods to the younger generations for the sustainable environment stability.
PO7:	Function efficiently as an individual, and as a member or a leader in diverse teams and in multidisciplinary settings in self help groups, women entrepreneur and MSME.
PO8:	Able to control food safety and food adultration apart from that he may help for the society good food for good health
Programme Specific Outcomes	
PSO1	Knowledge: Able to learn basic Impart knowledge in various aspects of Food Technology through Theory and Practical knowledge.
PSO2:	Student expertise in improving the food product shelf lives different hurdle technologies
PSO3	Entrepreneurship: The students are able to establish entrepreneurship to create employability for himself. physically visiting different food industries


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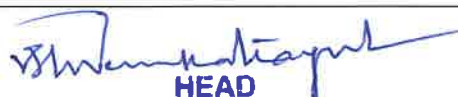


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Programme Structure with Course titles:

S. No.	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/Internship)	No. of credits	Internal Marks	External Marks	Total
SEMESTER-1							
1	20RMSCFTT101	Food Chemistry	Skill development	4	30	70	100
2	20RMSCFTT102	Fundamentals of Food Science	Skill development	4	30	70	100
3	20RMSCFTT103	Food Microbiology	Skill development	4	30	70	100
4	20RMSCFTT104	Human Nutrition	Skill development	4	30	70	100
5	20RMSCFTP101	Food Chemistry (Practical)	Skill development	2	-	50	50
6	20RMSCFTP102	Fundamentals of Food Science (Practical)	Skill development	2	-	50	50
7	20RMSCFTP103	Food Microbiology (practical)	Skill development	2	-	50	50
8	20RMSCFTP104	Human Nutrition (Practical)	Skill development	2	-	50	50
SEMESTER-2							
1	20RMSCFTT201	Techniques in Food Analysis	Entrepreneurship	4	30	70	100
2	20RMSCFTT202	Food Biotechnology	Entrepreneurship	4	30	70	100
3	20RMSCFTT203	Food Processing and Preservation Technology	Entrepreneurship	4	30	70	100
4	20RMSCFTT204	Food Engineering	Entrepreneurship	4	30	70	100
6	20RMSCFTP201	Personality Enhancement and Leadership*	Skill development	2	-	50	50
7	20RMSCFTP202	Food Biotechnology	Skill	2	-	50	50


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		(Practical)	development				
8	20RMSCFTP203	Food Processing and Preservation Technology (Practical)	Skill development	2	-	50	50
9	20RMSCFTP204	Food Engineering (Practical)	Skill development	2	-	50	50
1	20RMSCFTT301	Dairy Technology	Entrepreneurship				
2	20RMSCFTT302	Bakery and Confectionary Technology	Entrepreneurship				
3	20RMSCFTT303	Cereal Grains, legumes and Oil Seed Technology	Entrepreneurship				
4	20RMSCFTT304	Meat, Poultry and Sea Food Technology	Entrepreneurship				
5	20RMSCFTP301	Dairy Technology (Practical)	Skill development				
6	20RMSCFTP302	Bakery and Confectionary Technology (Practical)	Skill development				
7	20RMSCFTP303	Cereal Grains, legumes and Oil Seed Technology (Practical)	Skill development				
8	20RMSCFTP304	Meat, Poultry and Sea Food Technology (Practical)	Skill development				
1	20RMSCFTT401	Food Product Development and Marketing	Entrepreneurship	4	30	70	100
2	20RMSCFTT402	Food Safety standards and Quality control	Content with direct bearing on Employability	4	30	70	100
3	20RMSCFTT403	Research Methodology, Biostatistics and Bioinformatics	Content with direct bearing on Employability	4	30	70	100
4	20RMSCFTT404	Food Packaging	Entrepreneurship	4	30	70	100


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		Technology					
5	20RMSCFTP401	Food Product Development, Marketing, Food Safety standards and Quality control (Practical)	Skill development	2	-	50	50
6	20RMSCFTP402	Research Methodology, Biostatistics, Bioinformatics and Food Packaging Technology (Practical)	Skill development	2	-	50	50
7	20RMSCFTP403	Project Work cum Implant Training (including the Study tour/Industrial Visits)	Skill development	6	40	60	100

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DEPARTMENT OF CHEMISTRY

Syllabus for M.Sc. Analytical Chemistry (2 Year Course) for V.S. University College, Nellore with effect from the Academic Year 2020-2021

The mission and vision of the organization help in preparation of strategic plan.

Mission:

- To develop the researcher and scientist in chemical science through post-graduate education and research programme.
- To develop the competent manpower with technology based experimentation methodologies and value based practices for business and industries.
- To provide student centric learning facilities for the development of overall personality of learner.

Vision: A global teaching – learning and research, nationally and internationally in the area of chemical sciences, by providing competitive trained chemists which will assist the chemical world and industries.

Program Educational Objectives (PEOs)

- The purpose of the postgraduate chemistry program at the University level is to provide the key knowledge base and laboratory resources to prepare students for careers as professionals in the field of chemistry.
- To develop various skills in planning, performing and handling modern techniques, equipment, laboratory experiments and various softwares.
- Students will learn foundation in the fundamentals and advanced topics in the major fields of organic, inorganic, physical and analytical chemistry to improve their confidence levels to excel in teaching and research fields.
- Students will be encouraged to improve their skills to design molecules using retro synthetic analysis based on their theoretical understanding of the chemical sciences.
- Students are motivated to pursue higher studies in the chosen field.

Program Specific Outcomes (PSOs)

After the successful completion of M.Sc. chemistry program, the students will be able to

PSO-1: Core competency: The chemistry graduates are expected to gain knowledge of the fundamental concepts of chemistry and applied chemistry through theory and practical. These fundamental concepts would be reflected in the latest understanding of the field to keep continues its progression.

PSO-2: Critical thinking: Chemistry graduates are expected to achieve critical thinking ability to design, carry out, record and analyze the results of chemical reactions. They can have that much potential and confidence that they can overcome many difficulties with the help of their sharp scientific knowledge and logical approaches.

PSO-3: Analytical skill development and job opportunity: Chemistry graduates are expected to possess sufficient knowledge how to synthesize a chemical compound and perform necessary characterization and analysis in support of the formation of the product by using modern analytical tools and advanced technologies. Because of this course curriculum chemistry graduates have lot of opportunity to get job not only in academic and administrative field but also in industry.


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF CHEMISTRY

Syllabus for M.Sc. Analytical Chemistry (2 Year Course) for V.S. University College, Nellore with effect from the Academic Year 2020-2021

Program Outcomes (POs)

PO-1: Knowledge and skill: A graduate student is expected to be capable of demonstrating comprehensive knowledge and understanding both theoretical and practical knowledge in all disciplines of Chemistry. Students can solve their subjective problems very methodically, independently and finally draw a logical conclusion. Further, the student will be capable of applying modern technologies, handling advanced instruments and Chemistry related soft-wares for chemical analysis, characterization of materials and in separation technology.

PO-2: Problem solver: Identify, formulate, design, carryout, record and analyse the results of chemical reactions. Students will be able to apply evidence based comparative chemistry approach to explain chemical synthesis and analysis.

PO-3: Design/Development of solutions: The students will develop and design solutions for the target molecules to meet the specific needs for public health and environmental considerations.

PO-4: Design/Development of solutions: The students will develop and design solutions for the target molecules to meet the specific needs for public health and environmental considerations.

PO-5: Modern Techniques : Create, Select, and apply appropriate experimental techniques, resources and modern methods and modelling to complex problems with an understanding of the limitations.


PO-6: Ethical awareness : A post graduate student requires understanding and developing ethical awareness or reasoning which is adequately provided through the course curriculum. Students can also create an awareness of the impact of chemistry on the environment, society, and also on scientific community.

PO-7: Individual and Team work : Function effectively as an individual by contributing in laboratory, as a member or leader in diverse teams, and in multi disciplinary settings.

PO-8 : Skilled Communicator : The course curriculum incorporates basics and advanced training in order to make a graduate student capable of expressing the subject through technical writing as well as through oral presentation.

PO-9 Entrepreneur and Development : Demonstrate knowledge and understanding of the chemistry and management principles and apply these to one's own work, and as a member and leader in a team, to manage projects as Entrepreneur in multi disciplinary environments.

PO-10 : Lifelong learning : The course curriculum is designed to inculcate the habit of learning continuously through use of advanced ICT techniques and other available e-Techniques, e-books and e-journals for personal academic growth.


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DEPARTMENT OF CHEMISTRY

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M.Sc. ANALYTICAL CHEMISTRY
COURSE PATTERN AND SCHEME OF EXAMINATION
(Academic Year 2020-21 onwards)

FIRST SEMESTER								
S. No	Course code	Course Title	Course Focus on (Employability/ Entrepreneurship/ Skill development/ Project/ Field work/ Internship)	Hours / week	Credits	Internal assessment marks	University assessment marks	Max. Marks
1	20RMSCAC101	Inorganic Chemistry- I	Skill development	4	4	30	70	100
2	20RMSCAC102	Organic Chemistry - I	Skill development	4	4	30	70	100
3	20RMSCAC103	Physical Chemistry -I	Skill development	4	4	30	70	100
4	20RMSCAC104	General Chemistry- I	Skill development	4	4	30	70	100
5	20RMSCAC105	Inorganic Chemistry Lab-I	Skill development	6	2	0	67	67
6	20RMSCAC106	Organic Chemistry Lab-I	Skill development	6	2	0	67	67
7	20RMSCAC107	Physical Chemistry Lab-I	Skill development	6	2	0	66	66


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SECOND SEMESTER								
S. No	Course code	Course Title	Course Focus on (Employability/ Entrepreneurship/ Skill development/ Project/ Field work/ Internship)	Hours / week	Credits	Internal assessment marks	University assessment marks	Max. Marks
1	20RMSCAC201	Inorganic Chemistry- II	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
2	20RMSCAC202	Organic Chemistry - II	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
3	20RMSCAC203	Physical Chemistry -II	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
4	20RMSCAC204	General Chemistry- II	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
5	20RMSCAC205	Inorganic Chemistry Lab-II	Employability/ Entrepreneurship/ Skill development	4	2	0	67	67
6	20RMSCAC206	Organic Chemistry Lab-II	Employability/ Entrepreneurship/ Skill development	4	2	0	67	67
7	20RMSCAC207	Physical Chemistry Lab-II	Employability/ Entrepreneurship/ Skill development	4	2	0	66	66

THIRD SEMESTER								
S. No	Course code	Course Title	Course Focus on (Employability/ Entrepreneurship/ Skill development/ Project/ Field work/ Internship)	Hours / week	Credits	Internal assessment marks	University assessment marks	Max. Marks
1	20RMSCAC301	Fundamentals of Analytical Chemistry	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
2	20RMSCAC302	Quality assurance and quality control	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
3	20RMSCAC303	Analytical Spectroscopy	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
4	20RMSCAC304	Instrumental Methods Of Analysis	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100

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DEPARTMENT OF CHEMISTRY

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5	20RMSCAC305	Practical –I Spectral Analysis of Metal ions and Complex Mixtures)	Employability/ Entrepreneurship/ Skill development	6	4	0	100	100
6	20RMSCAC306	Practical –II Estimations	Employability/ Entrepreneurship/ Skill development	6	4	0	100	100

FOURTH SEMESTER								
S. No	Course code	Course Title	Course Focus on (Employability/ Entrepreneurship/ Skill development/ Project/ Field work/ Internship)	Hours / week	Credits	Internal assessment marks	University assessment marks	Max. Marks
1	20RMSCAC401	Analysis Of Natural And Commercial Materials	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
2	20RMSCAC402	Bioinorganic, Bioorganic, Biophysical Chemistry And Nanomaterials	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
3	20RMSCAC403	Applications of Analytical Chemistry In Environmental Science	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
4	20RMSCAC404	Applied Analysis	Employability/ Entrepreneurship/ Skill development	4	4	30	70	100
5	20RMSCAC405	PRACTICAL –I Experimental Solution of an Industrially Related Problem	Employability/ Entrepreneurship/ Skill development	6	4	0	100	100
6	20RMSCAC406	PRACTICAL –II (Water Analysis, Separation and Polarographic techniques	Employability/ Entrepreneurship/ Skill development	6	4	0	100	100

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DEPARTMENT OF CHEMISTRY

Syllabus for M.Sc. Organic Chemistry (2 Year Course) for V.S. University College, Nellore and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

Vision

- To develop the researcher and scientist in chemical science through post-graduate education and research programme.
- To develop the competent manpower with technology based experimentation methodologies and value based practices for business and industries.
- To provide student centric learning facilities for the development of overall personality of learner.

Mission

- To develop the researcher and scientist in chemical science through post-graduate education and research programme.
- To develop the competent manpower with technology based experimentation methodologies and value based practices for business and industries.
- To provide student centric learning facilities for the development of overall personality of learner.

Programme Structure with Course titles:

S. No.	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/ Internship)	No. of credits	Internal Marks	External Marks	Lab-Internal Marks	Total
Semester – 1								
1	20RMSCOC101	Inorganic Chemistry- I	Skill development	4	4	30	70	100
2	20RMSCOC102	Organic Chemistry - I	Skill development	4	4	30	70	100
3	20RMSCOC103	Physical Chemistry -I	Skill development	4	4	30	70	100
4	20RMSCOC104	General Chemistry- I	Skill development	4	4	30	70	100
5	20RMSCOC105	Inorganic Chemistry Lab-I	Skill development	6	2	0	67	67
6	20RMSCOC106	Organic Chemistry Lab-I	Skill development	6	2	0	67	67

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the Academic Year 2020-2021

7	20RMSCOC107	Physical Chemistry Lab-I	Skill development	6	2	0	66	66
Semester – II								
1	20RMSCOC201	Inorganic Chemistry- II	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
2	20RMSCOC202	Organic Chemistry - II	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
3	20RMSCOC203	Physical Chemistry -II	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
4	20RMSCOC204	General Chemistry- II	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
5	20RMSCOC205	Inorganic Chemistry Lab-II	Employability/ Entrepreneursh ip/ Skill development	4	2	0	67	67
6	20RMSCOC206	Organic Chemistry Lab-II	Employability/ Entrepreneursh ip/ Skill development	4	2	0	67	67
7	20RMSCOC207	Physical Chemistry Lab-II	Employability/ Entrepreneursh ip/ Skill development	4	2	0	66	66
SEMESTER - III								
1	20RMSCOC301	Organic Synthesis - I	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
2	20RMSCOC302	Organic Synthesis – II	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
3	20RMSCOC303	Bioinorganic and Physical Chemistry	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
4	20RMSCOC304	Organic Spectroscopy and Its applications	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
5	20RMSCOC305	Practical –I (Multistep Synthesis)	Employability/ Entrepreneursh ip/ Skill	6	4	0	100	100


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KAKUTUR, NELLORE-524 320 (A.P.)



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF CHEMISTRY

Syllabus for M.Sc. Organic Chemistry (2 Year Course) for V.S. University College, Nellore and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

			development					
6	20RMSCOC306	Practical –II (Estimations)	Employability/ Entrepreneursh ip/ Skill development	6	4	0	100	100
SEMESTER - IV								
1	20RMSCOC401	Organic Synthesis - III	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
2	20RMSCOC402	Heterocyclic Compounds and Natural products	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
3	20RMSCOC403	Bio Medicinal Chemistry	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
4	20RMSCOC404	General Organic Chemistry	Employability/ Entrepreneursh ip/ Skill development	4	4	30	70	100
5	20RMSCOC405	Practical –I (Spectral Problems)	Employability/ Entrepreneursh ip/ Skill development	6	4	0	100	100
6	20RMSCOC406	Practical –II (Dissertation (Inorganic/Organic/ Physical)	Employability/ Entrepreneursh ip/ Skill development	6	4	0	100	100

T. Venkay
HEAD
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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE

DEPARTMENT OF MICROBIOLOGY

Syllabus for M.Sc. Microbiology (2 Year Course) at Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021.

DEPARTMENT OF MICROBIOLOGY

VISION OF THE DEPARTMENT

To be a Centre of Excellence in basic and applied research and training young minds in the field of Microbiology.

MISSION OF THE DEPARTMENT

- To provide a platform for education of global standards in Microbiology using advanced methods and techniques.
- To carry out discovery-oriented research of international standards towards microbial product development.
- To establish academic and research collaborations with the industries and healthcare institutions at both national and international levels.
- To produce entrepreneurs and human resources for microbiology industries and centres.

PROGRAM OBJECTIVES

The aim of M.Sc. Microbiology (2-Year Programme) is to provide a broad overview of microbiology, and thus produce graduates with sufficient knowledge and expertise to apply them in basic microbial science research and teaching.

The program has following specific objectives:

1. To provide an intensive and in-depth knowledge to the students in diverse areas of basic microbiology,
2. To impart knowledge and skills necessary to generate recombinant DNA and genetically engineered microorganisms,
3. To provide bioinformatics skills for microbial sequence data mining,
4. To train the students to take up wide variety of roles like researchers, scientists, and academicians, and
5. To provide the students hands on training for the technical review and literature search for designing research problems.

