



"Quality Education &
Excellent Training
for a Dream Career"



GEMS ARTS AND
SCIENCE COLLEGE
RAMAPURAM

CALENDAR
2022-23



GEMS ARTS & SCIENCE COLLEGE

An ISO 9001 : 2015 Certified Institution

(Affiliated To University Of Calicut And UGC Recognized

Under Section 2 (F) of UGC Act 1956)

(REGISTRATION NO :KL/2019/0242803 (NGO DARPAN) NITI AAYOG,
GOVERNMENT OF INDIA)

(A Project of Global Education & Management Studies Co-operative Ltd.,No.M.782.)

Kadungapuram (P.O), Malappuram Dist.

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CALENDAR 2022-2023

PERSONAL MEMORANDA

Name :

Roll No.:

Dept/Class :

DOB :

Blood Group :

Height :

Weight :

Address :

E-mail :

Phone No :

Mobile :

Insurance Policy No. :

Premium due date :

Bank A/C No :

Vehicle No. :

R.C. No :

Driving License No :

Passport No. :

Other details :

Name of Mentor :

In case of emergency, please contact :



PLEDGE

India is my country.
All Indians are my brothers and sisters.
I love my country and I am
proud of its rich and varied heritage.
I shall always strive to be worthy of it.
I shall give my parents,
teachers and all elders respect
and treat every one with courtesy.
I shall be kind to animals.
In the name of God,
I pledge my devotion to my country
and my people.
In their well-being and prosperity alone
lies my happiness.

NATIONAL ANTHEM

Jana gana mana adhinayaka jaya he
Bharata bhagya vidhata
Punjab Sindh Gujarat Maratha
Dravida Utkala Banga
Vindhya Himachala Yamuna Ganga
Uchala jaladhi tharanga
Tava shubha name jage
Tava shubha asisa mange
Gahe tava jaya gatha
Jana gana mangala dayaka jaya he
Bharata bhagya vidhata
Jaya he jaya he jaya he
jaya jaya jaya jaya he.

AT THE HELM

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VICE CHAIRMAN

Mr. M. Vasudevan 9496362639

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FIANSC, FISAgBc 9435052133

PRINCIPAL

Dr. Naveen Mohan 9605424465

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At a glance

- Biggest self financing College with 14 UG Courses and 6 PG Courses.
- Courses are designed with professional touch.
- College is under Co-operative sector.
- No capitation fee and donation.
- Admission based on merit (50% strictly on merit, 50% seat among the immediate relatives of share holders on merit basis).
- Fees levied is less than 10-15% approved by University and Govt.
- Top ranking students in each class are eligible for further reduction of fees.
- Weekly and Monthly comprehensive and continuous assessment.
- Well maintained Library.
- CCTV equipped campus.
- Community extension programmes.
- College is following mentor – mentee system.
- Certificate Course in Communicative English.
- Guidance and Counseling Centre

INNOVATIVE PROGRAMMES OF THE COLLEGE

MENTOR-MENTEE SYSTEM

GEMS Arts and Science College has started implementing Mentor-Mentee System with effect from the Academic Year 2016-17. This project was formally inaugurated by Dr. K. Muhammed Basheer, Vice Chancellor, University of Calicut. Mentoring is to help and support students to manage their own learning in order to maximise their potential, develop their skills, improve their performance and become the person they want to be. Mentorship is a personal developmental relationship in which a more experienced or more knowledgeable person help to guide a less experienced or less knowledgeable person. Mentoring is not teaching, instead the Mentee learns a lot through the interaction with the mentor. We could learn that the Mentor-Mentee System as contributed a lot not only in improving the academic excellence but also developing the social atmosphere of the college. We are planning to strengthen Mentor-Mentee System in future also.

CERTIFICATE COURSE IN COMMUNICATIVE ENGLISH

GEMS Arts And Science College has started Certificate Course in Communicative English as an add on course for the benefit of the students with the support and co-operation of the teachers of the college with effect from the academic year 2016-17. About 200 students have come forward to join in this course. We have divided them into batches of 25 students for transacting the curriculum systematically and effectively. The experience and inspiration generated by the course motivated us to duplicate the programme in the year 2017-18 and 2018-19

BRIEF HISTORY OF THE COLLEGE

The Global Education & Management Studies (GEMS) is formed under the Co-operative Societies Act with the objective of eliminating education backwardness of Malappuram District in general and Mankada Assembly Constituency in particular by providing quality higher education affordable. It is an endeavour of the society to provide world class higher education in the emerging new generation areas by making use of the advanced technologies and strategies in education and thereby equip the students to face the challenges in life and prepare them for the highly competitive job market. GEMS Arts and Science College, the first institution under GEMS started in the academic year 2008-09, has now grown into an outstanding institution with 14 Degree courses and 5 P.G. courses and with superb infra structural facilities. GEMS, the embodiment of the dream of people striving for quality education, will make its mark in the field in coming years.

OUR VISION

To become a premier institution known for its excellence in academic, intellectual activities and for its valuable contributions to the students and society.

OUR MISSION

To make GEMS unique in terms of excellence in education and service to society. To impart state of the art knowledge to students and to inculcate in them a high degree of social consciousness and human values and there by enabling them to face the challenges of life with courage and determinations.

PROGRAMMES OFFERED

The college offers the following programmes of study :

PG Programmes

1. M.A. English
2. M. Com
3. MSW
4. M.Sc Microbiology
5. M.Sc Geology
6. M.Sc General Biotechnology

UG Programmes

- 1 B.A English, Complementaries : Journalism & Audio Visual Communication
2. B.M.M.C. Bachelor of Multimedia Communication / B A Multimedia
3. B.Sc Computer Science, Complementaries:& Electronics
4. B.Sc Biotechnology, Complementaries : Chemistry and Environmental Biotechnology
5. B.Sc Microbiology, Complementaries : Biochemistry, Biostatistics & Computer Application
6. B.Sc Mathematics, Complementaries : Statistics & Computer Application
7. B.C.A
8. B.B.A
9. B.Com Computer Application
10. B.Com Finance
11. B.Com Co-operation
12. B.A Sociology, Complementaries : General Psychology, Indian Constitution & Politics
13. B.Sc Geology, Complementaries : Chemistry and Statistics
14. B T T M

GEMS Arts and Science College, which is a self-financing institution and affiliated to the University of Calicut, offers courses in the following disciplines:

POST GRADUATE PROGRAMMES

Masters course in COMMERCE.

We offer a two year full time M.Com. Programme with a motive of providing more practical inputs to the students to meet the needs of business and industry in India and at the global level. The course has been designed with specialization in Financial Market, Security Analysis, Portfolio Management and Strategic Financial Management and Financial Derivatives. The thrust of the course is on areas like International Business, Information Technology and Industrial Training. Our students will have an edge over others in employment opportunities as they would be well equipped to meet the challenges of the Corporate sector.

PG DEPARTMENT OF COMMERCE

M. COM FINANCE

SEMESTER I				
Sl No.	Course Code	Name of the Paper	Credits	Course Outcome
1	MCM1C01	BUSINESS ENVIRONMENT & POLICY	4	CO1: To familiarise students with the concepts of macro-economics in which a Business organization operates. CO2: To give an idea about the policies of the government and assess their impact on business.
2	MCM1C02	CORPORATE GOVERNANCE & BUSINESS ETHICS	4	CO1: To familiarise the students with the knowledge of corporate ethics CO2: To enable the students to understand the emerging trends in good governance practices. CO3: To create corporate financial reports in the global in the global and Indian context.
3	MCM1C03	QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS	4	CO1: To acquaint students with important quantitative techniques, which enable sound business decisionmaking CO2: To make students learn the process of applying appropriate quantitative techniques for validating findings and interpreting results.

Sl No.	Course Code	Name of the Paper	Credits	Course Outcome
4	MCM1C04	MANAGEMENT THEORY & ORGANISATIONAL BEHAVIOUR	4	<p>CO1: Understand the basic concepts about different concepts and principles of management</p> <p>CO2: Understand and acquire the knowledge about basic psychological process-perception, leaning and personality</p> <p>CO3: Understand and acquire skill about group dynamics, term management, power and politics in organizations and organizational development</p>
5	MCM1C05	ADVANCED MANAGEMENT ACCOUNTING	4	<p>CO1: To enable students to understand and apply tools, techniques, and concepts in managerial decision-making process.</p> <p>CO2: To inculcate analytical skills in interpreting and diagnosing business problems</p>
SEMESTER II				
Sl No.	Course Code	Name of the Paper	Credits	Course Outcome
1	MCM2C06	ADVANCED CORPORATE ACCOUNTING	4	<p>CO1: To provide knowledge and skills in the theory and practice of corporate financial accounting</p> <p>CO2: To provide insight in to some of the important accounting standards of IFRS /Ind AS</p> <p>CO3: To enable problem solving abilities among students in matters of various corporate situations such as consolidation of group information, corporate restructuring and liquidation</p>

Sl No.	Course Code	Name of the Paper	Credits	Course Outcome
2	MCM2C07	ADVANCED STRATEGIC MANAGEMENT	4	<p>CO1:To understand strategic management process and to provide basic idea about social and ethical issues</p> <p>CO2:To understand and evaluate the environment analysis and SWOC</p> <p>CO3:To evaluate the strategic option at corporate level and the different growth strategies</p> <p>CO4:To understand the strategy implementation and different approaches in planning and allocating resources</p> <p>CO5:To apply and evaluate strategy evaluation tool and technique used and process with case studies</p>
3	MCM2C08	STRATEGIC COST ACCOUNTING	4	<p>CO1:To enable the students to know the applications of Cost accounting tools, Techniques and concepts in managerial decision-making process.</p> <p>CO2:To provide students adequate knowledge of cost management and control techniques and to enable them to apply these for managing business</p>
4	MCM2C09	INTERNATIONAL BUSINESS	4	<p>CO1:To enable the students to know the applications of Cost accounting tools, Techniques and concepts in managerial decision-making process.</p>
5	MCM2C10	MANAGEMENT SCIENCE	4	<p>CO1:To familiarize students with concepts of management science and tools supporting decision making</p> <p>CO2:To enable students to apply Management science techniques in appropriate decision situations.</p>

SEMESTER III				
Sl No.	Course Code	Name of the Paper	Credits	Course Outcome
1	MCM3C11	FINANCIAL MANAGEMENT	4	<p>CO1:To acquaint the students with the basic analytical techniques and methods of financial management of business organization.</p> <p>CO2:To provide the students the exposure to certain advanced analytical techniques that are used for taking financial policy decisions.</p>
	MCM3C12	INCOME TAX LAW, PRACTICE & TAX PLANNING	4	<p>CO1:To enable students to understand computation of income under various heads, taxable income of various entities, tax planning and procedure of assessment.</p>
	MCM3C13	RESEARCH METHODOLOGY	4	<p>CO1:To acquaint students with process and methodology of research To enable students to identify research problems, collect and analyse data and present results</p>
	MCM3E01	INVESTMENT MANAGEMENT	4	<p>CO1:To establish a conceptual framework for the study of security analysis and portfolio management.</p> <p>CO2:This course will provide the students the ability to understand and utilize the skill of optimizing returns.</p>
	MCM3E02	FINANCIAL MARKETS & INSTITUTIONS	4	<p>CO1:To provide the students a sound information and knowledge of broad framework of financial markets and institutions.</p> <p>CO2:To impart the students an understanding of the inter-linkages and regulatory framework within which the system operates in India</p>

SEMESTER IV				
Sl No.	Course Code	Name of the Paper	Credits	Course Outcome
1	MCM4C14	FINANCIAL DERIVATIVES & RISK MANAGEMENT	4	CO1: To make the students efficient in the area of derivatives, by giving them the knowledge of basics in options, futures, swaps etc.
2	MCM4C15	INCOME TAX LAW, PRACTICE & TAX PLANNING II	4	CO1: To acquaint the students with theoretical and practical knowledge of assessment and tax planning of different assesses. CO2: To familiarize the students with major and latest provisions of the India tax laws and related judicial pronouncements pertaining to various assesses with a view to derive maximum possible tax benefits admissible under the law.
3	MCM4E03	INTERNATIONAL FINANCE	4	CO1: To understand the concept and significance of international finance CO2: To understand the international financial markets and exchange theories To get an idea about foreign exchange exposure and risk management
4	MCM4E04	ADVANCED STRAGIC FINANCIAL MANAEMENT	4	CO1: To build an understanding among students about the concepts, vital tools and techniques used for financial decision making by a business firm.

Masters Course in English

The Masters course in English Language and Literature is the latest addition to a host of new generation courses offered here and the M.A. syllabus consists of an assortment of modules like: Writing for the Media, Film Studies, and Teaching of English, which gives variety and openness to cater to the varied tastes of students from different streams. Added benefits to this is the fact that the programme, with such subjects in combination offers much scope by opening up new avenues for the aspirants in English Language and Literature: opportunities in the field's of news reporting, editing, proof reading, advertisement, translation, public relations, content writing, not to mention teaching and research.

**PG DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE
PROGRAMME : M.A. ENGLISH
PROGRAMME OUTCOMES (POs):**

- PO1 : The students are expected to develop both an understanding of the cultures represented by the literatures discussed and abilities of critical thinking.
- PO2 : The courses on marginalized discourses promote values-based thinking.
- PO3 : The Project/Dissertation in the Fourth Semester is expected to be a window to research/project writing for prospective research scholars and professionals.
- PO4 : The elective course on Teaching of English is directly career-oriented.

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
ENG1CO1	BRITISH LITERATURE FROM CHAUCER TO 18TH CENTURY	5	CO1: To get a comprehensive view of British Literature from the Fourteenth to the Eighteenth Century. CO2: To get an outline of British social and cultural history during the period.
ENG1 CO2	BRITISH LITERATURE- 19TH CENTURY	5	CO1: To get an outline of the vast body of British Literature in the Nineteenth Century, looking into trends, movements and influences. CO2: To get an outline of British social and cultural history during the period, examining how social transition is represented/refracted in literature.
ENG1CO3	HISTORY OF ENGLISH LANGUAGE	5	CO1: to get a historical perspective of the English Language in general and to create awareness about the evolution of human language. CO2: To develop critical thinking on a variety of topics like multi culturalism, power relations in evolution of languages, the dynamics of language change and principles of political correctness in language policy.
ENG1 C04	INDIAN LITERATURE IN ENGLISH	5	CO1: To trace the emergence and evolution of Indian Writing in English from the early colonial phase to the modern phase. CO2: To explore the cross pollination this cultural and aesthetic engagement entails.

SEMESTER II			
Course Code	Paper Name	Credits	Course Outcome
ENG2C05	TWENTIETH CENTURY BRITISH LITERATURE UP TO 1940	5	<p>CO1: To familiarize themselves with the major trends, movements and authors in British literature in the first half of the Twentieth Century.</p> <p>CO2: To undertake an inquiry/research in the area by brief discussions on comparable texts in European literatures which represent the various phases of Modernism.</p>
ENG2C06	Literary Criticism and Theory – Part 1 (Up to New Criticism)	5	<p>CO1: To enable themselves to develop a critical acumen rooted in a strong awareness of the historical trajectory of critical thought in western and non-western contexts.</p> <p>CO2: To engage themselves with the central aesthetic concepts in Sanskrit critical tradition.</p> <p>CO3: To read the seminal primary texts from the ancient Greek civilization to new criticism in the beginning of the twentieth century, relating them to the social and historical conditions in which they have been written and practiced and to the contemporary cultural and political contexts in which they are being studied and discussed</p>
ENG2C07	American Literature	5	<p>CO1: To familiarize themselves with the maturing phase of American literature in the early Nineteenth Century to its evolution till the end of the Twentieth century.</p> <p>CO2: To focus on the emergence of a distinct American style and the writing of American ethos in American literature</p>
ENG2 C08	Postcolonial Writings	5	<p>CO1: To get an overview of the historical experience of colonization and its impacts on the colonized peoples across the globe, through the medium of literary writings.</p> <p>CO2: To acquaint themselves with the major theoretical concepts associated with postcolonial studies as manifested through the literary discourse in the works under consideration.</p> <p>CO3: To familiarize students with questions of resistance and representation, the politics language and literary form, and the quests for identity, autonomy and self-determination that mark postcolonial literary expression.</p>

AUDIT COURSE			
Course Code	Paper Name	Credits	Course Outcome
ENG2 A02	TRANSLATION THEORY AND PRACTICE	4	<p>CO1:To familiarize themselves with the core of translation theory and some of the current theoretical positions, and at offering training in translation and interpretation of literary and non-literary texts.</p> <p>CO2: To obtain a general understanding of the current debates in the discipline.</p>
SEMESTER III			
Course Code	Paper Name	Credits	Course Outcome
ENG3C09	TWENTIETH CENTURY BRITISH LITERATURE POST 1940	4	<p>CO1:To get a comprehensive picture of British literature written after 1940</p> <p>CO2: To find the course a mapping of British culture and society during the period for the learners.</p>
ENG3C10	LITERARY CRITICISM AND THEORY- PART 2	4	<p>CO1: To read literary and critical texts with judicious appreciation and build up the competence to generate and articulate personal responses to literary and critical texts</p>
ELECTIVES			
Course Code	Paper Name	Credits	Course Outcome
ENG3 E02	EUROPEAN FICTION IN TRANSLATION	4	<p>The students are expected to get a historical perspective of European fiction and glimpses into European culture and society across the centuries.</p>
SEMESTER III			
Course Code	Paper Name	Credits	Course Outcome
ENG3 E07	WORLD DRAMA	4	<p>CO1: get a historical perspective about world drama and how the themes are linked to contemporary culture and politics.</p> <p>CO2:To make them aware of the changes in the perceived function of drama from the classical Greek theatre to the Epic theatre of the Twentieth Century.</p>

SEMESTER IV			
Course Code	Paper Name	Credits	Course Outcome
ENG4C11	ENGLISH LITERATURE IN THE 21ST CENTURY	4	CO1: To become aware of the multicultural nature of writings in English in the contemporary world and of how English serves as a vehicle for rumination and resistance for writers who come from diverse linguistic communities.
ENG 4 P01	DISSERTATION/ PROJECT	4	CO1: To explore the research aptitude of the learners and give them the much-needed background information and experience for taking up research programmes or professional assignments.
ELECTIVES			
Course Code	Paper Name	Credits	Course Outcome
ENG4 E12	LITERATURE AND ECOLOGY	4	CO1: To expose students to the scopes of green poetics and green cultural studies through a variety of ecologically conscious literary works. CO2: To prepare students to contemplate environmental ethics. CO3: To equip the learner to improve understanding of current global environmental issues. CO4: To build an interdisciplinary research outlook among students of English literature.
ENG4E14	INDIAN ENGLISH FICTION	4	CO1: to trace the trajectory of Indian English fiction from the first half of the Twentieth Century to the beginning of the Twenty-First Century.

Masters Course in Social Work

As the society today becomes more and more complex in its working, the prime slogan of the present world is: the survival of the fittest. This has increased the number of helpless, deprived and disadvantaged and here lies the relevance of social work as a profession. Social work utilizes resources to sort out the problems of such marginalized people and try to alleviate their pain and sufferings. There are ample job opportunities for MSW degree holders in governments and in non-governmental as well as in voluntary sectors. This course has great job potential in the modern context as it involves experiential knowledge through regular field work which is the hallmark of modern knowledge acquisition.

**POST GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIOLOGY
PROGRAMME: MASTER OF SOCIAL WORK (MSW)
COURSE OUTCOMES (COs)**

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
SOW 1 C 01	HISTORY, PHILOSOPHY AND FIELDS OF SOCIAL WORK	4	<p>CO1-Outline the history of Social work and Social Work education and its place in the context of other related concepts</p> <p>CO2-Explain the philosophical assumptions and values of Social Work and the sources of social work Philosophy</p> <p>CO3-Apply social work values while working with various client groups</p> <p>CO4-Explain the different perspectives in Social Work and evaluate their relative relevance/ applicability in different practice contexts</p> <p>CO5-Describe the basic concepts, methods and functions of Social Work and roles and skills of a professional social worker</p> <p>CO6-Apply the Code of Ethics and describe the attributes of Social Work as a profession.</p> <p>CO7-Identify the various fields of Social Work</p>
SOW I C 02	SOCIOLOGY AND ECONOMICS FOR SOCIAL WORK PRACTICE	4	<p>CO1-Describe the important sociological perspectives and theories</p> <p>CO2-Explain the basic concepts in Sociology and Economics</p> <p>CO3-Analyse major social and economic problems</p>
SOW1 C 03	HUMAN GROWTH AND DEVELOPMENT	4	<p>CO1- Describe the definition, nature and scope of Psychology</p> <p>CO2- Explain the general concepts in Psychology</p> <p>CO3- Evaluate the theories and principles of development</p> <p>CO4- Examine the life span approach and development through different stages</p>
SOW I C 04	PROFESSIONAL SKILLS FOR SOCIAL WORKERS	4	<p>CO1- Explain the concepts of self, self ,Self awareness, self concept, self esteem, self image and self acceptance</p> <p>CO2- Demonstrate the various techniques of understanding oneself</p> <p>CO3-Demonstrate the relationship, communication and leadership skills required for social workers</p> <p>CO4- Apply ICT in social work practice</p>

Course Code	Paper Name	Credits	Course Outcome
SOW I C 05	SOCIAL LEGISLATION AND HUMAN RIGHTS	4	<p>CO1-Explain the Legal system in India and the process of making social legislation</p> <p>CO2-Describe Social Legislation as an instrument for Social Control, Social Security, Social change, Social justice and Social Policy</p> <p>CO3-Explain human rights and organizations to protect human rights</p> <p>CO4-Outline the legislations for the protection of children, women, aged and other vulnerable groups and statutory bodies involved in their implementation</p> <p>CO5-Identify the role of Social Workers in the field of Social legislation and Human rights</p>
SOW I L 01	CONCURRENT FIELD WORK	4	<p>CO1-Engage with individuals, families, groups, organizations, and communities</p> <p>CO2-Identify both agency and clients as systems and describe the administrative procedures, programme management.</p> <p>CO3-Explain the problems of marginalized individuals, groups and communities</p> <p>CO4-Identify the functioning and programmes of governmental and nongovernmental organizations involved in welfare and developmental activities for vulnerable groups.</p> <p>CO5-Acquire skills in communication – presentation and reporting of observed realities, documentation, writing field work reports and public relation skills</p>
SEMESTER II			
Course Code	Paper Name	Credits	Course Outcome
SOW2 C06	SOCIAL CASE WORK	4	<p>CO1-Explain the theoretical framework and core values for the practice of social case work</p> <p>CO2-Assess and diagnose the problems of individuals</p> <p>CO3-Plan intervention for individuals with problems</p> <p>CO4-Develop skills in liaisoning, networking and mobilizing resources for the rehabilitation of individuals with problems</p>

Course Code	Paper Name	Credits	Course Outcome
SOW2 C 07	SOCIAL GROUP WORK	4	<p>CO5-Acquire skills for recording and documentation of interventions</p> <p>CO1-Explain the theoretical framework for the practice of Social Group Work</p> <p>CO2-Describe the group work process</p> <p>CO3-Assess and diagnose problems and plan group work for individuals in groups</p> <p>CO4- Analyze the applications of SGW in various settings</p>
SOW2 C 08	COMMUNITY ORGANISATION AND SOCIAL ACTION	4	<p>CO1- Describe the basic concepts of community, community functions and community dynamics</p> <p>CO2- Apply the values of community organization and social action</p> <p>CO3- Explain the process, theoretical framework and models of Community Organisation</p> <p>CO4- Use strategies and skills in community organization and social action</p> <p>CO5- Practice community organization in different contexts</p>
SOW2 C 09	PSYCHOLOGY FOR SOCIAL WORK	4	<p>CO1- Explain the definition, nature and scope of Social Psychology</p> <p>CO2- Explain the concepts of attitude, social perception and social cognition</p> <p>CO3- Describe the nature, functions and concepts of group</p> <p>CO4- . Outline the aspects of social influence, theoretical perspectives and features of prosocial behaviour and aggression</p> <p>CO5- Evaluate the relevance of propaganda and collective behavior</p> <p>CO6- Explain the concept of mental health, mental health issues and Biopsychosocial model of mental health and mental disorders</p>
SOW2 C 10	THEORY AND PRACTICE OF COUNSELLING	4	<p>CO1- Explain the concept and process of counselling and its elements</p> <p>CO2- Differentiate counselling from Social Case Work, Guidance and Psychotherapy</p> <p>CO3- Determine the application of theories in counseling</p> <p>CO4- Demonstrate the ability to practice counselling in various setting</p>

Course Code	Paper Name	Credits	Course Outcome
SOW2 L02	CONCURRENT FIELD WORK3	4	CO1 -Practice Social Case Work CO2 -Practice Social Group Work. CO3 -Practice Community Organization and other macro level interventions. CO4 -Develop skills in reporting, documentation and dissemination. CO5 -Identify as a professional social worker and conduct accordingly
SEMESTER III			
Course Code	Paper Name	Credits	Course Outcome
SOW3 C 11	QUANTITATIVE AND QUALITATIVE METHODS FOR SOCIAL WORK RESEARCH	4	CO1 - Describe the significance and characteristics of social work research CO2 - Explain the process of social work research CO3 - Demonstrate the ability to use various quantitative and qualitative research methods CO4 - Explain the meaning of descriptive and inferential statistics CO5 -Determine the application of statistical techniques in social work research CO6 -Demonstrate the ability to undertake research projects in social sciences and prepare scientific reports
SOW3 C 12	PARTICIPATORY PROJECT PLANNING AND TRAINING	4	CO1 - Explain relevant theoretical frame work of project preparation and its various stages CO2 -Demonstrate skills in preparation, management and evaluation of development projects CO3 - Design and implement participatory training programme CO3 - Use participatory training methodologies for social work interventions
SOW3 C 13	COMMUNITY HEALTH	4	CO1 - Explain the concept of Community health and related terminologies CO2 - Describe the concept of health and integrated approach to health in the context of Development CO3 - Analyze plans and policies/legislations in health and implications for social work practice CO4 - Identify the public health issues and needs facing the country and design social work interventions CO5 - . Outline the Health Care system in India and its administration pattern

Course Code	Paper Name	Credits	Course Outcome
SOW3 E1 01 (Elective -1 -M&PSW)	HEALTH CARE SOCIAL WORK	4	<p>CO1- Describe the history and scope of Health Care social Work</p> <p>CO2- Demonstrate the ability to do psycho-social assessment of persons with health issues</p> <p>CO3- Identify the role and functions of social workers in the health care settings.</p> <p>CO4- Determine the application of theories and approaches in health care social work</p> <p>CO5- Identify the ethical practice in healthcare social work</p>
SOW3 E2 01 (Elective-2 -R&UCD)	RURAL COMMUNITY DEVELOPMENT AND GOVERNANCE	4	<p>CO1- Analyse the condition of rural and tribal communities in India in terms of social and economic development</p> <p>CO2- Analyse the challenges faced by the rural and tribal communities.</p> <p>CO3- Explain the concept, philosophy and principles of Rural Community development and the programmes and services in the governmental and voluntary sector for rural communities</p> <p>CO4- Outline the structure functions and role of PRIs in community development</p> <p>CO5- Identify the scope of social work interventions in rural communities</p>
SOW3 E1 02 (Elective-1- M&PSW)	SOCIAL WORK IN MENTAL HEALTH SETTINGS	4	<p>CO1- Explain Classification in Psychiatry</p> <p>CO2- Describe psychiatric interviewing and assessment in Psychiatry</p> <p>CO3- Describe Epidemiology, Clinical Manifestation, treatment and outcome of major psychiatric disorders</p> <p>CO4- Identify the role of psychiatric social worker in psycho social interventions</p> <p>CO5- Practice Psycho Social Interventions and Multidisciplinary team approach in the field of mental health</p> <p>CO6- Apply social work methods in mental health settings</p>