PROGRAM OUTCOMES (POs)

PO-1	Knowledge Gaining: Demonstrate comprehensive knowledge and skills in the fields of microbiology.
PO-2	Computational Microbiology: Apply computational modelling of proteins, drug


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	design and simulations to test the models and solve scientific problem.
PO-3	Experimental Abilities: Hypothesis testing, experimental designing, interpretation of the data to solve various problems in different areas of microbiology.
PO-4	Scientific Communication: Demonstrate communication skills, scientific writing and data recording abilities in all the fields of microbiology.
PO-5	Ethical Awareness: Demonstrate the ability to identify ethical issues related to recombinant DNA technology, genetic engineering, animals handling, intellectual property rights, biosafety and handling of sensitive experiments; awareness about the difference between data beautification and data manipulation/scientific misconduct.
PO-6	Collaboration & Teamwork: Demonstrate the ability to work on research projects and assignments in the teams of students coming from different academic disciplines, diverse cultures and ethnicities.
PO-7	Self-learning & Life-long Learning: Demonstrate conceptual learning through systematic thinking and self-study and life-long learning that helps to solve scientific problems with well-defined solutions.
PO-8	Leadership Qualities: Demonstrate the ability to take initiative, set direction, design strategy, and build social cohesion not only in research labs but also in social contexts. Can independently carry out a complete scientific work process, including the theoretical background, hypotheses generation, collecting and analyzing data as along with the interpretation of results and their presentation.
PO-9	Research Skills: Demonstrate the ability to sense the scientific and technological trends in different academic and industry settings, identify the pertinent questions to be addressed, build hypotheses, and design experimental strategies to solve the scientific problems. Demonstrate the ability to use state-of-the-art digital tools and software to collect up-to-date literature and to mine the data, procure, analyze and present the data.
PO-10	Emerging & Advanced Fields: Aware of recent scientific updates, emerging and advanced technologies for quality work and to fulfill the need of the hour throughout life. Understands the role of microbiology in society, health related issues, environmental concerns and cultural problems through scientific interventions.

PROGRAMME SPECIFIC OUTCOMES (PSOs)


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PSO-1	Students will be able to demonstrate, apply their knowledge and find innovative solutions to solve the problems in the areas of microbiology, biochemistry, analytical techniques, genetics, biosafety, bioethics, intellectual property rights and entrepreneurship. This experience would enable students to familiarize with basic laboratory instruments and understand the principles of various protocols.
PSO-2	Students will be able to demonstrate and apply the principles of advanced methodologies by adopting emerging technologies in molecular biology, microbial physiology, metabolism, immunology, genetic engineering, bioinformatics, biostatistics and OMICS.
PSO-3	Students will be able to gain fundamental knowledge, understand various facets of procedures and their applications in the elective areas of microbiology including agricultural, food, dairy, environmental, marine, pharmaceutical and medical microbiology and microbial technology.
PSO-4	Students will be able to acquire knowledge in the research-oriented specialized areas including (a) emerging infectious diseases, (b) herbal and tissue culture technology, (c) molecular diagnostics, (d) probiotics, prebiotics and feed technology, (e) molecular phylogeny and nutraceuticals of marine sources, (f) translational research in animal sciences, and (g) molecular drug discovery and development.
PSO-5	Students will be equipped to understand three fundamental aspects in microbiological phenomenon: a) what to seek; b) how to seek; c) why to seek? Students will acquire life skills, innovative thinking, planning and setting-up of small-scale microbiology laboratories and industries by exploring, developing and gaining hands on experience in skill-oriented activities such as (a) research methodologies and scientific communication skills in microbiology, (b) submission of educational tour report, (c) delivering seminar in advances of microbiology, (d) analyzing the landmark discoveries critically in journal club, and (e) preparation of project poster and dissertation. This experience would enable them to begin a career in industry as well as in research laboratories conducting fundamental research.

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M.Sc. MICROBIOLOGY – COURSE DETAILS

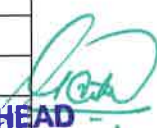
FIRST SEMESTER				
S.No.	Course Code	Course Title	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ Project/Field Work/Internship)	Old/ New
1.	MB T-101	General Microbiology	Skill Development	Old
2.	MB T-102	Microbial Genetics	Skill Development	Old
3.	MB T-103	Biological Chemistry	Skill Development	Old
4.	MB T-104	Analytical Techniques in Biology	Skill Development	Old
5.	MB T-105	Intellectual Property Rights, Biosafety & Bioethics	Skill Development	New
6.	MB P-101	General Microbiology	Skill Development	Old
7.	MB P-102	Microbial Genetics	Skill Development	Old
8.	MB P-103	Biological Chemistry	Skill Development	Old
9.	MB P-104	Analytical Techniques in Biology	Skill Development	Old

SECOND SEMESTER				
S.No.	Course Code	Course Title	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ Project/ Field Work/Internship)	Old/ New
10.	MB T-201	Microbial Physiology & Metabolism	Employability	Old
11.	MB T-202	Molecular Biology	Employability	Old
12.	MB T-203	Biostatistics & Bioinformatics	Skill Development	Old
13.	MB T-204	Immunology	Employability	Old
14.	MB T-205	Bioentrepreneurship	Entrepreneurship	New
15.	MB P-201	Microbial Physiology & Metabolism	Skill Development	Old
16.	MB P-202	Molecular Biology	Skill Development	Old
17.	MB P-203	Biostatistics & Bioinformatics	Skill Development	Old
18.	MB P-204	Immunology	Skill Development	Old


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THIRD SEMESTER				
S.No.	Course Code	Course Title	Course Focus On (Employability/ Entrepreneurship/ Skill Development/ Project/Field Work/Internship)	Old/ New
19.	MB T-301	Genetic Engineering	Skill Development	Old
20.	MB T-302	'OMICS' Microbiology	Skill Development	New
21.	MB T-303A	Industrial Microbiology & Bioprocessing	Employability	Old
22.	MB T-303B	Dairy Microbiology	Employability	New
23.	MB T-304A	Agricultural Microbiology	Employability	Old
24.	MB T-304B	Food Microbiology	Employability	New
25.	MB T-305	Emerging Technologies in Biology	Skill Development	New
26.	MB P-301	Genetic Engineering	Skill Development	Old
27.	MB P-302	'OMICS' Microbiology	Skill Development	New
28.	MB P-303A	Industrial Microbiology & Bioprocessing	Skill Development	Old
29.	MB P-303B	Dairy Microbiology	Skill Development	New
30.	MB P-304A	Agricultural Microbiology	Skill Development	Old
31.	MB P-304B	Food Microbiology	Skill Development	New

FOURTH SEMESTER				
S.No.	Course Code	Course Title	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ Project/Field Work/Internship)	Old/ New
32.	MB T-401A	Environmental Microbiology	Employability	Old
33.	MB T-401B	Marine Microbiology	Employability	New
34.	MB T-402A	Pharmaceutical Microbiology	Employability	Old
35.	MB T-402B	Medical Microbiology	Employability	Old
36.	MB T-403	Research Methodology & Scientific Communication Skills in Biology	Skill Development	New
37.	MB T-404A	Emerging Infectious Diseases	Skill Development	New
38.	MB T-404B	Herbal & Tissue Culture Technology	Skill Development	New


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39.	MB T-404C	Molecular Diagnostics	Skill Development	New
40.	MB T-404D	Probiotics, Prebiotics & Feed Technology	Skill Development	New
41.	MB T-404E	Molecular Phylogeny & Nutraceuticals of Marine Sources	Skill Development	New
42.	MB T-404F	Translational Research in Animal Sciences	Skill Development	New
43.	MB T-404G	Molecular Drug Discovery & Development	Skill Development	New
44.	MB P-401A	Environmental Microbiology	Skill Development	Old
45.	MB P-401B	Marine Microbiology	Skill Development	New
46.	MB P-402A	Pharmaceutical Microbiology	Skill Development	Old
47.	MB P-402B	Medical Microbiology	Skill Development	Old
48.	MB SEA-1	Educational Tour	Field Work	New
49.	MB SEA-2	Grand Seminar in Advances of Microbiology	Skill Development	Old
50.	MB SEA-3	Critical Analysis of Landmark Discoveries	Skill Development	New
51.	MB SEA-4	Poster Presentation	Skill Development	New
52.	MB SEA-5	Dissertation	Project	Old


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Department of Microbiology
College of Science & Technology
VIKRAMA SIMHAPURI UNIVERSITY
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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF BUSINESS MANAGEMENT

Syllabus for Master of Business Administration (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2019 – '20

MASTER OF BUSINESS ADMINISTRATION

The MBA program is a student centric program with an objective of developing a career in diverse sectors of the industry domestically and globally. The MBA program not only facilitates learning in theory and practice of different functional areas of management but also equips the students with an integrated approach to various functions of management.

The curriculum is designed in a way that faculty and students will shift their focus from traditional methodology which excessively focuses on industry towards a broad based learning, encompassing the end to end processes involved in developing entrepreneurial skills looking at needs and demands of broader sections of the society.

Programme Structure with Course titles:

S. No.	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurs hip/ Skill Development/ project/ Field work/Internship)	No. of credits	Internal Marks	External Marks	Lab-Internal Marks	Total
Semester – I								
1	20RMBA101	Management Theory & Organizational Behavior	Skill Development	4	30	70	-	100
2	20RMBA102	Managerial Economics	Skill Development	4	30	70	-	100
3	20RMBA103	Business Communication	Skill Development	4	30	50	20	100
4	20RMBA104	Accounting for Managers	Skill Development	4	30	50	20	100
5	20RMBA105	Business Research Methods	Skill Development	4	30	70	-	100
6	20RMBA106	Information Technology for Managers	Skill Development	4	30	50	20	100
Semester – II								
1	20RMBA201	Operations Research	Skill Development	4	30	70	-	100
2	20RMBA202	Management information system	Skill Development	4	30	70	-	100



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DEPARTMENT OF BUSINESS MANAGEMENT

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3	20RMBA203	Marketing Management	Employability	4	30	70	-	100
4	20RMBA204	Financial Management	Employability	4	30	70	-	100
5	20RMBA205	Human Resource Management	Employability	4	30	70	-	100
6	20RMBA206	Production & Operations Management	Employability	4	30	70	-	100
7	20RMBA208	Comprehensive Viva voce		4		100	-	100
SEMESTER - III								
1	20RMBA301	Business Environment	Entrepreneurship	4	30	70	-	100
2	20RMBA302	Business Law	Skill Development	4	30	70	-	100
3	20RMBA303	International Business Management	Entrepreneurship	4	30	70	-	100
4	20RMBA304	Project Report, Evaluation & Viva-voce	Internship	4	30	70		100
5	20RMBA305F	Risk Management and Insurance	Skill Development	4	30	70		100
6	20RMBA305M	Consumer Behaviour	Skill Development	4	30	70		100
7	20RMBA305H	Human Resource planning	Skill Development	4	30	70		100
8	20RMBA305S	Enterprise Resource Planning	Skill Development	4	30	70		100
9	20RMBA306F	Financial Markets and Services	Skill Development	4	30	70		100
10	20RMBA306M	Advertising and sales Promotion Management	Skill Development	4	30	70		100
11	20RMBA306H	Training and Development	Skill Development	4	30	70		100
12	20R MBA306s	Data Base Management systems	Skill Development	4	30	70		100
13	20RMBA307F	Investment and Portfolio Management	Skill Development	4	30	70		100



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF BUSINESS MANAGEMENT

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14	20RMBA307M	Sales and Distribution Management	Skill Development	4	30	70		100
15	20RMBA307H	Performance Management	Skill Development	4	30	70		100
16	20RMBA307S	Management of Software Projects	Skill Development	4	30	70		100
SEMESTER - IV								
1	20RMBA401	Strategic Management	Entrepreneurship	4	30	70	-	100
2	20RMBA402	Indian Ethos & Business Ethics	Skill Development	4	30	70	-	100
3	20RMBA403	Entrepreneurial Skill Development	Entrepreneurship	4	30	70	-	100
4	20RMBA404	TQM-Total Quality Management	Skill Development	4	30	70		100
5	20RMBA405F	Financial Derivatives	Skill Development	4	30	70		100
6	20RMBA405M	Services Marketing	Skill Development	4	30	70		100
7	20RMBA405H	Organization Development	Skill Development	4	30	70		100
8	20RMBA405S	Data Communication and Network Analysis	Skill Development	4	30	70		100
9	20RMBA406F	International Financial Management	Skill Development	4	30	70		100
10	20RMBA406M	Brand Management	Skill Development	4	30	70		100
11	20RMBA406H	Global Human Resource Management	Skill Development	4	30	70		100
12	20RMBA406S	Corporate Information Management	Skill Development	4	30	70		100
13	20RMBA407F	Tax planning and management	Skill Development	4	30	70		100
14	20RMBA407M	Retail marketing	Skill Development	4	30	70		100
15	20RMBA407H	Change management	Skill Development	4	30	70		100
16	20RMBA407S	Decision Support Systems	Skill Development	4	30	70		100



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF PHYSICS

Syllabus for M.Sc.Physics (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

M.Sc. Physics

PROGRAM OBJECTIVES & OUTCOMES

Program Educational Objectives of M.Sc. (Physics):

- ✦ To impart high quality education in Physical Sciences.
- ✦ To prepare students to take up challenges as globally competitive physicists/researchers in diverse areas of theoretical and experimental physics.
- ✦ To make the students technically and analytically skilled.
- ✦ To provide opportunity of pursuing high end research as project work.
- ✦ To give exposure to a vibrant academic ambience.
- ✦ To create a sense of academic and social ethics among the students.
- ✦ To prepare them to take up higher studies of interdisciplinary nature.

PROGRAM OUT COMES: At the end of the program, the student will be able to:

PO1	Apply the scientific knowledge to solve the complex physics problems.
PO2	Identify, formulate, and analyze advanced scientific problems reaching substantiated Conclusions using first principles of mathematics, physical and natural sciences.
PO3	Design solutions for advanced scientific problems and design system components or processes that meet the specified needs with appropriate attention to health and safety risks, applicable standards, and economic, environmental, cultural and societal consideration.
PO4	Use research-based knowledge and methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Create, select, and apply appropriate techniques, resources, and modern scientific Tools to complex physics problems with an understanding of the limitations.
PO6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to the Professional scientific practice.
PO7	Understand the impact of the scientific solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Apply ethical principles and commit to the norms of scientific practice.

PROGRAM SPECIFIC OUTCOMES: At the end of the program, the student will be able to:

PSO1	Understand the basic and advanced concepts of different branches of physics.
PSO2	Perform and design experiments in the areas of electronics, atomic, nuclear, Condensed matter, and computational physics.
PSO3	Apply the concepts of physics in specialized areas of condensed, nuclear, renewable energies, particle physics, etc. in industry, academia, research and day to day life.



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF PHYSICS

Syllabus for M.Sc. Physics (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

Semester –I

S. No.	Course Code	Course title	Course Focus on (Employability/ Entrepreneurship/ skill development/ project/ Field work/Internship)	Hours/ Week	Credits	Internal assessment marks	University assessment marks	Max. Marks
1.	PHY 101	Classical Mechanics and Theory of Relativity	Skill development	5	4	30	70	100
2.	PHY102	Atomic and Molecular Physics	Skill development	5	4	30	70	100
3.	PHY 103	Solid State Physics	Skill development	5	4	30	70	100
4.	PHY104	Analog and Digital Electronics	Skill development	5	4	30	70	100
5.	PHY 106	Paper 1& 3 (General Lab)	Skill development	6	4	--	100	100
6.	PHY 107	Paper 3 & 4 (Electronics Lab)	Skill development	6	4	--	100	100

E. Ramu
Chairman

Board of Studies
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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF PHYSICS

Syllabus for M.Sc. Physics (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

Semester –II

S. No.	Course Code	Course title	Course Focus on (Employability/ Entrepreneurship/ skill development/ project/ Field work/Internship)	Hours/ Week	Credits	Internal assessment marks	University assessment marks	Max. Marks
1.	PHY201	Statistical Mechanics	Employability	5	4	30	70	100
2.	PHY202	EM Theory, Lasers & Modern Optics	Employability	5	4	30	70	100
3.	PHY203	Mathematical Physics	Employability	5	4	30	70	100
4.	PHY204	Computational Methods And Programming	Employability	5	4	30	70	100
5.	PHY206	Paper 1 & 2 (General Lab)	Skill Development	6	4	--	100	100
6.	PHY207	Paper 3 & 4 (Electronics Lab)	Skill Development	6	4	--	100	100

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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF PHYSICS

Syllabus for M.Sc. Physics (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

Semester –III

S. No.	Course Code	Course title	Course Focus on (Employability/ Entrepreneurship/ skill development/ project/ Field work/Internship)	Hours/ Week	Credits	Internal assessment marks	University assessment marks	Max. Marks
1.	PHY301	Quantum Mechanics-I	Employability	6	4	30	70	100
2.	PHY302	Nuclear and Particle Physics	Employability	6	4	30	70	100
3.	PHY303	Physics of Semiconductor Devices	Employability	6	4	30	70	100
4.	PHY304	Electronics - Embedded Systems	Employability	6	4	30	70	100
5.	PHY305	Paper 1& 2 (General Lab)	Skill Development	6	4	--	100	100
6.	PHY306	Paper 3 & 4 (Electronics Lab)	Skill Development	6	4	--	100	100

Ch. Ramu
Chairman

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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF PHYSICS

Syllabus for M.Sc. Physics (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

Semester –IV

S. No.	Course Code	Course title	Course Focus on (Employability/ Entrepreneurship/ skill development/ project/ Field work/Internship)	Hours/ Week	Credits	Internal assessment marks	University assessment marks	Max. Marks
1.	PHY401	Quantum Mechanics - II	Employability	6	4	30	70	100
2.	PHY402	Analytical Techniques	Employability	6	4	30	70	100
3.	PHY403	Advances in Physics	Employability	6	4	30	70	100
4.	PHY404	Electronics – Wireless Communication Systems	Employability	6	4	30	70	100
5.	PHY405	Elective Lab	Skill Development	6	4	--	100	100
6.	PHY406	Project	Project Work	6	4	--	100	100

e.u.Ram
Chairman

Board of Studies
VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524.320.



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF STATISTICS

Syllabus for M.A. Statistics (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

VISION AND MISSION OF THE DEPARTMENT

Vision

To enable and empower the women students - especially from the weaker sections of society with a rural background, with hard and soft skills and human values that contribute for the acquisition and development of a good career and multidimensional empowerment.

Mission

To provide education that embraces current and inclusive fields through which the needs of all the sections of the society can be addressed. To enhance quality through innovations in the curriculum by offering need-based courses. To promote research environment and further the prospects of transforming the college into a university. To impart and develop their soft skills and employability skills for better life. To inculcate human values among the students. To propagate the rich tradition and culture of India for the promotion of National Integration. To empower them with competencies in economic, social, psychological, legal and political arena. To employ innovative methods of Teaching – Learning and Evaluation. To encourage teachers to undertake research and consultancy. To create environmental consciousness among the students. To encourage participation in community development programs.

Curriculum Development

As the College is conferred with Autonomy Board of Studies meetings were organized and Curriculum was modified to some extent. The suggestions and ideas obtained from various bodies is thoroughly discussed by the experts in the Academic Council and carefully incorporated in the curriculum.

Eligibility

B.Sc. degree in Statistics or Mathematics with Statistics as a minor subject with a minimum 55% of marks.

Duration of the Course

The course duration shall normally be of two years duration spread over four semesters.

Intake

A total of 44 seats are available for the M.Sc.Program in Statistics

Medium

The medium of instruction shall be English.

Choice Based Credit System (CBCS)


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VIKRAMA SIMHAPURI UNIVERSITY
KAKUTUR-524 324,
SPS Nellore Dist. (A.P.)



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF STATISTICS

Syllabus for M.A. Statistics (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

The M.Sc. Statistics program is offered through a unique CBCS. The salient features of the CBCS are that the program is offered through credit-based courses.

Weightage of marks

The weightage of marks for continuous internal assessment (CIA) and end semester examinations shall be 30 and 70 respectively. A student is declared passed in a given subject when he/she secures a minimum of 40% in the end semester examination in that subject.

Board Of Studies

1. Prof.K. Rosaiah - Chairman, BOS, Acharya Nagarjuna University, Guntur
2. Head, Department of Statistics, Ex-Officio Member, V.S. University, Nellore
3. Prof.A. Vasudeva Rao Member, Acharya Nagarjuna University, Guntur
4. Prof.P. Mohammad Akhtar, Member, S.K. University, Anantapur
5. Prof.B. Muni Swamy Member, Andhra University, Visakhapatnam
6. Dr.S. Yadavendra Babu, Industry Expert, Ford Motors Pvt Ltd, Chennai
7. A. Vasantha Komali, student, V.S. University, Nellore

T. N. V.
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VIKRAMA SIMHAPURI UNIVERSITY
KAKUTUR-524 324.
SPS Nellore Dist. (A.P)



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF STATISTICS

Syllabus for M.A. Statistics (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

COURSE STRUCTURE:

S. No.	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/Internship)	No. of credits	Internal Marks	External Marks	Lab-Internal Marks	Total
Semester – I								
1	20RMSCST101	Probability Theory-I	Skill development	4	30	70	-	100
2	20RMSCST102	Linear Models and Applied Regression Analysis	Skill development	4	30	70	-	100
3	20RMSCST103	Theory of Estimation	Skill development	4	30	70	-	100
4	20RMSCST104	Distribution Theory	Skill development	4	30	70	-	100
5	20RMSCST105	Statistical Computing	Skill development	4	30	70	-	100
6	20RMSCST106	Practical –I	Skill development	4	-	-	-	100
Semester – II								
1	20RMSCST201	Statistical Inference	Employability	4	30	70	-	100
2	20RMSCST202	Multivariate Analysis	Employability	4	30	70	-	100
3	20RMSCST203	Probability Theory - II	Employability	4	30	70	-	100
4	20RMSCST204	Stochastic Processes	Employability	4	30	70	-	100
5	20RMSCST205	Sampling Techniques	Employability	4	30	70	-	100
6	20RMSCST206	Practical-II	Employability	4	-	-	-	100


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 Department of Statistics
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SEMESTER - III								
1	20RMSCST301	Econometrics	Employability	4	30	70	-	100
2	20RMSCST302	Design of Experiments	Employability	4	30	70	-	100
3	20RMSCST303	Reliability	Employability	4	30	70	-	100
4	20RMSCST304	Operations Research-I	Employability	4	30	70	-	100
5	20RMSCST305	Demography and Official Statistics	Employability	4	30	70	-	100
6	20RMSCST306	Practical – III	Employability	4	-	-	-	100
SEMESTER – IV								
1	20RMSCST401	Time Series Analysis and Forecasting Methods	Employability	4	30	70	-	100
2	20RMSCST402	R Programming and Data Analysis	Employability	4	30	70	-	100
3	20RMSCST403	Bio-Statistics	Employability	4	30	70	-	100
4	20RMSCST404	Operations Research - II	Employability	4	30	70	-	100
5	20RMSCST405	(a) Statistical Process and Quality Control	Employability	4	30	70	-	100
6	20RMSCST406	(b) Statistics for Research, Industry and Community Development	Employability	4	30	70	-	100


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VIKRAMA SIMHAPURI UNIVERSITY
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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF MARINE BIOLOGY

Syllabus for M.Sc. Marine Biology (2 Year Course) for Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

PROGRAMME OUTCOME:

PO1: Apply the knowledge of marine biology and ecology including with the subject areas of coastal aquaculture, fishery science, marine pollution and toxicology, marine biotechnology in the recent research areas with students in post graduate level.

PO2: Understand the the applications of different advanced biological techniques in coastal aquaculture, fishery science and marine biotechnology

PO3: Demonstrate the research-based ability to design experiments, interpret and analyse data and report result with international standards.

PO4: Marine Biology Master degree graduates will be skilled in advance level of farming, hatchery, feed formulation techniques of aquaculture species and industry orientation.

PO5: Explore the basics of physical and chemical oceanography in terms of waves, tides, currents, physical and chemical properties of sea water.

PO6: Demonstrate knowledge and understanding of the different technological aspects related to farming/hatchery operations of commercially important marine species.

PO7: Understand the impact of marine pollution and carryout the various experiments and train the various techniques using different instruments.

PO8: Analyze the relationships among the animals, plants and microorganisms in the marine environment including marine invertebrates and vertebrates.

PO9: Impart the knowledge in Ocean management and remote sensing, disaster management, coastal and marine biodiversity of marine organisms including marine flora and fauna

PO10: Evaluate and students will be highly motivated towards the value of marine resources and they will know and carry out their knowledge practically in the marine biology areas individually and meticulously.

Programme Specific Outcomes:

At the end of the Programme, the student will be able to

PSO1: Understand the knowledge and basic concepts of marine biology and ecology, biological oceanography and taxonomy of marine biota.

PSO2: Perform the different procedures as per the laboratory standards in the areas of marine microbiology, biotechnology, bioinformatics, biostatistics, physiology and biochemistry, fish and shrimp processing etc.

PSO3: Gain the knowledge related to the molecular biology and immunology by using the tools and techniques to detect the different diseases in aquatic species.

PSO4: Practice the students with proficient in the farming/hatchery operations of cultivable marine organisms and utilization of marine/coastal resources to make as an entrepreneur


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Department of Marine Biology
VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524320. A.P.

**VIKRAMA SIMHAPURI UNIVERSITY::NELLORE****DEPARTMENT OF MARINE BIOLOGY**

Syllabus for M.Sc. Marine Biology (2 Year Course) for Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

COURSE STRUCTURE:

S. No	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/Internship)	No. of credits	Internal Marks	External Marks	Lab Marks	Total
Semester – I								
1	20RMSCMB101	Introduction to Marine Biology and Ecology	Skill development	4	30	70	-	100
2	20RMSCMB102	Biological Oceanography	Skill development	4	30	70	-	100
3	20RMSCMB103	Marine Invertebrates	Skill development	4	30	70	-	100
4	20RMSCMB104	Marine Vertebrates	Skill development	4	30	70	-	100
5	20RMSCMB105	Marine Biology and Ecology Lab	Skill development	2	-	-	50	50
6	20RMSCMB106	Biological Oceanography Lab	Skill development	2	-	-	50	50
7	20RMSCMB107	Marine Invertebrates Lab	Skill development	2	-	-	50	50
8	20RMSCMB108	Marine Vertebrates Lab	Skill development	2	-	-	50	50
Semester – II								
1	20RMSCMB201	Physical and Chemical Oceanography	Employability/ Skill Development	4	30	70	-	100
2	20RMSCMB202	Fishery Science	Employability/ Skill Development	4	30	70	-	100
3	20RMSCMB203	Physiology and Biochemistry	Skill development	4	30	70	-	100
4	20RMSCMB204	Microbiology and Immunology	Skill development	4	30	70	-	100
5	20RMSCMB205	Physical and Chemical Oceanography Lab	Skill development	2	-	-	50	50
6	20RMSCMB206	Fishery Science Lab	Employability/ Skill Development	2	-	-	50	50
7	20RMSCMB207	Physiology and Biochemistry Lab	Skill development	2	-	-	50	50



M. A. S. HEAD

**VIKRAMA SIMHAPURI UNIVERSITY::NELLORE****DEPARTMENT OF MARINE BIOLOGY**

Syllabus for M.Sc. Marine Biology (2 Year Course) for Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

8	20RMSCMB208	Microbiology and Immunology Lab	Skill development	2	-	-	50	50
SEMESTER - III								
1	20RMSCMB301	Coastal Aquaculture	Employability/Skill Development	4	30	70	-	100
2	20RMSCMB302	Pollution and Toxicology	Skill development	4	30	70	-	100
3	20RMSCMB303	Fish Nutrition and Feed Technology	Employability/Skill Development	4	30	70	-	100
4	20RMSCMB304	Fish Processing Technology	Employability/Skill Development	4	30	70	-	100
5	20RMSCMB305	Coastal and Marine Biodiversity	Skill development	4	30	70	-	100
6	20RMSCMB306	Aquaculture	Employability/Skill Development	4	30	70	-	100
7	20RMSCMB307	Coastal Aquaculture Lab	Employability/Skill Development	2	-	-	50	50
8	20RMSCMB308	Pollution and Toxicology Lab	Skill development	2	-	-	50	50
9	20RMSCMB309	Fish Nutrition , feed Technology Lab	Employability/Skill Development	2	-	-	50	50
10	20RMSCMB310	Fish Processing Techniology Lab	Employability/Skill Development	2	-	-	50	50
11	20RMSCMB311 A	Coastal and Marine Biodiversity Lab	Skill development	2	-	-	50	50
12	20RMSCMB311B	Aquaculture Lab	Employability/Skill Development	2	-	-	50	50
SEMESTER - IV								
1	20RMSCMB401	Marine Biotechnology	Skill development	4	30	70	-	100
2	20RMSCMB402	Research Methodology, Bioinformatics and Biostatistics	Skill development	4	30	70	-	100
3	20RMSCMB403	Ocean Management and Remote Sensing	Employability/Skill Development	4	30	70	-	100
4	20RMSCMB404	Coastal Disater Management	Skill development	4	30	70	-	100

M. S. S.
HEAD

**VIKRAMA SIMHAPURI UNIVERSITY::NELLORE****DEPARTMENT OF MARINE BIOLOGY**

Syllabus for M.Sc. Marine Biology (2 Year Course) for Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

5	20RMSCMB405	Ornamental fish culture	Employability/Skill Development	4	30	70	-	100
6	20RMSCMB406	Marine Biotechnology Lab	Skill development	2	-	-	50	50
7	20RMSCMB407	Research methodology, Bioinformatics and Biostatistics Lab	Skill development	2	-	-	50	50
8	20RMSCMB408	Ocean Management and Remote Sensing Lab	Skill development	2	-	-	50	50
9	20RMSCMB409	Coastal Disaster Management Lab	Skill development	2	-	-	50	50
10	20RMSCMB410	Internship/Project work	Employability/Skill Development	6	50		100	150

M. S. S.
HEAD

Department of Marine Biology -
VIKRAMA SIMHAPURI UNIVERSITY
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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF POLITICAL SCIENCE & PUBLIC
ADMINISTRATION

Syllabus for M.A. Political Science and Public Administration (2 Year Course) for V.S. University
Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University,
Nellore with effect from the Academic Year 2020 – '21

M.A. Political Science and Public Administration

Programme Structure with Course titles:

S. No.	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/ Internship)	No. of credits	Internal Marks	External Marks	Total
Semester – I							
1	20RMAPSPA101	Western Political Thought	skill development	4	30	70	100
2	20RMAPSPA102	Advanced Public Administration	skill development	4	30	70	100
3	20RMAPSPA103	Comparative Governments (UK, USA and Switzerland)	skill development	4	30	70	100
4	20RMAPSPA104	Public Policy	skill development	4	30	70	100
5	20RMAPSPA105(A)	Center-State Relations in India	skill development	4	30	70	100
6	20RMAPSPA105(B)	Recent Trends in India's Foreign Policy	skill development	4	30	70	100


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Department of Political Science
and Public Administration
Vikrama Simhapuri University
NELLORE - 524 324



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF POLITICAL SCIENCE & PUBLIC
ADMINISTRATION

Syllabus for M.A. Political Science and Public Administration (2 Year Course) for V.S. University
Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University,
Nellore with effect from the Academic Year 2020 – '21

Semester – II							
1	20RMAPSPA2 01	Modern Indian Political Thought	Employability	4	30	70	100
2	20RMAPSPA2 02	Administrative Theories	skill development	4	30	70	100
3	20RMAPSPA2 03	Research Methodology	skill development	4	30	70	100
4	20RMAPSPA2 04	Good Governance and Information Technology	skill development	4	30	70	100
5	20RMAPSPA2 05(A)	Gandhian Political Thought	Employability	4	30	70	100
6	20RMAPSPA2 05(B)	Dr.B.R.Ambed kar's Political Thought	Employability	4	30	70	100


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Syllabus for M.A. Political Science and Public Administration (2 Year Course) for V.S. University
Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University,
Nellore with effect from the Academic Year 2020 – '21

SEMESTER - III							
POLITICAL SCIENCE							
1	20RMAPS301	Modern Political Analysis	Employability	4	30	70	100
2	20RMAPS302	International Relations	skill development	4	30	70	100
3	20RMAPS303	Comparative Politics	Employability	4	30	70	100
4	20RMAPS304	Indian Political System	Employability	4	30	70	100
5	20RMAPS305(A)	Human Rights	Employability	4	30	70	100
6	20RMAPS305(B)	Social Movements in India	Employability	4	30	70	100
PUBLIC ADMINISTRATION							
1	20RMAPA301	Comparative Public Administration	skill development	4	30	70	100
2	20RMAPA302	Public Administration in India	Employability	4	30	70	100
3	20RMAPA303	Human Resource Management	skill development	4	30	70	100
4	20RMAPA304	Local Governments in India with Special Reference to A.P.	Employability	4	30	70	100
5	20RMAPA305(A)	Rural Development Administration	Entrepreneurship	4	30	70	100
6	20RMAPA305(B)	Personnel Administration	skill development	4	30	70	100


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SEMESTER - IV							
POLITICAL SCIENCE							
1	20RMAPS401	Recent Trends in India's Foreign Policy	skill development	4	30	70	100
2	20RMAPS402	Government and Politics in Andhra Pradesh	Employability	4	30	70	100
3	20RMAPS403	Local Self Governments in India	Employability	4	30	70	100
4	20RMAPS404(A)	Globalization and Political Economy in India	Entrepreneurship	4	30	70	100
5	20RMAPS404(B)	Environmental Politics	Skill development	4	30	70	100
6	20RMAPS405	Project Work	skill development/ Field work	4	30	70	100
PUBLIC ADMINISTRATION							
1	20RMAPA401	DEVELOPMENT ADMINISTRATION IN INDIA	skill development	4	30	70	100
2	20RMAPA402	FINANCIAL ADMINISTRATION	Employability	4	30	70	100
3	20RMAPA403	SOCIAL WELFARE ADMINISTRATION	Employability	4	30	70	100
4	20RMAPA404(A)	URBAN DEVELOPMENT ADMINISTRATION	Entrepreneurship	4	30	70	100
5	20RMAPA404(B)	MANAGEMENT OF PUBLIC ENTERPRISES	skill development	4	30	70	100
6	20RMAPA405	Project Work	skill development/ Field work	4	30	70	100


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Department of Political Science
and Public Administration
Vikrama Simhapuri University
NELLORE - 524 324



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF SOCIAL WORK

Syllabus for Master of Social Work (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

PROGRAMME OBJECTIVES

1. To prepare the students of Social Work for Professional Practice, and lifelong professional development through planning and execution of schemes and services, based on the core domain of Social Work.
2. To prepare students professionally to take an active role in addressing social problems, mobilise public opinion against social ills, and challenge social and economic injustices that may exhibit themselves.
3. To prepare students to think critically with clarity, act professionally with integrity, and work in teams effectively with humility.
4. To equip students with the latest theories, knowledge, and skills to make them competent professionals in their working environment.
5. To prepare the students committed to bringing significant contributions to social welfare/social service organizations\support social welfare/work institutions at local/state/national levels.