Course Code	Paper Name	Credits	Course Outcome
SOW3 E2 02(Elective -2- R&UCD)	URBAN COMMUNITY DEVELOPMENT AND GOVERNANCE	4	<p>CO1- Explain the urban communities and the processes like urbanization and its impact on social conditions</p> <p>CO2- Analyse the challenges faced by urban communities with focus on vulnerable populations</p> <p>CO3- Describe the concept, philosophy and principles of Urban Community development and the programmes and services in the governmental and voluntary sector for urban communities</p> <p>CO4- Identify the structures and institutions for urban governance</p> <p>CO5- Describe the scope of social work interventions in rural communities</p>
SOW3 L03	CONCURRENT FIELD WORK	4	<p>CO1-Practice Social Work in medical and psychiatric settings / urban and rural communities/family and child welfare settings</p> <p>CO2-Develop skills in observing, analyzing, evaluating and creating innovative social work interventions.</p> <p>CO3-Develop documentation and reporting skills</p> <p>CO4-Identify as a professional social worker and conduct oneself accordingly</p> <p>CO5-Conduct seminars, workshops and training programmes for different client groups</p>
SEMESTER IV			
SOW4 C 14	ADMINISTRATION OF HUMAN SERVICE ORGANIZATIONS	4	<p>CO1-Explain the concepts in administration and administration as a method of Social work</p> <p>CO2-Describe the procedure of registering trust, society, CBO, NGO and NPO.</p> <p>CO3-Outline the social welfare programmes of Ministry of women and child development, Ministry of rural development, Ministry of urban development, Panchayati Raj, Central social welfare board and State social welfare board.</p> <p>CO4-Explain HRM and its process</p> <p>CO5-Describe the concept of organizational behavior and theories of motivation and leadership</p> <p>CO6-Explain the problems in organizations and grievance redressal mechanisms</p>

Course Code	Paper Name	Credits	Course Outcome
SOW4 C 15	SOCIAL WORK WITH VULNERABLE GROUPS	4	<p>CO1-Explain the concepts-Vulnerability, Exclusion, Marginalization, At-risk, disadvantaged and Stigmatization</p> <p>CO2- Describe major issues and vulnerabilities faced by different vulnerable groups</p> <p>CO3- Evaluate the policies and welfare programmes for vulnerable groups in India</p> <p>CO4- Describe the approaches and strategies of social work with them</p> <p>CO5- Apply social work principles, skills and methods in helping vulnerable groups</p>
SOW4 E1 03 (Elective-1-M&PSW)	THERAPEUTIC APPROACHES IN MEDICAL AND PSYCHIATRIC SETTINGS.	4	<p>CO1-Explain the concept of psychotherapy and different types of therapies</p> <p>CO2- Describe Cognitive and behaviour therapies, Humanistic and existential therapies and techniques</p> <p>CO3- Explain Family Therapy and techniques of practice used in family therapy</p> <p>CO4- Explain other psychosocial therapies</p> <p>CO5- Explain the role of Yoga and meditation, mindfulness based stress reduction, motivational enhancement therapy in stress reduction</p>
SOW4 E2 03 (Elective-2-R&UCD)	ENVIRONMENTAL STUDIES AND DISASTER MANAGEMENT	4	<p>CO1- Explain the basic concepts in environment studies</p> <p>CO2- Identify the policies and approaches and problems in the sustainable management of natural resources</p> <p>CO3- Analyse the environment problems and impact of development initiatives.</p> <p>CO4- Outline the national and international measures to deal with environment issues</p> <p>CO5-Explain the process of disaster management</p> <p>CO6- Practice social work in dealing with environmental problems and in disaster management</p>

Course Code	Paper Name	Credits	Course Outcome
SOW4 EI 04 (Elective-1- M&PSW)	SOCIAL WORK PRACTICE WITH FAMILIES	4	<p>CO1- Describe the conceptual framework related to marriage and family and characteristics of family life cycle</p> <p>CO2- Identify models of family dynamics and family assessment</p> <p>CO3- Explain the process of family social work</p> <p>CO4- Explain the history, concepts and techniques of family therapy</p> <p>CO5- Practice family therapy in contexts including Family Counselling Centres, Family Courts, Family welfare Clinics, Adoption and Foster Care Agencies, and Family Violence</p>
SOW4 E2 04 (Elective-2- R&UCD)	SOCIAL WORK PRACTICE AND GENDER		<p>CO1- Explain concepts and theories related to gender</p> <p>CO2- Analyse the status of women with respect to health, education, political participation, representation in media and law and appreciate the gaps therein</p> <p>CO3- Describe gender based violence and measures to combat violence</p> <p>CO4- Analyse gender issues using gender analysis frame woks</p> <p>CO5- Explain the theoretical frame work for feminist social work</p> <p>CO6- Practice social work with women in different contexts using Gender Aware therapy, Feminist counselling, building collectives, education, advocacy and assertiveness training</p>
SOW4 L 04	CONCURRENT FIELD WORK	3	<p>CO1-Practice Social Work methods in specialized settings.</p> <p>CO2-Develop skill in documentation, dissemination and recording of Social Work interventions</p> <p>CO3-Develop innovative models for Social Work interventions</p> <p>CO4-Identify and manage ethical dilemmas while practicing Social Work.</p> <p>CO5-Critical reflection of Social Work practice</p>

Course Code	Paper Name	Credits	Course Outcome
SOW4 L 05	BLOCK FIELD WORK	4	CO1 -Develop independent practice competency to work as professional social worker CO2 -Apply critical thinking to inform and communicate professional judgments CO3 -Engage in research informed practice and practice informed research CO4 -Apply knowledge of human behaviour and the social environment and understand diversity and difference in practice.
SOW 4 P01	DISSERTATION	4	CO1 -Formulate Social Work research proposal CO2 -Develop independent practice competency to conduct Social Work research CO3 -Apply qualitative and quantitative research methods in Social Work Practice

M.Sc Geology

Geology is the study of earth science. which include its origin, structure, composition and age. It also includes energy, water, Manual resources, environment, climate change and natural hazards like landslide volcanism, Earthquake, Flood and Tsunami.

In our society, geology student can work in the field of GSI (Geological survey of India), ONGC (Oil and Natural Gas Corporation) CIL (Coal India Limited), KMML (Kerala Mineral and Metals Ltd.), CWRD (Centre for Water Revenue Development and Management) It also ample opportunities in State, Central and abroad.

POST GRADUATE DEPARTMENT OF APPLIED GEOLOGY

MSc. APPLIED GEOLOGY PROGRAMME OUTCOMES (POs)

PO1. Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

PO2. Problem Solving: Understand and solve problems of relevance to society to meet the specified needs using the knowledge, skills and attitudes acquired from humanities/ sciences/mathematics/social sciences.

PO3. Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO4. Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO5. Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

PO6. Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

COURSE OUTCOMES (COs)

SEMESTER 1			
Course Code	Paper Name	Credits	Course Outcome
GEL1C01	PHYSICAL GEOLOGY & GEOMORPHOLOGY	4	<p>CO1:The student will be able to discuss and explain about the origin and evolution of earth, earth's various layers and their properties.</p> <p>CO2:The student will be able to demonstrate the role of various geological agents and illustrate the landscape evolution.</p> <p>CO3: The student will be able to explain the geological significance, classification and mode of formation of wetlands.</p> <p>CO4:The student will be able to describe the geomorphology of Kerala and India.</p> <p>CO5:The student will be able to apply the principles of geomorphology in Civil Engineering, Hydrogeology, and Environmental Studies.</p>
GEL 1C 02	STRUCTURAL GEOLOGY & GEOTECTONICS	4	<p>CO1:The student will be able to demonstrate the geological mapping skills in any terrain</p> <p>CO2:The student will be able to illustrate the stress and strain concepts with the help of graphical representations.</p> <p>CO3:The student will be able to explain the relationship between various structural features and the processes responsible for their formation.</p> <p>CO4:The student will be able to illustrate the various tectonites and shear sense indicators</p> <p>CO5:The student will be able to describe tectonic evolution of Earth's continental crust.</p> <p>CO6:The student will be able to explain the plate tectonic system in earth, plate kinematics, and geodynamic evolution of Indian plate.</p>

Course Code	Paper Name	Credits	Course Outcome
GEL 1C 03	GEO- INFORMATICS	4	<p>CO1:The student will be able to explain the fundamentals of aerial photography and remote sensing.</p> <p>CO2:The student will be able to discuss electromagnetic spectrum, resolution concepts, various sensors, and Indian remote sensing satellite missions.</p> <p>CO3:The student will be able to explain the fundamentals of digital image processing and classification, thermal and microwave remote sensing.</p> <p>CO4:The student will be able to apply the remote sensing techniques in mineral exploration, ground water exploration, land use/land cover mapping and geomorphology</p> <p>CO5:The student should be able to explain the working principles of Geographic Information System.</p> <p>CO6:The student should be able to explain the GIS Applications in urban planning, groundwater studies, mineral exploration, disaster management, climate change analysis</p>
GEL 1C 04	STRATIGRAPHY & INDIAN GEOLOGY	4	<p>CO1:The student will be able to explain Stratigraphic principles and evolution, recent developments in stratigraphic classification and major geological events during the different periods of earth history.</p> <p>CO2:The student will be able to demonstrate the Indian Geology with particular reference to Precambrian and Phanerozoic stratigraphy and stratigraphic boundary problems.</p>
GEL 1L 01	GEO- MORPHOLOGY, STRUCTURAL GEOLOGY, GEO- INFORMATICS	4	<p>CO1:The student will be able to apply the principles of geomorphology, structural geology and Geoinformatics in problem solving and map interpretation.</p>

SEMESTER II			
Course Code	Paper Name	Credits	Course Outcome
GEL2C05	CRYSTALLOGRAPHY & MINERALOGY	4	<p>CO1:The student will be able to explain the basic laws of crystallography, application of X-ray crystallography and stereographic projection of crystals.</p> <p>CO2:The student will be able to describe the various crystal notations and derivation of the crystal classes with symmetry elements.</p> <p>CO3:The student will be able to distinguish the minerals based on their optical properties such as sign of elongation, order of interference colour and also on conoscopic observations.</p> <p>CO4:The student will be able to discuss the Earth mineralogy.</p> <p>CO5:The student will be able to describe the structure, chemistry, physical, optical characters of important rock forming minerals.</p>
GEL2C06	ECONOMIC GEOLOGY	4	<p>CO1:The student will be able to illustrate the important properties of ore minerals under the ore microscope.</p> <p>CO2:The student will be able to describe the various theories of ore genesis and association of rock types and ore minerals.</p> <p>CO3: The student will be able to explain the genetic classification of U and Th deposits, Strategic, critical and essential minerals of India, National Mineral Policy of India.</p> <p>CO4: The student will be able to understand various types of mineral deposits and its classification.</p> <p>CO5:The student will be able to describe the origin of coal deposits, petroleum formations and gas hydrates and distribution of these fossil fuels in India.</p>
GEL2C07	HYDRO GEOLOGY	4	<p>CO1:The student will be able to explain Origin of water, subsurface movement and vertical distribution of groundwater, and hydrological properties of rocks.</p> <p>CO2:The student will be able to describe the theory of groundwater flow, methods of pump test data analysis and evaluation of aquifer parameters.</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO3:The student will be able to demonstrate various water quality parameters using graphical representations.</p> <p>CO4:The student will be able to demonstrate the various methods of groundwater exploration.</p> <p>CO5:The student will be able to describe the types of wells, drilling methods, various problems related to groundwater, and groundwater provinces of India.</p>
GEL2C08	APPLIED PALAEOONTOLOGY & SEDIMENTOLOGY	4	<p>CO1:The student will be able to illustrate vertebrate paleontology - succession of vertebrate life through geologic time the general characteristics and evolution histories of Dinosaurs, Equus, Elephus and Man.</p> <p>CO2:The student will be able to apply the principles of micropaleontology and palynology in various fields.?</p> <p>CO3:The student will be able to apply the information on heavy minerals in provenance studies.</p> <p>CO4:The student will be able to apply the information on textures and structures in order to understand about the origin of the rocks.</p> <p>CO5:The student will be able to describe sedimentary facies and depositional environments, Lithologies and structures formed in various environments, basin analysis, and the relationship between plate tectonics and sedimentation.</p>
GEL 2L 02 (P)	CRYSTALLOGRAPHY, MINERALOGY, ECONOMIC GEOLOGY, HYDROGEOLOGY, PALAEOONTOLOGY & SEDIMENTOLOGY	3	<p>CO1:The student will be able to apply the theoretical knowledge in solving problems, identification, interpretation and graphical interpretation.</p>

SEMESTER III			
Course Code	Paper Name	Credits	Course Outcome
GEL 3C 09	IGNEOUS & METAMORPHIC PETROLOGY	5	<p>CO1:The student will be able to understand the generation of magma and formation of igneous rocks at different tectonic setting.</p> <p>CO2:The student will be able to illustrate the significance of Bowen's reaction principle, textures and structures, phase rule and its applications, and isotopic studies in the study of igneous Rocks.</p> <p>CO3:The student will be able to describe the unary, binary, ternary and quaternary phase diagrams.</p> <p>CO4:The student will be able to describe the classification of igneous rocks under various schemes and also the petrography and petrogenesis of important igneous rock groups.</p> <p>CO5:This course provides a comprehensive knowledge in experimental metamorphic petrology, metamorphism in relation to space and time, and plate tectonics.</p> <p>CO6:The student will be able to discuss the equilibrium aspects of metamorphic reactions, phase diagrams and graphic representation of mineral assemblages, and experimental and thermodynamic appraisal of metamorphic reactions.</p> <p>CO7:The student s will be able to illustrate the petrogenetic significance of metamorphic textures and structures, progressive, contact and regional metamorphism of argillaceous, carbonate, basic igneous, and ultramafic rocks.</p>
GEL 3E 01a	CLIMATOLOGY	3	<p>CO1:Basic understanding of the various underlying principles of climatology in relation to the processes of Earth, especially in the light of climate change.</p> <p>CO2:Students will be able to understand various climate phenomenon including surface wind movements, geostrophic wind, jet streams, precipitations, rainfall, thunderstorm, lightning, cyclones etc.</p> <p>CO3:Students will be able to understand about air masses, fronts and different types of precipitation and condensation proces</p> <p>CO4:Students will be able to understand various geographic phenomenon like rainfall, thunderstorm, lightening, tornado and cyclones in detail</p>

Course Code	Paper Name	Credits	Course Outcome
GEL 3E 02a	ENVIRONMENTAL GEOLOGY	3	<p>CO1:Basic understanding of the immediate environment, pollution, EIA, and waste management practices</p> <p>CO2:The students will be able to explain the hydrologic cycle and theory of plate tectonics as related to natural hazards and earth resources.</p> <p>CO3:The students will be able to explain common earth materials and their relationship to environmental hazards</p> <p>CO4:The students will be able to explain how earth processes create hazards to life and property</p> <p>CO5:The students will be able describe the occurrence and formation of earth resources and significant environmental effects caused by their extraction, processing, and use</p> <p>CO6:To describe the major sources of water, soil, and sediment pollution and methods for their management.</p> <p>CO7:The students will be able explain the causes and effects of global climate change</p>
GEL 3E 03a	MARINE GEOLOGY	3	<p>CO1:This course will help the students to understand history of Marine Geological studies.</p> <p>CO2:Students will be able to explain various topographical features of the sea bottom.</p> <p>CO3:Students will be able to describe properties of physical and chemical sea water and its significance.</p> <p>CO4:Basic understanding of the marine and coastal processes, deposits and landforms in a geological perspective.</p> <p>CO5:Students will be able to understand general ocean circulation and related events.</p> <p>CO6:Students will be able to explain various types of marine sediments and marine mineral deposits.</p>
GEL 3L 03 (p)	IGNEOUS& METAMORPHIC PETROLOGY& ELECTIVE COURSE	4	<p>CO1:The student will be able to apply the theoretical knowledge in solving problems, identification, interpretation and graphical interpretation.</p>

SEMESTER IV			
Course Code	Paper Name	Credits	Course Outcome
GEL 4C 10	GEOCHEMISTRY AND ISOTOPE GEOLOGY	4	<p>CO1:The student will be able to understand the origin and distribution of elements and geochemical characteristics of the earth.</p> <p>CO2:The student will be able to describe the chemistry of the universe, stars, nucleosynthesis, origin of the solar system, meteorites.</p> <p>CO3:The student will be able to describe the Laws of thermodynamics and geochemistry of weathering transportation and deposition.</p> <p>CO4:The student will be able to explain isotope geochemistry; applications in magmatic systems, geochemical cycle and principles of geochemical prospecting.</p> <p>CO5:The student will be able to explain geochronology and age of the Earth, radiogenic isotope systems.</p> <p>CO6:The student will be able to explain modern analytical techniques, fission track and other radiation damage methods of dating.</p>
GEL 4E 04a	EXPLORATION GEOLOGY	4	<p>CO1:The student will be able to describe the methods of surface and subsurface exploration, drilling and its types and methods of ore reserve estimation.</p> <p>CO2:The student will be able to explain the geological, geochemical, geophysical and radiometric exploration methods.</p>
GEL 4E 05a	ENGINEERING GEOLOGY	3	<p>CO1:The student will be able to describe the geological studies and evaluation in planning, design, construction and problems of major civil structures</p> <p>CO2:The student will be able to describe mining methods, ore dressing, and mineral legislation in India.</p>
GEL 4L 04	GEOCHEMISTRY & ELECTIVE COURSE	3	<p>CO1:The student will be able to apply the theoretical knowledge in solving problems, identification, interpretation and graphical interpretation</p>

M.Sc Microbiology

Microbiologists play a significant role in society, as they are the people who conduct research on the positive as well as negative effects of micro organism on humans. A Microbiologist can opt for a career as Bio-technologist, Food Microbiologist, Biomedical Scientist, Geneticist, Pro-micrologist and Virologist. Career options like Science Writer and Lecturer are also open to Microbiologists.

POST GRADUATE DEPARTMENT OF MICROBIOLOGY PROGRAMME: MASTER OF SCIENCE IN MICROBIOLOGY

PROGRAMME OUTCOMES (POs)

PO1: Gain in-depth understanding of various aspects of microbiology pertaining to medical, agricultural, environmental and industrial applications.

PO2: Familiarized with latest and advanced research tools and techniques pertaining to biology.

PO3: Analysis of scientific issues across the spectrum of related disciplines.

PO4: Acquire skills specific to microbiology and allied fields for converting information to knowledge through hypothesis, design, execution and analysis.

PO5: Design experiments to prove scientific process and to synthesize product/ services for the benefit of community.

PO6: Ability to retrieve biological information through data mining and data handling.

PO7: Ability to present their work through written, oral, and visual presentations, including an original research proposal.

PO8: Enable the students to improve the quality of human lives in relation to environment with the knowledge in microbiology.

PO9: Capacity to work as a member of team upholding the essence of collaboration, cooperation, ethics and integrity.

PO10: Ability to upgrade knowledge independently and act upon means of improvement for lifelong learning.

COURSE OUTCOMES (COs)

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
MBG1C01	GENERAL BIOCHEMISTRY AND MICROBIAL METABOLISM	4	CO1- Summarise the fundamental biochemical properties of biomolecules CO2- Describe the metabolism of Amino acids, Carbohydrates, Lipids and Nucleic acids CO2- Describe the metabolism of Amino acids, Carbohydrates, Lipids and Nucleic acids CO2- Describe the metabolism of Amino acids, Carbohydrates, Lipids and Nucleic acids

Course Code	Paper Name	Credits	Course Outcome
MBG1C02	BIOPHYSICS AND INSTRUMENTATION	3	<p>CO1-Discuss the properties of interactions between atoms and molecules.</p> <p>CO2-Demonstrate the interactions of DNA-protein, RNA-protein and DNA-drug</p> <p>CO3-Analyse the structure of protein through Ramachandran plot and advanced techniques</p> <p>CO4-Compare different techniques in microscopy</p> <p>CO5-Differentiate the working principle, instrumentation and applications of various bio-analytical instruments.</p>
MBG1C03	ENVIRONMENTAL AND SANITATION MICROBIOLOGY	3	<p>CO1-Discuss the basic concepts of ecological system, pollution and environment</p> <p>CO2-Compare different types of interaction among microbial communities and their significance</p> <p>CO3-Explain biogeochemical cycles and their importance in an ecosystem</p> <p>CO4-Elaborate the role of microbes in soil, water and air</p> <p>CO5-Summarise the methods of air quantitation, air sanitation, sewage treatment and water purification.</p> <p>CO6- Discuss the various aspects and the application of microbes in various fields of agriculture and environmental microbiology like bioremediation, biofertilizers and waste treatment methods.</p>
MBG1C04	AGRICULTURAL MICROBIOLOGY AND PLANT PATHOLOGY	2	<p>CO1-Describe the microbial interactions between microorganisms, plants and animals</p> <p>CO2-Explain the various applications of microorganisms in agriculture to improve soil fertility as bio fertilizers and bio pesticides.</p> <p>CO3-Contrast between bio fertilizer and chemical fertilizer.</p> <p>CO4-Illustrate different plant diseases caused by different microorganisms with emphasis to pathology and epidemiology.</p> <p>CO5-Discuss the defence mechanisms exerted by the plant in response to an infection</p>

Course Code	Paper Name	Credits	Course Outcome
MBG1L01	PRACTICAL I	4	<p>CO1-Apply the knowledge in the preparation of solutions and buffers according to the neediness using molar, percentage etc.</p> <p>CO2-Analyse the Qualitative and Quantitative aspects of different bio activecomponents Proteins, carbohydrates, citric acids etc.</p> <p>CO3-Analyse the Qualitative and Quantitative aspects of different bio activecomponents Proteins, carbohydrates, citric acids etc.</p> <p>CO4-Perform isolation, Quantification, purification and separation of bioactiveComponents using chromatographic techniques.</p> <p>CO5-Demonstrate various experiments which include basic methods of physicalbiochemistry, biochemical analysis and separation methods</p>
MBG1L02	PRACTICAL I	4	<p>CO1-Isolate bacteria, fungi, actinomycetes and phages from various sources of concern</p> <p>CO2-Demonstrate various growth patterns, culturing methods and differentquantification techniques of microorganisms from air, soil and termite gut</p> <p>CO3-Demonstrate the Anaerobic cultivation of bacteria</p> <p>CO4-Evaluate the efficacy of autoclave and bacteria proof filters</p> <p>CO5-Demonstration of special microorganisms with different uniqueapplications in agriculture and environmental research</p> <p>CO6-Assess the quality of water by MPN, DO, BOD and COD.</p> <p>CO7-Compare efficacy of different bio control agents.</p> <p>CO8-Assessment of the synthesis of extracellular enzymes by microbes</p> <p>CO9-Illustrate the role of microorganisms in bioremediation</p>

SEMESTER II			
Course Code	Paper Name	Credits	Course Outcome
MBG2C05	PRINCIPLES OF GENETICS	4	<p>CO1-Recall the basic concepts of Classical genetics, History of Mandel experiments on pea plants and the laws and importance of Mendelian genetics.</p> <p>CO2-Explain the mechanism of sex linkage, crossing over and genetic mapping</p> <p>CO3-Summarize the importance and significance of Chromosomal aberrations</p> <p>CO4-Analyse the importance of Pedigree analysis and its usage in genetic disease analysis.</p> <p>CO5-Discuss the basic concepts of bacterial genetics and mode of gene transfer mechanism in bacteria.</p> <p>CO6-Justify and correlate the importance of the molecular events in gene expression and in gene regulation</p>
MBG2C06	FOOD AND DAIRY MICROBIOLOGY	4	<p>CO1-Classify the type of Microorganisms present in food able to cause contamination and what are the factors influence growths of microbes in Foods</p> <p>CO2-Explain standards for assessing the quality of milk</p> <p>CO3-Summarize spoilage of food, factors causing food spoilage and food preservation methods</p> <p>CO4-Elaborate different food borne infections</p> <p>CO5-Explain about food hygiene and regulatory practices</p> <p>CO6-Discuss the importance of microorganisms in food and factors affecting their growth in foods</p>
MBG2C07	INDUSTRIAL MICROBIOLOGY	4	<p>CO1-Describe the methods for screening, isolation, strain improvement, upstream processing and down stream processing in industrial process</p> <p>CO2-Apply different isolation and development methods for industrially important microorganisms</p> <p>CO3-Explain the mass transfer mechanism in fermentation</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO4-Compare different types of fermentations</p> <p>CO5-Explain the effects of different components in fermentation media.</p> <p>CO6-Discuss various techniques used for the recovery of fermentation products</p>
MBG2C08	IMMUNOLOGY	4	<p>CO1-Describe the cells, organs, molecules, mediators, receptors associated with immune responses</p> <p>CO2-Illustrate the development of different immune responses in a host</p> <p>CO3-Classify the immunoglobulins with a detailed understanding of their diversity generation</p> <p>CO4-Explain the mechanisms of Hybridoma technology, antigen antibody reactions and Complement system</p> <p>CO5-Categorize different immune associated disease conditions like hypersensitivity, autoimmunity, graft rejection and tumor development based on mechanism.</p>
MB2L03	PRACTICAL III	4	<p>CO1-Enumerate the milk microflora and Apply the methods used in Testing the quality of milk.</p> <p>CO2-Demonstrate preservation of foods</p> <p>CO3-Enumerate microflora of food spoilage</p> <p>CO4-Isolation of enzyme producing microorganisms</p> <p>CO5-Demonstrate the Growth curve of bacteria</p> <p>CO6-Demonstrate the detection of industrially important microorganisms and its metabolite production</p> <p>CO7-Demonstrate the production of Mushroom production</p>
SEMESTER III			
Course Code	Paper Name	Credits	Course Outcome
MBG3C09	MEDICAL MICROBIOLOGY	4	<p>CO1-Describe the morphology, pathogenicity, epidemiology, laboratory diagnosis and treatment of important human bacterial pathogens.</p> <p>CO2-Explain the pathogenesis, laboratory diagnosis and prophylaxis of important viral pathogens</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO3-Illustrate the characteristics of fungi with focus to superficial, sub cutaneous, deep and opportunistic infections</p> <p>CO4-Describe the general features and classification of protozoa</p> <p>CO5-Demonstrate the morphology, life cycle, pathogenesis and epidemiology of important protozoan diseases</p> <p>CO6-Describe the mechanism of action and activity spectrum of antibiotics</p> <p>CO7-Discuss the antifungal and antiviral drugs and determination of MIC</p>
MBG3C10	MOLECULAR BIOLOGY	4	<p>CO1-Explain the mechanisms behind the information flow from DNA to proteins and the multiple levels at which gene expression can be regulated</p> <p>CO2-Compare gene expression and regulation in prokaryotes and eukaryotes</p> <p>CO3-Discuss the molecular mechanisms underlying mutations, DNA damage and repair</p> <p>CO4-Acquire knowledge of DNA replication and other mechanisms of gene transfer mechanisms</p> <p>CO5-Discuss the concept of Oncogenes and tumour suppressor genes</p>
MBG3E01	DIAGNOSTIC MICROBIOLOGY	4	<p>CO1-Describe a wide range of diagnostic technologies and methodologies relevant to the fields of clinical biochemistry, haematology, histopathology, cytopathology, molecular biology and microbiology</p> <p>CO2-Differentiate between various Probe-Based Microbial Detection and Identification</p> <p>CO3-Compare various molecular diagnostic tools</p> <p>CO4-Explain the application of molecular tools in systematics</p>
MBG3E02	CELL BIOLOGY	4	<p>CO1-Explain the structure and functions of cell components in eukaryotic cells</p> <p>CO2-To distinguish the mechanism of protein sorting and transportation to various targets</p> <p>CO3-Describe the mechanisms of cell signaling, cell death and cancer development.</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO4-Correlate the cell communication mechanism with the cell cycle and its regulation</p> <p>CO5-Conceptualize the theories and molecular mechanism of cancer development</p>
MBG3E03	MICROBIAL TAXONOMY	4	<p>CO1-Compare the classification systems with contributions of pioneers in taxonomy</p> <p>CO2-Distinguish different criteria used in characterization and classification</p> <p>CO3-Analyze the Molecular techniques used in classification</p> <p>CO4-Discuss the Bergey's Manual of Systematic Bacteriology with emphasis to different groups.</p> <p>CO5-Demonstrate the knowledge of taxonomy of microorganisms and their importance in clinical microbiology, public health and to prevent growth and spread of microbes in the environment</p>
MBG3L04	PRACTICAL IV	4	<p>CO1-Perform the acid fast staining procedure</p> <p>CO2-Demonstrate skills in isolation and identification of various pathogenic microorganisms</p> <p>CO3-Discuss the viral inoculation routes in embryonated eggs</p> <p>CO4-Perform immunological tests for diagnosis of antigen/antibody</p> <p>CO5-Determine the MIC of an antimicrobial compound</p>
MBG3L05	PRACTICAL V	4	<p>CO1-Demonstrate the stages of mitosis and meiosis</p> <p>CO2-Isolate, purify and estimate DNA, RNA and plasmid from bacteria</p> <p>CO3-Demonstrate the visualization of the isolated nucleic acid by electrophoresis</p> <p>CO4- Demonstrate the concept of hyperchromism</p> <p>CO5-Evaluate the gene transfer process in bacteria by performing conjugation and transformation</p> <p>CO6-Assess the gene transfer by induction of beta gal gene in <i>E coli</i> Demonstrate cloning and restriction digestion</p>

SEMESTER IV

Course Code	Paper Name	Credits	Course Outcome
MBG4C11	BIOSTATISTICS AND BIOINFORMATICS	4	<p>CO1-Discuss the principles and practices of statistical methods in biological research.</p> <p>CO2-Explain various biological data bases for sequence retrieval, analysis, sequence alignments, phylogeny and other applications</p> <p>CO3-Discuss the method of molecular docking and their application</p> <p>CO4-Discuss the concept behind drug designing with the application of bioinformatics tools</p>
MBG4E04	MICROBIAL BIOTECHNOLOGY	4	<p>CO1-Identify the issues related to plant nutrition, quality improvement, environment adaptation, transgenic crops and their use in agriculture</p> <p>CO2-Discuss the environmental impact of genetic engineering related to GM food crops and other agro, diary based products</p> <p>CO3-Explain the importance of microbes in oil recovery and degradation, leaching, bio-mining and also production of biopolymers, bio-surfactants, antibiotics enzymes etc</p> <p>CO4-Describe about genetic engineering for recombinant protein expression and production from various cell systems which has advanced knowledge about factorial experimental set up.</p>
MBG4E05	GENETIC ENGINEERING	4	<p>CO1-Discuss the fundamental molecular tools and their applications in DNA modification, manipulation and cloning</p> <p>CO2-Compare genomic and cDNA Library</p> <p>CO3-Describe advanced molecular techniques in genetic engineering-PCR Methods, sequencing methods, RFLP, RAPD etc</p> <p>CO4-Interpret the importance of molecular marker genes in cloning</p> <p>CO5-Explain the techniques for DNA introduction to the vectors and host cells</p>
MBG4E06	BIOSAFETY, BIOETHICS & IPR	4	<p>CO1-issues the significance of biosafety and bioethics related regulations</p> <p>CO2-Appreciate the importance of Intellectual property rights and explain various types of IPR</p> <p>CO3-Recognize importance of biosafety practices and guidelines in research</p> <p>CO4-Comprehend benefits of GM technology and related issues</p> <p>CO5-Recognize importance of protection of new knowledge and innovations and its role in business</p>

Course Code	Paper Name	Credits	Course Outcome
MBG4L06	PRACTICAL VI		<p>CO1-Demonstrate proficiency in bioinformatics methods including accessing the major public sequence databases, use of the different computational tools to find sequences, analysis of protein and nucleic acid sequences by various software packages</p> <p>CO2- Retrieve data from Biological Databases</p> <p>CO3- Explain the features of National Centre for Biotechnology Information (NCBI)</p> <p>CO4- Perform sequence comparison using various alignment tools</p> <p>CO5- Create protein structures with modelling tools.</p> <p>CO6- Prediction of Gene structure, gene function and ORF position.</p>

(MSc) in General Biotechnology

The Master of Science (MSc) in General Biotechnology offers a comprehensive understanding of molecular biology, genetics, and bioinformatics. Emphasizing practical applications, it equips students with skills in genetic engineering, bioprocessing, and pharmaceutical development. Graduates contribute to diverse fields like healthcare, agriculture, and environmental conservation, driving innovation in biotechnological solutions.

POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY

PROGRAM - M.SC GENERAL BIOTECHNOLOGY

PROGRAMME OUTCOME (POs)

PO1: Demonstrate knowledge for in-depth critical thinking to identify, and solve various issues in Biotechnological/pharmaceutical Industries or related fields.

PO2: Gain the ability to solve, analyze and interpret data generated in experiments from laboratory research or in academic projects.

PO3: Achieve expertise in handling modern analytical tools/ software/ equipment to conduct research.

PO4: Be appreciated in their roles in society as biotechnology professionals, or employees in industries, research field and academics.

PO5: Gain written and oral communication skills for the effective communication in healthcare, industry, academia and research.

PO6: Groom the students to meet challenges in biotechnological field

PO7: Develop skills, attitude and values required for self-directed, lifelong learning and professional development.

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
GBT 1C 01	CELL BIOLOGY	5	<p>CO1:This course introduces the students to the basics of cell and various components. This will help them to attain detail knowledge about cell and types.</p> <p>CO2:This gives them a strong foundation on the basic unit of life through understanding various cell theories and cell origin</p> <p>CO3:Students will acquire the knowledge of structure and functions of cell organelles, their interaction to promote cell growth, division and development.</p> <p>CO4:The students will gain in depth knowledge about cell cycle, cell division, cancer research, stem signaling etc.</p> <p>CO5:At the end of course, student attained a strong foundation about cellular architecture and trends in cell biology studies.</p>
GBT 1C02	BIOMOLECULES	4	<p>CO1:To provide a basic knowledge of various biomolecules and thermodynamics</p> <p>CO2:Provides contemporary approaches and techniques used in modern cell and molecular biology</p> <p>CO3:Gives a clear picture of cellular structure, function, chemical composition, physiochemical and functional organization of organelles, and basic cellular metabolism</p> <p>CO4:Gives an understanding of relationship between the properties of macromolecules and cellular activities and to understand thermodynamics and biomolecular classifications</p>
GBT 1C03	MICROBIOLOGY	4	<p>CO1:Understanding the history, early development and physiology of microbes and microbial taxonomy and classification methods.</p> <p>CO2:Study various kinds of media preparation to study about the microbes by phenotypic and genotypic methods</p> <p>CO3:Students will learn about the food spoilage due to cause of microbial contamination and food preservation methods</p> <p>CO4:Students can learn about different metabolic pathways in microbes and soil microflora and how man and microbes are interrelated</p>
GBT 1L 01	LABORATORY – I (CELL BIOLOGY, BIOMOLECULES AND MICROBIOLOGY)	5	<p>CO1:To understand microscopic techniques, subcellular fractionation, cell division, histochemical techniques and karyotyping</p> <p>CO2:Enable understanding spectroscopic techniques and methods for quantification of sugar, proteins and lipids</p> <p>CO3:To familiarize with microbiological media preparation and different staining techniques.</p> <p>CO4:Experienced in water quality testing and different biochemical test for the estimation of biomolecules</p>

SEMESTER II		
GBT 2C 01	METABOLISM AND BASIC ENZYMOLOGY	4 <p>CO1:To understand relevance, basic concepts of metabolism and various pathways involved in biological system. CO2:To understand the properties of biomolecules and their existence in living system. CO3:To explore enzyme kinetics and their application in daily life CO4:To understand the nature and commonly used types of biochemical experiments. CO5:To provide information in application of enzyme kinetics in engineering, medicine and industry.</p>
GBT 2C02	MOLECULAR BIOLOGY	5 <p>CO1:This course introduces the students to the basics of molecular basis of life through the study of genetic material. CO2:This gives them a strong foundation on the basics structure and functions of nucleic acids proteins and their interaction within cell to promote cell growth, division and development. CO3:Students can illustrate gene, their structural organization and recombination process CO4:The student will demonstrate proficiency in understanding the concept of genetic code and proof reading mechanism existing in the body CO5:At the end of the course, student learned about cancer biology with special focus on humans.</p>
GBT 2C03	ENVIRONMENTAL BIOTECHNOLOGY	4 <p>CO1:They would understand the basic concept in environmental biotechnology and related issues. CO2:Students will learn the microbiology of waste water management system and application of biosensors in the treatment CO3:The ecological/biogeographical studies will provide the awareness on ecological importance and adverse effects of pesticide usage in the environment CO4:Student will understand the concept of environmental pollution, pollutants and related hazards. CO5:They can acquire knowledge of bioremediation and its applications in environmental clean-up, various waste-disaster management methods and policies. CO6:Create awareness about environment conservation, environment protection Acts and introduction of biological components for waste treatments.</p>
GBT 2C04	BIostatistics & BIOINFORMATICS	4 <p>CO1:To recollect the concepts of biostatistics, bioinstrumentation and bioinformatics CO2:Students will acquire knowledge of computer programming languages- PERL,C, SQL and JAVA and to write programs to solve biological problems</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO3:Students will be able to understand biological databases, perform structured query and analyze and discuss the results in biologically significant way.</p> <p>CO4:To understand how to interpret data in a research using various statistical and bioinformatics softwares.</p> <p>CO5:Students will become familiar with a wide variety of bioinformatics tools and softwares so as to conduct basic bioinformatics research and thereby develop platform for molecular biology experiments</p>
GBT 2L 01	LABORATORY – II (METABOLISM, BASIC ENZYMOLOGY, MOLECULAR BIOLOGY, ENVIRONMENTAL BIOTECHNOLOGY)	5	<p>CO1:Understand the extraction and purification of enzymes from plant/animal tissues</p> <p>CO2:Familiarize with different chromatographic techniques</p> <p>CO3: Expertise inQC from potable water and oxygen demand from sewage water</p> <p>CO4:Understand different DNA isolation procedures and gel electrophoresis techniques</p>
GBT 2A 01	APPLICATION OF STATISTICAL SOFTWARE		<p>The classes will be conducted by an expert from outside who had an experienced in this course subjects. So after the class students will be able to:</p> <p>CO1:Enable to know how to interpret data after research</p> <p>CO2: Familiarize with different software employed in data analysis</p>
SEMESTER III			
GBT 3C 01	GENETIC ENGINEERING	4	<p>CO1:The students recall the principles of genetic engineering and the vectors used in cloning, methods of introduction of gene and expression</p> <p>CO2:To appreciate the different cloning strategies and protein expression</p> <p>CO3:The students also know about implementation of genetic engineering, biosafety of GMOs, and guidelines to carry out genetic engineering research</p> <p>CO4:To investigate different strategies of recombinant DNA technology and its pros and cons to human and other living beings</p>
GBT 3C02	BIOPROCESS TECHNOLOGY	4	<p>CO1:To understand basics of fermentation technology, media components from lab scale, pilot scale to industrial scale and further upstream/ down -stream processing.</p> <p>CO2:To acquire requisite skills for design and development of bioreactors,production optimization, and preparation of sterile base materials fordownstream processing.</p> <p>CO3:Students will be able to understandthe basics of fermentation technology and learnt the concept of screening, optimization andmaintenance of different cultures.</p>

Course Code	Paper Name	Credits	Course Outcome
GBT 3C03	PLANT BIOTECHNOLOGY	4	<p>CO1:The students will be familiar with the techniques of Plant Tissue Culture</p> <p>CO2:To enable the students to do research in molecular breeding through various techniques of Plant biotechnology</p> <p>CO3:They will get an idea about the metabolite production so that they will gain knowledge in metabolomics</p> <p>CO4:Students will gain knowledge in plant transformation and its application in developing new varieties</p> <p>CO5:They can able to differentiate biotechnological crops and normal one and their effects.</p>
GBT 3C04	IMMUNOLOGY	4	<p>CO1:Enable to understand the basics of immune system</p> <p>CO2:Demonstrating the basic knowledge of antigen antibody interactions</p> <p>CO3:Develop immunological methods to diagnose immune disorders and involvement of transplantation technology</p> <p>CO4:To know more about vaccines and their therapeutic applications</p>
GBT 3E 01	STEM CELL BIOLOGY PART A (OPTION I)	4	<p>CO1:Introduce the basics of stem cells and their classification</p> <p>CO2:Explained stem cell differentiation and application in mammalian nuclear transfer technology</p> <p>CO3:Understood the current trends in stem cell research and their future impacts</p>
GBT 3L 01	LABORATORY – III (GENETIC ENGINEERING, BIOPROCESS TECHNOLOGY, PLANT BIO TECHNOLOGY AND IMMUNOLOGY)	4	<p>CO1:Come to know various blotting techniques and methods in recombinant DNA technology</p> <p>CO2:Expertise in production of various components from microorganisms</p> <p>CO3:Understand the preparation of media and sterilization procedure in plant tissue culture</p> <p>CO4:Enable understanding different methods employed in plant tissue culture techniques</p> <p>CO5:To know blood group identification, Blotting techniques and different tests for the detection of infectious diseases</p>

SEMESTER IV			
Course Code	Paper Name	Credits	Course Outcome
GBT 4P 01	PROJECT WORK	5	Students will be conducted research for the period of three months. The miniature of this dissertation work can be submit to a journal as research paper from their academic research.
GBT 4V 01	COMPREHENSIVE VIVA-VOCE	3	
GBT 4E 03	STEM CELL BIOLOGY PART B	4	CO1: Understand the application of stem cells in gene therapy for the treatment of various neurodegenerative diseases CO2: Enable understanding of stem cells research in treating hereditary diseases CO3: Describe the stem cell niche and its role on stem cell regulation; CO4: Understand the future prospects of stem cell for the disease treatments
GBT 4E 06	NANO BIOTECHNOLOGY	4	CO1: Understand the basics of Biotechnology CO2: Explain the present and future application of nanotechnology in medicine. CO3: Optimize the synthesis of Nanomaterials for drug discovery and drug designs CO4: Analyze different DNA based Nanostructures for the development of sensors

DEGREE PROGRAMMES

B.Com and BBA

The scope of commerce has increased exponentially and a Bachelor of Commerce degree with Computer Applications, Finance, Co-operation and BBA is the most sought for branch of study, which is endorsed beyond measure by the increasing demand for this course. This branch of learning has a hugely popular appeal and we regret that accommodation for all aspirants to this course is difficult for us.

B.Com with CA has far reaching demand in the job market. Candidates can get into jobs mainly in fields like accounting, auditing, banking, marketing, e-commerce, etc. With this qualification candidates can apply for job mainly in banks and other financial institutions as probationary officers.

**POST GRADUATE DEPARTMENT OF COMMERCE
PROGRAMME –BACHELOR OF COMMERCE
PROGRAMME OUTCOME (POs)**

PO1: Understand the role of business and its implications on society

PO2: Understand the conceptual knowledge of accounting and acquire skills maintaining accounts

PO3: Acquire entrepreneurial, legal and managerial skills

PO4: Identify the avenues of marketing and banking both traditional and modern

PO5: Develop the skills and techniques of communication to be successful in business and personal life

PO6: Improve competency to make eligible and employable in the job market

PO7: Recognize different value systems and ethics, understand the moral dimensions and accept responsibility

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
BCM1B01	BUSINESS MANAGEMENT	4	CO1: To understand the process of business management and its functions. To familiarize the students with current management practices To understand the importance of ethics in business To acquire knowledge and capability to develop ethical practices for effective management.
BCM1C01	MANAGERIAL ECONOMICS	4	CO1: The objective of the course is to acquaint students with the basic principles of micro and macroeconomics for developing the understanding of theory of the firm, markets and the macro environment, which would help them in managerial decision making processes.
SEMESTER II			
BCM2B02	FINANCIAL ACCOUNTING	4	CO1: To equip the students with the skills of preparing financial statements for various type of organizations. To enable the students to acquire knowledge about financial reporting standards and to understand corporate accounting methods.
BCM2C02	MARKETING MANAGEMENT	4	CO1: To provide basic knowledge about the concepts, principles, tools and techniques of marketing. To impart necessary knowledge which help the student to choose a career in the field of marketing.
SEMESTER III			
BCM3A11	BASIC NUMERICAL METHODS	4	CO1: To enable the students to acquire knowledge of numerical equations, matrices progressions, financial mathematics and descriptive statistics At the end of this course, the students will be able to understand, numerical equations, matrix, progression, financial mathematics, descriptive statistics and their applications.

Course Code	Paper Name	Credits	Course Outcome
BCM3A12	PROFESSIONAL BUSINESS SKILLS	4	CO1: To update and expand basic Informatics skills of the students To equip the students to effectively utilize the digital knowledge resources for their study
BCM3B03	BUSINESS REGULATIONS	4	CO1: To familiarize the students with certain statutes concerning and affecting business organizations in their operations.
BCM3B04	CORPORATE ACCOUNTING	4	CO1: To help the students to acquire conceptual knowledge of the fundamentals of the corporate accounting and the techniques of preparing the financial statements
BCM3C03	HUMAN RESOURCE MANAGEMENT	4	CO1: To familiarize the students with the different aspects of managing human resources in an organization. To equip the students with basic knowledge and skills required for the acquisition, development and retention of human resources.
SEMESTER IV			
BCM4A13	ENTREPRENEURSHIP DEVELOPMENT	4	CO1: To familiarize the students with the concept of entrepreneurship CO2: To identify and develop the entrepreneurial talents of the students. CO3: To generate innovative business ideas in the emerging industrial scenario.
BCM4A14	BANKING & INSURANCE	4	CO1: To enable the students to acquire knowledge about basics of Banking and Insurance. CO2: To familiarize the students with the modern trends in banking.
BCM4B05	COST ACCOUNTING	4	CO1: To familiarize the students with the various concepts and elements of cost. To create cost consciousness among the students.
BCM4B06	CORPORATE REGULATIONS	4	CO1: To familiarise the students with corporate law and to make them aware of the importance of corporate governance in the management of organizations.
BCM4C04	QUANTITATIVE TECHNIQUES FOR BUSINESS	4	CO1: To familiarize student with the use quantitative techniques in managerial decision making.
SEMESTER V			
BCM5B07	ACCOUNTING FOR MANAGEMENT	4	CO1: To enable the students to understand the concept and relevance of Management Accounting. CO2: To provide the students an understanding about the use of accounting and costing data for planning, control, and decision making.

Course Code	Paper Name	Credits	Course Outcome
BCM5B08	BUSINESS RESEARCH METHODS	4	CO1: To enable students for acquiring basic knowledge in business research methods and to develop basic skills in them to conduct survey researches and case studies.
BCM5B09	INCOME TAX LAW & ACCOUNTS	4	To impart basic knowledge and equip students with application of principles and provisions Income - tax Act, 1961 amended up to date.
BCOM COMPUTER APPLICATION			
BCM5B10	COMPUTER APPLICATIONS IN BUSINESS	4	CO1: To help the students to acquire basic knowledge about computer and its applications in various areas of business. CO2: To enable the students to understand the modern trends and technologies in computer applications.
BCM5B11	BUSINESS INFORMATION SYSTEMS	4	CO1: To enable the students to acquire basic knowledge in the information technology and its relevance to the various areas of business.
BCOM FINANCE			
BCM5B10	FINANCIAL MARKETS & SERVICES	4	CO1: To provide basic knowledge about the structure, organization and working of financial system in India.
BCM5B11	FINANCIAL MANAGEMENT	4	CO1: To familiarize the students with the concepts, tools and practices of financial management. CO2: To learn about the decisions and processes of financial management in a business firm.
B.COM CO-OPERATION			
BCM5B10	CO-OPERATIVE THEORY & PRACTICE	4	CO1: To provide conceptual clarity and theoretical base in co-operation. CO2: To provide an overall idea about important types of co-operatives.
BCM5B11	LEGAL ENVIRONMENT FOR CO-OPERATIVES	4	CO1: To enable the students to acquire knowledge about co-operative legal framework in India and Kerala. CO2: To understand the formalities for registering co-operatives and the administrative set up.
BCM5D01 (Open Course)	BASICS OF ENTREPRENEURSHIP & MANAGEMENT	4	CO1: To enable the students to have an understanding of the basics of business, entrepreneurship and organizational management.
SEMESTER VI			
BCM6B12	INCOME TAX & GST	4	CO1: To impart basic knowledge and equip students with application of principles and provisions Income - tax Act, 1961 and GST Act 2016

Course Code	Paper Name	Credits	Course Outcome
BCM6B13	AUDITING & CORPORATE GOVERNANCE	4	CO2: To provide knowledge of auditing principles and techniques and to familiarize the students with the understanding of issues and practices of corporate governance in the global and Indian context.
BCOM CA			
BCM5B10	OFFICE AUTOMATION TOOLS	4	CO1: To enable the students to acquire basic knowledge in the various office automation tools and its applications in the various areas of business.
BCM5B11	COMPUTERISED ACCOUNTING WITH TALLY	4	CO1: To enable the students to acquire basic knowledge in the computerized accounting systems and its applications in the area of business.
BCOM FINANCE			
BCM5B10	FUNDAMENTALS OF INVESTMENTS	4	CO1: To familiarize the students with the world of investments. CO1: To provide a theoretical framework for the analysis and valuation of investments
BCM5B11	FINANCIAL DERIVATIVES	4	CO1: To acquire knowledge about financial derivatives and their features. CO2: To know about various risks associated with derivatives.
B.COM CO-OPERATION			
BCM6B16	INTERNATIONAL CO-OPERATIVE MOVEMENT	4	CO1: To enable the students to acquire knowledge about evolution and development of co-operative movement in the world.
BCM6B11	CO-OPERATIVE MANAGEMENT & ADMINISTRATION	4	CO1: To enable the students to acquire knowledge about the co-operative management and administration. CO2: To familiarize the students with accounting and auditing of co-operatives.

**DEPARTMENT OF MANAGEMENT STUDIES
BACHELOR OF BUSINESS ADMINISTRATION
PROGRAMME OUTCOMES (POs)**

PO1 - To provide the students with the basic understanding about management education.

PO2- To prepare student to exploit opportunities being newly created in the management profession.

PO3- To focus on the holistic development of the students with conceptual clarity, analytical ability, critical thinking and communication skills.

PO4- To develop appropriate skills in the students so as to make them competent and provide themselves self-employment.

PO5 - To train the students to be competent entry level management professionals .

PO6- To impart basic and operational knowledge on all functional areas of management.

P07- To inculcate entrepreneurial skills among the management graduates to turn to successful entrepreneurs.

P08- To promote ethical and value-based leadership ability.

P09- To equip students to demonstrate the capabilities required to apply cross-fun

COURSE OUTCOMES (COs)

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
BBA1B01	MANAGEMENT THEORY AND PRACTICES	4	CO1- Discuss different schools of management thought. CO2- Understand apply the concepts of planning, organizing, staffing and controlling for effective management. CO3- Aware and apply the ethically and socially responsible behaviors in Management. CO4- Aware and pursue the modern management practices in business.
BBA1B01 (Complementary Course)	MANAGERIAL ECONOMICS	4	CO1- Acquire knowledge regarding relevant economic concepts applicable in managerial decisions. CO2- Design competition strategies, including costing, pricing, product differentiation and market environment according to the natures of products and the structures of the markets. CO3- Make optimal business decisions by integrating the concepts of economics.
SEMESTER II			
Course Code	Paper Name	Credits	Course Outcome
BBA2B02	FINANCIAL ACCOUNTING	4	CO1- Discuss and apply fundamental accounting concepts, principles and conventions. CO2- Record basic accounting transactions and prepare annual financial statements for a sole proprietorship business. CO3- Record accounting transactions in respect of hire purchase and instalment system and branches.
BBA2B03	MARKETING MANAGEMENT	4	CO1- Understand and develop insights and knowledge base of various concepts that driving marketing strategies CO2- Develop skills in organizing for effective marketing and in implementing the market planning process.
SEMESTER III			
Course Code	Paper Name	Credits	Course Outcome
BBA3A11 (Common)	BASIC NUMERICAL METHODS	4	CO1- Understand, numerical equations, matrix, progression, financial mathematics, descriptive statistics and their applications.

Course Code	Paper Name	Credits	Course Outcome
BBA3A12 (Common)	PROFESSIONAL BUSINESS SKILLS	4	CO1 -To update and expand basic Informatics skills of the students. CO2 -To equip the students to effectively utilize the digital knowledge resources for their study.
BBA3BO4	CORPORATE ACCOUNTING	4	CO1 -Understand and apply fundamental Ind ASs on inventories, PPE, provisions, income tax, borrowing cost and intangible assets. CO2 - Prepare annual financial statements for companies and compute accounting ratios. CO3 -Record accounting transactions in respect of redemption of preference shares and debentures.
BBA3B05	FINANCIAL MANAGEMENT	4	CO1 -Understand and develop insights and knowledge base of various concepts of finance. CO2 -Develop skills for effective Financial, Investment and Dividend decisions making.
BBA3CO2 (Complementary Course)	BUSINESS REGULATIONS	4	CO1 -Analyse statutory provisions and the core concepts in business laws. CO2 - Analyze legal issues arising in day-to-day business operations prevalent in India CO3 - Discuss possible solutions to issues in organizations in the frame work of business laws
SEMESTER IV			
Course Code	Paper Name	Credits	Course Outcome
BBA4A13 (Common)	ENTRE- PRENEURSHIP DEVELOPMENT	4	CO1 -To familiarize the students with the concept of entrepreneurship. CO2 -To identify and develop the entrepreneurial talents of the students. CO3 -To generate innovative business ideas in the emerging industrial scenario.
BBA4A14 (Common)	BANKING AND INSURANCE	4	CO1 -To enable the students to acquire knowledge about basics of Banking and Insurance. CO2 -To familiarize the students with the modern trends in banking
BBA4B06	COST AND MANAGEMENT ACCOUNTING	4	CO1 -Understand cost and management accounting concepts and its application for decision making. CO2 -Aware as to cost consciousness and the various methods and techniques of costing.
BBA4C03 (Complementary Course)	CORPORATE REGULATIONS	4	CO1 -Understand the features and different types of companies. CO2 -Aware as to the formation of companies and also as to different documents of companies. CO3 -Understand the share capital and other relevant provisions of the same.

Course Code	Paper Name	Credits	Course Outcome
			<p>CO4-Understand the management, corporate governance, corporate social responsibility and some basic aspects of SEBI.</p> <p>CO5-Understand the provisions of conducting meetings and also the winding up procedure of companies.</p>
BBA4C04 (Complementary Course)	QUANTITATIVE TECHNIQUES FOR BUSINESS	4	<p>CO1-Understand and develop insights and knowledge base of various concepts of Quantitative Techniques.</p> <p>CO2-Develop skills for effectively analyze and apply Quantitative Techniques in decision making.</p>
SEMESTER V			
Course Code	Paper Name	Credits	Course Outcome
BBA5B07	HUMAN RESOURCES MANAGEMENT	4	<p>CO1-Develop insights on various concepts and Functions of Human Resource Management</p> <p>CO2-Learn the latest trends in Human Resource Management</p>
BBA5 B08	BUSINESS RESEARCH METHODS	3	<p>CO1-Understand and develop insights and knowledge base of various concepts in Research.</p> <p>CO2-Develop skills for conducting business research</p>
BBA5B09	OPERATIONS MANAGEMENT	4	<p>CO1-Understand the different concepts of operation Management.</p> <p>CO2-Acquire the knowledge to make plans at the operational level of an industry.</p>
BBA5B10 (Elective 1)	CONSUMER BEHAVIOR	4	<p>CO1-On completing the course students can apply the concepts for developing an effective advertising programme and new product.</p>
BBA5B11 (Elective 2):	PRODUCT AND BRAND MANAGEMENT	4	<p>CO1-The aim of the paper is to acquaint the students with concepts and techniques of brand management and new product development</p> <p>CO2- To give experience in the application of concepts in modern business world</p>
BBA5D02	OPEN COURSE E- COMMERCE	3	<p>CO1-To Understand the practice of E-commerce, E-payment and also the security issues.</p>
SEMESTER VI			
Course Code	Paper Name	Credits	Course Outcome
Core Course BBA6B12	ORGANISATIONAL BEHAVIOR	4	<p>CO1-To familiarize the students with the basic concepts of individual behaviors and organizational behavior</p> <p>CO2-To enable the students to catch an idea about inter-personal and group behavior.</p> <p>CO3-To acquire knowledge regarding the organizational change and organizational development</p>

Course Code	Paper Name	Credits	Course Outcome
BBA6B13	MANAGEMENT SCIENCE	4	CO1 -To learn different OR techniques useful in managerial decisions.
BBA6B 14	PROJECT MANAGEMENT	2	CO1 -Understand the different concepts of managing a project. CO2 -Analyze the viability of a project
BBA6B15 (Elective 3)	ADVERTISING AND SALES PROMOTION	4	CO1 -Understand the process of advertisement; CO2 -Apply the concepts for developing an effective advertisement copy CO3 -Examine the various sales promotion strategies towards traders and consumers
BBA6B16 (Elective 4)	SUPPLY CHAIN AND LOGISTICS MANAGEMENT	4	CO1 -To impart knowledge and understanding to students on Supply Chain Management and its relevance to today's business decision making. CO2 -To gain the knowledge of possibilities of efficient optimization and management of operation in Logistics Management and also the ability to apply them in the enterprise reality.
BBA6B17 (PR)	PROJECT AND VIVA-VOCE	2	

Bachelor's Degree in English

A good command of the English language has become the most essential pre-requisite in any field of knowledge. This underscores the need and scope of a BA programme in English Language and Literature, coupled with an added advantage of Journalism and Audio Visual communication as complementary. The course opens new vistas and opportunities for the enthusiastic aspirant. The department also offers a PG programme in English and is blessed with a dedicated team of teachers and students.