PROGRAMME OUTCOMES:

PO-1-Social Work Knowledge: Students will be able to draw knowledge related to social conditions and problems, understanding human beings, social policies and programs, social phenomena, research and various practice theories to facilitate the process of change and to transform that knowledge into action.

PO-2- Comprehension of Social Work Skills: Students will be able to understand the human relationships, theoretical skills such assessment skills, communication skills, basic interviewing skills, Problem solving skills, critical thinking skills in field work practice.

PO-3- Application of Social work skills: Students will be able to demonstrate or apply interviewing skills, assessment skills, advocacy and leadership skills, Critical thinking skills, organizational skills recording and documentation skills, problem-solving skills in finding solutions for individuals, groups and communities.

PO-4-Analyse policies/ Programmes: Enhance an understanding of Government policies and programmes, human rights, human and community well-being, social, economic and environmental justice, and engage in policy practice.

R. Madhanti

Head

Department of Social Work
Vikrama Simhapuri University
NELLORE - 524 320



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF SOCIAL WORK

Syllabus for Master of Social Work (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

PO-5-Synthesis the social work knowledge and research in practice: Perform as professional social worker in design interventions by analyzing the complex individual, group, organization and community problems based on research-based knowledge and social work methods.

PO-6-Values and Ethics: Students will be able to understand and apply ethical principles and commit to professional ethics and responsibilities and norms of the social work practice.

PO-5-Synthesis the social work knowledge and research in practice: Perform as professional social worker in design interventions by analysing the complex individual, group, organisation and community problems based on research-based knowledge and social work methods.

PO-6-Values and Ethics: Students will be able to understand and apply ethical principles and commit to professional ethics and responsibilities and norms of the social work practice.

PROGRAMME-SPECIFIC OUTCOMES

Upon successful completion of the **Master of Social Work Program** the students can:

1. **Social Worker:** Identify oneself as a professional social worker and applying social work values and ethical principles to guide professional practice in the field of Social Work.
2. **Therapist:** Analyze causes and consequences of social problems at the individual, family, community and societal levels, and evolve appropriate intervention strategy/scheme for social well-being.
3. **Administrator:** Develop social work skills and use tools to solve problems and perform tasks in Social Welfare Organizations/Agencies/institutions by adapting various Intervention Techniques
4. **Researcher:** Engage in research on psycho-social problems/issues, conduct social impact Assessment surveys and evaluation of projects and prepare reports and maintain Documentation.

R. Madhathi

Head
Department of Social Work
Vikrama Simhapuri University
NELLORE - 524 320




VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF SOCIAL WORK

Syllabus for Master of Social Work (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

Programme Structure with Course titles:

S. No	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/ Internship)	Relevant of developmental needs(Local/ Regional/ National/ Global)	No. of credits	Internal Marks	External Marks	Lab-Internal Marks	Total
Semester – I									
1	20RMSW101	History, philosophy and field work practice in social Work	Skill Development	Global	4	30	70		100
2	20RMSW102	Individual & society	Employability	Regional	4	30	70		100
3	20RMSW103	Dynamics of human Behaviour	Employability	Global	4	30	70		100
4	20RMSW104	Work with Individuals	Employability	Local	4	30	70		100
5	20RMSW105	Work with Groups	Employability	Local	4	30	70		100
6	20RMSW106	Social Work Practicum	Field Work	Local	4	30	70		100
Semester – II									
1	20RMSW201	work with Communities	Employability	Local	4	30	70		100
2	20RMSW202	Social Action and Legislation	Skill Development	National	4	30	70		100
3	20RMSW203	social Policy, planning and welfare Administration	Skill Development	National	4	30	70		100
4	20RMSW204	Women, Children and Youth	Skill Development	National	4	30	70		100



 Head
 Department of Social Work
 Vikrama Simhapuri University
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		development							
5	20RMSW205	Social work Research and social statistics	Skill Development	National	4	30	70		100
6	20RMSW206	Social work Practicum	Skill Development	Local	4	30	70		100
SEMESTER - III									
1	20RMSW301	Population and environmental studies	Skill Development	Global	4	30	70		100
2	20RMSW302	Social Work Practice in Health and Mental Health care settings	Skill development/ Employability	National	4	30	70		100
3	20RMSW303	Social Work Intervention with families and children	Skill Development	National	4	30	70		100
4	20RMSW304	Rural,Urban and Tribal Community Development	Employability	National	4	30	70		100
5	20RMSW305	Social work in Industry	Employability	National	4	30	70		100
6	20RMSW306	3.6.Social Work Practicum	Skill Development	Local	4	30	70		100
SEMESTER - IV									
1	20RMSW401	Counselling and Communication	Skill Development	National	4	30	70		100
2	20RMSW402	Disaster Management	Skill Development	Global	4	30	70		100
3	20RMSW403	Gerontological Social Work	Employability	Global	4	30	70		100
4	20RMSW404	Criminology and Correctional Administration	Employability	National	4	30	70		100


 Head
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 Vikrama Simhapuri University
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5	20RMSW405	Dissertation	Skill Development	Local	4	30	70		100
6	20RMSW406	4.6.Social Work Practicum	Field Work/skill development	Local	4	30	70		100
7	20RMSW407	4.7.Block field Work	Internship-Skill Development & Employability	Regional	4	30	70		100

R. Madhathi
Head
Department of Social Work
Vikrama Simhapuri University
NELLORE - 524 320



VIKRAMA SIMHAPURI UNIVERSITY:: NELLORE

Syllabus for Master of Computer Science for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from 2020-'21 Academic Year

VISION

Ethical technocrat graduated students responsibly serving, impacting and transforming the Industry and Society.

MISSION

1. The department aims to generate groomed, technically component and skilled intellectual professionals to meet the current challenges of the modern computing industry.
2. The department strives to groom students with diverse backgrounds into competitive software professionals with moral values and committed to build a vibrant nation.
3. Providing a strong theoretical and practical background across the computer science discipline with an emphasis on software development.
4. To achieve employability by effectively developing their technical skills, communication skills and personality.
5. To encourage entrepreneurial environment and nurture innovative ideas.
6. To synchronize concepts, logic and skills for effective decision making.

PROGRAMME OUTCOMES (POs)

PO1	Computational Knowledge: Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.
PO2	Problem Analysis: Ability to identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.
PO3	Design / Development of Solutions: Ability to transform complex business scenarios and contemporary issues into problems, investigate, understand and propose integrated solutions using emerging technologies
PO4	Modern Tool Usage: Ability to select modern computing tools, skills and techniques necessary for innovative software solutions
PO5	Professional Ethics: Ability to apply and commit professional ethics and cyber regulations in a global economic environment.
PO6	Life-long Learning: Recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
PO7	Communication Efficacy: Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.
PO8	Societal & Environmental Concern: Ability to recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.
PO9	Individual & Team Work: Ability to work as a member or leader in diverse teams in multidisciplinary environment.
PO10	Innovation and Entrepreneurship: Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.

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Chairman

Board of Studies

**VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524 320,**



VIKRAMA SIMHAPURI UNIVERSITY:: NELLORE

Syllabus for Master of Computer Science for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from 2020-'21 Academic Year

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1	Empowering the students for continuous learning and deliver efficient solutions for emerging challenges in the computation domain.
PSO2	Ability to apply standard software engineering principles to develop viable solutions for Information Technology Enabled Services (ITES).
PSO3	Able to excel in various programming/project competitions and technological challenges laid by professional societies.

Chairman
Board of Studies
VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524 320.



VIKRAMA SIMHAPURI UNIVERSITY:: NELLORE

Syllabus for Master of Computer Science for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from 2020-'21 Academic Year

First Semester											
Course Code	Title of the Course	Course Type	Course Credits	Course Focus on	L	T	P	Total	Sess. Max. Marks	Univ. Max. Marks	Total Marks
20R MSC101	Discrete Mathematical Structures	Core	4	Skill Development	3	1	0	4	30	70	100
20R MSC102	Computer Organization	Core	4	Skill Development	3	1	0	4	30	70	100
20R MSC103	Data Structures using C	Core	4	Skill Development	3	1	0	4	30	70	100
20R MSC104	Database Management Systems	Core	4	Skill Development	3	1	0	4	30	70	100
20R MSC105	Operating Systems	Core	4	Skill Development	3	1	0	4	30	70	100
20R MSC103P	Data Structures using C	Practical	2	Skill Development	0	0	4	4	30	70	100
20R MSC104P	Database Management Systems using SQL Server	Practical	2	Skill Development	0	0	4	4	30	70	100
20R MSC105P	Operating Systems using C Lab	Practical	2	Skill Development	0	0	4	4	30	70	100

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Second Semester												
Course Code	Title of the Course	Course Type	Course Credits	Course Focus on	L	T	P	Total	Sess. Max. Marks	Univ. Max. Marks	Total Marks	
20R MSC201	Design & Analysis of Algorithms	Core	4	Skill Enhancement	3	1	0	4	30	70	100	
20R MSC202	Computer Networks	Core	4	Employability	3	1	0	4	30	70	100	
20R MSC203	Object Oriented Programming using Java	Core	4	Skill Enhancement	3	1	0	4	30	70	100	
20R MSC204	Software Engineering	Core	4	Employability	3	1	0	4	30	70	100	
20R MSC205	Operations Research	Core	4	Skill Enhancement	3	1	0	4	30	70	100	
20R MSC201P	Object Oriented Programming using Java	Practical	2	Skill Enhancement	0	0	4	4	30	70	100	
20R MSC204P	Software Engineering using UML Lab	Practical	2	Employability	0	0	4	4	30	70	100	
20R MSC202P	Computer Networks using Java	Practical	2	Employability	0	0	4	4	30	70	100	
20R MSC208P	Mini Project	Practical	2	Employability								

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Third Semester											
Course Code	Title of the Course	Course Type	Course Credits	Course Focus on	L	T	P	Total	Sess. Max. Marks	Univ. Max. Marks	Total Marks
20R MSC301	Artificial Intelligence	Core	4	Employability	3	1	0	4	30	70	100
20R MSC302	Web Technologies	Core	4	Skill Enhancement	3	1	0	4	30	70	100
20R MSC303	Programming using PHP	Core	4	Employability	3	1	0	4	30	70	100
20R MSC304	1. Advanced Java Programming 2. C# Programming 3. Software Testing	Core	4	Employability	3	1	0	4	30	70	100
20R MSC305	1. Data Mining & Data Warehousing 2. Cryptography & Network Security 3. Computer Graphics	Core	4	Skill Enhancement	3	1	0	4	30	70	100
20R MSC302P	Web Technologies Lab	Practical	2	Employability	0	0	4	4	30	70	100
20R MSC303P	Programming using PHP Lab	Practical	2	Employability	0	0	4	4	30	70	100
20R MSC304P	MSC20304 Elective Lab	Practical	2	Employability	0	0	4	4	30	70	100

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Fourth Semester												
Course Code	Title of the Course	Course Type	Course Credits	Course Focus on	Relevance of the Course	L	T	P	Total	Sess. Max. Marks	Univ. Max. Marks	Total Marks
20RMSC401	Major Project Work	Project	12	Employability	Global, National	0	0	0	0	100	200	300


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DEPARTMENT OF BIOTECHNOLOGY

VISION OF THE DEPARTMENT

To be a centre of excellence in basic and applied research and training young minds in the fields of Biotechnology.

MISSION OF THE DEPARTMENT

- To provide a platform for education of global standards in Biotechnology using advanced methods and techniques.
- To carry out discovery-oriented research of international standards towards biotech product development.
- To establish academic and research collaborations with the industries and healthcare institutions at both national and international levels.
- To produce bioentrepreneurs and human resources for biotechnology industries.

PROGRAM OBJECTIVES


The aim of B.Sc.-M.Sc. Biotechnology (5-Year Integrated Programme) is to provide a broad overview of biotechnology, and thus produce graduates with sufficient knowledge and expertise to apply them in basic biosciences research and teaching.

The program has following specific objectives:

1. To provide an intensive and in-depth knowledge to the students in diverse areas of basic biotechnology,
2. To impart knowledge and skills necessary to generate recombinant DNA and genetically engineered organisms,
3. To provide bioinformatics skills for biological sequence data mining,
4. To train the students to take up wide variety of roles like researchers, scientists, and academicians, and
5. To provide the students hands on training for the technical review and literature search for designing research problems.

PROGRAM OUTCOMES (POs)

PO-1	Knowledge Gaining: Demonstrate comprehensive knowledge and interdisciplinary skills in the fields of biotechnology.
PO-2	Computational Biotechnology: Apply computational modelling of proteins, drug design and simulations to test the models and solve scientific problem.
PO-3	Experimental Abilities: Hypothesis testing, experimental designing, interpretation of the data to solve various problems in different areas of biotechnology.
PO-4	Scientific Communication: Demonstrate communication skills, scientific writing and data recording abilities in all the fields of biotechnology.


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PO-5	Ethical Awareness: Demonstrate the ability to identify ethical issues related to recombinant DNA technology, genetic engineering, animals handling, intellectual property rights, biosafety and handling of sensitive experiments; awareness about the difference between data beautification and data manipulation/scientific misconduct.
PO-6	Collaboration & Teamwork: Demonstrate the ability to work on research projects and assignments in the teams of students coming from different academic disciplines, diverse cultures and ethnicities.
PO-7	Self-learning & Life-long Learning: Demonstrate conceptual learning through systematic thinking and self-study and life-long learning that helps to solve scientific problems with well-defined solutions.
PO-8	Leadership Qualities: Demonstrate the ability to take initiative, set direction, design strategy, and build social cohesion not only in research labs but also in social contexts. Can independently carry out a complete scientific work process, including the theoretical background, hypotheses generation, collecting and analyzing data as along with the interpretation of results and their presentation.
PO-9	Research Skills: Demonstrate the ability to sense the scientific and technological trends in different academic and industry settings, identify the pertinent questions to be addressed, build hypotheses, and design experimental strategies to solve the scientific problems. Demonstrate the ability to use state-of-the-art digital tools and software to collect up-to-date literature and to mine the data, procure, analyze and present the data.
PO-10	Emerging & Advanced Fields: Aware of recent scientific updates, emerging and advanced technologies for quality work and to fulfill the need of the hour throughout life. Understands the role of biotechnology in society, health related issues, environmental concerns and cultural problems through scientific interventions.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO-1	Students will be able to demonstrate, apply their knowledge and find innovative solutions to solve the problems in the areas of cell biology, microbiology, biochemistry, analytical techniques, genetics, biosafety, bioethics, intellectual property rights and biotechnology entrepreneurship. This experience would enable students to familiarize with basic laboratory instruments and understand the principles of various protocols.
PSO-2	Students will be able to demonstrate and apply the principles of advanced methodologies by adopting emerging technologies in molecular biology, enzymology, metabolism, immunology, genetic engineering, bioinformatics, biostatistics and OMICS.
PSO-3	Students will be able to gain fundamental knowledge, understand various facets of



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	procedures and their applications in the elective areas of biotechnology including animal, plant, food, environmental, aquaculture, pharmaceutical and medical biotechnology and bioprocess technology.
PSO-4	Students will be able to acquire knowledge in the research-oriented specialized areas including (a) emerging infectious diseases, (b) herbal and tissue culture technology, (c) molecular diagnostics, (d) probiotics, prebiotics and feed technology, (e) molecular phylogeny and nutraceuticals of marine sources, (f) translational research in animal sciences, and (g) molecular drug discovery and development.
PSO-5	Students will be equipped to understand three fundamental aspects in biological phenomenon: a) what to seek; b) how to seek; c) why to seek? Students will acquire life skills, innovative thinking, planning and setting-up of small-scale biotechnology-related industries by exploring, developing and gaining hands on experience in skill-oriented activities such as (a) research methodologies and scientific communication skills in biotechnology, (b) submission of educational tour report, (c) delivering seminar in advances of biotechnology, (d) analyzing the landmark discoveries critically in journal club, and (e) preparation of project poster and dissertation. This experience would enable them to begin a career in industry as well as in research laboratories conducting fundamental research.