POST GRADUATE DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE

PROGRAMME: BA ENGLISH

PROGRAMME OUTCOMES (POs)

PSO1: Understand and differentiate between different types, canons, movements and contexts of literature.

PSO2: Develop and apply advance language skills both in and outside classroom.

PSO3: Develop analytical ability and critical thinking.

PSO4: Assimilate literary theory and learn to connect text with its multiple contexts.

PSO 5: Critically examine the wide range of perceptions that exist in society through literary texts and thus imbibe a sense of democratic co-existence.

COURSE OUTCOMES (COs)

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
ENG1B01	INTRODUCING LITERATURE	5	<p>CO1:Differentiate between with the different aspects of the language of literature.</p> <p>CO2:Discover the linguistic structures of poetic texts.</p> <p>CO3:Distinguish diverse points of view within a single text and locate the rationale of polyphony.</p> <p>CO4:Determine and interpret the dominant voice/s within the text and its agendas.</p> <p>CO5:Discriminate marginalized voices and determine themselves to be the voices of the child, Dalit, transgender and female</p>
SEMESTER II			
Course Code	Paper Name	Credits	Course Outcome
ENG2B02	APPRECIATING POETRY	5	<p>CO1:Outline the basic elements of poetry, the stylistic and rhetorical devices and various genres of poetry.</p> <p>CO2:Analyze and identify the trends in poetry and the linguistic structures of poetic texts.</p> <p>CO3:Discover various perspectives in reading poetry like gender, race, caste, ethnicity, religion, region, environment and nation.</p> <p>CO4:Define different forms of poetry in British and American literature and classify different forms and themes of poetry across the globe in the history of literature.</p> <p>CO5:Appreciate poetry as an art form</p>
SEMESTER III			
Course Code	Paper Name	Credits	Course Outcome
ENG3B03	APPRECIATING PROSE	4	<p>CO1:Develop critical thinking.</p> <p>CO2:Interpret and appreciate different types of prose.</p> <p>CO3:Identify different styles of prose writing and understand the use of literary devices.</p> <p>CO4:Identify, analyze, interpret and describe the critical ideas, values, and themes that appear in literary and cultural texts</p> <p>CO5:Develop creative writing skills.</p>
ENG4B04	ENGLISH GRAMMAR AND USAGE	4	<p>CO1:Determine the key concepts of English grammar and to apply them more sensitively in their day-to-day communication needs.</p> <p>CO2:Manipulate the language in a better way by understanding of the sentence patterns in English.</p> <p>CO3:Develop a sense of English grammar, idioms, syntax, semantics and their usage</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO4:Develop the logical and analytical skills in the use of language for communication.</p> <p>CO5:Appraise contemporary English usage</p>
SEMESTER IV			
Course Code	Paper Name	Credits	Course Outcome
ENG4B05	APPRECIATING FICTION	4	<p>CO1:Develop critical thinking and imagination through long and short fiction</p> <p>CO2:Interrelate cultural diversity through different representative samples of fiction.</p> <p>CO3:Discover the pleasures in reading fiction.</p> <p>CO4:Critique human condition and the complexities of life.</p> <p>CO5:Discover different types of fiction and analyze them.</p>
ENG4B06	LITERARY CRITICISM	4	<p>CO1:Differentiate between judgment and appreciation.</p> <p>CO2:Identify various movements and schools of thought</p> <p>CO3:Critique plays, passages and poems</p> <p>CO4:Recognize the history and principles of literary criticism since Plato</p> <p>CO5:Develop the philosophical and critical skills with which literature can be appreciated.</p> <p>CO6:Appraise important texts and movements in the history of literary criticism.</p> <p>CO7:Demonstrate how literary criticism shapes literature and culture across centuries.</p> <p>CO8:Recognize and critique the major arguments underlying critical writings.</p> <p>CO9:Compare and contrast critical perspectives of Indian Poetics and Western critical concepts</p>
SEMESTER IV			
Course Code	Paper Name	Credits	Course Outcome
ENG5B07	APPRECIATING DRAMA AND THEATRE	4	<p>CO1:Establish and illustrate the basic elements of drama, including the historical progress of drama in different continents. Appreciate drama as an art form.</p> <p>CO2:Identify the different genres and masters of drama.</p> <p>CO3:Assess the theatrical performances and the texts and evaluate them critically from various standpoints.</p> <p>CO4:Explain the insights, conventions and experimentations associated with English Drama.</p> <p>CO5:Demonstrate how writers use the resources language as a creativity</p> <p>CO6: Point out the entire range of human experience through drama as a literary form</p>

Course Code	Paper Name	Credits	Course Outcome
ENG5ENG 5B08B07	LITERARY THEORY	4	<p>CO1:Develop an understanding of important texts and movements in the history of literary theory.</p> <p>CO2:Critique literature and culture in the context of theory.</p> <p>CO3:Develop various perspectives of thinking and critique the major arguments presented in theory.</p> <p>CO4:Construct a pluralistic perspective of culture and literature in a multicultural society.</p> <p>CO5:Identify, analyze, interpret and describe the critical ideas, values, and themes that appearing literary and cultural texts .</p> <p>CO6:Identify the origin of critical ideas in literature</p> <p>CO7:Define the function of criticism.</p>
SEMESTER VI			
Course Code	Paper Name	Credits	Course Outcome
ENG6B11	VOICES OF WOMEN	4	<p>CO1:Generalizeand infer on what grounds women's writings can be considered as a separate genre.</p> <p>CO2:Interpret texts written y Women writers across different cultures.</p> <p>CO3:Differentiate between sex and gender and how the latter is a social construction.</p> <p>CO4:Identify the issues and concerns of the women writers of the developed, developing and under-developed countries.</p> <p>CO5:Identify the misconceptions regarding women and to evolve a human perspective about them.</p> <p>CO6:Develop a keen interest in analyzing critically the diversity of women's experiences across the world and to marvel at their creative skills.</p>
ENG6B12	CLASSICS OF WORLD LITERATURE	4	<p>CO1:Identify the classic literature and thereby composite cultures of the world.</p> <p>CO2:Develop cross cultural perspectives.</p> <p>CO3:Classify literary texts in English or English translation in terms of their main stylistic andthematic features.</p> <p>CO4:Describe the literary, historical, social and cultural backgrounds of these texts.</p> <p>CO5:Identify some of the main theoretical and methodological issues involved in reading World Literature</p>
ENG6B13	FILM STUDIES	4	<p>CO1:Appraise film as an art form and its aesthetics.</p> <p>CO2:Relate and connect film with history, politics, technology, psychology and performance.</p> <p>CO3:Appraise the nature of representation on screen and how class, race ethnicity and sexuality are represented.</p> <p>CO4:Develop analytical skills so that the student can produce informed and thorough close readings of films.</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO5: Discover the articulation of a film's content, form and structure.</p> <p>CO6: Identify and define the formal and stylistic elements of film.</p> <p>CO7: Develop an understanding of film language and terminology, and analyze the ways in which that this language constructs meaning and ideology.</p> <p>CO8: Identify and interpret significant film movements and key concepts.</p> <p>CO9: Point out the diverse forms of the moving image, including, for example, the feature film, experimental and avant-garde cinema, video art and moving image installation, television and digital media</p>
ENG6B14	NEW LITERATURES IN ENGLISH	4	<p>CO1: Distinguish diverse cultures and modes of expression.</p> <p>CO2: Discuss issues of cultural plurality and hybridity</p> <p>CO3: Identify literary negotiations of colonization and decolonization, identity, inequality, marginalization and so on.</p> <p>CO4: Point out the canon of English literature, Commonwealth literature, Post Colonialism and the context of New Literatures</p>

ELECTIVES

SEMESTER VI

Course Code	Paper Name	Credits	Course Outcome
ENG6B17	WRITING FOR THE MEDIA	3	<p>CO1: Discuss the specificities and possibilities of the different kinds of media.</p> <p>CO2: Identify various writing styles in media.</p> <p>CO3: Develop technical and creative skills to write for the media.</p> <p>CO4: Assess and critique the latest trends in media.</p>

OPEN COURSE

SEMESTER VI

Course Code	Paper Name	Credits	Course Outcome
ENG5D01	ENGLISH FOR COMPETITIVE EXAMINATIONS	3	<p>CO1: Identify the important skills necessary for professional development</p> <p>CO2: Develop necessary linguistics skills that are relevant in English</p> <p>CO3: Appraise important aspects necessary for language development</p> <p>CO4: Recognize the importance of getting prepared for competitive exams</p>

PROJECT WORK/RESEARCH METHODOLOGY

SEMESTER VI			
Course Code	Paper Name	Credits	Course Outcome
ENG6B21	PROJECT WORK/ RESEARCH METHODOLOGY	2	CO1: Demonstrate knowledge of and an ability to conduct research work in the several areas related to language and literature. CO2: Identify, define and demonstrate the research problem CO3: Create original research projects which assess the contributions and/or complexities of a selected writer, literary movement, aspects of language etc. CO4: Assess, critique, evaluate a project work and construct meaningful tools for it.

Bachelor's Degree in Multimedia Communications (BMCC) / BA Multimedia

Information technology has brought out about revolutionary changes in human communication systems. Generally referred to as "multimedia products", these have become the most valued communication vehicles for sectors such as social services, commerce, industry, health care, education, governance and entertainment. Thereby, the demand for trained personal to produce multimedia products has increased several folds. To cater to this demand, there is need to structure the undergraduate programme in multimedia communication. The undergraduate programme called as Bachelor of Multimedia Communication (BMCC) is designed to cater to this need of students to equip them in the art and craft of Multimedia production, such as Film Production, Audio mixing, 3D Modeling, Website and Visual arts. The course enables them to emerge as thoroughbred professionals catering to the needs of a fast growing multimedia industry. The department of Multimedia has excellent infrastructure with video and still cameras, highly configured workstations and Faculty with professional experience.

DEPARTMENT OF MULTIMEDIA

PROGRAMME: BACHELOR OF ARTS IN MULTIMEDIA

PROGRAMME OUTCOMES (POs)

- PO1-** Demonstrate the history, development, and practice of the electronic media, new media and Print media
- PO2-** Design, and produce works in media, based on effective principles and practices of media Aesthetics for a target audience.
- PO3-** Develop the learner into competent and efficient Media & Entertainment Industry ready Professionals.
- PO4-** Prepare socially responsible media professionals, academicians, researchers, with global Vision.
- PO5-** Identify the existing and emerging employment opportunities in digital content creation and distribution within the rapidly-changing media industry.

COURSE OUTCOMES (COs)

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
BMM1B01 (CORE)	INTRODUCTION TO DIGITAL MEDIA	4	CO1 -Identify the emerging technologies of digital media CO2 -Explain the impact of new media in society CO3 -Demonstrate the use of technology in Media Industry. CO4 -Identify the basic features and functionality of internet. CO5 -Analyze latest trends in new media and computer aided communication CO6 -Examine the concepts like convergence of media, digital divide, virtual reality etc.
JOU1C04	INTRODUCTION TO MASS MEDIA (COMPLEMENTARY)	3	CO1 -Acquire the knowledge of fundamentals of communication CO2 - Identify the different kinds of print media CO3 - Identify the different kinds of Electronic media CO4 - Identify different kind of new media CO5 - Demonstrate understanding in the concepts of communication CO6 - Present seminar on the concept of freedom of expression
BVC1C02	INTRODUCTION TO VISUAL COMMUNICATION (COMPLEMENTARY)	3	CO1 -Acquire the knowledge of history of visual communication CO2 - Identify the basic elements and principles of visual communication CO3 - Students shall get a thorough theoretical background of visual communication CO4 - Explain visual cultures and visual literacy
SEMESTER II			
Course Code	Paper Name	Credits	Course Outcome
BMM2B02 (CORE)	CREATIVITY AND DESIGN SKILLS	4	CO1 -Develop a systematic, critical approach to problem solving at all levels of the design Process. CO2 -Develop basic drawing skills CO3 -Differentiate elements of painting and drawing CO4 -Apply the elements of design, principles of design and Aesthetics of design. CO5 -Illustrate the basics of drawing like lines, shapes and shading styles CO6 -Explain the color theory CO7 -Analyze the color Relationships, Harmonies, Monochromatic, and Analogous.
JOU2C04	NEWSPAPER JOURNALISM (COMPLEMENTARY)	3	CO1 - Appreciate the concepts of journalism CO2 - Write news reports CO3 -Understanding about newspaper organization CO4 - Editing a news report

Course Code	Paper Name	Credits	Course Outcome
BVC2C02	INTRODUCTION TO CINEMA (COMPLEMENTARY)	3	CO1- Appreciate cinema meaningfully CO2- Familiarize with the basic production techniques CO3- Explain Malayalam cinema CO4- Identifying terminologies in cinema
			SEMESTER III
BMM3B03 (CORE)	MEDIA PUBLISHING	2	CO1- Identify different printing methods and publishing techniques CO2- Demonstrate page make-up and typography with recent changes and development in the industry. CO3- Analyze the history of publishing, including print, digital, and other media CO4- Illustrate the fundamentals of page layout CO5- Explain basic elements and principles of design and its usage in page design CO6- Design brochure, posters, magazines etc.
BMM3B04 (CORE)	COMPUTER GRAPHICS	2	CO1- Compare different types of image file formats. CO2- Design attention-grabbing graphic designs to meet specific commercial or promotional needs, such as packaging, displays, or logos while meeting industry Standard specifications. CO3- Practice image Editing, retouching and archiving digital files using Adobe Photoshop CO4- Articulate design ideas verbally, visually, and digitally. CO5- Create print ads, digital art, web design, pattern design and photo manipulation. CO6- Synthesis designing elements in graphic designing process
BMM3B05 (CORE)	DIGITAL PHOTOGRAPHY	2	CO1- Demonstrate the Fundamentals of handling camera. CO2- Explain the science and art of image processing CO3- Analyze and interpret photographic images CO4- Practice elements of photography CO5- Compare different types of image file formats. CO6- Practice Landscape, portrait and Seascape photography CO7- Explain Silhouette Photography, Special Effects, Freezing Movement Photography, Panorama etc CO8- Analyze Basics of Camera, History of Photography, different types of cameras and basic lighting techniques CO9- Operate Aperture, Shutter speed, ISO and Focus. CO10- Manage Basic Lighting techniques indoor/ outdoor & Different types of lights & filters

Course Code	Paper Name	Credits	Course Outcome
BMM3B06	MEDIA PUBLISHING (PRACTICAL) & COMPUTER GRAPHICS (PRACTICAL)	2	<p>CO1-Design attention-grabbing graphic designs to meet specific commercial or promotional needs, such as packaging, displays, or logos while meeting industry standard specifications.</p> <p>CO2-Practice image Editing, retouching and archiving digital files using Adobe Photoshop</p> <p>CO3-Design various print layouts</p> <p>CO4-Practice Digital Drawing with illustrator</p>
BMM3B07	DIGITAL PHOTOGRAPHY (PRACTICAL)	2	<p>CO1-Explain Silhouette Photography, Special Effects, Freezing Movement Photography, Panorama e.t.c</p> <p>CO2-Analyse Basics of Camera, History of Photography, different types of cameras and basic lighting techniques</p> <p>CO3- Operate Aperture, Shutter speed, ISO and Focus.</p> <p>CO4- Manage Basic Lighting techniques indoor/ outdoor & Different types of lights & filters</p>
JOU3C04	TELEVISION JOURNALISM (COMPLEMENTARY)	3	<p>CO1-Demonstrate knowledge in concepts related to TV telecast</p> <p>CO2- Understanding terminologies in tv production</p> <p>CO3- Write news copies</p> <p>CO4- Understanding anchoring and interviewing in TV Journalism</p>
BVC3C02	SCRIPTING AND STORY BOARDING (COMPLEMENTARY)	3	<p>CO1-Acquire skills required for writing scripts</p> <p>CO2- Preparing story boards</p> <p>CO3- Identifying different genres</p>
A11	BASIC NUMERICAL SKILLS FOR MEDIA ARTS (GENERAL COURSE)	4	<p>CO1- Develop foundational skills in arithmetic, including operations with whole numbers, fractions, decimals, and percentages.</p> <p>CO2-Enhance problem-solving abilities by applying numerical concepts to real-life situations, fostering critical thinking and analytical skills.</p> <p>CO3- Gain competence in interpreting and using quantitative data, enabling informed decision-making and effective communication.</p> <p>CO4- Build confidence in mathematical manipulation, paving the way for more advanced studies and practical applications in various fields.</p>
A12	GENERAL INFORMATICS INSTRUMENTATION (GENERAL COURSE)	4	<p>CO1- Develop a solid grasp of measurement tools, sensors, and data systems.</p> <p>CO2- Data Analysis Skills: Interpret and draw insights from instrument-derived data.</p> <p>CO3- Problem-solving: Apply informatics to troubleshoot and optimize instrumentation challenges.</p>

SEMESTER IV			
Course Code	Paper Name	Credits	Course Outcome
BMM4B08 (CORE)	INTRODUCTION TO CINEMATOGRAPHY	2	CO1- Demonstrate the Fundamentals of handling Video camera CO2- Apply current best practices in cinematography CO3- Operate Video Camera, Video Lights and its related accessories. CO4- Analyze and apply various cinematography techniques & principles CO5- Manage to shoot various real-life conditions CO6- Practice Basic Lighting techniques indoor/ outdoor & Different types of lights & filters CO7- Produce their own short films and documentaries
BMM4B09 (CORE)	FUNDAMENTALS OF WEB DESIGNING	2	CO1- Explain the history of internet CO2- Use graphic design principles that relate to web design and learn how to implement theories into practice. CO3- Practice web page layout, Color schemes and typography CO4- Demonstrate basic elements of web designing CO5- Create web elements like buttons, banners & Bars
BMM4B10	INTRODUCTION TO CINEMATOGRAPHY (PRACTICAL)	2	CO1- Analyse and apply various cinematography techniques & principles. CO2- Manage to shoot various real-life conditions CO3- Practice Basic Lighting techniques indoor/ outdoor & Different types of lights & filters CO4- Produce their own short films and documentaries.
BMM4B11	FUNDAMENTALS OF WEB DESIGNING (PRACTICAL)	2	CO1- Use graphic design principles that relate to web design and learn how to implement theories into practice. CO2- Practice web page layout, Color schemes and typography CO3- Demonstrate basic elements of web designing CO4- Create web elements like buttons, banners & Bars.
JOU4C04	DIGITAL JOURNALISM (COMPLEMENTARY)	3	CO1- Illustrate understanding in the characteristics of new media CO2- Illustrate knowledge in new concepts in new media CO3- Identifying digital reporting techniques CO4- Identifying various issues in cyber space
BVC4C02	E-CONTENT DEVELOPMENT (COMPLEMENTARY)	3	CO1- Understanding of e-content fundamentals CO2- Illustrate knowledge in instructional strategy for E-content development CO3- Illustrate knowledge in instructional design and learning theories
A13	MEDIA MANAGEMENT (GENERAL COURSE)	4	CO1- Functions of Management CO2- Understand the dynamics of media platforms, industries, and technologies.

Course Code	Paper Name	Credits	Course Outcome
			<p>CO3- Audience Engagement Learn strategies to attract and retain target audiences effectively.</p> <p>CO4- Content Planning: Develop skills in creating, curating, and managing compelling media content.</p> <p>CO5- Strategic Management; Gain insights into media business operations, branding, and marketing for successful campaigns.</p>
A14	EVOLUTION OF MEDIA TECHNOLOGY (GENERAL COURSE)	4	<p>CO1-Historical Understanding: Comprehend the chronological development of media technologies, from print to digital and beyond.</p> <p>CO2-Technological Proficiency: Gain insights into the functioning of various media tools and platforms used for content creation and dissemination.</p> <p>CO3-Cultural Impact: Analyze how evolving media technologies have influenced societies, communication patterns, and cultural trends.</p> <p>CO4-Future Trends Awareness: Anticipate potential directions of media technology evolution, preparing for upcoming shifts and innovations in the field</p>
SEMESTER V			
BMM5B12 (CORE)	TECHNIQUES OF POST PRODUCTION – VISUAL EDITING	3	<p>CO1- Explain the history of film editing</p> <p>CO2- Demonstrate different types of editing</p> <p>CO3- Analyze the stages of Pre-production, Production and Post-Production of editing techniques.</p> <p>CO4- Explain the basic video terminologies</p>
BMM5B13 (CORE)	TECHNIQUES OF POST PRODUCTION –SOUND RECORDING, EDITING AND MASTERING	2	<p>CO1- Explain basic audio terminologies</p> <p>CO2- Explain the importance of the audio and the recording process.</p> <p>CO3-Demonstrate Fundamentals of analogue and Digital sounding Systems, Basicacoustics, sounding levels, Digital Audio Workstations (Eg.Nuendo) and concepts of Multi-track recording and editing.</p>
BMM5B14 (CORE)	INTRODUCTION TO 3D MODELING AND TEXTURING	2	<p>CO1-Apply various techniques of drawing for animation</p> <p>CO2- Create a 3D environment featuring lighting, texturing and lighting</p> <p>CO3- Develop an enthusiasm for personal enquiry into animation and the motivation to sustain it.</p> <p>CO4- Create various 3d models and texture them appropriately</p>
BMM5B15 (CORE)	ADVANCED WEB DESIGNING	2	<p>CO1- Use the language of the web: HTML and CSSb</p> <p>CO2-) Identify the techniques of responsive web design, including media queriesc</p> <p>CO3-Develop basic programming skills using Javascript andjQuery</p>

Course Code	Paper Name	Credits	Course Outcome
			CO4 -Integrate social media content into web pages CO5 -Explain the fundamentals of responsive web design CO6 -Construct a web site
BMM5B16	TECHNIQUES OF POST PRODUCTION – VISUAL EDITING (PRACTICAL) TECHNIQUES OF POST PRODUCTION –SOUND RECORDING, EDITING AND MASTERING (PRACTICAL)	2	CO1 -Practice Nonlinear video editing applications CO2 - work as a professional video editor CO3 - Practice Multi-track applications for importing Audio files, Adding audio tracks, BUSrouting, recording, editing, and audio with Effects and mixing audio, Principles Audiotransitions.
BMM5B17	INTRODUCTION TO 3D MODELING AND TEXTURING (PRACTICAL) ADVANCED WEB DESIGNING (PRACTICAL)	2	CO1 -Classify Polygonal Modeling, Modelling with NURBS and Modelling with Deformersand Subdivisions Surfaces CO2 - Recognize the role of drawing in basic shapes, Animal study, Human anatomy,Shading techniques, Live model study etc. CO3 - Turn the 3-dimensional models step by step, into full-fledged figures CO4 - Analyze each type of modeling editing: Lofting, Revolved Surface, Extruded Surface,Planar Surface, Beveled Surface, Boundary Surface Editing NURBS Surfaces PatchModeling etc.
BMM5D01	FUNDAMENTALS OF MULTIMEDIA (FOR OTHER STUDENTS)	3	CO1 -Define what is multimedia. CO2 -Explain five multimedia components. CO3 - Examine multimedia applications in several areas. CO4 - Classify multimedia software based on its function CO5 - Explain about digital video standards, formats and technology. CO6 - Differentiate between lossy and lossless compression CO7 -Identify the future multimedia computing technologies.
SEMESTER VI			
BMM6B18 (CORE)	ADVANCED 3D ANIMATION, VFX AND COMPOSITING	3	CO1 - a) Analyze the principles of animation. CO2 - Work in advanced techniques and methodologies of 3d character rigging. CO3 - Explain the importance of rotoscope and keying concepts in compositing work. CO4 -Demonstrate the camera concept and providing the same angle to the CG work CO5 -Practice compositing and color correction CO6 Identify major applications of compositing process used in industry. CO7 -Develop a visual effects pipeline

Course Code	Paper Name	Credits	Course Outcome
BMM6B19 (CORE)	INTRODUCTION TO MOTION GRAPHICS	3	<p>CO1-Produce attention-grabbing motion graphics for film, television, music videos, and the Web while meeting industry standard specifications.</p> <p>CO2-Demonstrate proficiency in the use of motion graphics software and hardware.</p> <p>CO3-Work as a visual effects artist</p> <p>CO4- Identify major applications of compositing process used in industry.</p> <p>CO5- Apply animation with different techniques (Frame, Keyframe, Cut-out, Stop-motion,etc.) using After Effects software</p>
BMM6B20	MULTIMEDIA DESIGNING & AUTHORING (ELECTIVE)	2	<p>CO1- Identify multimedia authoring, paradigm and tools.</p> <p>CO2- Analyze the basics of 2d animation deals with the basics of working with an animationwhere an artist will have studied about human anatomy.</p> <p>CO3-Examine basic principles behind animation and techniques</p> <p>CO4-Interpret the stages of multimedia production</p> <p>CO5-Identify basic animation structures, study of expressions, the poses for animationwith bone study and complete portrait sketching and live drawing.</p> <p>CO6-Identify a range of concepts, techniques and tools for creating and editing theinteractive multimedia applications</p> <p>CO7- Create a storyboard for the animation project</p> <p>CO8-Create 2D animation projects</p>
BMM6B21	TELEVISION & MULTI CAMERA PRODUCTION (ELECTIVE)	2	<p>CO1- Differentiate between the TV medium and Film medium.</p> <p>CO2-Develop an awareness of core producing and production management skills, required for the production of a Television programme.</p> <p>CO3- Differentiate between various cables, jacks, and plugs in common use.</p> <p>CO4-Demonstrate basic understanding of video switchers, character generators, and audio mixers</p> <p>CO5-Demonstrate a basic understanding of the operations of lighting equipment and 3-point lighting</p> <p>CO6-Demonstrate an elementary ability to coordinate (direct) a video production whichinvolves giving commands to a crew (which includes camera persons, VTR, technicaldirection, floor manager, talent, lighting, audio, etc.</p> <p>CO7- Design multi camera production</p> <p>CO8-Manage a Multi-camera shoot</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO9-) Demonstrate the grammar of studio production and the key roles of production team.</p> <p>CO10 Analyze the Production & Post production process in detail.</p> <p>CO11- Identify Research approaches and equip them with tools to carry on research</p> <p>CO12- Practical Experience in handling Video Camera and Video Lights, Multi Camera setup and console operation and non-linear editing system.</p>
BMM6B22	ADVANCED 3D ANIMATION & VFX (PRACTICAL)	2	<p>CO1- Recognize the key concepts of Maya (Animation)</p> <p>CO2- Learning different types of animation (Walkcycle)</p> <p>CO3-Analyze the term Visual Effects with Nuke</p> <p>CO4-Learn Rigging, Lighting, Camera and Dynamics with Autodesk Maya</p>
BMM6B23	INTRODUCTION TO MOTION GRAPHICS (PRACTICAL)	2	<p>CO1- Recognize the key concepts of Adobe After Effects and FCP</p> <p>CO2- Put in to practice the basic features of colour correction</p> <p>CO4- Apply the skills to make original animations with text and objects</p> <p>CO5- Combine video and still images, using backgrounds from Photoshop</p>
BMM6B24	MULTIMEDIA PROJECT	2	<p>CO1- Organize a multimedia production</p> <p>CO2-Apply theoretical, Technical, critical, and historical concepts when making style choices in their own projects and in referencing or analyzing the medium of cinema</p> <p>CO3- Demonstrate skills required to create quality media productions including skills in story development, producing, animation, cinematography, editing, and audioproduction/post production</p> <p>CO4-Demonstrate that they understand the pre-production, production, and postproduction of a multimedia production process</p> <p>CO5-Analyze story structure and the screen writing process for use in the critique and creation of a Multimedia production</p> <p>CO6-Manage as a leader or member of a film making team</p>
BMM6B25	WEBSITE PROJECT	2	<p>CO1- a) Develop a professional website</p> <p>CO2-) Identify the practical challenges in completing a website project</p> <p>CO3- Apply intermediate and advanced web development practices</p> <p>CO4- Create basic JavaScript</p> <p>CO5-Create web pages that function using external data</p>

Bachelor's Degree in Sociology

Sociology is a subject that directly deals with the functioning of the society, social relations, and the emerging social problems. An in-depth understanding of the society one lives in supplies a lot of positive energy to the student for facing future life in whatever form, be it in facing the day to day challenges or skill and career development. A basic degree in Sociology entitles the students to go for higher studies in other Humanity subjects such as Psychology, Anthropology, MSW, Criminology, Women Studies, Medical Sociology, etc. Sociologists are in great demand in a fast developing industrial society like ours.