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B.Sc.-M.Sc. BIOTECHNOLOGY

(5-Year Integrated Programme under CBCS)

PROGRAMME STRUCTURE, SYLLABUS AND EXAMINATION

(Regulations-2021; Effective from the Academic Year 2021-22)

Course Type	Course Code	Title of the Course	Core / Elective	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/Internship)	Credits	Examination			
						Internal	External	Max. Marks	Duration (Hours)
FIRST SEMESTER									
THEORY	R21IMSC IBT T-101	BIOCHEMISTRY	CC	Skill Development	4	30	70	100	3
	R21IMSC IBT T-102	CELL BIOLOGY	CC	Skill Development	4	30	70	100	3
	R21IMSC IBT T-103	MICROBIOLOGY	CC	Skill Development	4	30	70	100	3
	R21IMSC IBT T-104	ENGLISH-I	AECC	Skill Development	4	30	70	100	3
	R21IMSC IBT T-105	BIOTECHNOLOGY & HUMAN WELFARE	GC	Skill Development	2	-	50	50	2
	R21IMSC IBT T-106	ENVIRONMENTAL EDUCATION	LSC	Skill Development	2	-	50	50	2
PRACTIAL LAB	R21IMSC IBT P-101	BIOCHEMISTRY	CC	Skill Development	2	-	50	50	3
	R21IMSC IBT P-102	CELL BIOLOGY	CC	Skill Development	2	-	50	50	3
	R21IMSC IBT P-103	MICROBIOLOGY	CC	Skill Development	2	-	50	50	3
	R21IMSC IBT T-104	ENGLISH-I	AECC	Skill Development	2	50	-	50	3
	R21IMSC IBT SEA-1	SEMINAR & POSTER DISPLAY	SEA	Skill Development	2	50	-	50	3

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B.Sc.-M.Sc. BIOTECHNOLOGY

(5-Year Integrated Programme under CBCS)

PROGRAMME STRUCTURE, SYLLABUS AND EXAMINATION

(Regulations-2021; Effective from the Academic Year 2021-22)

	TOTAL		30	220	530	750	31
CC: CORE COURSE AECC: ABILITY ENHANCEMENT COMPULSORY COURSE GENERIC COURSE LSC: LIFE SKILL COURSE SEC: SKILL ENHANCEMENT ACTIVITY							


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Course Type	Course Code	Title of the Course	Core / Elective	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/Internship)	Credits	Examination			
						Internal	External	Max. Marks	Duration (Hours)

SECOND SEMESTER

THEORY	R21IMSC IBT T-201	MICROBIAL PHYSIOLOGY	CC	Employability	4	30	70	100	3
	R21IMSC IBT T-202	PLANT PHYSIOLOGY	CC	Employability	4	30	70	100	3
	R21IMSC IBT T-203	MAMMALIAN PHYSIOLOGY	CC	Employability	4	30	70	100	3
	R21IMSC IBT T-204	ENGLISH-II	AECC	Skill Development	4	30	70	100	3
	R21IMSC IBT T-205	BIOETHICS & BIOSAFETY	GC	Entrepreneurship/	2	-	50	50	2
	R21IMSC IBT T-206	HEALTH & HYGIENE	LSC	Entrepreneurship/	2	-	50	50	2
PRACTIAL LAB	R21IMSC IBT P-201	MICROBIAL PHYSIOLOGY	CC	Employability	2	-	50	50	3
	R21IMSC IBT P-202	PLANT PHYSIOLOGY	CC	Employability	2	-	50	50	3
	R21IMSC IBT P-203	MAMMALIAN PHYSIOLOGY	CC	Employability	2	-	50	50	3
	R21IMSC IBT T-204	ENGLISH-II	AECC	Skill Development	2	50	-	50	3
	R21IMSC IBT SEA-2	COMMUNITY SERVICE PROJECT-1	SEA	Project Work	2	50	-	50	3
TOTAL					30	220	530	750	31

CC: CORE COURSE

AECC: ABILITY ENHANCEMENT COMPULSORY COURSE
GC: GENERIC COURSE

LSC: LIFE SKILL COURSE

SEA: SKILL ENHANCEMENT ACTIVITY


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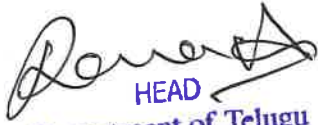
M.A. Telugu

యం.ప.తెలుగు-అభ్యసన ఫలితాలు (Program Outcomes):

PO1	తెలుగు సాహిత్య చరిత్రను ప్రాచీన మరియు ఆధునిక కవిత్వ అధ్యయనాన్ని అర్థం చేసుకుంటారు.
PO2	తెలుగు భాష ఆవిర్భావ వికాసాన్ని అభ్యసించి, భాషాంశాలను విశ్లేషించే సామర్థ్యాన్ని పొందుతారు.
PO3	తెలుగు వ్యాకరణ సంబంధమైన అంశాలను లోతుగా అధ్యయనం చేయడం ద్వారా భాషాసంబంధమైన పరిజ్ఞానాన్ని పెంపొందించుకోవడంలో అన్వయించుకోగలుగుతారు.
PO4	జానపద విజ్ఞానం, సంస్కృతిని అధ్యయనం చేయడం ద్వారా మానసిక వికాసాన్ని పొందగలుగుతారు. జానపద సంస్కృతిని అవగాహన చేసుకుంటారు.
PO5	ఆంధ్రుల చరిత్ర, సంస్కృతిని, సంస్కృత సాహిత్యాన్ని, చరిత్రని అధ్యయనం చేయడం ద్వారా వాటి విశిష్టతని తెలుసుకొని భావి తరాలకు దాన్ని అందించగలుగుతారు.
PO6	తెలుగు అభ్యసించడం వల్ల అభివ్యక్తికరణ నైపుణ్యాలను పెంపొందించుకుంటారు. సాహిత్య అధ్యయనం ద్వారా తెలుసుకున్న విషయాల వల్ల నైతిక విలువలు పెంపొందించుకొని ప్రస్తుతం అందుబాటులో ఉన్న ఆధునిక మాధ్యమాల ద్వారా తమ తోటి వారికి, సమాజానికి అందించే సామర్థ్యాన్ని అందిపుచ్చుకుంటారు.

యం.ప.తెలుగు-అభ్యసన ప్రత్యేక ఫలితాలు(Program Special Outcomes):

PSO1	తెలుగు అభ్యసించడం ద్వారా సృజనాత్మకత పెంపొందుతుంది. భావ వ్యక్తికరణ నైపుణ్యాలు అలవడతాయి.
PSO2	భాషను సమగ్రంగా అభ్యసనం చేయడం వల్ల భాష మీద సాధికారత లభించి పుష్కలమైన వృత్తి అవకాశాలను అందిపుచ్చుకుంటారు.
PSO3	ప్రపంచ వ్యాప్తంగా ఉన్న అనేక సాహిత్యాలను తులనాత్మకంగా అధ్యయనం చేయడానికి మరియు విశ్లేషించడానికి తెలుగు సాహిత్య అధ్యయనం ఎంతో ఉపయోగపడుతుంది.


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కోర్స్ లెర్నింగ్ ఫలితాలు (COs)

	Description of the PO	Knowledge Level
CO ₁	ప్రాచీన సంప్రదాయ సాహిత్యం యొక్క ప్రాముఖ్యాన్ని అర్థం చేసుకోగలుగుతారు	K2
CO ₂	పురాతన కాలం నాటి సామాజిక రాజకీయ , సాంస్కృతిక మరియు ఆర్థిక పరిస్థితులను విశ్లేషించగలుగుతారు.	K4
CO ₃	ప్రాచీన సంప్రదాయ సాహిత్యం యొక్క ప్రాముఖ్యతను భాషా జ్ఞానాన్ని పెంపొందించు కొంటారు.	K1
CO ₄	ప్రాచీన తెలుగు సాహిత్యాన్ని చదివి సృజనాత్మకతను పెంపొందించు కుంటారు.	K6
CO ₅	ప్రాచీన తెలుగు సాహిత్యంలో చదివిన అంశాలను ఇతర భాషా సాహిత్యాలకు అనువర్తింప జేస్తారు.	K3

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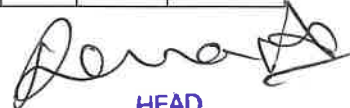


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Course Structure:

S. No	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/ Internship)	No. of credits	Internal Marks	External Marks	Total
Semester – I							
1	20RMATEL101	Prescribed Texts Classical Poetry & Drama	Skill Development	4	30	70	100
2	20RMATEL102	Introduction to General Linguistics	Skill Development	4	30	70	100
3	20RMATEL103	History of Telugu Literature-I (Pre Nannaya to Srinadha Period)	Skill Development	4	30	70	100
4	20RMATEL104	Telugu Grammar and Prosody	Skill Development	4	30	70	100
5	20RMA TEL105 A	Folk Literature	Skill Development	4	30	70	100
6	20RMA TEL105.B	Translation	Skill Development	4	30	70	100
Semester – II							
1	20RMATEL201	Modern Poetry (Prescribed Texts & Drama)	Skill Development	4	30	70	100
2	20RMATEL202	Historical Linguistics	Employability	4	30	70	100
3	20RMATEL203	History of Telugu Literature-2 (Prabandha period to Modern Period)	Employability	4	30	70	100
4	20RMATEL204	Telugu Grammar-II and Poetics	Skill Development	4	30	70	100
5	20RMATEL205 A	Folk Arts	Employability	4	30	70	100

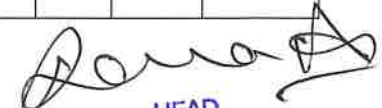

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6	20RMATEL205 B	Comparative Literature	Employability	4	30	70	100
SEMESTER - III							
1	20RMATEL301	Telugu Literary Criticism	Skill Development	4	30	70	100
2	20RMA TEL302	Telugu Culture	Skill Development	4	30	70	100
3	20RMA TEL303	Telugu Journalism	Employability	4	30	70	100
4	20RMA TEL304	Regional Literature	Skill Development	4	30	70	100
5	20RMATEL305A	Fiction Novel, Short Story	Employability	4	30	70	100
6	20RMATEL305B	Structure of Modern Telugu	Skill Development	4	30	70	100
SEMESTER - IV							
1	20RMA TEL401	Modern Telugu Literary Criticism	Skill Development	4	30	70	100
2	20RMA TEL402	Prescribed Sanskrit Text & Grammar	Skill Development	4	30	70	100
3	20RMA TEL403	Evolution of Telugu Language	Skill Development	4	30	70	100
4	20RMA TEL404	Women Poets in Telugu	Skill Development	4	30	70	100
5	20RMATEL405A	Kandukuri Veereswaralingam (Special Authour)	Skill Development	4	30	70	100
6	20RMATEL405B	Research Methodology	Employability	4	30	70	100


HEAD
Department of Telugu
VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524 320, A.P.



VIKRAMA SIMHAPURI UNIVERSITY, NELLORE
DEPARTMENT OF COMPUTER SCIENCE

Syllabus for Master of Computer Applications (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

VISION

The Department contributes effectively, ethically to produce quality professionals in the field of Information and Technology to graduated techno-students to serve impact and transform the Industry and Society.

MISSION

1. The department aims to generate groomed, technically competent and skilled intellectual professionals to meet the current challenges of the modern computing industry.
2. The department strives to groom students with diverse backgrounds into competitive software professionals with moral values and committed to build a vibrant nation.
3. Providing a strong theoretical and practical background across the computer science discipline with an emphasis on software development.
4. To achieve employability by effectively developing their technical skills, communication skills and personality.
5. To encourage an entrepreneurial environment and nurture innovative ideas.
6. To synchronise concepts, logic and skills for effective decision making.

PROGRAMME OUTCOMES (POs)

PO1	Computational Knowledge: Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.
PO2	Problem Analysis: Ability to identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.
PO3	Design / Development of Solutions: Ability to transform complex business scenarios and contemporary issues into problems, investigate, understand and propose integrated solutions using emerging technologies
PO4	Modern Tool Usage: Ability to select modern computing tools, skills and techniques necessary for innovative software solutions
PO5	Professional Ethics: Ability to apply and commit professional ethics and cyber regulations in a global economic environment.
PO6	Life-long Learning: Recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
PO7	Communication Efficacy: Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.
PO8	Societal & Environmental Concern: Ability to recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.
PO9	Individual & Team Work: Ability to work as a member or leader in diverse teams in multidisciplinary environment.
PO10	Innovation and Entrepreneurship: Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.


Chairman

Board of Studies

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VIKRAMA SIMHAPURI UNIVERSITY, NELLORE
DEPARTMENT OF COMPUTER SCIENCE

Syllabus for Master of Computer Applications (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1	Domain Specific Knowledge: Develop solutions by applying relevant technique in the domain of Algorithms, Computer Programming, Multimedia, Web and Network Security.
PSO2	Problem Solving Skills: The ability to employ modern computer language environments and platforms for finding solutions with specific application development using suitable models.
PSO3	Software Product Development: Deliver quality software product by applying the design and development principles for various applications.

Board of Studies
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VIKRAMA SIMHAPURI UNIVERSITY, NELLORE
DEPARTMENT OF COMPUTER SCIENCE

Syllabus for Master of Computer Applications (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

First Semester												
Course Code	Title of the Course	Course Type	Course Credits	Course Focus on	L	T	P	Total	Sess. Max. Marks	Univ. Max. Marks	Total Marks	
20RMCA101	Data Structures using C	Core	4	Skill Development	3	1	0	4	30	70	100	
20RMCA102	Database Management Systems using SQL Server	Core	4	Skill Development	3	1	0	4	30	70	100	
20RMCA103	Object Oriented Programming using Java	Core	4	Skill Development	3	1	0	4	30	70	100	
20RMCA104	Operating Systems	Core	4	Skill Development	3	1	0	4	30	70	100	
20RMCA105	Probability and Statistics	Core	4	Skill Development	3	1	0	4	30	70	100	
20RMCA101P	Data Structures Lab using C	Practical	2	Skill Development	0	0	4	4	30	70	100	
20RMCA102P	Database Management Systems Lab SQL Server	Practical	2	Skill Development	0	0	4	4	30	70	100	
20RMCA103P	Object Oriented Programming using Java Lab	Practical	2	Skill Development	0	0	4	4	30	70	100	



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VIKRAMA SIMHAPURI UNIVERSITY, NELLORE
DEPARTMENT OF COMPUTER SCIENCE

Syllabus for Master of Computer Applications (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

Second Semester												
Course Code	Title of the Course	Course Type	Course Credits	Course Focus on	L	T	P	Total	Sess. Max. Marks	Univ. Max. Marks	Total Marks	
20RMCA201	Computer Networks	Core	4	Employability	3	1	0	4	30	70	100	
20R MCA202	Design & Analysis of Algorithms	Core	4	Skill Enhancement	3	1	0	4	30	70	100	
20R MCA203	Data Mining and Data Warehousing	Core	4	Employability	3	1	0	4	30	70	100	
20R MCA204	Python Programming	Core	4	Employability	3	1	0	4	30	70	100	
20R MCA205	Software Engineering	Core	4	Skill Enhancement	3	1	0	4	30	70	100	
20R MCA201P	Computer Networks Lab	Practical	2	Employability	0	0	4	4	30	70	100	
20R MCA203P	Data Mining and Data Warehousing Lab	Practical	2	Employability	0	0	4	4	30	70	100	
20R MCA204P	Python Programming Lab	Practical	2	Employability	0	0	4	4	30	70	100	


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VIKRAMA SIMHAPURI UNIVERSITY, NELLORE
DEPARTMENT OF COMPUTER SCIENCE

Syllabus for Master of Computer Applications (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

Third Semester											
Course Code	Title of the Course	Course Type	Course Credits	Course Focus on	L	T	P	Total	Sess. Max. Marks	Univ. Max. Marks	Total Marks
20RMCA301	Advanced Java Programming	Core	4	Employability	3	1	0	4	30	70	100
20R MCA302	Artificial Intelligence	Core	4	Skill Enhancement	3	1	0	4	30	70	100
20R MCA303	R Programming	Core	4	Employability	3	1	0	4	30	70	100
20R MCA304	Web Programming	Core	4	Employability	3	1	0	4	30	70	100
20R MCA305X	Elective - 1	Core	4	Skill Enhancement	3	1	0	4	30	70	100
20R MCA301P	Advanced Java Programming Lab	Practical	2	Employability	0	0	4	4	30	70	100
20R MCA303P	R Programming Lab	Practical	2	Employability	0	0	4	4	30	70	100
20R MCA304P	Web Programming Lab	Practical	2	Employability	0	0	4	4	30	70	100

Paper Code	Elective - 1
MCA203051	Introduction to Big Data Analytics
MCA203052	Principles of Cloud Computing
MCA203053	Introduction to Internet of Things
MCA203054	Cryptography and Network Security
MCA203055	Data Science


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT TOURISM MANAGEMENT

Syllabus for Master of Business Administration (Tourism Management) (2 Year Course) for V.S.
University Constituent College, Nellore with effect from the Academic Year 2020-2021

VIKRAMA SIMHAPURI UNIVERSITY
DEPARTMENT OF TOURISM MANAGEMENT

Programme: MBA (Tourism Management)

Program Educational Objectives (PEOs)	
1	Acquire domain knowledge and expertise which best suits the industry
2	Able to correlate the domain knowledge with the nation's objectives
3	Attain managerial skills to face the competitive industry requirements
4	Able to find technology driven solutions
5	A well-groomed professional
6	Able to identify and address the issues of the sector
7	Instill research quotient
8	Possess continuous learning interests
9	Provide entrepreneurial skills
10	Socially responsible individual

Program Specific Outcomes (PSOs)	
1	Analyze, understand, and innovate the deliverables of tourism sector
2	Create competitive edge to destinations through managerial skills
3	Acquire entrepreneurial skillsets
4	Possess vibrant interpersonal qualities
5	Possess learning acumen

Program Outcomes (POs)	
On successful completion of the MBA (Tourism Management)	
1	Academic excellence
2	Research oriented
3	Analyzing and reasoning skills
4	Technology orientation and adoption
5	Interpersonal communication
6	Problem solving
7	Team work
8	Socially responsible
9	Action of Sustenance
10	Entrepreneurial excellence



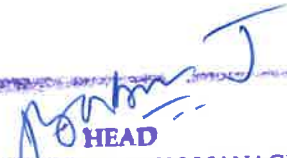
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DEPARTMENT OF TOURISM MANAGEMENT
VIKRAMA SIMHAPURI UNIVERSITY COLLEGE
VIKRAMA SIMHAPURI UNIVERSITY
SPSR NELLORE, ANDHRA PRADESH, INDIA, PIN : 524307



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT TOURISM MANAGEMENT

Syllabus for Master of Business Administration (Tourism Management) (2 Year Course) for V.S.
University Constituent College, Nellore with effect from the Academic Year 2020-2021

FIRST SEMESTER								
S.No	Course Code	Course Title	Course Focus on (Employability / Entrepreneurship/ skill development/ project/ Field work/Internship)	Hours/ week	Credits	Internal assessment marks	University assessment marks	Max.Marks
1	17RMBAD101	Management and Organisational Behavior	Skill development	4	4	30	70	100
2	17RMBAD102	Managerial Economics	Skill development	4	4	30	70	100
3	17RMBAD103	Managerial Communication	Skill development	4	4	30	70	100
4	17RMBAD104	Accounting for Managers	Skill development	4	4	30	70	100
5	17RMBAD105	Business Statistics	Skill development	4	4	30	70	100
6	17RMBAD106	Business Environment & Law	Skill development	4	4	30	70	100
7	17RMBAD107	ICT for Managers	Skill development	4	4	30	70	100


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT TOURISM MANAGEMENT

Syllabus for Master of Business Administration (Tourism Management) (2 Year Course) for V.S.
University Constituent College, Nellore with effect from the Academic Year 2020-2021

SECOND SEMESTER							
S. No	Course Code	Course Title	Course Focus on (Employability/ Entrepreneurship/ skill development/ project/ Field work/Internship)	Credits	Internal assessment marks	University assessment marks	Max.Marks
1	17RMBAD201	Operations Research	Skill development	4	30	70	100
2	17RMBAD202	Business Research Methods	Skill development	4	30	70	100
3	17RMBAD203	Marketing Management	Employability/ Entrepreneurship /Skill Development	4	30	70	100
4	17RMBAD204	Financial Management	Employability/Entrepreneurship/Skill Development	4	30	70	100
5	17RMBAD205	Human Resources Management	Employability/Entrepreneurship/Skill Development	4	30	70	100
6	17RMBAD206	Production and Operations Management	Employability/Entrepreneurship/Skill Development	4	30	70	100
7	17RMBAD208	ICT Lab & Comprehensive Viva	Skill development	4	30	70	100



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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT TOURISM MANAGEMENT

Syllabus for Master of Business Administration (Tourism Management) (2 Year Course) for V.S.
University Constituent College, Nellore with effect from the Academic Year 2020-2021

THIRD SEMESTER								
S.No	Course Code	Course Title	Course Focus on (Employability/ Entrepreneurship/ skill development/ project/ Field work/Internship)	Hou rs/ week	Cred its	Internal assessm ent marks	Univers ity assessm ent marks	Max.Ma rks
1	Tourism Principles, Policies & Practices	17RMBAD 301	Employability	4	4	30	70	100
2	Tourism Planning & Development	17RMBAD 302	Employability	4	4	30	70	100
3	Tourism Marketing and Destination Development	17RMBAD 303	Employability	4	4	30	70	100
4	Resource, Attraction and Product in Tourism	17RMBAD 304	Employability	4	4	30	70	100
5	17RMBAD 305	Functional Area Elective I Risk Management and Insurance / Consumer Behaviour / Human Resource planning	Employability/Entrepreneurship/Skill Development	4	4	30	70	100
6	17RMBAD 306	Functional Area Elective II Financial Markets and Services / Advertising & Sales Management / Training and	Employability/Entrepreneurship/Skill Development	4	4	30	70	100



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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT TOURISM MANAGEMENT

Syllabus for Master of Business Administration (Tourism Management) (2 Year Course) for V.S.
University Constituent College, Nellore with effect from the Academic Year 2020-2021

		Developme nt						
7	17RMBAD 307	Functional Area Elective III Investment & Portfolio Managem ent / Sales & Distributio n Managem ent / Performanc e Managem ent	Employability/Entrepreuner ship /Skill Development	4	4	30	70	100
8	17RMBAD 308	Project Report, Evaluation &	Skill development	4	4	30	70	100


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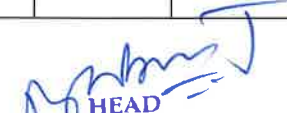


VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT TOURISM MANAGEMENT

Syllabus for Master of Business Administration (Tourism Management) (2 Year Course) for V.S.
University Constituent College, Nellore with effect from the Academic Year 2020-2021

FOURTH SEMESTER								
S.No	Course Code	Course Title	Course Focus on (Employability/ Entrepreneurship/ skill development/ project/ Field work/ Internship)	Hours/ week	Credits	Internal assessment marks	University assessment marks	Max.Marks
1	17RMBAD401	Travel Agency & Tour Operations Management	Employability	4	4	30	70	100
2	17RMBAD402	Hospitality Management	Employability	4	4	30	70	100
3	17RMBAD403	Travel Media & Journalism in Electronic Age	Employability	4	4	30	70	100
4	17RMBAD404	Management of Tourist Transport	Employability	4	4	30	70	100
5	17RMBAD405	Functional Area Elective IV Financial Derivatives/ Services Marketing/ Organization Development	Employability/Entrepreneurship/Skill Development	4	4	30	70	100
6	17RMBAD406	Functional Area Elective V International Financial Management/ Brand Management/ Global Human Resource Management	Employability/Entrepreneurship/Skill Development	4	4	30	70	100
7	17RMBAD407	Functional Area Elective VI Tax planning and management/ Retail marketing/ Change management	Employability/Entrepreneurship/Skill Development	4	4	30	70	100
8	17RMBAD408	Field Visit Report	Employability/Entrepreneurship/Skill Development	4	4	30	70	100




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 VIKRAMA SIMHAPURI UNIVERSITY COLLEGE
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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF ECONOMICS

Syllabus for M.A. Economics (2 Year Course) for V.S. University College, Kavali under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

Programme Objectives:

The Master of Arts programme in Economics has been designed with the objective to develop in-depth knowledge of students in the areas of economic theory and methods, so that they are able to use the knowledge to study real world economic problems. The specific objectives are:

- To equip students with advanced knowledge of Economics
- Development Issues of Indian Economy in general and Andhra Pradesh Economy in particular
- Prepare students to develop critical thinking to carry out investigation about various socio-economic issues objectively while bridging the gap between theory and practice.
- Equip the student with skills to analyse problems, formulate a hypothesis, evaluate and validate results and draw reasonable conclusions thereof.
- Prepare students for pursuing research or careers that provide employment through entrepreneurship and innovative methods.
- Prepare students to develop own thinking /opinion regarding current national or international policies and issues
- Create awareness to become a rational and an enlightened citizen so that they can take the responsibility to spread the governments' initiatives/schemes to the rural areas for the upliftment of the poor or vulnerable section of the society for inclusive growth



Chairman
Board of Studies
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NELLORE - 524 320.



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF ECONOMICS

Syllabus for M.A. Economics (2 Year Course) for V.S. University College, Kavali under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

Programme Outcomes:

At the end of the programme, the students will have adequate competency in the areas of economic theory and methods. The students will acquire additional specialisation through optional courses. The Specific outcomes are:

PO1	To gain comprehensive knowledge and understanding of several disciplines of economics.
PO2	To impart in-depth knowledge to the student about various economics theories and concepts and enhance capabilities of developing ideas based on them
PO3	To acquire knowledge in various economic issues and latest developments in the economy
PO4	To acquire analytical skills through various mathematical and statistical tools applied to economic principles using Information and Communication Technology (ICT) leading to skill enhancement and employability
PO5	To develop critical thinking among students in various socio-economic issues to bridge the gap between theory and practice.
PO6	To develop appropriate skills in students catering to the needs of the industry and policy makers
PO7	

Program Specific Outcomes are (PSOs):

PSO1	To understand the issues of Indian economy in Indian Economy in general and Andhra Pradesh Economy in particular
PSO2	To gain problem solving knowledge by acquiring skills through developing and testing of hypothesis to arrive conclusions
PSO3	To acquire knowledge for appearing various competitive exams: NET, SET, Indian Economic Service, UPSC, APPSC etc. for employability


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Board of Studies
VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524 320.



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF ECONOMICS

Syllabus for M.A. Economics (2 Year Course) for V.S. University College, Kavali under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

Programme Structure with Course titles:

S. No.	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship / Skill Development/ project/ Field work/Internship)	Instructions Hours Per Week	Credits	IA Marks	End Semester Exam Marks	Total
Semester – I								
1	20RMAECO101	Micro Economics-I	Skill Development	6	4	30	70	100
2	20RMAECO102	Macro Economics-I	Skill Development	6	4	30	70	100
3	20RMAECO103	Mathematics for Economists	Skill Development	6	4	30	70	100
4	20RMAECO104	Economics of Environment	Skill Development	6	4	30	70	100
5	20RMAECO105	Computer Applications in Economics (Lab)	Skill Development	6	4			100
Semester – II								
1	20RMAECO201	Micro Economics-II	Employability	6	4	30	70	100
2	20RMAECO202	Macro Economics- II	Employability	6	4	30	70	100
3	20RMAECO203	Statistics for Economists	Skill development	6	4	30	70	100
4	20RMAECO204	Indian Economy	Employability	6	4	30	70	100
5	20RMAECO205	Economics of Growth and Development	Employability	6	4	30	70	100
SEMESTER - III								
1	20RMAECO301	International Trade:Theory and Policy	Employability	6	4	30	70	100
2	20RMAECO302	Rural Development	Employability	6	4	30	70	100



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF ECONOMICS

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3	20RMAECO303	Public Economics	Employability	6	4	30	70	100
4	20RMAECO304A	Financial Institutions and Markets	Employability	6	4	30	70	100
5	20RMAECO304B	Demography	Employability	6	4	30	70	100
6	20RMAECO304C	Research Methodology	Skill development	6	4	30	70	100
7	20RMAECO305A	Agricultural Economics	Employability	6	4	30	70	100
8	20RMAECO305B	Industrial Economics	Employability	6	4	30	70	100
9	20RMAECO305C	Economics of Information Technology	Skill development	6	4	30	70	100
SEMESTER - IV								
1	20RMAECO401	Labour Economics	Employability	6	4	30	70	100
2	20RMAECO402	International Finance	Employability	6	4	30	70	100
3	20RMAECO403	Entrepreneuership and Skill Development	Employability	6	4	30	70	100
4	20RMAECO404A	Economics of Insurance	Employability	6	4	30	70	100
5	20RMAECO404B	Adhra Pradesh Economy	Employability	6	4	30	70	100
6	20RMAECO404C	Economics of Infrastructure	Employability	6	4	30	70	100
7	20RMAECO405A	Welfare Economics	Employability	6	4	30	70	100
8	20RMAECO405B	Indian Economic Reforms	Employability	6	4	30	70	100
9	20RMAECO405C	Urban Economics	Employability	6	4	30	70	100


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF EDUCATION

Syllabus for Master of Education (2 Year Course) for V.S. University Constituent Colleges and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

PROGRAMME OBJECTIVES

On completion of the program of Masters in Education (M.Ed.), the learner shall be able:

1. To become a professional teacher-educator.
2. To become humane teacher-educator.
3. To evolve as a more responsible citizen.
4. To enhance his/her skill oriented capabilities.
5. To understand various contemporary educational systems, issues and concerns.
6. To understand the meaning of holistic child development.
7. To discuss and reflect over prevalent issues in the field of teacher- education.
8. To acquire knowledge related to educational research, and apply understandings gained during the program in undertaking educational research.
9. To be able to design and conduct research studies on current educational issues for finding solutions to various educational problems.

PROGRAMME OUTCOMES (POs)

After successful completion of two-year Post- Graduate Degree programme in Commerce, the students would be able to

PO1	Administration Capabilities: Apply the knowledge of Education in academic planning, decision making, resource management and evaluation, according to predetermined goals, norms and standards.
PO2	Academic & Professional Development: Identify the educational needs and requirements, for academic development. Use diversified tools and communication Skills to serve the professional purpose.
PO3	Utilize the knowledge to cope up with Complex issues: Utilize the knowledge & skills to cope up with educational issues in complex situations with appropriate consideration for the rules, norms and the Social, cultural, and environmental context.
PO4	Research Skills: Understand different research methods, Equipping scholars with relevant tools and techniques, knowledge dissemination, knowledge creation, Data collection analysis and Interpretation of the data, conceptual understanding in practical research work and writing a research report, innovative educational practices related to different stakeholders of education.
PO5	Independent and Team Work Capacities: Perform Function effectively either in the role of member or leader in diversified educational settings and Institutions of Teacher

R. Masilva
HOD
Department of Education
Vikrama Simhapuri University College
Kakuturu - 524 320
SPS Nellore District (A.P.)




VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF EDUCATION

Syllabus for Master of Education (2 Year Course) for V.S. University Constituent Colleges and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

	Education.
PO6	Ethics: Demonstrate professional ethics by keeping self abiding to rules, regulations, values and high standards in teaching, research, administration at diversified educational setting and Teacher Education Institutes.
PO7	Commitment towards Society and National Goals: Recognize areas of commitment, accountability, constitutional values, and national goals and perform accordingly.

PROGRAMME SPECIFIC OBJECTIVES

P.S.O-1	Understand the individual differences among students with the knowledge of advanced psychology.
P.S.O-2	Develop the capability of using various methods, techniques and approaches in teaching and evaluation process.
P.S.O-3	Apply the knowledge of counseling process in their profession.
P.S.O-4	Estimate the relation between ICT in Academic and research perspectives


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF EDUCATION

Syllabus for Master of Education (2 Year Course) for V.S. University Constituent Colleges and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

Programme Structure with Course Titles:

SEMESTER - I

S · N o ·	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/Internship)	No. of credits	Internal Marks	External Marks	Total
1	20RMED 101	Perspectives of educational psychology	Skill Development	4	30	70	100
2	20RMED 102	Educational Studies	Skill Development	4	30	70	100
3	20RMED 103	Fundamentals of Educational Research	Skill Development	4	30	50	100
4	20RMED 104	Educational Planning and Management	Skill Development	4	30	50	100
5	20RMED 105	Advanced Educational Technology	Skill Development	4	30	70	100
6	20RMEDISB-P106	Communication skill	Skill Development	1	25		100
7	20RMEDISB-P107	Academic writing	Skill Development	1	25		
8	20RMEDISB-P108	Self Development	Skill Development	1	25		
9	20RMEDISB-P109	Dissertation- Review of research studies and identification of research problem	Skill Development	1	25		

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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF EDUCATION

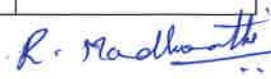
Syllabus for Master of Education (2 Year Course) for V.S. University Constituent Colleges and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

SEMESTER - II

1	20RMED 1	perspectives of educational philosophy	Skill Development	4	30	70	100
2	20RMED 202	perspectives of educational sociology	Skill Development	4	30	70	100
3	20RMED 203	Advanced educational research	Skill Development	4	30	70	100
4	20RMED 204	Teacher Education	Employability & Skill Development	4	30	70	100
5	20RMED 205	Economics of Education	Entrepreneurship	4	30	70	100
6	20RMED ISB206	Dissertation research proposal presentation	Project Work	2	50		100
7	20RMED ISB207	Internship in a teacher education institution	Internship	4	100		100

SEMESTER - III

1	20RME D 301	Guidance and counseling	Skill Development	4	30	70	100
2	20RME D 302	ICT in Education	Employability	4	30	70	100
Specializations – A or B							
A Specialization in Elementary Education							
3	20RME D 303	Elementary Education	Employability	4	30	70	100
Select Any One of the Following							
4	20RME D 304	Inclusive Education (Elective)	Employability	4	30	70	100
5	20RME D 305	Life Skills Education (Elective)	Employability	4	30	70	100
6	20RME D 306	Adult & Continuing Education (Elective)	Employability	4	30	70	100
B. Specialization in Secondary Education							
7	20RME D 307	Secondary Education	Employability	4	30	70	100


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Select Any One of the Following							
8	20RME D 308	Special Education	Employability	4	30	70	100
9	20RME D 305	Life Skills Education (Elective)	Skill Development	4	30	70	100
1 0	20RME D 309	Comparative Education (Elective)	Skill Development	4	30	70	100
1 1	20RME D 310	Psychology and life (Non Core Course)	Skill Development	4	30	70	100
1 2	20RME DISB 311	Dissertation- Data collection	Project Work	4	50		150
1 3	20RME DISB 312	Internship in specialization	Internship	4	100		150

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SEMESTER - IV

1	20RMED 401	Perspectives in research and issues in teacher education	Entrepreneurship	4	30	70	100
Any Three of the Following Courses (3X4 = 12 Credits)							
Specializations – A or B							
A. Specialization in Elementary Education							
2	20RMED 402	Environmental Education at Elementary Level (Elective)	Employability	4	30	70	100
3	20RMED 403	Measurement and Evaluation (Elective)	Entrepreneurship	4	30	70	100
4	20RMED 404	Curriculum Studies (Elective)	Employability	4	30	70	100
5	20RMED 405	Value Education (Elective)	Skill Development	4	30	70	100
6	20RMED 406	Human Rights Education (Elective)	Skill Development	4	30	70	100
B – Specializations in Secondary Education							
7	20RMED 403	Measurement and Evaluation (Elective)	Entrepreneurship	4	30	70	100
8	20RMED 404	Curriculum Studies (Elective)	Employability	4	30	70	100
9	20RMED 406	Human Rights Education (Elective)	Skill Development	4	30	70	100
10	20RMED 407	Environmental education at secondary level (Elective)	Employability	4	30	70	100
11	20RMED408	Human Values & Professional Ethics (Elective)	Value Based	4	30	70	100
12	20RMEDISB 409	Dissertation- Report Writing	Project Work	6		150	200
13	20RMEDISB 410	Viva voice	Skill Development	2		50	200

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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF ENGLISH

Syllabus for M.A. English (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – 2021

M.A. English

PROGRAMME EDUCATIONAL OBJECTIVES(PEOs)

PEO1	Academic Excellence & Core Competency: To train students through the study of language, literature and culture to enable them to identify, recall and reproduce the lexis and functional grammar to analyze, describe, paraphrase or summarize any content in the chosen language and thereby enhance their core competency and academic excellence.
PEO2	Effective Communication and Team work: To impart in learners globally relevant curriculum that enhances team spirit, communication skills, adaptability to develop the learners' ability to display and validate their knowledge and apply the acquired skills through effective communication and teamwork.
PEO3	Professionalism & Skill Development: To prepare students to demonstrate the ability to analyze, compare, and differentiate and to sharpen their skills of observation, analysis and critical thinking thus enabling them to articulate strong technical and professional skills.
PEO4:	Empathy and Empowerment: To enable learners to develop sensitivity and consciousness through critical analysis of language, literature, history and civilization with a true concern towards the society in order to make the student a global citizen.
PEO5	Social Responsibility, Environment and Sustainability: To prepare young minds to internalize their understanding of the society, conscientise them with the values of clean environment and sustainability of natural resources to synthesize research and analysis to defend equity and equality in society and thereby become socially responsible citizens.
PEO6:	Multiculturalism & National Integration: To internalize multiculturalism and interculturality through the study of language and literature and thereby promote national integration.