POST GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIOLOGY PROGRAMME: BACHELOR OF ARTS IN SOCIOLOGY

PROGRAMME OUTCOMES (POs)

PO1- To equip the students to critically understand and interpret social reality.

PO2- To generate in students a distinct sociological perspective on socioeconomic and cultural reality.

PO3- To enhance the social sensitivity and sensibility of the students.

PO4- To help students acquire skills that will be useful to them in their personal and professional life.

COURSE OUTCOMES (COs)

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
SGY1B01	BASICS OF SOCIOLOGY	4	CO1- Comprehension of the uniqueness of the sociological imagination CO2- Recognizing the difference between sociology and commonsense. CO3- Conceptualization of society in the abstract. CO4- Understanding the relation between the individual and society. CO5- Understanding the parts and processes within society
SEMESTER II			
SGY2B02	INDIAN SOCIETY: STRUCTURE AND TRANSFORMATION	4	CO1- To develop a sociological perspective for understanding the dynamics of Indian Society CO2- To sensitise the changes occurred in the various institutions in Indian Society CO3- To aware the issues and challenges of contemporary society

Course Code	Paper Name	Credits	Course Outcome
SEMESTER III			
SGY3B03	SOCIOLOGICAL THEORY: AN INTRODUCTION	4	<p>CO1- To provide an understanding of the historical condition in which sociology originated and developed as an independent academic discipline.</p> <p>CO2- To understand the intellectual and philosophical foundations of Sociological theories and contributions of Classical theorists to Sociology.</p>
SGY3B04	SOCIAL STRATIFICATION AND INEQUALITY	4	<p>CO1- Critical understanding of the approaches, theories and dimensions of social stratification</p> <p>CO2- Understanding social stratification as a cause of marginalisation</p> <p>CO3- Contextualising social stratification in a caste-class-disability framework.</p>
SEMESTER IV			
SGY4B05	INTRODUCTION TO SOCIAL RESEARCH	4	<p>CO1- To familiarise the nature and scope of social research</p> <p>CO2- To understand steps and methods of social research</p> <p>CO3- To distinguish the characteristics of qualitative and quantitative research</p>
SGY4B06	SOCIOLOGY OF KERALAM	4	<p>CO1- Recollect the social and cultural history of Kerala society</p> <p>CO2- Understand the major social transformation in Kerala and its implications in present society</p> <p>CO3- Analyses various sociocultural issues concerning Kerala society through sociological lens</p>
SEMESTER V			
Course Code	Paper Name	Credits	Course Outcome
SGY5B07	SOCIAL ANTHROPOLOGY	5	<p>CO1- Understanding the basic concepts of Anthropology</p> <p>CO2- familiarize with Anthropological studies in India by focusing on Tribal Communities in the country in general and in the state of Kerala in particular</p>
SGY5B08	SOCIOLOGY OF RURAL AND URBAN SOCIETIES	4	<p>CO1- Understanding major concepts and theoretical perspectives in urban sociology</p> <p>CO2- Familiarizing the views on urban social life</p> <p>CO3- Understanding the nature of urbanisation process in Indian context</p> <p>CO4- Perceiving the urbanisation process as a spatial transformation with a focus on Kerala scenario</p> <p>CO5- Achieve critical sensibility towards social, economic and political dimensions involved in decentralized governance in Kerala and their impact on land use pattern.</p>

Course Code	Paper Name	Credits	Course Outcome
SGY5B09	WOMEN IN CONTEMPORARY SOCIETY	4	CO1- Understanding some major themes in gender knowledge CO2- Conceptual clarity regarding women's studies and feminism CO3- Grasp on structural issues faced by women CO4- Knowledge about factors affecting the status of women in Kerala over time CO5- Critical awareness regarding women empowerment in Kerala
SGY5B10	ENVIRONMENT AND SOCIETY	4	CO1- Learn the principles and major areas in the areas of sociology of environment CO2- Understand the relationship between environment and human society. CO3- Comprehend the necessities of having environmental awareness. CO4- Gain awareness of the various environmental issues confronting in our immediate surroundings.
SGY5 D01 (Open Course)	LIFE SKILL DEVELOPMENT	3	CO1- Attaining knowledge of necessary life skill for the application in everyday life CO2- Equip with the quality of addressing issue relevant to the life situations CO3- Enable to establish productive interpersonal relationships with others
SEMESTER VI			
SGY6B11	INVITATION TO SOCIOLOGICAL THEORY	4	CO1- Traces the transformation from social thought to Sociological theory CO2- Identifies the basic components of theory CO3- Develops a sociological thinking CO4- Recognises the paradigmatic orientations in Sociology CO5- Evaluates Sociology as a humanistic discipline
SGY6B12	SOCIAL PSYCHOLOGY	4	CO1- Understanding of basic concepts in social psychology CO2- Understanding the basic psychological Process CO3- Aware the significance of attitude in developing social behaviour. CO4- Basic understanding on personality and its relation with social system
SGY6B13	POPULATION STUDIES	4	CO1- To provide a basic theoretical explanation of population studies and related concepts. CO2- To provide critical analysis of the population theories CO3- To analyse the changes in population in society

Course Code	Paper Name	Credits	Course Outcome
SGY6B14	POLITICAL SOCIOLOGY	3	CO1 -famliarising the theoretical and conceptual discussions on Power and Politics CO2 -Understanding the dynamics of Power CO3 -Critically evaluating the political process in India
SGY6 B15 (Elective Course)	LIFE SKILL EDUCATION	3	CO1 -To provide with the knowledge of necessary life skill for the application in everyday life CO2 -To enhance the quality of addressing issue relevant to the life situations CO3 -To enable the students to establish productive interpersonal relationships with others CO4 -To equip students for handling specific issues

B. Sc. Geology

The Subject of Geology is of great practical importance to the mankind. This branch of science contributes not only for the development of nature resources but also for the development of the country. It promises a wide range of opening in the field of coals and petroleum mining, Hydrogeology, Oceanography and Meteorology.

POST GRADUATE DEPARTMENT OF APPLIED GEOLOGY

PROGRAMME: BSc. GEOLOGY

PROGRAMME OUTCOMES (POs)

PO1. Critical Thinking: Take informed actions after identifying the assumptions that frame ourthinking and actions, checking out the degree to which these assumptions are accurateand valid, and looking at our ideas and decisions (intellectual, organizational, andpersonal) from different perspectives.

PO2. Problem Solving: Understand and solve problems of relevance to society to meet thespecified needs using the knowledge, skills and attitudes acquired from humanities/sciences/mathematics/social sciences.

PO3. Effective Communication: Speak, read, write and listen clearly in person and throughelectronic media in English and in one Indian language, and make meaning of the worldby connecting people, ideas, books, media and technology.

PO4. Effective Citizenship: Demonstrate empathetic social concern and equity centred nationaldevelopment, and the ability to act with an informed awareness of issues and participatein civic life through volunteering.

PO5. Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

PO6. Self-directed and Life-long Learning: Acquire the ability to engage in independent and lifelonglearning in the broadest context socio-technological changes

COURSE OUTCOMES (COs)

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
GEO1B01	ESSENTIALS OF GEOLOGY	3	<p>CO1:The student will be able to explain the origin and evolution of earth, various branches of Geology and elementary ideas of plate tectonics.</p> <p>CO2:The student will be able to identify the various methods of age determination of earth and about the time span represented by the Geological Time Scale.</p> <p>CO3:The student will be able to discuss about the nature of crystals, the role of minerals in making rocks and about the rock cycle.</p> <p>CO4:The student will be able to describe in detail about earthquakes, volcanism, mass movements and marine processes</p>
SEMESTER II			
GEO2B03	DYNAMIC GEOLOGY AND GEOINFORMATICS	3	<p>CO1:The student will be able to explain the work of various geological agents, the different processes involved and the resulting land forms</p> <p>CO2:The student will be able to describe the fundamental concepts of GIS and its applications in geosciences</p> <p>CO3:The student will be able to discuss the basics of remote sensing, different satellite data products, platforms and sensors</p>
SEMESTER III			
GEO3B05	CRYSTALLOGRAPHY AND MINERALOGY	3	<p>CO1:The student will be able to explain the different crystal systems, symmetry elements and classification of crystals</p> <p>CO2:The student will be able to describe the symmetry elements and forms of the different classes of cubic, tetragonal, hexagonal, orthorhombic, monoclinic and triclinic systems with special reference to the type minerals</p> <p>CO3:The student will be able to discuss about twin crystals, effects of twinning and law</p> <p>CO4:The student will be able to describe the physical and chemical properties of minerals</p>
SEMESTER IV			
GEO4B07	OPTICAL AND DESCRIPTIVE MINERALOGY	4	<p>CO1:The student will be able to explain double refraction, polarized light and the working of petrological microscope.</p> <p>CO2:The student will be able to discuss about the optical classification of minerals and their various optical properties.</p> <p>CO3:The student will be able to discuss about the different mineral groups and their properties</p>

Course Code	Paper Name	Credits	Course Outcome
GEO4B08 (P)	GEOINFORMATICS, CRYSTALLOGRAPHY AND MINERALOGY	2	<p>CO1:The student will be able to work with a GIS software. To learn with the possibilities of software in the study of coordinates and toposheets</p> <p>CO2:The student will be able to identify and classify the crystal models according to the symmetry elements</p> <p>CO3:The student will be able to identify and classify the mineral using its physical properties.</p> <p>CO4:The student will be able to identify and classify the mineral using its optical properties.</p>
SEMESTER V			
GEO5B09	STRUCTURAL GEOLOGY AND GEOTECTONICS	3	<p>CO1:The student will be able to describe the fundamental field techniques of structural geology using Brunton compass.</p> <p>CO2:The student will be able to discuss rock deformation and various structural features</p> <p>CO3:The student will be able to explain the structure and characteristics of layers of the Earth</p> <p>CO4:The student will be able to describe the concept of plate tectonics and the tectonic evolution of Indian subcontinent.</p>
GEO5B10	STRATIGRAPHY AND SEDIMENTOLOGY	3	<p>CO1:The student will be able to explain the different types of stratigraphic classification.</p> <p>CO2:The student will be able to explain the sedimentary processes, classification of sedimentary rocks and different types of sedimentary rocks</p> <p>CO3:The student will be able to describe the textures and structures of sedimentary rocks.</p> <p>CO4:The student will be able to discuss the important and typical sedimentary rock types</p>
GEO5B11	IGNEOUS PETROLOGY	3	<p>CO1:The student will be able to explain the composition and constitution of magma and forms of intrusive igneous rocks</p> <p>CO2:The student will be able to describe the textures and structures of igneous rocks</p> <p>CO3:The student will be able to discuss the different classification schemes of igneous rocks.</p> <p>CO4:The student will be able to explain the crystallization of unicomponent magma, crystallization and petrogenetic significance of Binary magmas</p> <p>CO5:To describe the various rock types giving their texture, mineralogy, classification, and modes of occurrence.</p>

Course Code	Paper Name	Credits	Course Outcome
GEO5B12	METAMORPHIC PETROLOGY	3	<p>CO1:The student will be able to describe the limits, variables and types of metamorphism.</p> <p>CO2:The student will be able to explain the metamorphic structures, textures and mineral paragenesis.</p> <p>CO3:The student will be able to explain metamorphic grade, metamorphic facies and the effects of metamorphism on various types of rocks.</p> <p>CO4:The student will be able to discuss the petrography and origin of common metamorphic rocks, concepts of prograde and retrograde metamorphism.</p> <p>CO5:The student will be able to explain UHP and UHT metamorphism; anatexis and Migmatite; metamorphic differentiation, geothermometry and geobarometry; P-T-t paths and tectonic environments</p>
SEMESTER VI			
GEO6B17	PALAEONTOLOGY	4	<p>CO1:The student will be able to describe the fossils and their preservation and uses.</p> <p>CO2:The student will be able to explain the general morphology, geological history, distribution and stratigraphic significance of the important phylums of organisms.</p> <p>CO3:The student will be able to discuss a brief outline of the classification of vertebrates, general classification of plant kingdom and plant fossils from India.</p>
GEO6B18	INDIAN GEOLOGY	4	<p>CO1:The student will be able to explain the Precambrian stratigraphy of India with particular reference to the important rock units.</p> <p>CO2:The student will be able to explain the Palaeozoic stratigraphy of India with particular reference to the important rock units.</p> <p>CO3:The student will be able to explain the Mesozoic stratigraphy of India with particular reference to the important rock units.</p> <p>CO4:The student will be able to explain the Cenozoic stratigraphy of India with particular reference to the important rock units.</p>
GEO6B19	ECONOMIC GEOLOGY	4	<p>CO1:The student will be able to explain the geochemical distribution of elements, materials of mineral deposits, metallogenic epochs and provinces, geologic thermometers.</p> <p>CO2:The student will be able to describe the classification of mineral deposits.</p> <p>CO3:The student will be able to explain the various processes of ore formation.</p> <p>CO4:The student will be able to describe the diagnostic physical properties, chemical composition, uses, modes</p>

Course Code	Paper Name	Credits	Course Outcome
			of occurrence and distribution in India of the important ore minerals. CO5: To report the uses, classification, constitution, origin and distribution in India of fossil fuels.
GEO6B22 (E01)	ENVIRONMENTAL GEOLOGY	3	CO1: The student will be able to describe the scientific method as applied in the earth sciences; and explain the fundamental concepts and man as a geological agent CO2: The interaction of man and environmental hazards; explain how earth processes create hazards to life and property CO3: The interaction of man and Hydrosphere and the interaction of man and atmosphere CO4: Learn about the global energy scenario and geology and waste management
GEO6B20 (P)	STRUCTURAL AND ECONOMIC GEOLOGY	4	CO1: The student will be able to solve structural problems. CO2: The student will be able to megascopically identify and describe the mineral together with a description of their Indian occurrences and uses.
GEO6B21 (P)	PETROLOGY AND PALAEONTOLOGY	4	CO1: The student will be able to identify and classify the rocks using its optical properties and mineralogy CO2: The student will be able to identify and classify fossils according to their morphological features.

B. Sc. Biotechnology

Biotechnology is the technological application that uses biological systems, living organisms or derivatives thereof to make or modify products or processes for specific uses. It is dependent on knowledge and methods from outside the sphere of biology including bio-informatics, bio-process engineering, chemical engineering also expanded to new and diverse sciences such as genomics, recombinant gene technologies, applied immunology, diagnostic test etc.

PROGRAMME OUTCOME (POS)

PO1:Acquire basic knowledge about fundamentals of Biotechnology programme.

PO2:Understand the technological components in Biotechnology after acquiring basics of classical science and engineering.

PO3:Apply the Biotechnology for the large-scale exploration in healthcare, agriculture, environment and industry.

PO4:Analyze the basic problems that can be addressed by biotechnology.

PO5: Appreciate difference between technologies adopted by Biotechnology over the other technologies.

PO6:Perceive the option of higher studies in the specific area or in a biotechnology based industrial venture.

COURSE OUTCOMES (COs)

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
BTY1B 01	CELL BIOLOGY	3	<p>CO1:Basics of structural organization of prokaryotic and eukaryotic cell.</p> <p>CO2:Cell organelles and its properties.</p> <p>CO3:Clear idea of Interaction between cell and its environment.</p> <p>CO4:Overview of cell division in prokaryotes and eukaryotes</p> <p>CO5:Acquire knowledge about of cell signaling, stem cells and cancer.</p>
BTY1C 01	ENVIRONMENTAL BIOTECHNOLOGY	2	<p>CO1:Basic concepts of ecology and ecological relationships between organisms and their environment</p> <p>CO2:Overview of diversity of life forms in an ecosystem.</p> <p>CO3:Identify a number of habitats from the different ecosystem.</p> <p>CO4: Correlate choice of habitat for organisms to Abiotic Factors.</p> <p>CO5:Identify the role of the organism in energy transfers.</p> <p>CO6:Ecology of Communities and Dynamics of Population.</p> <p>CO7:Ecological Cycles and human influences on ecosystem.</p> <p>CO8:Strategies of pollution control and waste management.</p> <p>CO9:Experimental design, understanding and use of information from scientific articles.</p> <p>CO10: Ecological problems of humanity and nature protection, which includes biological variability.</p>
SEMESTER II			
Course Code	Paper Name	Credits	Course Outcome
BTY2B 02	GENERAL MICROBIOLOGY	3	<p>CO1:Know the history of microbiology and classes of microorganisms.</p> <p>CO2:Know the Difference between eukaryotic & prokaryotic cells.</p> <p>CO3:Concept of sterilization, Methods of sterilization of media and equipment.</p> <p>CO4:Isolation of pure cultures.</p> <p>CO5:Brief account of microbial diseases.</p>
BTY2CO2	ENVIRONMENTAL BIOTECHNOLOGY	2	<p>CO1:Basics of Water pollution and bacteriological examination of water.</p> <p>CO2:Various treatments involved in waste water treatment.</p> <p>CO3:Advantages and application of primary, secondary and tertiary waste water Treatment.</p> <p>CO4:Detailed exposure to Biological wastewater treatment processes.</p> <p>CO5:Principles and application of water purification methods.</p>

SEMESTER III			
Course Code	Paper Name	Credits	Course Outcome
BTY3BO3	BIOCHEMISTRY	3	<p>CO1:Demonstrate the separation techniques in biochemistry and to apply them in basic scientific research.</p> <p>CO2:Quantify the biological macro and micro molecules in different samples.</p> <p>CO3:Explain the basic principles behind biochemistry.</p> <p>CO4:Explain the structure and functions of four major biological macromolecules.</p> <p>CO5:Outline the major metabolic pathways in human.</p> <p>CO6: Identify the role of regulatory molecules in human body.</p>
BTY3C03	ENVIRONMENTAL BIOTECHNOLOGY	3	<p>CO1:Identify the sources of solid waste pollution and classify them based on their physical and chemical properties. Adopt simple techniques of solid waste management such as landfill composting and vermicomposting in their residence and vicinity.</p> <p>CO2:To apply the microbial and floral processes to diminish the solid waste in a specific land area.</p> <p>CO3:Understand the biochemical mechanism of xenobiotic and recalcitrant degradation using microorganisms.</p> <p>CO4:Create awareness of emerging concerns related to air pollution and new technologies for addressing these.</p> <p>CO5:Demonstrate advanced skills in performing literature searches and presenting a critical appraisal.</p>
A11	BIODIVERSITY SCOPE AND RELEVANCE	5	<p>CO1:Understand different levels of biodiversity.</p> <p>CO2:Outline the main reasons for decline and threats to biodiversity.</p> <p>CO3:Identify important approaches and practices in biodiversity conservation and management.</p> <p>CO4:Develop an understanding of ethical and aesthetic value of biodiversity.</p>
A12	RESEARCH METHODOLOGY	5	<p>CO1:Develop understanding on framework of research process.</p> <p>CO2:Identify various sources for literature review and data collection</p> <p>CO3:Understand ethical issues in research</p> <p>CO4:Develop an understanding on project writing, thesis writing and presentation.</p>
SEMESTER IV			
A14	INTELLECTUAL PROPERTY RIGHTS	5	<p>CO1:The students are expected to have the following learning outcomes:</p> <p>CO2:Acquire skill to understand the concept of intellectual property rights and to develop procedural knowledge to Legal System.</p> <p>CO3:Demonstrate the importance of patent and also demonstrate process/procedures of drafting/filing a patent grant.</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO4:Demonstrate the usage of copyrights/ trademarks and related rights and their functions.</p> <p>CO5:Equipped with knowledge in protecting “industrial design”, which could be an intellectual property of their experimental design.</p> <p>CO6:Ability to solve issues relating to intellectual property rights in scientific inventions especially in biotechnological industries.</p> <p>CO7:Also analyze ethical and professional issues which arise in the intellectual property law context.</p> <p>CO8:Students will be able to analyze the effects of intellectual property rights on society as a whole.</p>
BTY4BO5	GENETICS	3	<p>CO1:In-depth knowledge about the basis of hereditary and how characters are transferred from one generation to another</p> <p>CO2:Understand the mechanistic pathways by which characters are transferred in microorganism</p> <p>CO3:Students gain insight into the various genetic disorders and determine the probability of these disorders emerging in a family</p> <p>CO4:Understand the statistical method to determine the presence of a character within a population</p> <p>CO5:Gain knowledge in analysis and comparing different organism and group to their nearest neighbor on the basis of characters and genomic composition</p>
BTY4 C04	ENVIRONMENTAL BIOTECHNOLOGY	3	<p>CO1: Learn different techniques to reduce a load of chemicals in the environment by applying biofertilizers, biopesticides, and microbial consortiums.</p> <p>CO2:Learn the theory involved in the production of biofuels from biomass and lignocellulosic waste.</p> <p>CO3:Differentiate the advantages and disadvantages of “Single Cell Protein” (SCP) for human consumption and bioplastics for the environment.</p> <p>CO4:Know the biochemical mechanism, optimum condition behind bioleaching, and the microbial consortium used in the same.</p> <p>CO5:Demonstrate advanced skills in performing literature searches and presenting a critical appraisal.</p>
SEMESTER V			
BTY5B 07	MOLECULAR BIOLOGY	4	<p>CO1:Molecular Biology gives an in-depth knowledge of biological process through the investigation of the underlying molecular mechanisms.</p> <p>CO2:Demonstrate the main structural elements and processes that participate in reproduction, growth, maintenance and regulation of the cell.</p> <p>CO2:Explain the fundamental structure, properties and processes in which nucleic acids play a part.</p> <p>CO3:Discuss the molecular mechanisms by which DNA</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>controls development, growth or morphological characteristics of organisms.</p> <p>CO4: Explain the principles of cloning and genetic manipulation and their application in genetic analysis</p> <p>CO5: Demonstrate the knowledge of common and advanced laboratory practices in cell and molecular biology.</p> <p>CO6: Understand and apply the principles and techniques of molecular biology which prepares students for further education and employment in teaching, basic research, or the health professions.</p> <p>CO7: They can critically and quantitatively analyze scientific data, either their own original data or the published data of others.</p> <p>CO8: They can define a specific hypothesis and design an experiment to test it, also work collaboratively in team to produce a joint intellectual product.</p> <p>CO9: With the knowledge of Molecular biology, the student can obtain a position in both public and private sector as a consultant in biochemical, pharmaceutical, biomedical and biotechnological industry</p>
BTY5B08	IMMUNOLOGY AND IMMUNO-TECHNOLOGY	4	<p>CO1: Demonstrate how the immune system works building on their previous knowledge from biochemistry, genetics, cell biology and microbiology.</p> <p>CO2: Know the cellular ontogeny and organs involvement in immunity.</p> <p>CO3: Explain the principles of self-tolerance and autoimmunity.</p> <p>CO4: Able to provide an overview of the interaction between the immune system and pathogens.</p> <p>CO5: Understand the molecular basis of complex, cellular processes involved in inflammation and immunity, in health and disease.</p> <p>CO6: Effectively communicate the understanding of basic mechanisms and therapeutic implications.</p> <p>CO7: Develop critical thinking and use of primary research publications to understand the scientific processes which lead them to draw hypothesis and scientific discovery.</p>
BTY5B09	BIOPROCESS TECHNOLOGY	4	<p>CO1: Students will acquire knowledge about the underlying principles of bioprocess unit operations like fermentation, downstream processing including the types and use parts of a fermenter.</p> <p>CO2: Also have knowledge about genetic engineering for recombinant protein expression and production from various cell systems has advanced knowledge about factorial experimental set up.</p> <p>CO3: They will understand how industrially useful microorganisms are getting isolated and preserved and the processes of using it for synthesis of industrially important products like Antibiotics, organic acids,</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>enzymes, Single cell proteins, vitamins.</p> <p>CO4:They will have a strong knowledge about the techniques of development of a new industrially important microorganism.</p> <p>CO5:Also understand how to select suitable bioreactor for desired application and also to select suitable separation system for downstream processing. Practical outcome:</p> <p>CO6:Knowledge about isolating antibiotic producing microbes</p> <p>CO7:Perform fermentation of grape juice, Microbial enzyme and biomass production</p>
BTY5D010	PEN COURSE INTRODUCTION TO BIOTECHNOLOGY	3	<p>CO1: Knowledge about the introduction and history of biotechnology.</p> <p>CO2:Acquire knowledge about the basic principle of Fermentation.</p> <p>CO3:Application of Biotechnology in food industry, agriculture and medicine.</p> <p>CO4:DNA finger printing and paternity test</p>
SEMESTER VI			
BTY6B13	PLANT BIOTECHNOLOGY	4	<p>CO1:The goal of this course is to introduce biotechnological methods in plant system.</p> <p>CO2:Understanding of biotechnological processes and also has applicative value in pharmaceutical and food industry.</p> <p>CO3:Basis of Plant Tissue culture and its importance.</p> <p>CO4:This course explores the use of biotechnology tools in manipulating the plant system.</p> <p>CO5:A problem-based learning approach is employed to demonstrate the use of various technologies.</p>
BTY6B14	ANIMAL BIOTECHNOLOGY	3	<p>CO1:Comprehensive knowledge of the outline of how a cell culture lab should be designed and maintained.</p> <p>CO2:Learn how to culture and maintain animal cells.</p> <p>CO3:Understand the role of different components and their importance for a healthy culture</p> <p>CO4:Understand how to subculture and store the cells</p> <p>CO5:Gain insight into the methods to determine cytotoxicity which in turn can be used to validate drugs for cancer</p> <p>CO6:The students at the end of this course would be experienced in culturing of animal cells and utilizing cells as a source for economically important proteins</p>
BTY6B15	RECOMBINANT DNATECHNOLOGY AND BIOINFORMATICS	3	<p>CO1:The objective of the course is to familiarize the students with the basic concepts in genetic engineering; to acquaint the students to versatile tools and techniques employed in genetic engineering and recombinant DNA technology; and to appraise them about applications</p>

Course Code	Paper Name	Credits	Course Outcome
			genetic engineering. CO2: To acquire knowledge in Gene regulation and recombinant protein production. CO3: Gain the information about Bioinformatics, Biological Databases and Sequence alignment tools.
BTY6 B17	MEDICAL BIOTECHNOLOGY	3	CO1: Medical biotechnology is an application of biotechnology that touches the lives of individuals every day. Both wellness and illness have ties to biotechnology. CO2: This new level of understanding has, in turn, created opportunities for the development of new therapies, drugs, diagnostic tools and research/clinical instrumentation. CO3: Medical biotechnology is one of the fastest growing opportunities for employment in the medical research field. Scientists are looking at the genetic causes of diseases, genetic links among family members, and individualized cures. As the Human Genome Project continues to map the locations of genes on human chromosomes, more solutions to the cause, prevention and cure of diseases will be discovered. CO4: This chapter will offer information on the growth structure development and other characteristics of microscopic organism such as bacteria algae or fungi CO5: Demonstrate theory and practical skills in microscopy and their handling techniques and staining procedures

B. Sc. Microbiology

Microbiologists play a significant role in society, as they are the people who conduct research on the positive as well as negative effects of micro organism on humans. A Microbiologist can opt for a career as Bio-technologist, Food Microbiologist, Biomedical Scientist, Geneticist, Pro-micrologist and Virologist. Career options like Science Writer and Lecturer are also open to Microbiologists.

POST GRADUATE DEPARTMENT OF MICROBIOLOGY PROGRAMME: BACHELOR OF SCIENCE IN MICROBIOLOGY PROGRAMME OUTCOMES (POs)

PO1:To acquire knowledge about the fundamental principles and scientific theories related to various scientific phenomena in day-to-day life.

PO2: To develop communication skills and get expertise in scientific writing.

PO3: Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments. Equip them with the skills to think creatively and draw logical inferences from the scientific experiments to draw the objective conclusions or provide new solutions to the problems.

PO4: To get an awareness of the impact of science on the environment and society.