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PROGRAMME OUTCOMES (PO'S)

PO1	Disciplinary Knowledge: Students apply the knowledge acquired in classrooms and language labs to real-lifesituations and work environment.
PO2	Communication Skills: Students acquire communication skills that make them employable.
PO3	Critical Thinking, Problem Solving, and Reflective Thinking & Leadership Readiness/Qualities: Students acquire employability / soft skills such as teamwork, leadership, critical thinking, and problem solving. Reflective thinking, etc. to excel in the workplace.
PO4	Professionalism, Moral and Ethical Awareness: Students internalize the importance of arts and literature which enable them to become skilled professionals and internalize human values embedded in cultural, social, historical and literary texts to deal with various problems in life displaying moral and social values with sensitivity to gender, age, caste, race, religion and nationality.
PO5	Impact of Education on Society and the Environment & Ethics and Equity: Students recognize the values of the environment and sustainability of natural resources for society and practice equity and equality in society and thereby develop social responsibility.
PO6	Self-Directed Learning & Lifelong Learning: Students engage in life-long and holistic learning supported by ICT tools and online resources to skill themselves up to an ever demanding work environment & recognize their global and local needs and attain the ability to engage themselves as independent learners in the context of an ever-changing world.
PO7	Multicultural Competence: Students become competent, committed, conscious, creative, and compassionate men and women on a par with others.

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M.A ENGLISH PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1	Literary and Aesthetics: Appreciate the perspectives of English Literature in particular and World Literature across cultures in general.
PSO2	Presentation Skills: Demonstrate communication skills, English language teaching and training skills.
PSO3	Theoretical and Practical Knowledge: Gain hands-on experience in applied research methodology on a specific research problem in English.
PSO4	Social and Cultural Responsibility: Evaluate and contextualize the values of environment, sustainability and social responsibility.
PSO5	Analytical and Critical Thinking: Analyse and imbibe the values embedded in literary texts to be sensitive to moral and social issues.
PSO6	Scientific Temper: Demonstrate acumen and interest in self-directed learning and lifelong learning.
PSO7	Gender Sensitization and Social Commitment: Act as catalysts for social change based on their heightened awareness on pertinent issues like the environment, gender, discourse and the literature of the marginalized.

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PROGRAMME STRUCTURE WITH COURSE TITLES:

S. No	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/Internship)	No. of credits	Internal Marks	External Marks	Lab-Internal Marks	Total
Semester – I								
1	20RENG101	Poetry- I	Skill Development	4	30	70	-	100
2	20RENG102	Drama –I	Skill Development	4	30	70	-	100
3	20RENG103	Fiction – I	Skill Development	4	30	70	-	100
4	20RENG104	Prose – I	Skill Development	4	30	70	-	100
5	20RENG105	English Language I	Skill Development	4	30	70	-	100
Semester – II								
1	20RENG201	Poetry- II	Employability	4	30	70	-	100
2	20RENG202	Drama –II	Employability	4	30	70	-	100
3	20RENG203	Fiction – II	Employability	4	30	70	-	100
4	20RENG204	Prose – II	Skill Development	4	30	70	-	100
5	20RENG205	English Language Teaching – II	Employability	4	30	70	-	100
SEMESTER - III								
1	20RENG301	Indian English Literature-I	Employability	4	30	70	-	100
2	20RENG302	American Literature-I	Employability	4	30	70	-	100

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3	20RENG303A 20RENG303B 20RENG303C	New Literatures in English-I Or Dalit Literature I Or The Short Story (In English Translation)	Employability Skill Development Skill Development	4	30	70	-	100
4	20RENG304	Literary Criticism-I	Employability	4	30	70	-	100
5	20RENG305	Indian Literature In English Translations	Employability	4	30	70	-	100
SEMESTER - IV								
7	20RENG401	Indian English Literature-II	Employability	4	30	70	-	100
8	20RENG402	American Literature-II	Employability	4	30	70	-	100
9	20RENG403A 20RENG403B 20RENG403C	New Literatures in English-II Or Subaltern Literature II Or The Short Story in English	Employability Skill Development Skill Development	4	30	70	-	100
10	20RENG404	Literary Criticism-II	Employability	4	30	70	-	100
11	20RENG405	Communicative English	Skill Development	4	30	70	-	100

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DEPARTMENT OF COMMERCE

Syllabus for Master of Commerce (Banking & Finance) (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

Programme Objectives

The specific objectives of the M.Com (Banking and Finance) Programme are to:

- Impart the students with higher level knowledge and understanding of contemporary trends in commerce and business finance
- Equip the students to evaluate environmental factors that influence business operation with the conceptual requirements and skills on preparation and interpretation of financial statements
- Prepare the students to apply Statistical methods and proficient use of tools for modeling and analysis of business data
- Facilitate the students to apply capital budgeting techniques for investment decisions
- Prepare students to appraise the structure and operations of banking system
- Prepare the students for an in-depth analysis of investment, portfolio management, investment banking and liquidation of investments
- Develop competency in the students about the laws and regulations, and roles of commercial, government and central banks in controlling money market and inflation
- Facilitate the students to analyses and frame micro financing schemes for rural banking
- Impart the students the concept of risk mitigation in financial sectors and their role in investment decisions of individuals and business enterprises
- Provide guidance to students to plan and undertake independent research in a chosen discipline
 - Train the students on teamwork, lifelong learning and continuous professional development

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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF COMMERCE

Syllabus for Master of Commerce (Banking & Finance) (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

PROGRAMME OUTCOMES (POs)

After successful completion of two-year Post- Graduate Degree programme in Commerce, the students would be able to

PO1	Knowledge Based: Apply Knowledge in the functional areas of management and analyze the significance of commerce in modern times.
PO2	Problem Analysis: Acquire knowledge about the concepts and postulates of accounting its branches, finance and HRM and trace out appropriate solutions to the compulsory problem.
PO3	Design: Obtain skills in designing and conducting survey during the course of Project work and impact knowledge.
PO4	Investigation: Critically analyze the qualitative and quantitative data on contemporary issues in the field of accounting and finance.
PO5	Use of Tools: Learn about the application of different statistical tools and techniques so as to arrive at suitable decision in the business and its success.
PO6	Individual team work: Discern knowledge about the group dynamics and team building so as to participate in community extension and outreach programmes.
PO7	Communication skills: Inculcate communication skills and learn interview participation techniques for acquire Proper placement.
PO8	Professionalism: Demonstrate professionalism in undertaking independent research surveys and project works.
PO9	Social responsibility and Ethics: Apply reasoning provided by the continual knowledge to assess social, legal and cultural issues and the consequent responsibility relevant to the accounting, finance, marketing and tax planning practices along with professional and environmental ethics.
PO10	Life time Learning: Recognize the need for, and have the skills to engage in independent and life-long learning in the broadest context of changes and turbulent environment revolved around commerce, trade and industry. Also apply learning skills and techniques obtained through theoretical, conceptual framework, computer practical and project field experiences to resolve contemporary issues.


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DEPARTMENT OF COMMERCE

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PROGRAMME SPECIFIC OUTCOMES (PSOs)

After the completion of the M.Com (Banking & Finance), the students would be able to work in various fields:

PSO1	Familiarize the concepts of accounting and its branches-cost accounting and management accounting, finance, marketing, organizational behavior, managerial economics, quantitative techniques for business decisions and analyze the importance of these areas for placing business entity in right perspective.
PSO2	Examine critically the accounting standards and reporting to evolve an effective accounting and reporting system.
PSO3	Acquire knowledge in the field of tax planning and management, personality development, international financial management, e-banking operations and obtain skills in the field of cost and management accounting for arriving at concrete decisions for prosperity of business.


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Programme Structure:

S. No	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/Internship)	No. of credits	Internal Marks	External Marks	Total
Semester – I							
1	20RMBF101	Business Management	Skill development	4	30	70	100
2	20RMBF102	Business Environment & Policy	Skill development	4	30	70	100
3	20RMBF103	Managerial Economics	Skill development	4	30	70	100
4	20RMBF104	Marketing Management	Skill development	4	30	70	100
5	20RMBF105A	Corporate Financial Accounting	Skill development	4	30	70	100
6	20RMBF105B	Customer Relationship Management	Skill development	4	30	70	100
7	20RMBF106	Human Values and Professional Ethics	Skill development	4	30	70	100
Semester – II							
1	20RMBF201	Quantitative Techniques and Business Decisions	Skill development	4	30	70	100
2	20RMBF202	Financial Management	Employability	4	30	70	100
3	20RMBF203	Human Resource Management	Employability	4	30	70	100
4	20RMBF204	Computer Applications in Accounting	Skill development	4	30	70	100



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5	20RMBF205A	Working Capital Management	Skill development	4	30	70	100
6	20RMBF205B	Marketing Research	Skill development	4	30	70	100
7	20RMCOM206	Personality Enhancement and Leadership	Skill development	4	30	70	100
SEMESTER - III							
1	20RMBF301	Principles and Practices of Banking	Skill development	4	30	70	100
2	20RMBF302	Electronic Banking	Skill development	4	30	70	100
3	20RMBF303	Financial Markets and Institutions	Employability	4	30	70	100
4	20RMBF304	International Bank Management	Employability	4	30	70	100
5	20RMBF305A	Risk Management in Banks	Skill development	4	30	70	100
6	20RMBF305B	Mergers and Acquisitions	Skill development	4	30	70	100
7	20RMBF306	Basics of Financial Accounting	Employability	4	30	70	100
8	20RMBF307	Basics of Entrepreneurship Development	Entrepreneurship	4	30	70	100
SEMESTER - IV							
1	20RMBF401	Marketing of Financial Services	Employability	4	30	70	100
2	20RMBF402	Security Analysis and Portfolio Management	Employability	4	30	70	100
3	20RMBF403	International Financial Management	Skill development	4	30	70	100
4	20RMBF404	Project Report and Viva-Voce@	Project Work	4	30	70	100


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5	20RMBF405A	Corporate Governance	Skill development	4	30	70	100
6	20RMBF405B	International Financial Reporting System	Skill development	4	30	70	100
7	20RMBF406	Capital Markets	Employability	4	30	70	100
8	20RMBF407	Tax Planning for Individual Assesses	Employability	4	30	70	100

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M.COM (REGULAR)
PROGRAMME OBJECTIVES (POs).

The objectives of the M.Com. Programme are to :

1. Impart the students with higher level knowledge and understanding of contemporary trends in commerce and business areas
2. Equip the students to evaluate environmental factors that influence business operation with the conceptual requirements and skills on preparation and interpretation of financial statements
3. Prepare the students to apply Statistical methods and proficient use of tools for modeling and analysis of business data
4. Facilitate the students to apply capital budgeting techniques for investment decisions
5. Prepare students to appraise the structure and operations of banking system
6. Prepare the students for an in depth analysis of investment, portfolio management, investment banking and liquidation of investments
7. Develop competency in the students about the laws and regulations, and roles of commercial, government and central banks in controlling money market and inflation
8. Impart the students the concept of risk mitigation in financial sectors and their role in investment decisions of individuals and business enterprises
9. Train the students on teamwork, lifelong learning and continuous professional development.


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M.COM (REGULAR)
PROGRAMME OUTCOMES (POs).

After successful completion of two-year Post- Graduate Degree programme in Commerce, the students would be able to –

- PO1: Knowledge Based:** Apply Knowledge in the functional areas of management and analyse the significance of commerce in modern times.
- PO2: Problem Analysis:** Acquire knowledge about the concepts and postulates of accounting principles and other branches such as finance and HRM and trace out appropriate solutions to the contemporary business problems.
- PO3: Investigation:** Critically analyse the qualitative and quantitative data on contemporary issues in the field of accounting and finance.
- PO4: Use of Tools:** Learn about the application of different statistical tools and techniques so as to arrive at suitable decision in the operation of the business.
- PO5: Individual team work:** Have knowledge about the group dynamics and team building so that to actively participate in community extension and outreach programmes.
- PO6: Communication skills:** Inculcate communication skills and learn interview participation techniques for acquire Proper placement.
- PO7: Society, environment and Social responsibility:** Understand the emerging trends in the field of Accounting, Finance, Marketing and HRM and their impact on society and demonstrate the knowledge required for sustainable development of industry and service sector. Apply reasoning provided by the continual knowledge to assess societal legal and cultural issues and the consequent responsibility relevant to the accounting, finance, marketing and tax planning practices.


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M. COM (REGULAR)
PROGRAMME SPECIFIC OUTCOMES (PSOs)

After completion of the programme, the student would be able to:

- PSO1: Acquire knowledge in business environment and marketing and HR to design constructive strategies for better prospects of business in the changing socio-economic and political conditions.
- PSO2: Understand the value of marketing, sales promotion techniques and learn how to prepare financial statements on accounting inventory bases through tally accounting software and also acquire skills in becoming good entrepreneurs.
- PSO3: Acquire knowledge in the field of accounting and its branches of accounting, tax planning and management, managerial economics, personality development, e-commerce, international financial management, e-banking operations and obtain skills in the field of cost and management accounting for arriving at concrete decisions for prosperity of business.


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Programme Structure with Course titles:

S. No.	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/Internship)	No. of credits	Internal Marks	External Marks	Total
SEMESTER – I Commerce Regular							
1	20RMCOM101	Business Management	Skill development	4	30	70	100
2	20RMCOM102	Business Environment & Policy	Skill development	4	30	70	100
3	20RMCOM103	Managerial Economics	Skill development	4	30	70	100
4	20RMCOM104	Marketing Management	Skill development	4	30	70	100
5	20RMCOM105 A	Corporate Financial Accounting	Skill development	4	30	70	100
6	20RMCOM105 B	Customer Relationship Management	Skill development	4	30	70	100
7	20RMCOM106	Human Values and Professional Ethics	Skill development	4	30	70	100
SEMESTER – II							
1	20RMCOM201	Quantitative Techniques and Business Decisions	Skill development	4	30	70	100
2	20RMCOM202	Financial Management	Employability	4	30	70	100
3	20RMCOM203	Human Resource Management	Skill development	4	30	70	100
4	20RMCOM204	Computer Applications in Accounting	Employability	4	30	70	100
5	20RMCOM205 A	Working Capital Management	Entrepreneurship	4	30	70	100
6	20RMCOM205 B	Marketing Research	Entrepreneurship	4	30	70	100
7	20RMCOM206	Personality Enhancement and Leadership	Skill development	4	30	70	100
SEMESTER - III							
1	20RMCOM301	Personality Development and Soft Skills	Skill development	4	30	70	100
2	20RMCOM302	Security Analysis And Portfolio Management	Employability	4	30	70	100
3	20RMCOM303	Accounting For Managerial Decisions	Employability	4	30	70	100
4	20RMCOM304	Financial Markets And Services	Employability	4	30	70	100
5	20RMCOM305 A	Mergers And Acquisitions	Employability	4	30	70	100
6	20RMCOM305 B	Advertising And Sales Promotion	Employability	4	30	70	100
7	20RMCOM306	Basics Of Financial Accounting (EE)	Skill development	4	30	70	100
8	20RMCOM307	Basics Of Entrepreneurship Development (EE)	Entrepreneurship	4	30	70	100



HEAD
DEPARTMENT OF COMMERCE
V.S.U.P.G. CENTRE
KAVALI, NELLORE



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF COMMERCE

Syllabus for Master of Commerce (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

SEMESTER – IV							
1	20RMCOM401	Corporate Tax Planning and Management	Employability	4	30	70	100
2	20RMCOM402	E-Commerce	Entrepreneurship	4	30	70	100
3	20RMCOM403	Entrepreneurship Development	Entrepreneurship	4	30	70	100
4	20RMCOM404	Project Report & Viva-Voce	Employability & Skill Development	4	30	70	100
5	20RMCOM405 A	Insurance & Risk Management	Employability	4	30	70	100
6	20RMCOM406 B	Logistics And Supply Chain Management	Employability	4	30	70	100
7	20RMCOM407	Capital Markets (EE)	Skill development	4	30	70	100
8	20RMCOM408	Tax Planning For Individual Assessee (EE)	Skill development	4	30	70	100


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DEPARTMENT OF COMMERCE
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KAVALI



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF BOTANY

Syllabus for M.Sc. Botany (2 Year Course) for V.S. University College, Kavali and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year – 2020-2021

Vision

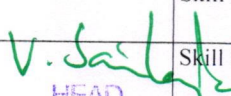
- To improve internationally recognized status of the Department through excellence in higher education and application-oriented basic research in the field of plant science.
- To perceive and disseminate the importance of plant diversity, its conservation and sustainable utilization.
- To inspire intellectual pursuit and experimental skills through innovative teaching and research in basic processes of Plant life.

Mission

- Development of advanced infrastructural and technological facilities to strengthen quality education and research,
- To promote and foster collaborative research with scientific institutes and industry for enhanced scientific thinking and generating new ideas.
- To expand academic activity by offering new multidisciplinary courses and updating programs to suit to a wider spectrum of students and researchers.

Programme Structure with Course titles:

S. No.	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship / Skill Development/ project/ Field work/ Internship)	No. of credits	Internal Marks	External Marks	Total
SEMESTER - I							
1	20RMSCBOT101	Microbiology, Mycology and Plant Pathology	Skill Development	4	30	70	100
2	20RMSCBOT102	Biology and Diversity of Algae, Bryophytes and Pteridophytes	Skill Development	4	30	70	100
3	20RMSCBOT103	Biology and Diversity of Gymnosperms and Ethnobotany	Skill Development	4	30	70	100
4	20RMSCBOT104	Taxonomy of Angiosperms	Skill Development	4	30	70	100
5	20RMSCBOT105P	Practical: Theory Papers BOT 101 & 102	Skill Development	4	-	100	100
6	20RMSCBOT106P	Practical: Theory Papers BOT 103 & 104	Skill Development	4	-	100	100
SEMESTER - II							
1	20RMSCBOT201	Techniques in Cell Biology and Cytology	Skill Development /Employability	4	30	70	100
2	20RMSCBOT202	Genetics	Skill Development	4	30	70	100
3	20RMSCBOT203	Molecular Biology of Plants	Skill Development	4	30	70	100
4	20RMSCBOT204	Plant Development	Skill Development	4	30	70	100
5	20RMSCBOT205P	Practical: Theory Papers BOT 201 & 202	Skill Development	4	-	100	100



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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF BOTANY

Syllabus for M.Sc. Botany (2 Year Course) for V.S. University College, Kavali and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year – 2020-2021

6	20RMSCBOT206P	Practical: Theory Papers BOT 203 & 204	Skill Development	4	-	100	100
SEMESTER - III							
1	20RMSCBOT301	Plant Physiology and Metabolism	Skill Development	4	30	70	100
2	20RMSCBOT302	Plant Reproduction	Employability	4	30	70	100
3	20RMSCBOT303 & 304 (A)	Plant Ecology	Skill Development /Employability	4	30	70	100
4	20RMSCBOT303 & 304 (B)	Biodiversity and Conservation	Employability	4	30	70	100
5	20RMSCBOT303 & 304 (C)	Plant Resource Utilization	Employability	4	30	70	100
6	20RMSCBOT305	Practical: Theory Papers BOT 301 & 302	Skill Development	4	-	100	100
7	20RMSCBOT306	Practical: Theory Papers BOT 303 & 304 (A/B/C)	Skill Development	4	-	100	100
8	20RMSCBOT307	External Elective: Marine Plant Resources	Skill Development /Employability	4	-	100	100


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF BOTANY

Syllabus for M.Sc. Botany (2 Year Course) for V.S. University College, Kavali and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year – 2020-2021

SEMESTER - IV							
1	20RMSCBOT401	Plant Cell and Tissue Culture	Skill Development /Employability	4	30	70	100
2	20RMSCBOT402	Plant Genetic Engineering and Genomics	Skill Development /Employability	4	30	70	100
3	20RMSCBOT403 & 404 (A)	Molecular Plant Physiology	Skill Development /Employability	4	30	70	100
4	20RMSCBOT403 & 404 (B)	Phytomedicine	Skill Development /Employability	4	30	70	100
5	20RMSCBOT403 & 404 (C)	Applied Plant Pathology	Skill Development /Employability	4	30	70	100
6	20RMSCBOT405	Practical: Theory Papers BOT 401 & 402	Skill Development	4	-	100	100
7	20RMSCBOT406	Practical: Theory Papers BOT 403 & 404 (A/B/C)	Skill Development	4	-	100	100
8	20RMSCBOT407	External Elective: Organic Farming	Skill Development /Employability	4	-	100	100

V. Saibaba
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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF MATHEMATICS

Syllabus for M.Sc. Mathematics (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020-2021

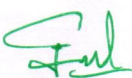
M.Sc. Mathematics

Programme Objectives:

To be a knowledge nerve center in Mathematics, Pure and Applied Research and industry requirements for creating sustainable infrastructure and enhancing quality of life
MISSION

- To offer globally-relevant, industry-linked, research-focused, technology-enabled seamless education at the postgraduate and research levels in various areas of Mathematical sciences keeping in mind that the manpower so spawned is excellent in quality, is relevant to the global scientific and technological needs, is motivated to give its best and is committed to the growth of the Nation;
- To develop and conduct continuing education programs for Science graduates with a view to update their fundamental knowledge base and problem-solving capabilities in the various areas of core specialization of the University;
- To develop comprehensive linkages with premier academic and research institutions within the country and abroad for mutual benefit.
- The main objective of this program is to cultivate a mathematical aptitude and nurture the interests of the students towards problem solving aptitude. Further, it aims at motivating the young minds for research in mathematical sciences and to train computational scientists who can work on real life challenging problems.

- **Duration:** M.Sc. Mathematics is a postgraduate level program offered by the Department of Mathematics, Vikrama Simhapuri University College, Kavali Nellore Dist.Andhra Pradesh. This is a 2-years program, consisting of four semesters with two semesters per year.
- **Program Code:** MSCMAT(Master of Science in Mathematics)
- **Eligibility:** B.A./B.Sc. or equivalent from a recognized university with Mathematics as one of the major subjects with at least 40% marks in aggregate


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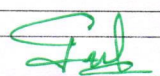


VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF MATHEMATICS

Syllabus for M.Sc. Mathematics (2 Year Course) for V.S. University Constituent College(s) and
Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from
the Academic Year 2020-2021

Programme Structure with Course titles:

S. No.	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship / Skill Development/ project/ Field work/Internship)	No. of credits	Internal Marks	External Marks	Total
Semester – I							
1	20RMSCMAT101	Algebra	Skill Development	5	20	100	120
2	20RMSCMAT102	Real Analysis	Skill Development	5	20	100	120
3	20RMSCMAT103	Ordinary Differential Equations	Skill Development	5	20	100	120
4	20RMSCMAT104	Discrete Mathematics	Skill Development	5	20	100	120
5	20RMSCMAT105	Complex Analysis	Skill Development	5	20	100	120
Semester – II							
1	20RMSCMAT201	Operation Research	Entrepreneurship	5	20	100	120
2	20RMSCMAT202	Galios Theory	Skill Development	5	20	100	120
3	20RMSCMAT203	Partial Differential Equations	Skill Development	5	20	100	120
4	20RMSCMAT204	Topology	Skill Development	5	20	100	120
5	20RMSCMAT205	Advanced Complex Analysis	Skill Development	5	20	100	120
SEMESTER – III							
1	20RMSCMAT301	Linear Algebra	Skill Development	5	20	100	120
2	20RMSCMAT302	Function Analysis	Skill Development	5	20	100	120
3	20RMSCMAT303	Differential Geometry	Skill Development	5	20	100	120
4	20RMSCMAT304A	Number Theory	Skill Development	5	20	100	120

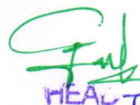

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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF MATHEMATICS

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5	20RMSCMAT304B	Programming and data structures	Skill Development	5	20	100	120
6	20RMSCMAT304C	Non commutative rings	Skill Development	5	20	100	120
7	20RMSCMAT305A	Classical Mechanics	Skill Development	5	20	100	120
8	20RMSCMAT305B	Algebraic Topology	Skill Development	5	20	100	120
9	20RMSCMAT305C	Internet and Html	Skill Development	5	20	100	120
SEMESTER – IV							
1	20RMSCMAT401	Commutative algebra	Skill Development	5	20	100	120
2	20RMSCMAT402	Numerical Analysis	Employability	5	20	100	120
3	20RMSCMAT403	Graph theory	Skill Development	5	20	100	120
4	20RMSCMAT404A	Fuzzy sets and fuzzy logic	Skill Development	5	20	100	120
5	20RMSCMAT404B	Approximation theory	Skill Development	5	20	100	120
6	20RMSCMAT404C	Banach Algebra	Skill Development	5	20	100	120
7	20RMSCMAT405A	Mathematical statistics	Skill Development	5	20	100	120
8	20RMSCMAT405B	Algebraic coding theory	Ski Development	5	20	100	120
9	20RMSCMAT405C	Computer networks	Skill Development	5	20	100	120


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF ZOOLOGY

Syllabus for M.Sc Zoology (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

PREAMBLE

Zoology is a major subject of Basic Sciences which deals with all aspects of animal biology. It includes an interesting range of highly diverse topics. The advancements in biological Sciences demands, a zoology student to be a master of many areas in the subject. This Postgraduate degree program has been designed by the Board of Studies in Zoology of Vikrama Simhapuri University with a tangible understanding of what is needed from zoologists and what zoologists need to pursue as a skilled career. It emulates closely the benchmark statement for biosciences and the guidelines laid down by the University Grants Commission, New Delhi. This Newly designed Curriculum is an appropriate blend of the classical aspects in Zoology which has been the "backbone" knowledge required for all zoologists and the recent and specialized areas. The flexibility in the Curriculum allows the students to choose their areas of interest leading to enhanced employability. Students will be provided sufficient number of hours for their skill development through the lab courses and the project component. The lab courses have differing flavours and priorities to make a good zoologist. This degree offers specialization in areas like Genetics, Animal Physiology and Animal Behaviour along with a range of core courses like Biochemistry, Molecular Biology, Comparative Animal Physiology, Developmental Biology etc. Various cross cutting issues relating to Environmental biology have been aptly included to develop the students' sense towards human wellbeing. The field trip/surveys and study tours are included to give the student an enticing taste of what life is especially outside the walls of the classroom. On successful completion of the programme, the students are expected to understand the key life processes of human and other animal groups, the functioning of molecules, cells, tissues, organs and systems. Also, the students will gain increased confidence to use initiative and judgement to make decisions in complex and changeable situations and reflect critically and analytically on personal experience and make informed decisions about further study, training and employment opportunities. The Master of Science (M.Sc.) in Zoology is a Postgraduate program under the Faculty of Science and Technology of Vikrama Simhapuri University. The curriculum designed encompasses subjects like Physiology, Behaviour, Genetics, Cell Biology, Developmental Biology, Endocrinology, Biochemistry, Molecular Biology, Wildlife Conservation Biology, Environmental Biology, Genetic Engineering, Aquaculture etc. Both classical and applied subjects of Zoology have been rightly blended to offer holistic understanding of the subject.

The Choice Based Credit System (CBCS) will be implemented through this curriculum. This curriculum would certainly felicitate students to develop a strong base of the fundamentals and specialize in the desired area of their fondness and abilities. The students pursuing this program would get a privilege to select optional subjects of their choice. A total of 240 hours for theory lectures and 120 hours for laboratory work have been prescribed in each semester including a dissertation to inculcate the research culture amongst students. This newly designed curriculum will allow students to acquire the skill in handling scientific instruments planning and performing in the laboratory and exercising critical judgement, independent thinking and problem-solving skills.

A. Govilraj

HEAD

Department of Zoology
V.S. University College
KAVALI - 524 291



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF ZOOLOGY

Syllabus for M.Sc Zoology (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

PROGRAM OBJECTIVES

1. Impart the students with higher level knowledge and understanding of contemporary trends in different aspects of Zoology.
2. Equip the students to evaluate and apply the Knowledge of Zoology and allied subjects to the understanding of complex life processes and phenomenon .
3. Design processes /strategies that meet the specified needs with appropriate consideration for the public health safety , cultural societal and environmental considerations.
4. Conduct investigations of complex problems , use research based Knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions in real situations.
5. Provide guidance to students to plan and undertake independent research in a chosen discipline.
6. Train the students on team work lifelong learning and continuous professional development.

PROGRAMME OUTCOMES

After successful completion of two year Post graduate Degree programme in Zoology ,the students would be able to

PO1	Knowledge Based: Gain the knowledge of Zoology through theory and practical
PO2	Problem Analysis:Acquire Knowledge about the concepts and Students would sufficiently be skilled and empowered to solve the problems in the area of Zoology and its allied areas..
PO3	:Investigation :Critically analyze the qualitative and quantitative data on contemporary issues in different fields of Zoology
PO4	Use of Tools: Learn about the application of Different statistical tools and techniques so as to arrive at suitable decision for the laboratory Experiments
PO5	Individual team work Have knowledge about the good laboratory practices and safety.
PO6	Communication Skills :Inculcate communication skills and learn interview participation techniques for acquiring proper placement.
PO7	Impacts of course as society and Environment:Understand the emerging trends in the different branches of Zoology especially Metabolism,Molecular Biology,Cell Biology,Microbiology and Immunology and their impact on society and demonstrate the knowledge required for sustainable development of Industry and service sector. Social Responsibility: Apply reasoning provided by the continual knowledge to assess societal legal and cultural issues and consequent responsibility relevant to Biophysical and Biochemical Techniques, Immunological Techniques, Zoological tools ,agriculture based and health related sectors. The broad skills and the deeper knowledge in the field would make the students highly successful and excellent researcher in advanced areas of biological sciences

PROGRAMME SPECIFIC OBJECTIVES

PSO1	Acquire knowledge in basic Zoological sciences and concepts in cell Biology immunological Techniques and different advanced techniques in Biology .
PSO2	Understand the value of Microbiology, Animal Biotechnology and Biodiversity and wild life conservation and also acquire skills in becoming zoologists.
PSO3	Acquire Knowledge in the field of Bioinformatics , Biostatistics and obtain skills in Microbiology and Animal Biotechnology.

J. Ganikar

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KAVALI - 524 201



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF ZOOLOGY

Syllabus for M.Sc Zoology (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

PROGRAMME STRUCTURE WITH COURSE TITLES:

S. No.	Course code	Course/Subject	Course Focus on (Employability/ Entrepreneurship/ Skill Development/ project/ Field work/Internship)	No. of credits	Internal Marks	External Marks	Total
Semester – I							
1	20RMSCZOO101	Invertebrata & Chordata	Skill Development	4	30	70	100
2	20RMSCZOO102	Cell Biology & Immunology	Skill Development	4	30	70	100
3	20RMSCZOO103	Animal Physiology & Endocrinology	Skill Development	4	30	70	100
4	20RMSCZOO104	Biophysical and Biochemical Techniques	Skill Development	4	30	70	100
5	20RMSCZOO105	Practical -I:ZOO-101&102	Skill Development	4	---	100	100
6	20RMSCZOO106	Practical -II:ZOO-103&104	Skill Development	4	---	100	100
Semester – II							
1	20RMSCZOO201	Genetics and Evolution	Skill Development	4	30	70	100
2	20RMSCZOO202	Molecular Biology	Employability/ Entrepreneurship	4	30	70	100
3	20RMSCZOO203	Chemistry of biomolecules	Employability/ Entrepreneurship	4	30	70	100
4	20RMSCZOO204	Developmental Biology	Skill Development	4	30	70	100
5	20RMSCZOO205	Practical -III:ZOO-201&202	Skill Development	4	---	100	100
6	20RMSCZOO206	Practical -IV:ZOO-203&204	Skill Development	4	---	100	100

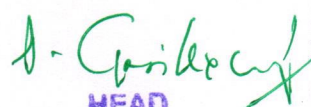
A. Gopinath
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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF ZOOLOGY

Syllabus for M.Sc Zoology (2 Year Course) for V.S. University Constituent College(s) and Affiliated Colleges under the jurisdiction of Vikrama Simhapuri University, Nellore with effect from the Academic Year 2020 – '21

Semester -III							
1	20RMSCZOO301	Environmental Biology & Biodiversity Conservation	Skill Development	4	30	70	100
2	20RMSCZOO302	Enzymology & Metabolism	Employability	4	30	70	100
3	20RMSCZOO303	Animal Biotechnology & Micro Biology	Employability/ Entrepreneurship	4	30	70	100
4	20RMSCZOO304	(A) Aquaculture	Employability/ Entrepreneurship	4	30	70	100
		(B) Animal Husbandry and Dairy Technology	Employability/ Entrepreneurship	4	30	70	100
5	20RMSCZOO305	Practical -V:ZOO-301&302	Skill Development	4	---	100	100
6	20RMSCZOO306	Practical -VI:ZOO-303&304	Skill Development	4	---	100	100
SEMESTER – IV							
1	20RMSCZOO401	Neurobiology and Animal Behavior	Skill Development	4	30	70	100
2	20RMSCZOO402	Applied Toxicology	Employability	4	30	70	100
3	20RMSCZOO403	Biostatistics and Bioinformatics	Employability	4	30	70	100
4	20RMSCZOO404	(A) Genetic Engineering	Skill Development	4	30	70	100
		(B) Wild life Conservation Biology	Employability	4	30	70	100
5	20RMSCZOO405	Practical -VII:ZOO-401&402	Skill Development	4	----	100	100
6	20RMSCZOO406	Practical -VIII:ZOO-403&404	Skill Development	4	----	100	100



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