COURSE OUTCOMES (COs)

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
MBG1B01	GENERAL MICROBIOLOGY	3	<p>CO1-Sketch the historical events in the developments of Microbiology as a discipline emphasizing the contributions of the scientists.</p> <p>CO2- Compare the difference between the basic cell types, Eukaryote, Prokaryote, Virus, Actinomycetes and Archaeobacteria.</p> <p>CO3- Describe the ultra-structure of a bacterial cell helping to study the further biochemical and physiological reactions inside the cell</p> <p>CO4- Discuss various microscopes and compare the different types of light and electron Microscope</p> <p>CO5:-Explain the various staining techniques and to distinguish their application in Microbiology</p> <p>CO6- Discuss the sterilization procedures and to implement it to maintain a hygienic environment</p>
BIOCHEMISTRY (COMPLEMENTARY)			
BCH1C01	BIOCHEMISTRY I	3	<p>CO1-Recognize Biochemistry as a discipline and understand the basic concepts of biochemical evolution</p> <p>CO2-Understand the isomerism of carbohydrates and conceptualize monosaccharides, disaccharides and polysaccharides</p> <p>CO3-Illustrate the features of amino acids and proteins and analyze structural levels of organizations of proteins and their reactions</p> <p>CO4-Explain the structure of RNA and DNA</p> <p>CO5-Describe the structure, properties, major classes and roles of lipids.</p>
BCH1C05	BIOCHEMISTRY PRACTICAL I		<p>CO1- Identify laboratory requirements, instruments and their uses.</p> <p>CO2-Perform colorimetric analysis and verify the principles involved</p> <p>CO3-Analyze biochemical samples qualitatively.</p> <p>CO4:-Identify various biomolecules in the samples using standard protocols.</p>
SEMESTER II			
MBG2B02	MICROBIAL PHYSIOLOGY AND TAXONOMY	3	<p>CO1-Discuss the environmental and nutritional factors affecting the microbial growth and classify them according to these</p> <p>CO2-Describe the mechanism of nutrient transportation across the bacterial membranes</p> <p>CO3-Explain the preparation of various cultural media and to distinguish them for microbial cultivation</p> <p>CO4-Differentiate various cultural methods and preservation techniques</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO5-Illustrate the reproduction systems and the growth phases of bacteria and bacteriophages</p> <p>CO6-Examine various methods for estimation of microbial cells</p> <p>CO7-Analyze the taxonomy of microorganisms through the comparative study of various criteria used and classify them into corresponding groups</p>
BIOCHEMISTRY (COMPLEMENTARY)			
BCH2C02	BIOCHEMISTRY II	2	<p>CO1-Identify the types of molecular interactions, concepts on acids, bases and solutions, and the physical aspects of Biochemistry.</p> <p>CO2- Describe the transport of molecules across the cell.</p> <p>CO3- Explain plasma proteins, coagulation of blood and maintenance of pH of the blood</p> <p>CO4- Outline the principles and applications of chromatography techniques.</p> <p>CO5-Comprehend different types of electrophoretic techniques.</p> <p>CO6-Define absorption photometry and explain its application</p>
BCH1C05	BIOCHEMISTRY PRACTICAL II		<p>CO1-Understand the preparation of solutions.</p> <p>CO2- Perform colorimetric analysis and verify the principles involved</p> <p>CO3- Develop basic practical skills in quantitative estimation of biomolecules and their separation techniques</p>
SEMESTER III			
MBG3B03	ENVIRONMENTAL AND SANITATION MICROBIOLOGY	4	<p>CO1-Describe the organisms in air with their sources and distribution</p> <p>CO2-Explain the methods of waste water treatment, air sampling, solid waste management, bioremediation and bioleaching</p> <p>CO3-Discuss the microbial distribution in aquatic environment with special emphasis on factors affecting them</p> <p>CO4-Compare the water purification procedures and the tests for the microbiological examination of water</p> <p>CO5-Explain air borne and water borne diseases with their mode of transmission</p> <p>CO6-Discuss the concept of xenobiotics and related environmental problems</p>
BIOCHEMISTRY (COMPLEMENTARY)			
BCH3C03	BIOCHEMISTRY III	2	<p>CO1-Learn the basics of enzymology along with conceptualizing Km and LB Plot and illustrating the types of enzyme inhibition</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO2- Familiarize the process of ATP formation and review glycolysis, glycogen metabolism, gluconeogenesis and HMP pathway.</p> <p>CO3- Understand mechanisms of TCA cycle and oxidative phosphorylation</p> <p>CO4- Outline photophosphorylation and analyse calvin cycle and glyoxylate cycle</p>
BCH1C05	BIOCHEMISTRY PRACTICAL III		<p>CO1- Perform colorimetric assays</p> <p>CO2- Estimate biomolecules quantitatively and illustrate their clinical implications.</p>
SEMESTER IV			
MBG4B04	SOIL AND AGRICULTURAL MICROBIOLOGY	4	<p>CO1- Recall different types of soils and soil properties</p> <p>CO2- Distinguish the different groups of microorganisms present in soil and the factors affecting their growth</p> <p>CO3- Describe the concept of ecosystem and its components and concept of biogeochemical cycles and N, S and P cycles</p> <p>CO4- Differentiate different types of biological interactions such as microbe-microbe, plant-microbe and animal-microbe</p> <p>CO5- Explain the symptoms, disease cycle and control measures of different bacterial, viral and fungal diseases of plants</p> <p>CO6- Discuss the potential of different microorganisms in agriculture as biofertilizers and biopesticides</p>
MBG4B05 (P)	MICROBIOLOGY PRACTICAL 1	4	<p>CO1- Familiarize with parts of a microscope and apply light Microscopy in microbiological studies</p> <p>CO2- Apply the skill of the staining for microscopic visualization</p> <p>CO3- Acquaint with common methods of sterilization and to apply the sterilization procedures in a microbiology laboratory and similar places where hygiene has to be maintained</p> <p>CO4- Prepare different types of media for the cultivation of microorganisms in a microbiological lab</p> <p>CO5- Determine the effect of various factors influencing the growth of microorganisms</p> <p>CO6- Demonstrate techniques for isolation and enumeration of microbes from various samples</p>
BIOCHEMISTRY (COMPLEMENTARY)			
BCH3C03	BIOCHEMISTRY III	2	<p>CO1- Explain α-oxidation and conceptualize cytoplasmic systems of fatty acid biosynthesis</p> <p>CO2- Analyze decarboxylation, deamination, and transamination of amino acids and illustrate the Metabolism of ammonia.</p>

Course Code	Paper Name	Credits	Course Outcome
			CO3- Conceptualize central dogma of molecular biology CO4- Outline classification, mechanism of action and physiological function of hormones.
BCH1C05	BIOCHEMISTRY PRACTICAL IV	4	CO1- Perform colorimetric assays CO2- Estimate biomolecules quantitatively and illustrate their clinical implications.
SEMESTER V			
MBG5B06	INDUSTRIAL MICROBIOLOGY	4	CO1- Describe basic concepts of a fermentation process with various types CO2- Discuss the media formulations and their significance in fermentation process CO3- Explain different methods for screening, isolation, improvement of strain, upstream processing and downstream processing of industrially important microorganisms and products CO4- Compare various techniques used for the recovery of fermentation products CO5- Demonstrate industrial production of microbial metabolites. CO6- Discuss different intellectual property rights related to microbial products
MBG5B07	FOOD AND DAIRY MICROBIOLOGY	4	CO1- Memorize the types and importance of microbes that exist in different food items and understand different parameters affecting their growth in food CO2- Explain major methods to detect microbes in food, with special importance to contaminants CO3- Illustrate the physical and chemical properties of milk and types of microorganisms present in milk CO4- Differentiate different methods used for the microbiological examination of milk CO5- Acquire in-depth knowledge about microbial production of fermented dairy and non-dairy food products and understand the health benefits of SCP, probiotics and prebiotics CO6- Gain an insight to the microbial spoilage of different kinds of foods. CO7- Discuss major food borne diseases caused by different groups of microorganisms CO8- Explain preservation of food by various physical and chemical methods CO9- Discuss the concept of quality control in food, regulatory practices and policies
MBG5B08	IMMUNOLOGY	4	CO1- Explain the biological functions of various immune cells and organs CO2- Recognize the cellular coordination in the generation of immune responses

Course Code	Paper Name	Credits	Course Outcome
			<p>CO3-Illustrate the types, structure and basic features of antigen and antibody</p> <p>CO4-Demonstrate the significance of MHC, C system and immunological tolerance</p> <p>CO5-Classify antigen-antibody reactions involved in diagnosis of infections</p> <p>CO7-Describe the types and mechanisms of hypersensitivity, autoimmunity and graft rejection reactions Discuss the causes, molecular mechanisms, immunological responses and treatment options of tumor development</p>
MBG5B09	MEDICAL MICROBIOLOGY I	3	<p>CO1-Explain the concept of infection, its types, sources and the mode of transmission of various diseases</p> <p>CO2-Discuss the methods for collection and transportation of clinical samples</p> <p>CO3-Compare the morphology, cultural and biochemical characteristics, pathogenesis, laboratory diagnosis, treatment and prophylaxis of various bacterial diseases</p>
OPEN COURSE (MICROBIOLOGY)			
MBG5D01	PUBLIC HEALTH AND EMERGING MICROBIAL DISEASES	3	<p>CO1-Discuss the basic concepts in public health parameters from state, national and international perspective</p> <p>CO2-Describe the types, epidemiology and symptomatology of various diseases of public health concern</p> <p>CO3- Explain the source and transmission of diseases</p>
SEMESTER VI			
MBG6B10	GENETICS AND GENETIC ENGINEERING	4	<p>CO1-Summarize the mendelian and non mendelian concepts inheritance</p> <p>CO2-Explain the concepts of linkage, crossing over and recombination</p> <p>CO3-Illustrate the cell cycle events and its regulation mechanisms in eukaryotes</p> <p>CO4-Demonstrate the recombination frequency as a tool of gene mapping in eukaryotes and gene transfer techniques as a tool in prokaryotes</p> <p>CO5-Describe the pathways of cell cycle and their regulation strategies adopted by eukaryotic cells</p> <p>CO6-Discuss the molecular mechanisms behind the programmed cell death and the inter-relation of death pathway with the cell cycle and immune response</p> <p>CO7-Explain the principle behind rDNA technology, DNA sequencing, PCR and their applications in biological sciences</p> <p>CO8-Discuss the development of GMOs and its potential risks and benefits on the environment</p> <p>CO9-Critical & ethical analysis of application r DNA technology in our society</p>

Course Code	Paper Name	Credits	Course Outcome
MBG6B11	MEDICAL MICROBIOLOGY II	4	<p>CO1-Discuss the important viral diseases including emerging viral diseases, with special emphasis on symptoms, pathogenesis, transmission, prophylaxis</p> <p>CO2-Analyze symptoms, pathogenesis, transmission, prophylaxis and control of important fungal diseases of humans including emerging fungal diseases</p> <p>CO3-Explain important protozoan diseases of humans such as malaria ,amoebiasis and helminth infections and infections caused by flagellates</p> <p>CO4-Compare different types of vaccines and their routes of administration</p> <p>CO5-Distinguish antibiotics classes, their mode of action and mechanism of antibiotic resistance</p>
MBG6B12 (P)	MICROBIOLOGY PRACTICAL II	4	<p>CO1-Apply the biochemical, microscopic and physiological properties of bacteria for the identification of unknown bacteria or in a patient sample</p> <p>CO2-Report variations observed in the blood cell count majorly for clinical ordiagnostic purpose</p> <p>CO3-Perform various serological techniques routinely executed in clinical laboratories</p>
MBG6B13 (P)	MICROBIOLOGY PRACTICAL III	3	<p>CO1-Apply the knowledge of the learner for the preparation of various solutions and reagents in laboratories with their specific features</p> <p>CO2-To demonstrate various stages of mitosis in onion root tip</p> <p>CO3-Execute the extraction of DNA and RNA and confirm by performing electrophoresis</p> <p>CO4-Estimate the amount DNA and RNA in a solution</p> <p>CO5-Demonstrate the gene transfer experiments like conjugation and transformation</p> <p>CO6-Perform procedure for induction of beta galactosidase enzyme by means of artificial transformation</p> <p>CO7-Demonstrate the Restriction digestion reaction of various enzymes widely employed in rDNA technology</p>
MBG6B14 (P)	MICROBIOLOGY PRACTICAL IV	3	<p>CO1-Perform isolation and screening of industrially important microorganisms from soil</p> <p>CO2-Demonstrate the different fermentation processes- citric acid production, alcohol production and wine production</p> <p>CO3-Identify sterilization problems with suspended solids in media</p> <p>CO4-Compare various cell disruption techniques</p> <p>CO5-Perform cell disruption and salting out</p> <p>CO6-Perform enrichment of coir pith degraders, pellicle formation, and penicillin assay</p>

Course Code	Paper Name	Credits	Course Outcome
			<p>CO7-Analyze the aerobic mesophilic count of milk and microbial flora of fermented milk</p> <p>CO8-Evaluate the microbiological quality of milk by Methylene Blue Reductase test</p>
MBG6B15 (E1)	CELL AND TISSUE CULTURE	2	<p>CO1-Describe how a plant & animal cell culture lab should be designed and maintained</p> <p>CO2-Demonstrate the concept of tissue culture technique for plant regeneration and its application in developing plantlets of specific characteristics</p> <p>CO4-Describe methods to determine cell cytotoxicity which in turn can be used to validate drugs and cosmetics for their side effects (toxicity)</p> <p>CO5-Discuss the basics of stem cells, their characterization and applications</p>
MBG6B15 (E2)	MOLECULAR BIOLOGY	2	<p>CO1-Demonstrate the structure, function and other basic features of DNA and RNA</p> <p>CO2-Analyze the organization of genetic material by means of proteins and topological properties.</p> <p>CO3-Conceptualize the theme of central dogma of molecular biology by discussing the events, enzymes and mechanisms of replication, transcription and translation</p> <p>CO4-Illustrate the gene expression regulation mechanisms in prokaryotes by means of lac and trp operons</p>
MBG6B15 (E3)	BIOINSTRUMENTATION	2	<p>CO1-Describe the principles and applications of various techniques in life sciences such as Spectrophotometer, pH Meter, Electrophoresis, NMR, Biosensors, Centrifugation, Chromatography and Radio Isotope techniques used in the isolation, purification and analysis of biomolecules</p> <p>CO2-Describe various Spectroscopic and Chromatographic techniques</p> <p>CO3-Characterize the given sample using bioanalytical techniques</p> <p>CO4-Apply the concepts of modern analytical and instrumental techniques relevant to quantitative measurements in life sciences</p>

B. Sc. Computer Science and BCA

The IT boom and rapid growth in science and technology have opened up new vistas of job opportunities. The college offers B. Sc. in Computer Science and BCA which seek to equip the learners to meet the spiralling demand of the IT industry. It provides special training in computer application of software such as Power builder, Visual basics, Visual C++ etc.

DEPARTMENT OF COMPUTER SCIENCE
PROGRAMME: BSc. COMPUTER SCIENCE
PROGRAMME OUTCOMES (POS)

PO1: To open a channel of admission for computing courses for students, who have done the 10+2 and are interested in taking computing/IT as a career.

PO2 After acquiring the Bachelor's Degree (B.Sc. Computer Science) at University of Calicut, there is further educational opportunity to go for an MCA or other Master Programme like MSc (Computer Science), MSc (IT), MBA, etc., at this university or at any other University/Institute.

PO3: Also after completing the B.Sc. Computer Science Programme, a student should be able to get entry level job in the field of Information Technology or ITES or they can take up self-employment in Indian & global software market.

PO4: To get an awareness of the impact of science on the environment and society.

COURSE OUTCOMES (COs)

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
BCS1B01	COMPUTER FUNDAMENTALS AND HTML	3	CO1- To equip the students with fundamentals of Computer. CO2- To learn the basics of Computer organization. CO3- To equip the students to write algorithm and draw flow chart for solving simple problems CO4- To learn the basics of Internet and webpage design
SEMESTER II			
BCS2B02	PROBLEM SOLVING USING C	3	CO1- To equip the students with fundamental principles of Problem Solving aspects. CO2- To learn the concept of programming CO3- To study C language CO4- To equip the students to write programs for solving simple computing problems
BCS2B03	PROGRAMMING LABORATORY I: HTML AND PROGRAMMING IN C	4	CO1- To make the students learn web designing CO2- To make the students learn programming environments. CO3- To practice procedural programming concepts. CO4- To make the students equipped to solve mathematical or scientific problems using C
SEMESTER III			
A11	PYTHON PROGRAMMING	4	CO1- Understand various statements, data types and functions in Python CO2- Develop programs in Python programming language CO3- Understand the basics of Object oriented programming using Python

Course Code	Paper Name	Credits	Course Outcome
A12	SENSORS AND TRANSDUCERS	4	<p>CO1- Explain resistance, inductance and capacitance transducers.</p> <p>CO2- Perceive the concepts of temperature transducers.?</p> <p>CO3- Perceive the concepts level transducers and pressure</p> <p>CO4- Explain flow transducers, electromagnetic transducers, radiation sensors and sound transducers</p>
BCS3B04	DATA STRUCTURES USING C	3	<p>CO1-To introduce the concept of data structures</p> <p>CO2-To make the students aware of various data structures</p> <p>CO3-To equip the students implement fundamental data structures</p>
SEMESTER IV			
A13	DATA COMMUNICATION AND OPTICAL FIBERS	4	<p>CO1-To expose the students to the basics of network communication and signal propagation through optical fibers</p>
A14	MICRO PROCESSORS- ARCHITECTURE AND PROGRAMMING	4	<p>CO1-To understand internals of Microprocessor.</p> <p>CO2- To learn architecture of 8085 Microprocessor</p> <p>CO3- To learn instruction set of 8085 Microprocessor</p> <p>CO4- To learn how to program a Microprocessor</p>
BCS4B05	DATABASE MANAGEMENT SYSTEM AND RDBMS	3	<p>CO1-To learn the basic principles of database and database design</p> <p>CO2- To learn the basics of RDBMS</p> <p>CO3- To learn the concepts of database manipulation SQL</p> <p>CO4- To study PL/SQL language</p>
BCS4B06	PROGRAMMING LABORATORY II: DATA STRUCTURES AND RDBMS	4	<p>CO1-To make the students equipped to solve mathematical or scientific problems using C</p> <p>CO2- To learn how to implement various data structures.</p> <p>CO3- To provide opportunity to students to use data structures to solve real life problems.</p>
SEMESTER V			
BCS5B07	COMPUTER ORGANIZATION AND ARCHITECTURE	3	<p>CO1-To learn logic gates, combinational circuits and sequential circuits</p> <p>CO2-To learn basics of computer organization and architecture</p>
BCS5B08	JAVA PROGRAMMING	3	<p>CO1-To review on concept of OOP.</p> <p>CO2-To learn Java Programming Environments.</p> <p>CO3-To practice programming in Java.</p> <p>CO4-To learn GUI Application development in JAVA.</p>

Course Code	Paper Name	Credits	Course Outcome
BCS5B09	WEB PROGRAMMING USING PHP	3	CO1 -To familiar with the concept HTML,CSS,Javascript, Server Side Scripting CO2 -To learn PHP Programming Environments CO3 -To practice programming in PHP CO4 -To learn Application development in PHP.with Database andAJAX
BCS5B10	PRINCIPLES OF SOFTWARE ENGINEERING	3	CO1 -To learn engineering practices in Software development. CO2 -To learn various software development methodologies and practices CO3 -To learn and study various Evaluation methods in Software Development.
BCS5D04 (Open Course)	INTRODUCTION TO DATA ANALYSIS USING SPREAD SHEET	3	CO1 -To introduce the importance of software tools. CO2 -To learn the Analysis using Spread sheets
SEMESTER VI			
BCS6B11	ANDROID PROGRAMMING	3	CO1 -To have a review on concept of Android programming. CO2 -To learn Android Programming Environments CO3 -To practice programming in Android CO4 -To learn GUI Application development in Android platform with XML
BCS6B12	OPERATING SYSTEMS	3	CO1 -To learn objectives & functions of Operating Systems CO2 -To understand processes and its life cycle. CO3 -To learn and understand various Memory and Scheduling Algorithms CO4 -To have an overall idea about the latest developments in Operating Systems
BCS6B13	COMPUTER NETWORKS	3	CO1 -To learn about transmissions in Computer Networks CO2 -To learn various Protocols used in Communication CO3 -To have a general idea on Network Administration
BCS6B14	PROGRAMMING LABORATORY III: JAVA AND PHP PROGRAMMING	3	CO1 -To practice Java programming CO2 -To practice client side and server side scripting CO3 -practice PHP Programming. CO4 -To practice how to interact with databases through PHP CO5 -To practice developing dynamic websites
BCS6B15	PROGRAMMING LABORATORY IV: ANDROID AND LINUX SHELL PROGRAMMING	3	CO1 -To practice Android programming CO2 -To practice user interface applications CO3 -To develop mobile application CO4 -To practice shell programming

Course Code	Paper Name	Credits	Course Outcome
BCS6B17	INDUSTRIAL VISIT AND PROJECT WORK	2	CO1 -To provide practical knowledge on software development process
BCS6B16a	SYSTEM SOFTWARE	3	CO1 -To build fundamental knowledge in system software CO2 -To learn functions of various system software. CO3 -To learn specifically learn compilation process of a program.
PROGRAMME: BSc. COMPUTER SCIENCE (Complementary Papers)			
COURSE OUTCOMES (COs)			
SEMESTER I			
CSC1C01	COMPUTER FUNDAMENTALS	2	CO1 - To learn the basics of computer hardware units and how they work together CO2 - To acquire basic skill with office packages?
SEMESTER II			
CSC2C02	FUNDAMENTALS OF SYSTEM SOFTWARE, NETWORKS AND DBMS	2	CO1 -To learn the basic concepts of various system software? CO2 -?To learn the basics of Computer Networks? CO3 -?To learn the basics of Databases
SEMESTER III			
CSC3C03	PROBLEM SOLVING USING C	2	CO1 - To learn the concepts of programming CO2 - To learn the C language
SEMESTER IV			
CSC4C04	DATA STRUCTURE USING C	2	CO1 -To introduce the concept of data structures CO2 -?To make the students aware of various data structures CO3 -?To equip the students implement fundamental data structures
CSC4C05	PROGRAMMING LAB: C AND DATA STRUCTURE	4	CO1 To develop C Programming skills CO2 - To make the students equipped to solve mathematical or scientific problems using C CO3 - To learn how to implement various data structures

DEPARTMENT OF COMPUTER APPLICATION
PROGRAMME: BACHELOR OF COMPUTER APPLICATION
PROGRAMME OUTCOMES (POs)

PO1: The basic objective of the programme is to open a channel of admission for computing courses for students, who have done the 10+2 and are interested in taking computing/IT as a career.

PO2: After acquiring the Bachelor's Degree (BCA) at University of Calicut, there is further educational opportunity to go for an MCA or other Master's Programme like MSc (Computer Science), MSc(IT), MBA, etc., at this university or at any other University/Institute.

PO3: After completing the BCA programme, a student should be able to get entry level job in the field of Information Technology or ITES or they can take up self-employment in Indian & global software market.

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
BCA1B01	COMPUTER FUNDAMENTALS & HTML	3	CO1- To equip the students with fundamentals of Computer CO2- To learn the basics of Computer organization CO3- To equip the students to write algorithm and draw flow chart for solving simple problems CO4- To learn the basics of Internet and webpage design
SEMESTER II			
BCA2B02	PROBLEM SOLVING USING C	3	CO1- To equip the students with fundamental principles of problem solving aspects CO2- To learn the concept of programming CO3- To study C language CO4- To equip the students to write programs for solving simple computing problems
BCA2B03	PROGRAMMING LABORATORY I: HTML AND PROGRAMMING IN C	4	CO1- To make the students learn web designing CO2- To make the students learn programming environments CO3- To practice procedural programming concepts. CO4- To make the students equipped to solve mathematical or scientific problem using C.
SEMESTER III			
A11	PYTHON PROGRAMMING	4	CO1- Understand various statements, datatypes and functions in Python. CO2- Develop programs in Python programming language CO3- Understand the basics of Object Oriented Programming using Python
BCA3B04	DATA STRUCTURES USING C	3	CO1- To understand the concept of data structures CO2- To make the students aware of various data structures CO3- To equip the students to implement fundamental data structures
BCA3C06	THEORY OF COMPUTATION	3	CO1- To get general introduction of theory of computer science CO2- To get a general understanding of different languages-grammar and automata
SEMESTER IV			
A 13	DATA COMMUNICATION AND OPTICAL FIBERS	4	CO1- To learn the basic principles of data communication and optical fibers CO2- To get a general understanding on the principles of optical fiber system

Course Code	Paper Name	Credits	Course Outcome
A 14	MICRO PROCESSORS ARCHITECTURE AND PROGRAMMING	4	CO1- To understand internals of Microprocessor. CO2- To learn architecture of 8085 Microprocessor CO3- To learn instruction set of 8085 Microprocessor CO4- To learn how to program a Microprocessor
BCA4B05	DATABASE MANAGEMENT SYSTEM AND RDBMS	3	CO1- To learn the basic principles of database and database design CO2- To learn the basics of RDBMS CO3- To learn the concepts of database manipulation SQL CO4- To study PL/SQL language
BCA4B06-	PROGRAMMING LABORATORY II: DATA STRUCTURES AND RDBMS	4	CO1- To make the students equipped to solve mathematical or scientific problems using C CO2- To learn how to implement various data structures. CO3- To provide opportunity to students to use data structures to solve real life problem
BCA4C07	E-COMMERCE	3	CO1- To get a general introduction of the Electronic Commerce framework. CO2- To get a general understanding on the various electronic payment system. CO3- To get a general understanding on the Internal information systems. CO4- To get a general understanding on the new age information
BCA4C08	COMPUTER GRAPHICS	3	CO1- To learn the basics of Computer Graphics
			SEMESTER V
BCA5B07	COMPUTER ORGANIZATION AND ARCHITECTURE	3	CO1- To learn logic gates, combinational circuits and sequential circuits? CO2- To learn basics of computer organization and architecture
BCA5B08	JAVA PROGRAMMING	3	CO1- To review on concept of OOP CO2- To learn Java Programming Environments CO3- To practice programming in Java CO4- To learn GUI Application development in JAVA
BCA5B09	WEB PROGRAMMING USING PHP	3	CO1- To review on concept of OOP CO2- To learn PHP Programming Environments CO3- To practice programming in PHP. CO4- To learn GUI Application development in PHP
BCA5B10	PRINCIPLES OF SOFTWARE ENGINEERING	3	CO1- To learn engineering practices in Software development. CO2- To learn various software development methodologies and practices. CO3- To learn and study various Evaluation methods in Software Development

Course Code	Paper Name	Credits	Course Outcome
BCA5D01	OPEN COURSE-INTRODUCTION TO COMPUTERS AND OFFICE AUTOMATION	3	CO1- To learn Office Automation.
SEMESTER VI			
BCA6B11	ANDROID PROGRAMMING	3	CO1- To have a review on concept of Android programming CO2- To learn Android Programming Environments CO3- To practice programming in Android CO4- To learn GUI Application development in Android platform with XML
BCA6B12	OPERATING SYSTEMS	3	CO1- To learn objectives & functions of Operating Systems. CO2- To understand processes and its life cycle CO3- To learn and understand various Memory and Scheduling Algorithms. CO4- To have an overall idea about the latest developments in Operating Systems
CA6B13	COMPUTER NETWORKS	3	CO1- To learn about transmissions in Computer Networks. CO2- To learn various Protocols used in Communication. CO3- To have a general idea on Network Administration
BCA6B14	PROGRAMMING LABORATORY III: JAVA AND PHP PROGRAMMING	4	CO1- To practice Java programming. CO2- To practice client side and server side scripting. CO3- To practice PHP Programming. CO4- To practice developing dynamic websites. CO5- To practice how to interact with databases through PHP
BCA6B15	PROGRAMMING LABORATORY IV: ANDROID AND LINUX SHELL PROGRAMMING	3	CO1- To practice Android programming. CO2- To practice user interface applications. CO4- To develop mobile application. CO5- To practice shell programming.
BCA6B16	AELECTIVE - SYSTEM SOFTWARE	3	CO1- To build fundamental knowledge in system software. CO2- To learn functions of various system software. CO3- To learn specifically learn compilation process of a program
BCA6B17	INDUSTRIAL VISIT AND PROJECT WORK	2	CO1- To provide practical knowledge on software development process

BTTM

Bachelor's Degree in Travel and Tourism offers excellent job opportunities in aviation, travel and tourism industry. Tour operating companies, resorts, shipping companies, hotels, and state tourism departments all have very many desirable openings for qualified aspirants.

DEPARTMENT OF TRAVEL AND TOURISM MANAGEMENT

PROGRAMME: BACHELOR OF ARTS IN TRAVEL AND TOURISM MANAGEMENT

PROGRAMME OUTCOMES (POs)

PO1-To provides ample idea about the basic concepts of tourism, its practices and organizations. To expose the students to the basic principles and practices, philosophies of tourism on an ethical platform.

PO2-This course will provide knowledge about the Products and Resources in Tourism Industry.

PO3-To enable the student to understand the air transportation system and to learn about the structure and facilities of airports along with acquitting with the airport operations, and information of countries tourist places of national and international importance and it helps students to know the background elements of tourism resources.

PO4- To provide details about basic components of geography in relation with travel and tourism. To familiarize with IATA codes, time calculation and the major tourist attraction across the world, and to explore various aspects of value creation through hospitality industry

COURSE OUTCOMES (COs)

SEMESTER I			
Course Code	Paper Name	Credits	Course Outcome
TTM1B01	PRINCIPLES AND PRACTICES OF TOURISM	05	<p>CO1-Tourism: Concept and Definition, History of tourism - Factors influencing the growth of tourism- Multi-disciplinary aspect of tourism –Tourism classification: inbound and outbound tourism-international and domestic-intra regional and inter regional. Tourism: Benefits and Impacts.</p> <p>CO2-Travel Motivation-(Physical, Cultural, Interpersonal and status and prestige), with relevant examples and further divisions – Health, Rest, Recreation, Relaxation. Wander lust and sun lust- Plog's theory of tourism motivation- Maslow's theory of motivation and tourism-Carrier opportunities in tourism industry – International travel requirements</p> <p>CO3-Discuss Tourism Demand and Measurement of Tourism Demand -Statistical trends of tourism in India and Kerala.</p> <p>CO4-Discuss tourism components, characteristics and role of government in tourism industry</p> <p>CO5-Explain Tourism organizations: Classification and purposes- (International, national, regional)</p>

Course Code	Paper Name	Credits	Course Outcome
TTM1C01	BUSINESS STATISTICS AND INFORMATION TECHNOLOGY, I	04	<p>C01- Sets and set operation Venn Diagrams Elements of Coordinate system. Matrices, Fundamental ideas about matrices and their operational rules and Matrix multiplication Inversion of square matrices.</p> <p>C02- Theory of equations: meaning, types of equations –simple linear and simultaneous equations eliminations and substitution method only. Quadratic equation factorization and formula method.</p>
			<p>C03- Progressions: Arithmetic progressions and Geometric progression</p> <p>C04- Introduction to Computer: Components, Organization, Operating System Functions of OS, Types of OS, Intellectual Property Rights etc</p> <p>C05- Microsoft Office- Word processing- creating, formatting and printing documents in MS Word, Mail merge. MS Excel for spread sheet applications- creating, formatting and printing worksheets</p>
SEMESTER II			
TTM2B02	TOURISM PRODUCTS	5	<p>C01- Tourism Resources -Classification of Tourism Resources- -types cultural tourism resources-types- Tourism Product: Tourism resources as tourism products. Nature and tourism: relationship-culture and tourism-relationship</p> <p>C02- Leisure and business tourism - Mass tourism and Niche Tourism: Cultural Tourism-Historical tourism- Indigenous tourism- Film induced tourism- Literary tourism- Music tourism- Ethnic tourism- Pilgrimage Tourism-Culinary Tourism-Industrial Tourism-Adventure tourism-Sports tourism</p> <p>C03- Alternative tourism-ecotourism- Geo tourism-Green tourism- Sustainable tourism- -responsible tourism concept-Rural tourism and village tourism- Health tourism - medical tourism-scope of medical tourism in India-packages- Spa tourism-Ayurveda tourism- Ayurveda tourism in Kerala -Backpacker tourism.</p> <p>C04- Cruise tourism-Other water transport services in Tourism-houseboats and ferries-overview of houseboat tourism in Kerala.</p> <p>C05- Road and rail tourism: Rail Tourism-High Speed trains- Luxury trains- luxury tourist trains- tourist trains in India.</p>

TTM2C02	INTRODUCTION TO ACCOUNTANCY AND BUSINESS LAW I	4	<p>CO1- Introduction Nature of Financial Accounting</p> <p>CO2- Final Accounts of Limited Liability Companies: Preparation of Profit and Loss Account, Balance Sheet in accordance with the provisions of the existing Companies Act</p> <p>CO3- Departmental Accounts Accounting procedure – Allocation of expenses and incomes – Inter-departmental Transfers – Provision for unrealized profit</p> <p>CO4 - Branch Accounts Features, Distinction between Branch and Departmental Accounts.</p> <p>CO5- Accounting for Hotels and Restaurants, Trading Accounts- P&L Accounts and Balance sheet</p>
SEMESTER III			
Course Code	Paper Name	Credits	Course Outcome
TTM3B03	AIR TRANSPORTATION AND AIRPORT OPERATIONS	4	<p>CO1- Air Transportation: Types of Aviation- Aircrafts parts and types- International regulations</p> <p>CO2- History of air transportation, History of civil aviation in India – public and private sector airlines in India. ICAO- Role of AAI and DGCA. IATA , Air Corporation Act, 1953, Role of Aviation Sector in tourism.</p> <p>CO3- Airports: - Structure of a airport- - Certifications for airports- organization structure and personnel-</p> <p>CO4- Airport Operations</p> <p>CO5- Passenger handling- Passenger Handling, Air cargo operation, Airport Codes</p>
TTM3B04	INDIAN TOURISM RESOURCES	4	<p>CO1- Resources and Tourism (types-attractions)</p> <p>CO2- Cultural resources in India: India's rich heritage archaeological sites ancient monuments and diverse, monuments and architecture, Fairs and Festivals in India cultural and artistic heritage of India UNESCO World Heritage Sites of India: Cultural properties, Built Up Structures- Monuments- Forts, Palaces, Havelis, Cave, War Memorials.</p> <p>CO3- Bio geographical Tourism Resources- Wildlife Protection Act, 1972</p> <p>CO4- Major tourist attractions in India</p> <p>CO5- Kerala tourism- Natural resources in Kerala- galleries dance forms- martial arts- major tourist destinations in Kerala.</p>
TTM3C03	INTRODUCTION TO ACCOUNTANCY AND BUSINESS LAW II	4	<p>CO1- Business law and contract acts</p> <p>CO2- Special Contracts</p> <p>CO3- Sale of Goods Act, 1930 Contract for Sale of Goods</p> <p>CO4- The Negotiable Instruments Act, 1881</p> <p>CO5- The Consumer Protection Act 1986</p> <p>CO6- The Information Technology Act 2000 and Offences and Penalties under IT Act 2000- RTI Act.</p>

SEMESTER IV			
Course Code	Paper Name	Credits	Course Outcome
TTM4B05	TRAVEL GEOGRAPHY	4	<p>CO1- Tourism and Geography, role of geography in tourism, IATA Traffic Areas (ITCS) – countries, capital cities and codes, airports and codes, currencies, currency codes</p> <p>CO2- Time calculation, flying time calculation, time zones, day light saving time, international date line, marking of cities on outline maps.</p> <p>CO3 Physical geography of Asia – Pacific Regions, tourist destinations, attractions and accessibility of major countries such as India, China, Singapore, Sri Lanka, Indonesia, Thailand, Maldives, Malaysia, Australia, New Zealand, Japan, Nepal</p> <p>CO4- Africa & Middle East – Tourist destinations, attractions and accessibility of major countries such as South Africa, Egypt, Nigeria, Mauritius, UAE, Israel, Saudi Arabia, Seychelles</p> <p>CO5- Europe & America – tourism destinations, attractions and accessibility of major countries such as France, Germany, UK, Italy, Portugal, Switzerland, USA, Spain, Brazil, Argentina, Mexico, Caribbean Islands</p>
TTM4B06	INTRODUCTION TO HOSPITALITY BUSINESS	4	<p>CO1- Evolution & development of hospitality industry and tourism, famous hotels worldwide. Classification of hotels. Classification and categorization of hotels – star– types of hotels</p> <p>CO2- Hotel Organization: Need for Organizational charts, Evaluating hotel Performance: Methods of Measuring Hotel performance</p> <p>CO3- Hotel – structure of hotel – functions and departments in a hotel – inter departmental coordination,</p> <p>CO4- Evolution hospitality industry in India-Jha Committee-ITDC formation-Ashoka Hotels-Major Hospitality Chain hotels in India-Meal Plans and Service Systems-Alternative Accommodations- Hotel Tariff Plans-Types of Guest Rooms.</p> <p>CO5- Future trends in hospitality industry, functions and activities –FHRAI, AMHA, AH & LA</p>
TTM4C04	BUSINESS STATISTICS AND INFORMATION TECHNOLOGY II	4	<p>CO1- Statistics Scope and Limitations</p> <p>CO2- Regression and correlation, Methods of measuring Trend and Seasonal variations Index number Unweighted indices, Consumers price and cost of living indices</p> <p>CO3- MIS and Networking – Management Information System, DBMS, Database Users, Database Languages, Database Models</p> <p>CO4- IT Systems used in Airlines</p> <p>CO5- ICT in Destination and Hospitality Management</p>

SEMESTER V			
Course Code	Paper Name	Credits	Course Outcome
TTM5B07	TRAVEL AGENCY AND TOUR OPERATIONS MANAGEMENT	4	<p>CO1-Travel Agency Operations</p> <p>CO2-Concept of Tour Operation</p> <p>CO3-Tour Marketing, Distribution System in tour operation Business</p> <p>CO4- Tour Management and Travel documents to handle</p> <p>CO5- Overseas Representatives and Tour Guiding.</p>
TTM5B08	ACCOMMODATION OPERATION	4	<p>CO1- Hotel Front Office – Functions, guest cycle activities, front office systems, front office documents, front office communication, qualities required by front office personnel, room tariff, room plans and types.</p> <p>CO2- Housekeeping department, types of rooms and beds, types of keys – bed making procedure – room cleaning procedures.</p> <p>CO3- Food and Beverage department and its functions, responsibilities</p> <p>CO4- Hotel Marketing Department its functions</p>
TTM5B09	TOURISM RESEARCH METHODOLOGY	4	<p>CO1-Explain the Fundamentals of Research and Research Theory</p> <p>CO2- Review of literature: Literature classification –purpose of review – sources of literature – planning the review work – note taking.</p> <p>CO3- Planning of Research: The planning process</p> <p>CO4- Method of collection of data</p> <p>CO5- Tools for data collection:</p>
TTM5B10	AIRLINE AND CARGO MANAGEMENT	4	<p>CO1-Explain the types of airlines, its organization structures and marketing mix in airlines</p> <p>CO2- Airline functions- Airline fleet- airline schedules, contents in schedules- schedule planning and development-airline networks- - fleet assignment-aircraft routing- crew scheduling- crew pairing-cabin crew and cockpit crew-crew roster-crew bid line-passenger handling by airlines- flight operation stages and crew duties.</p> <p>CO3-Airline Terminology types of journeys</p> <p>CO4- Types of fare, Internal fare constructions based on IATA– Fare formula and basic steps using mileage system</p> <p>CO5- Types of cargo-Cargo transportation–scope of cargo business, structure of cargo industry, movement of cargo-types of rates- airway bill preparation- cargo loading methods- ULDs and other measures for loading.</p>
TTM5B11	PRINCIPLES AND PRACTICES OF MANAGEMENT	4	<p>CO1- Concept of Management – Functions and responsibilities of managers</p> <p>CO2- Strategies and Policies, decision making process.</p> <p>CO3- Organizing – Nature and purpose of organizing Basis of departmentation -span of management</p>

Course Code	Paper Name	Credits	Course Outcome
			determinant CO4-Directing – Directing and problems in human relationship-motivation-communication and leadership-coordinating- Controlling – Concept and process of control, control of overallPerformance, human aspect of control. CO5- Staffing-process- HRM and Personnel Management
TTM5D01	TOURISM AND HOSPITALITY MANAGEMENT (OPEN COURSE)	3	CO1-Introduction to travel and tourism CO2- Development of means of transport: - Road Transport-Sea/Water transport, Cruise Industry-Rail transport-luxury trains of India-Air transport; India and international –Travel Documents CO3- Tourism Products and different types of tourism CO4- Accommodation Industry, Travel Agency-Types and Functions-Tour Operators-Types and Functions - Characteristics of tourism- Impacts of tourism
SEMESTER VI			
TTM6B12	MARKETING FOR TOURISM AND HOSPITALITY	4	CO1- Introduction: Nature, scope and importance of marketing CO2-Explain the Product: -product mix –Branding – Creating Brand Equity packaging – labeling After sales services Product lifecycleNew Product Development – Pricing Significance Factors affecting price of a product Pricingpolicies and strategies. CO3- Promotion: Nature and importance of promotion – Communication Process Types ofpromotion – advertising personal selling – public Relations sales promotion Promotion mix and factors affecting promotion mix decisions Communication planning and control. CO4-explain Marketing Channels and Value Networks CO5- Recent issues and developments in marketing
TTM6B13	TOURISM PLANNING AND POLICIES	4	CO1- Destination: the concept and definitions-Common Characteristics of Destinations- Significance of attractions for destinations- Evolution and growth of tourism in a Destination-TALC concept-Destination Image-Destination Marketing Organization (DMO). CO2- Benefits of Tourism CO3- Impacts of Tourism: Economic impacts-Opportunity-cost-inflation-migration of labour-Socialconsequences-Demonstration effect-anti social activities and tourism-Cultural Impacts-Commercialization-Commoditization-Environmental impacts-

Course Code	Paper Name	Credits	Course Outcome
			<p>CO4- Sustainable Tourism: Sustainable tourism development- components- principles- Carrying capacity- EIA- Environmental auditing- Visitor management practices- Definition and concept of ecotourism- Principles</p> <p>CO5- Tourism Planning and policies</p>
TTM6B14	EMERGING CONCEPTS IN TOURISM	4	<p>CO1- Space tourism –lunar tourism-Backpacker tourism-characteristics-Dark tourism-definition-characteristics-major attractions. Unethical tourism practices- Sex tourism and Child Sex Tourism- Terrorism and Political Crises affect Tourism- Climate change-definition and effects in tourism- Growth of tourism and challenges- Cyber Tourism-voluntary tourism- social tourism-rural tourism dimensions.</p> <p>CO2- Health Tourism and different meditation treatments</p> <p>CO3- Professionalization of tourism – strategic management in tourism – impact of globalization on tourism and travel – tourism education and training – world tourism promotion by WTO and others– international alliance and foreign collaboration in tourism</p> <p>CO4- Responsible tourism, public awareness– role of the govt – tourist Guides – tourist Police other emerging trends-responsible tourism activities of Kerala</p>
TTM6B15	EVENT MANAGEMENT AND MICE TOURISM	3	<p>CO1- Business Tourism – Tourism – Definition and growth of tourism Major categories– Leisure & business tourism Business tourism Definition – difference between Leisure and business tourism</p> <p>CO2- MICE Tourism, international conventions, incentive travel, role of employers, fiscal incentives to hotels and other tourism intermediaries, global tourism fairs, national tourism fairs such as Pushkar fair, SurajKund craft mela, India International Trade Fair at Pragathimaidan, Delhi</p> <p>CO3- Event Management – Definition – Meaning and scope – Role of events in promotion of tourism-</p> <p>CO4- Process of Event Management – Planning and organizing events – Budgeting – Sponsorship –Subsidies – registration – Documentation – Public relation and evaluation</p> <p>CO5- Entrepreneurship opportunities in Event Management – Trade fare – marriages. Conferences and meetings – Exhibitions Case study of Kerala Travel mart.</p>

College Union

The College Union comprises all students of the college. Those who are on the roll at the time of election have the right to vote and contest the elections of the college union. Students are forbidden to contest in the union election in the label of student organisations.

The main objective of the College Union is to train the students of the college in the duties and rights of citizenship. The college union is also expected to organize sports, cultural and recreational programmes. Principal shall nominate a Staff Advisor, Staff Editor and Staff Co-ordinators for sports and fine arts.

Each department will have Associations to promote co-curricular activities and the Principal shall nominate a Coordinator for the Association in consultation with the Head of the Department.

College Magazine

The college magazine is published once in a year. The Principal is the final authority in all matters concerning the college magazine. He has the authority to order or withhold publication, to include or reject a matter without assigning any reason, if felt necessary.

Physical Education

The College provides opportunities for students to have training in sports events in Athletics and Games like, Football, Volleyball, Cricket, Badminton, etc. The annual sports meet will be conducted on the basis of house wise competition.

National Service Scheme (NSS)

The NSS activities are aimed at imparting a sense of involvement among students in nation building. It also aims at personal services. A unit of NSS with hundred volunteers is actively functioning in the college.

Parents Teachers Association

A well constituted PTA is functioning in the college to maintain close contact between teachers and parents. The association meets at regular intervals to plan and implement all matters pertaining to the physical, moral and academic welfare of the students.

Remedial classes

From last year onwards special coaching programs for low-achievers is designed with the support and co-operation of the PTA.

FOR THE ATTENTION OF THE STUDENTS

Rules and regulations cannot make a good college and hostel, the most important thing is that students and staff should have a lively spirit of loyalty and friendliness and an earnest desire to join together in making their college and hostel everything that they ought to be. But when a number of people are attempting to live together in a community, they have to be guided by certain rules or accepted traditions in order to avoid disorder and confusion. Rules and regulations are formulated with this purpose in view and should not be regarded as something imposed mechanically. Here we draw attention to some of the most important rules and customs by which our corporate life is or ought to be regulated. It would be a very good thing if every member of the college would carefully note and respect the rules in words and deeds.

RULES OF GENERAL DISCIPLINE

- ☞ Students are expected to maintain dignity and decorum on all occasions in the campus.
- ☞ The college properties should be handled with utmost care. Students shall not deface the walls, windows, furniture, etc. by writing on them or sticking bills and notices.
- ☞ Students should not loiter in verandas and campus during class hours. They should spend their free time in library. Absolute silence should be maintained in class rooms and reading rooms.
- ☞ Indecent behavior towards teachers and fellow students will entail serious punishments. Students should not be absent in the class without leave letter signed by the guardian.
- ☞ Presence of the parent in the PTA meeting is compulsory.
- ☞ Students shall not smoke or chew pan or any other intoxicating materials in the college premises.
- ☞ Usage of mobile phones will not be allowed inside the campus. Teachers have been given power to impound mobile phones in case of violation of the ban.
- ☞ Students shall enter the campus only in full uniforms including college identity tag and should observe strict modesty in dress.
- ☞ A fine of Rupees 50/- per day will be collected from those who are not wearing identity tag.

- ☞ If identity tag is lost, students should apply for a new tag immediately.
- ☞ Ragging, leaning, intimidating, harassing and use of words of abuse, etc. within the campus or outside are punishable under police act and such matters will be immediately reported to the police. Ragging invites immediate expulsion from the college.
- ☞ Political activity is strictly prohibited inside the college premises as per High Court order on writ appeal No 535/2003 and judgement on review petition dated 20th Feb 2004. All strikes, demonstrations, agitations, dharnas and gheraos are banned in the college campus. No flag or banners of the Political Parties shall be hoisted in the college campus.
- ☞ College gate will remain closed between 9.30 AM and 12.30PM & 1.30PM and 3.30PM for vehicles on regular working days.

ADMISSION

- ◆ Application for admission to any of the course offered is to be made in the prescribed form available at the college office on payment of registration fee.
- ◆ Registration of an application does not guarantee selection for admission and the registration fee will not be refunded under any circumstances.
- ◆ The last date for issue and receipt of application in the college office shall normally be as communicated in the university notification.
- ◆ Affix sufficient stamp on the acknowledgment card and write your full address on them.
- ◆ The application duly filled in, should be sent to the principal as soon as the marks are obtained. In all subsequent enquiries the registration number should be quoted.
- ◆ The entries shall be carefully made without leaving any room or column for doubt. Incomplete or defective applications are liable to be rejected.
- ◆ No original certificates should be sent along with the application, but attested true copies of all other relevant certificates and mark-list shall be enclosed.

- ◆ It is the duty of the applicant to lookup the selection list or the date of interview.
- ◆ Complaints, if any, regarding the rank list shall be lodged with the principal in writing within two days from the date of publication of rank-list.
- ◆ If any application is favourably considered, an intimation card will be sent to the applicant announcing the date for an interview with the principal. All selections are provisional, and are subject to confirmation, after the personal interview with the principal, and scrutiny of certificates.
- ◆ At the time of the interview with the principal and the selection committee, the applicant should produce the intimation card and the certificates in original.
- ◆ Each student will have to take re-admission at the start of each semester. The student should report along with the parent for the re-admission and pay the fees and pledge that he/she will not indulge in any ragging activities.

ELIGIBILITY FOR UG ADMISSION

Those candidates who are eligible for Higher Studies as per the higher secondary examination or a pass in the equivalent examination with the minimum criteria for admission to degree courses, unless otherwise specified. The grade/marks obtained in the Plus Two examination will be converted to the corresponding Grade point value (GPV), as given in section II - 'Assessment of Merit of Degree Admission'.(U.O.NO .GA.I/A2/1658/2008)

Candidates qualified in the annual examination held during the April/May of the preceding academic year or its preceding supplementary/annual examinations alone are eligible for admission. However, candidates who have qualified the HSE and VHSE of the Government of Kerala under 'SAY' scheme and Compartmental Examination of CBSE are also eligible for admission to first year degree courses in the same academic year. (U.O No. GAI(A2/5753/2000 dated 14.05.2004)

Candidates who have passed the higher secondary Examination of

Tamil Nadu (Private study) shall not be admitted to any course under this University. (U.O No. GAI/A1/5062/2002 dated 07.07.2005)

BA/ BMMC Courses

Candidates who have passed (eligible for higher studies) the higher Secondary Examination of the Kerala State Board of Higher Secondary Examination or any other examination recognized as equivalent thereto are eligible for admission to the BA degree courses.

BSc COURSES

B.Sc Bio-Technology

Candidates with Science course for Higher Secondary Examination (eligible for higher studies) or Pre-Degree with Biology of this University or from recognized Indian or Foreign University/Institution/Board are eligible for admission to the BSc. Bio-Technology course. (U.O. No. GAI/J1/6775/1998 dated 30.09.2000)

BSc Computer Science

Candidates who have passed (eligible for higher studies) the HSE or an equivalent examination with Mathematics / Statistics / Computer Science / Computer Application etc. as one of the subject are eligible for admission. (U.O. No: GAI/J1/4756/1999 dated 11.01.2002)

BSc Microbiology

A pass (eligible for higher studies) in the higher Secondary Examination or an equivalent examination with Physics, Chemistry, Biology or Pre-Degree with Biology.

BSc. Geology

Candidates who have studied Science subjects at Higher Secondary or equivalent level with any one of the following Optional subjects, (Physics, Chemistry, Mathematics, Biology, Geology or Geography) and passed (eligible for higher studies) are eligible for admission to BSc. Geology course. Candidates who have studied Geology or Geography as optional subject in

Humanities stream at Plus Two or Equivalent level are also eligible (U.O.No. GAI/J2/4440/1999 (2) dated 13.05.2004)

BCA (Bachelor of Computer Application)

Candidates who have passed (eligible for higher studies) the HSE or an equivalent examination with mathematics / Computer Science / Computer Application / Informatics Practices as one of subjects are eligible for admission to the BCA course. (U.ONo.GAI/J1/2453/1997 dated 06.10.2000 and GA/J1/1597/2005 date 11.07.2005)

B.Com (Bachelor of Commerce)

A pass (eligible for higher studies) in the Higher Secondary Examination or its equivalent, with at least one commerce subject, is the eligibility for admission to the B Com. degree course. Candidates who have not taken at least one commerce subject for Higher Secondary or an equivalent examination should get at least 24 GPV (in 6 subjects) in that examination to become eligible to seek admission to B.Com course. A concession need get only a pass (eligible for higher studies) (U.O.No.GA1/A2/1658/2007 dated 28.02.2008)

B.B.A (Bachelor of Business Administration)

Any candidate who has passed (eligible for higher studies) the Higher Secondary Examination or any other examination recognized as equivalent thereto, with not less than 27 GPV is eligible for admission to the BBA degree course. A concession of 3 GPV will be given to OBC/OEC candidates. The SC/ST candidates need get only a pass (eligible for higher studies) (U.O.No. GAI/J2/2907/03 dated 23.07.2004 & U.O.No.GA1/A2/1658/2007 dated 28.02.2008)

Certificates to be produced at the time of interview for the Degree Courses

Transfer Certificate from the institution last attended.

Course and Conduct certificates.

Mark-list of Higher Secondary or equivalent examination.

Pass certificate and Migration Certificate for those who passed the qualifying examination other than that of Kerala Higher Secondary Board.

Eligibility certificate for those who passed the qualifying examination outside the state of Kerala.

Community certificate and income certificate in the case of students belonging to backward communities and forward communities, respectively, if applying for fee concession, otherwise, they will have to pay full fee.

Community Certificate, Nativity Certificate and copy of S.S.L.C Certificate in the case of SC, ST, OEC and OBC students.

Four copies of recent passport size photograph of applicant

ELIGIBILITY FOR PG ADMISSION

MSc Microbiology

BSc Micro Biology or equivalent degree with atleast 50% for part III (Excluding subsidiaries)

MA English

The minimum marks prescribed for admission to MA in English Degree course is 45% in Part I English of B.A/B.Sc. Examinations or 45% in English Main papers in the case of candidates with English under part III pattern I or 45% in English main papers in the case of candidates with English under part III pattern II. Candidates will be ranked according to the percentage of marks in part I English or part III in the case of those who have taken English under part III whichever is higher. A weightage of 10% marks shall be added in the case of those who have taken English under part III.

MSc Geology

Admission : Those students who possess BSc Degree in Geology, Geology and Water Management as core courses with Physics / Chemistry / Mathematics / Statistics / Remote sensing and GIS as complimentary courses are eligible for admission to this programme.

M.Com.

Any candidate who passed B.Com or BBA degree of University of Calicut or B.Com, BBA, BBM or BBS degree of any other University or institution in any state recognized by UGC or AICTE with a minimum of 45% marks is eligible for admission to the M.Com degree course.

Relaxation in the requirement of minimum marks upto 5% for OBC/OEC is applicable. SC/ST candidates need get only a pass in their qualifying examination for admission (U.O.No. GAI/J2/2124/03 dated 22.07.2004)

M.S.W

Graduates from any approved University with at least 50% marks for part III at the qualifying examinations are eligible for applying to the M.S.W entrance test. Those candidates who have only main papers, requires 50% marks for main only.

Relaxation in the requirement of minimum marks upto 5% for OBC/OEC is applicable. Sc/ST candidates need get only a pass in their qualifying examination for admission.

Admission will be based on the total marks of the qualifying examination, entrance test, group discussion and personal interview.

Certificates to be produced at the time of interview for the PG Courses

T.C, C.C, P.C, S.S.L.C, passport size photograph (4 copies).

All students will have to give the names of their parents who should be present in the parents meeting. No other persons will be entertained at any time.

ATTENDANCE AND LEAVE

- ◆ The working day is divided into two halves, the forenoon of three hours, and the afternoon of two lectures.
- ◆ The class timing is from 9.30am to 3.30pm with 1 hour break at 12.30pm for all working days except Friday. On Fridays the lunch break is between 12.30 and 2.00 pm.
- ◆ Attendance will be marked at the beginning of each period by the teacher engaging the class. Late comers will not be given the attendance for that session
- ◆ If a student is absent for one hour it will be treated as absence for half a day. If the absence is for two hours, it will be treated as absence for one full day.
- ◆ A student who is absent himself/herself from the college even for a day should take prior permission from the Head of the Department in advance except in case of sudden illness or unforeseen causes.
- ◆ A student who is absent himself/herself from the college should submit the leave application in the printed format as early as possible and in no case later than the first day of his/her return to the college.
- ◆ Application for leave of absence should be made to the Principal, countersigned by parent or guardian and recommended by the Tutor and H.O.D. For hostel students the warden's recommendation is also required.
- ◆ If the leave exceeds more than three days the application should be made to the Principal through the Tutor by the student in person with supported evidence.
- ◆ Leave will be granted only for proper and adequate reasons which should be clearly stated in the application.
- ◆ In case of leave for illness extending over more than 3 days, a medical certificate is required. Medical certificates submitted at later time will not be accepted.
- ◆ A student abstaining from classes, without proper acknowledgment of leave for more than seven consecutive working days will have his/her name, removed from the roll. He/she may however, be readmitted after furnishing sufficient reasons and payment of readmission fee of Rs. 100/-
- ◆ Students who do not have at least 75% of the attendance are not eligible to appear for University examinations.

- ◆ A student whose attendance falls below the minimum can apply for condonation through the Principal to the University. For applying condonation the student should have 65% attendance. The application for condonation should be accompanied by a treasury receipt of Rs. 850/- or any other amount fixed by the University. Condonation will be granted only on medical ground.
- ◆ The attendance and progress certificate shall not be granted unless the student has attendance for three fourth of the total number of working days prescribed by the college and the authorities are satisfied with the progress and conduct of the student.
- ◆ No application for condonation will be recommended by the Principal unless he is sure that the shortage of attendance was due to causes beyond the control of the student and that the application has been endorsed by the H.O.D. concerned. Only prolonged illness will be accepted as genuine reason for the shortage of attendance. Absence without leave will not be condoned under any circumstances.

LIBRARY RULES:

- ◇ Every one should sign the visitor's register before entering the library.
- ◇ All members of the staff and students of the college are eligible to be members of the library. Books and other library materials are open for use and subscription, only to the members of the library. In exceptional cases the Principal may permit a non-member to have access to library on such terms as the Principal determines fit.
- ◇ They are entitled to borrow books from the library by submitting the library photo identity card which can be obtained from the library at the time of acquiring the membership. Membership cards are to be returned to the library at the end of each academic year and fresh cards to be obtained at the beginning of every year.
- ◇ Loss of the library cards must be reported immediately to the librarian. Duplicate cards will be issued only on verification. A fine of Rs. 10/- will be levied for each card lost. The member will be held responsible for the lost cards originally issued to him/her.
- ◇ Terms regarding the issue and return of the books will be notified in the library from time to time.
- ◇ The maximum number of books issued to a degree student at a time will be 3.

- ✧ No member shall keep a book for more than a fortnight. Members can renew the due date of a book borrowed from the library for a further period of 14 days. The due date of the book will be extended to the same member if there are no other applicants for it. A book may be re-issued to the same member if there are no other applicants for it.
- ✧ Absence from the college will not be admitted as an excuse for delay in returning the books.
- ✧ The librarian may recall a book at any time even when the normal period of loan is not over.
- ✧ When a member receives a book from the library, he/she should ensure himself/herself that the book is in sound condition, falling which the member shall be liable to replace the book with a new copy.
- ✧ Members shall not sub-lend the library books.
- ✧ Marking, underlining, writing, tampering and tearing away the pages of books are punishable with fine or replacement of the book or both.
- ✧ A fine of Rs. 1.00 per day will be levied if a book is kept beyond a fortnight, including holidays.
- ✧ Members should replace the books lost from them or should compensate for the loss by paying an amount fixed by the librarian along with the existing fine fixed for it.
- ✧ Books of the reference section will not be issued without permission of the Principal.
- ✧ No books or periodicals from outside will be allowed inside the library or reading room.
- ✧ The membership of those who tear away pages or steal books or misbehave to the staff will be suspended and further disciplinary actions will be taken against them by the principal.
- ✧ All staff members of the college are members of the library. A member of the teaching staff may borrow upto ten books at a time. A member of the non-teaching staff may borrow two books at a time. All other library rules are applicable to the teaching and non-teaching staff also.
- ✧ Strict silence must be observed in the library and reading room.

KERALA RAGGING PROHIBITION ACT 1998

കേരള സംസ്ഥാനത്തെ വിദ്യാഭ്യാസ സ്ഥാപനങ്ങളിൽ റാഗിംഗ് നിരോധിച്ചുകൊണ്ടുള്ള 1998-ലെ കേരള റാഗിംഗ് പ്രൊഹിബിഷൻ ആക്ടിന്റെ പ്രസക്തഭാഗങ്ങൾ വിദ്യാർത്ഥികളുടേയും രക്ഷിതാക്കളുടേയും അറിവിലേക്കായി താഴെ കൊടുക്കുന്നു. ഒരു വിദ്യാർത്ഥിയോട് ക്രമവിരുദ്ധമായ പെരുമാറ്റം മൂലം ആ വിദ്യാർത്ഥിക്ക് ശാരീരികമായോ മാനസികമോ ആയ പീഡനം ഉണ്ടാകുന്നതോ ഉണ്ടാകാൻ സാദ്ധ്യതയുള്ളതോ അല്ലെങ്കിൽ ഭയാശങ്കയോ, ഭയപ്പാടോ, അപമാനമോ, ബുദ്ധിമുട്ടോ ഉണ്ടാകുന്നതോ ആയ ഏതെങ്കിലും പ്രവൃത്തി ചെയ്യൽ എന്നർത്ഥമാക്കുന്നതും, അതിൽ:

1. അങ്ങനെയുള്ള വിദ്യാർത്ഥിയെ ശല്യപ്പെടുത്തുന്നതോ, അധിക്ഷേപിക്കുന്നതോ, പരിഹസിക്കുന്നതോ, ഉപദ്രവിക്കുന്നതോ,

അല്ലെങ്കിൽ

2. ഒരു വിദ്യാർത്ഥി സാധാരണഗതിയിൽ സ്വമനസ്സാലെ ചെയ്യാൻ ഒരുപെടാത്ത ഏതെങ്കിലും പ്രവൃത്തി ചെയ്യുന്നതിനോ, നിർവ്വഹിക്കുന്നതിനോ ആവശ്യപ്പെടുന്നതോ ഉൾപ്പെട്ടതാകുന്നു.
3. റാഗിംഗ് നിരോധനം : ഏതൊരു വിദ്യാഭ്യാസ സ്ഥാപനത്തിന്റെയും അകത്തും, പുറത്തും റാഗിംഗ് നിരോധിച്ചിരിക്കുന്നു.
4. റാഗിംഗിനുള്ള ശിക്ഷ : ഏതെങ്കിലും വിദ്യാഭ്യാസ സ്ഥാപനത്തിനകത്തോ, അഥവാ പുറത്തോ റാഗിംഗ് നടത്തുകയോ റാഗിംഗിൽ പങ്കെടുക്കുകയോ, അതിന് പ്രേരിപ്പിക്കുകയോ അല്ലെങ്കിൽ റാഗിംഗ് പ്രചരിപ്പിക്കുകയോ ചെയ്യുന്ന ഏതൊരാളും കുറ്റസ്ഥാപനത്തിനുമേൽ, രണ്ടുവർഷം വരെയാകുന്ന കാലയളവിലേക്ക് തടവുശിക്ഷ നൽകി ശിക്ഷിക്കപ്പെടേണ്ടതും അയാൾ പതിനായിരം രൂപ വരെയാകുന്ന പിഴശിക്ഷയും കൂടി വിധേയനാകേണ്ടതുമാണ്.
5. വിദ്യാർത്ഥിയെ പിരിച്ചുവിടൽ: 4-ാം വകുപ്പിൻ കീഴിലുള്ള ഒരു കുറ്റത്തിന് ശിക്ഷിക്കപ്പെടുന്ന ഏതൊരു വിദ്യാർത്ഥിയേയും വിദ്യാഭ്യാസ സ്ഥാപനത്തിൽ നിന്നും പിരിച്ചുവിടേണ്ടതും അങ്ങനെയുള്ള വിദ്യാർത്ഥിക്ക് പിരിച്ചുവിടൽ ഉത്തരവ് പുറപ്പെടുവിച്ച തിയ്യതി മുതൽ മൂന്ന് വർഷകാലത്തേക്ക്, മറ്റു യാതൊരു വിദ്യാഭ്യാസ സ്ഥാപനത്തിലും പ്രവേശനം നൽകാൻ പാടില്ലാത്തതുമാകുന്നു.

6. വിദ്യാർത്ഥിയെ സസ്പെൻഡ് ചെയ്തൽ : മുൻപറഞ്ഞ വ്യവസ്ഥകൾക്ക് ഭംഗം വരാതെ ഒരു വിദ്യാഭ്യാസ സ്ഥാപനത്തിന്റെ മേധാവിയോട് റാഗിംഗിനെക്കുറിച്ച് ഏതെങ്കിലും വിദ്യാർത്ഥിയോ അതതു സംഗതിപോലെ, മാതാപിതാക്കളോ, രക്ഷാകർത്താവോ അഥവാ ആ വിദ്യാഭ്യാസ സ്ഥാപനത്തിലെ ഏതെങ്കിലും അധ്യാപകനോ രേഖാമൂലം പരാതിപ്പെട്ടാൽ ആ വിദ്യാഭ്യാസ സ്ഥാപനത്തിന്റെ മേധാവി, പരാതി ലഭിച്ച് ഏഴ് ദിവസത്തിനകം പരാതിയിൽ പറഞ്ഞിരിക്കുന്ന സംഗതിയെ സംബന്ധിച്ച് അന്വേഷണം നടത്തേണ്ടതും, പ്രഥമ ദൃഷ്ടി സത്യമുണ്ടെന്നു കണ്ടാൽ കുറ്റാരോപണ വിധേയനായ വിദ്യാർത്ഥിയെ സസ്പെൻഡ് ചെയ്യേണ്ടതും ഉടൻതന്നെ പ്രസ്തുത പരാതി ആ വിദ്യാഭ്യാസ സ്ഥാപനം സ്ഥിതി ചെയ്യുന്ന പ്രദേശത്ത് ആധികാരികതയുള്ള പോലീസ് സ്റ്റേഷനിലേക്ക് മേൽ നടപടിക്കായി അയച്ചു കൊടുക്കേണ്ടതുമാണ്.
7. 1-ാം വകുപ്പിൽ പറഞ്ഞ രീതിയിൽ പരാതി രേഖാമൂലം ലഭിക്കുകയും, വിദ്യാഭ്യാസ സ്ഥാപനത്തിന്റെ മേധാവിയുടെ അന്വേഷണത്തിൽ പ്രഥമ ദൃഷ്ടി പരാതിയിൽ കഴമ്പില്ല എന്ന് തെളിയുകയും ചെയ്താൽ ഇക്കാര്യം പരാതിക്കാരനെരേഖാമൂലം അറിയിക്കേണ്ടതാകുന്നു.
8. കുറ്റം ചെയ്തൽ പ്രേരിപ്പിക്കുന്നതിനായി കരുതാവുന്നത്: വിദ്യാഭ്യാസ സ്ഥാപനത്തിന്റെ മേധാവി 6-ാം വകുപ്പിൽ പറയപ്പെടുന്ന രീതിയിൽ റാഗിംഗിനെക്കുറിച്ചുള്ള ഒരു പരാതിമേൽ നടപടി എടുക്കുകയോ അഥവാ നടപടി എടുക്കാൻ അനാസ്ഥ കാണിക്കുകയോ ചെയ്യുകയാണെങ്കിൽ അങ്ങനെയുള്ള വ്യക്തി റാഗിംഗ് എന്ന കുറ്റം ചെയ്യാൻ പ്രേരിപ്പിച്ചതായി കരുതപ്പെടേണ്ടതും കുറ്റ സ്ഥാപനത്തിന്മേൽ 4-ാം വകുപ്പിൽ വ്യവസ്ഥചെയ്തിട്ടുള്ള പ്രകാരം ശിക്ഷിക്കപ്പെടേണ്ടതുമാണ്.



UNIVERSITY OF CALICUT

**REGULATIONS FOR
CHOICE BASED CREDIT AND SEMESTER
SYSTEM FOR UNDERGRADUATE (UG)
CURRICULUM -2019
(CBCSSUG 2019)**

PREFACE

Global forces are combining to fabricate rapid and profound changes on a heretofore unknown scale, that too, in fathomless velocity, leaving none of our systems unscathed, including the global system of higher education. Higher education system, globally, is being placed in an entirely different setting, with the pervading of market, offering a competing paradigm and restructuring the interplay between the Market, the State and the Universities at the advent of globalization.

New terminologies such as 'Borderless Education', 'Cross border Education', 'Transnational and Transborder Education', 'internationalization' and 'commodification' of education etc., have become a few catch words in this era of liberalisation. Higher Education ceases to be a 'common good' and is being swiftly transformed to be an internationally traded commodity. In all modern societies, universities are considered as the 'knowledge factories'.

The Indian system of higher education has unleashed major program of reforms in the event of the changes witnessed in the system. Many of these reforms can be traced back to a policy template provided by the National Knowledge Commission (NKC). In purview with such reforms, the University Grants Commission (UGC) has made concurrent changes with regard to the higher education system. One such change was the introduction of CBCSS or 'Choice based Credit Semester and grading pattern'. The UGC directed all the Universities in the country to restructure undergraduate courses on 'Choice based Credit Semester and Grading pattern' in 2009-10 academic year. Recommendation of the UGC in its ***Action Plan for Academic and Administrative Reforms makes it clear that "Curricular flexibility and learners' mobility is an issue that warrants our urgent attention. These can be addressed by introducing credit based courses and credit accumulation. In order to provide with some degree of flexibility to learners, we need***

to provide for course duration in terms of credit hours and also a minimum as well as a maximum permissible span of time in which a course can be completed by a learner...Choice-Based Credit System (CBCS) imminently fits into the emerging socioeconomic milieu, and could effectively respond to the educational and occupational aspirations of the upcoming generations. In view of this, institutions of higher education in India would do well to invest thought and resources into introducing CBCS. Aided by modern communication and information technology, CBCS has a high probability to be operational efficiently and effectively elevating learners, institutions and higher education system in the country to newer heights.”.

Calicut University regulations are framed in accordance with UGC guidelines on restructuring undergraduate education from 2009-10 academic year itself. Accordingly, all affiliated colleges have restructured the regular undergraduate programs on the Choice Based Credit Semester System (CBCSS), a combination of internal and external evaluation with grading. Later the system was made applicable to the School of Distance Education too. Now, a revised regulation for the UG Choice Based Credit Semester System is being prepared for ensuring quality and learner-centeredness. It is called as the **Regulations for Choice Based Credit and Semester System for Undergraduate (UG) Curriculum -2019**. This booklet contains the details of the new regulation.

Regulations for Choice Based Credit and Semester System for Undergraduate (UG) Curriculum -2019

1. TITLE

These regulations shall be called “Calicut University Regulations for Choice Based Credit and Semester System for Undergraduate Curriculum 2019” (CBCSSUG 2019).

2. SCOPE, APPLICATION & COMMENCEMENT

- 2.1. The regulations provided herein shall apply to all Regular/SDE/Private UG programmes under various faculty (specified in 4.1) conducted by the University of Calicut for the admissions commencing from 2019, with effect from the academic year 2019-2020.
- 2.2. The provisions herein supersede all the existing regulations for the regular UG programmes under various faculty conducted by University of Calicut unless otherwise specified.
- 2.3. Every programme conducted under the Choice Based Credit and Semester System in a college shall be monitored by the College Council and every UG programme conducted under CBCSS UG in SDE / Private Registration shall be monitored by the Director, SDE.

3. DEFINITIONS

- 3.1. 'Programme' means the entire course of study and examinations for the award of a degree.
- 3.2. 'Duration of programme' means the time period required for the conduct of the programme. The duration of a UG degree programme shall be six semesters distributed in a period of 3 years.
- 3.3. 'Academic Week' is a unit of five working days in which distribution of work is organized from day one to day five, with five contact hours of one hour duration on each day. A sequence of 18 such academic weeks constitutes a semester.
- 3.4. 'Semester' means a term consisting of 18 weeks (16 instructional weeks and two weeks for examination).
- 3.5. 'Course' means a segment of subject matter to be covered in a semester.
- 3.6. 'Common course' means a course that comes under the category of courses, including compulsory English and additional language courses and a set of general courses applicable for Language Reduced Pattern (LRP) programmes, the selection of which is compulsory for all students undergoing UG programmes.
- 3.7. 'Core course' means a compulsory course in a subject related to a particular degree programme.
- 3.8. 'Open course' means a course which can be opted by a student at his/her choice.
- 3.9. 'Complementary course' means a course which is generally related to the core course.
- 3.10. 'Improvement course' is a course registered by a student for improving his/her performance in that particular course.
- 3.11. 'Ability Enhancement course/Audit course' is a course which is mandatory as per the directions from the Regulatory authorities like UGC, Supreme Court etc.
- 3.12. 'Department' means any Teaching Department in a college offering a course of study approved by the University as per the Statutes and Act of the University.
- 3.13. 'Department Co-ordinator' is a teacher nominated by a Dept. Council to coordinate all the works related to CBCSS UG undertaken in that department including continuous evaluation.
- 3.14. 'Department Council' means the body of all teachers of a department in a college.

- 3.15. 'Parent Department' means the Department which offers a particular degree programme.
- 3.16. 'College Co-ordinator' is a teacher nominated by the college council to co-ordinate the effective running of the process of CBCSS including internal evaluation undertaken by various departments within the college. She/he shall be the convenor for the College level monitoring committee.
- 3.17. College level monitoring committee. A monitoring Committee is to be constituted for CBCSSUG in the college level with Principal as Chairperson, college co-ordinator as convenor and department co-ordinators as members. The College union chairperson shall be a member of this committee.
- 3.18. 'Faculty Adviser' means a teacher from the parent department nominated by the Department Council, who will advise the student in the academic matters and in the choice of open courses.
- 3.19. 'Credit' (C) is a unit of academic input measured in terms of weekly contact hours/course contents assigned to a course.
- 3.20. 'Extra Credit' is the additional credit awarded to a student over and above the minimum credits required in a programme, for achievements in co-curricular activities and social activities conducted outside the regular class hours, as decided by the University. For calculating CGPA, extra credits will not be considered.
- 3.21. 'Letter Grade' or simply 'Grade' in a course is a letter symbol (O, A+, A, B+, B, C, P, F and Ab). Grade shall mean the prescribed alphabetical grade awarded to a student based on his/her performance in various examinations. The Letter grade that corresponds to a range of CGPA is given in Annexure-I.
- 3.22. Each letter grade is assigned a 'Grade point' (G) which is an integer indicating the numerical equivalent of the broad level of performance of a student in a course. Grade Point means point given to a letter grade on 10 point scale.
- 3.23. 'Semester Grade Point Average' (SGPA) is the value obtained by dividing the sum of credit points obtained by a student in the various courses taken in a semester by the total number of credits in that semester. SGPA shall be rounded off to three decimal places. SGPA determines the overall performance of a student at the end of a semester.
- 3.24. 'Credit Point' (P) of a course is the value obtained by multiplying the grade point (G) by the credit (C) of the course: $P = G \times C$
- 3.25. 'Cumulative Grade Point Average' (CGPA) is the value obtained by dividing the sum of credit points in all the semesters taken by the student for the

- entire programme by the total number of credits in the entire programme and shall be rounded off to three decimal places.
- 3.26. Grade Card means the printed record of students' performance, awarded to him/her.
 - 3.27. Course teacher: A teacher nominated by the Head of the Department shall be in charge of a particular course.
 - 3.28. 'Dual core' means a programme with double core subjects, traditionally known as double main.
 - 3.29. 'Strike off the roll' A student who is continuously absent for 14 days without sufficient reason and proper intimation to the Principal of the college shall be removed from the roll.
 - 3.30. Words and expressions used and not defined in this regulation, but defined in the Calicut University Act and Statutes shall have the meaning assigned to them in the Act and Statutes.

4. PROGRAMME STRUCTURE

- 4.1. Students shall be admitted to UG programme under Faculty of Science, Humanities, Language & Literature, Commerce & Management, Fine Arts, Journalism and such other faculty constituted by University from time to time.
- 4.2. Duration: The duration of a UG programme shall be 6 semesters distributed over a period of 3 academic years. The odd semesters (1,3,5) shall be from June to October and the even semesters (2,4,6) shall be from November to March.
- 4.3. Courses: The UG programme shall include five types of courses, viz; Common Courses (Code A), Core courses (Code B), Complementary courses (Code C), Open Course (Code D) and Audit courses (Code E).
- 4.4. Course code : Each course shall have a unique alphanumeric code number, which includes abbreviation of the subject in three letters, the semester number (1 to 6) in which the course is offered, the code of the course (A to E) and the serial number of the course (01,02 ...). The course code will be centrally generated by the university. For example: ENG2A03 represents a common course of serial number 03 offered in the second semester and PHY2B02 representing second semester Core course 2 in Physics programme.
- 4.5. Common Courses: In general, every UG student shall undergo 10 common courses (total 38 credits) chosen from a group of 14 common courses listed below, for completing the programme:

<p>A01. Common English Course 1 A02. Common English Course II A03. Common English Course III A04. Common English Course IV A05. Common English Course V A06. Common English Course VI</p>	<p>English courses A01-A06 applicable to BA/BSC Regular pattern English courses A01-A04 applicable to Language Reduced Pattern (LRP) Programmes B.com, BBA, BBA (T), BBM, B.Sc (LRP), BCA etc.</p>
<p>A07. Additional Language Course I A08. Additional Language Course II A09. Additional Language Course III A10. Additional Language Course IV</p>	<p>Addl. Language courses A07-A10 applicable to BA/B.Sc Regular Pattern Addl. Language courses A07-A08 applicable to Language Reduced Pattern (LRP) Programmes</p>
<p>A11. General Course I A12. General Course II A13. General Course III A14. General Course IV</p>	<p>Applicable to Language Reduced Pattern (LRP) Programmes</p>

Common courses A01-A06 shall be taught by English teachers and A07-A10 by teachers of additional languages respectively. General courses A11-A14 shall be offered by teachers of departments offering core courses concerned.

General courses I, II, III and IV shall be designed by the group of boards concerned.

The subjects under Language Reduced Pattern (LRP) (Alternative Pattern) are grouped into five and General Courses I, II, III & IV shall be the same for each group.

1. BBA, B.Com., Fashion Technology, Hotel Management.
2. Industrial Chemistry, Polymer Chemistry, Food Science and Technology.
3. Computer Science, Electronics, Instrumentation, Printing Technology, Computer Application.
4. Biotechnology, Biochemistry, Aquaculture, Plant Science.
5. B.A Multimedia, B.A Visual Communication, B.A Film and Television.

****Common Courses in various programmes**

No.	Programme	Semester I	Semester II	Semester III	Semester IV
1	B.A. & B.Sc	A01, A02, A07	A03, A04, A08	A05, A09	A06, A10
2	LRP	A01, A02, A07*	A03, A04, A08*	A11, A12	A13, A14

However the existing additional language pattern shall be continued.

The language pattern of BBA shall be the same as that of B.Com. in colleges where both the programmes exist.

- 4.6. Core courses: Core courses are the courses in the major (core) subject of the degree programme chosen by the student. Core courses are offered by the parent department.

- 4.7. Complementary courses: Complementary courses cover one or two disciplines that are related to the core subject and are distributed in the first four semesters. There shall be one complementary course in a semester for B.A Programmes. The complementary courses in first and fourth semester (Type 1) shall be the same. Similarly the complementary courses in second and third semester (Type 2) shall be the same. The college can choose any complementary course either in Type 1 or in Type 2 for a programme. Once they choose the complementary courses that should be intimated to the university. If a college wants to change the complementary course pattern (Type 1 or Type 2) prior sanction has to be obtained. All other programmes, existing pattern will follow.
- 4.8. Open courses: There shall be one open course in core subjects in the fifth semester. The open course shall be open to all the students in the institution except the students in the parent department. The students can opt that course from any other department in the institution. Each department can decide the open course from a pool of three courses offered by the University. Total credit allotted for open course is 3 and the hours allotted is 3. If there is only one programme in a college, they can choose either language courses or physical education as open course.
- 4.9. Common and open courses under SDE/Private Registration: Existing pattern (as in CUCBCSSUG 2014) shall be followed under SDE/Private Registration.
- 4.10. Ability Enhancement courses/Audit courses: These are courses which are mandatory for a programme but not counted for the calculation of SGPA or CGPA. There shall be one Audit course each in the first four semesters. These courses are not meant for class room study. The students can attain only pass (Grade P) for these courses. At the end of each semester there shall be examination conducted by the college from a pool of questions (Question Bank) set by the University. The students can also attain these credits through online courses like SWAYAM, MOOC etc (optional). The list of passed students must be sent to the University from the colleges at least before the fifth semester examination. The list of courses in each semester with credits are given below.

Course with credit	Semester
Environment Studies - 4	1
Disaster Management - 4	2
*Human Rights/Intellectual Property Rights/Consumer Protection - 4	3
*Gender Studies/Gerontology- 4	4

* Colleges can opt any one of the courses.

- 4.11. Extra credit Activities: Extra credits are mandatory for the programme. Extra credits will be awarded to students who participate in activities like NCC, NSS and Swatch Bharath. Those students who could not join in any of the above activities have to undergo Calicut University Social Service Programme (CUSSP). Extra credits are not counted for SGPA or CGPA.
- 4.12. Credits: A student is required to acquire a minimum of 140 credits for the completion of the UG programme, of which 120 credits are to be acquired from class room study and shall only be counted for SGPA and CGPA. Out of the 120 credits, 38 (22 for common (English) courses + 16 for common languages other than English) credits shall be from common courses, 2 credits for project/corresponding paper and 3 credits for the open course. (In the case of LRP Programmes 14 credits for common courses (English), 8 credits for additional language courses and 16 credits for General courses). The maximum credits for a course shall not exceed 5. Dual core programmes are having separate credit distribution. Audit courses shall have 4 credits per course and a total of 16 credits in the entire programme. The maximum credit acquired under extra credit shall be 4. If more Extra credit activities are done by a student, that may be mentioned in the Grade card. The credits of audited courses or extra credits are not counted for SGPA or CGPA.
- 4.13. Attendance: A student shall be permitted to appear for the semester examination, only if he/she secures not less than 75% attendance in each semester. Attendance shall be maintained by the Department concerned. Condonation of shortage of attendance to a maximum of 10% in the case of single condonation and 20% in the case of double condonation in a semester shall be granted by University remitting the required fee. Benefits of attendance may be granted to students who attend the approved activities of the college/university with the prior concurrence of the Head of the institution. Participation in such activities may be treated as presence in lieu of their absence on production of participation/attendance certificate (within two weeks) in curricular/extracurricular activities (maximum 9 days in a semester). Students can avail of condonation of shortage of attendance in a maximum of four semesters during the entire programme (Either four single condonations or one double condonation and two single condonations during the entire programme) . If a student fails to get 65% attendance, he/she can move to the next semester only if he/she acquires 50% attendance. In that case, a provisional registration is needed. Such students can appear for supplementary examination for such semesters after the completion of the programme. Less than 50% attendance requires Readmission. Readmission is permitted only once during the entire programme.

- 4.14. Grace Marks: Grace marks may be awarded to a student for meritorious achievements in co-curricular activities (in Sports/Arts/NSS/NCC/Student Entrepreneurship) carried out besides the regular hours. Such a benefit is applicable and limited to a maximum of 8 courses in an academic year spreading over two semesters. In addition, maximum of 6 marks per semester can be awarded to the students of UG Programmes, for participating in the College Fitness Education Programme (COFE).
- 4.15. Project: Every student of a UG degree programme shall have to work on a project of 2 credits under the supervision of a faculty member or shall write a theory course based on Research Methodology as per the curriculum. College shall have the liberty to choose either of the above. One Project with 3 credits shall be done in any of the two core subjects in the case of Dual Core programmes. But SDE/Private Registration students shall write the Research Methodology course instead of project. Board of Studies concerned shall prepare the syllabus for the same.
5. BOARD OF STUDIES AND COURSES
- 5.1. The UG Boards of Studies concerned shall design all the courses offered in the UG programmes. The Boards shall design and introduce new courses, modify or re-design existing courses and replace any existing courses with new/modified/re-designed courses to facilitate better exposure and training for the students.
- 5.2. The Syllabus of a course shall include the title of the course, the number of credits, maximum marks for external and internal evaluation, duration of examination hours, distribution of internal marks and reference materials. The Board of Studies concerned has the liberty to decide whether the questions can be answered in Malayalam or not. Maximum efforts shall be made to maintain a uniform pattern while designing the courses, project, viva, practical etc. in the scheme and syllabus of various programmes coming under same faculty.
- 5.3. The Syllabus for Common Courses, eventhough prepared by different Boards of Studies, may be put under a separate head as Syllabus for Common Courses.
- 5.4. Each course have an alpha numeric code, the number of credits and title of the course. The code gives information on the subject, the semester number and the serial number of the course. Each module/chapter may mention the number of questions to be asked in each section in the Question paper.
- 5.5. The syllabus of each course shall be prepared module wise. The course outcomes are to be clearly stated in the syllabus of all subjects including laboratory subjects, The number of instructional hours and reference

materials are also to be mentioned against each module. Since a semester contains 16 instructional weeks, the same may be considered in the preparation of the syllabi.

- 5.6. The scheme of examination and model question papers are to be prepared by the Board of Studies. The number of questions from each module in each section may be given along with the syllabus.
- 5.7. A Question Bank system shall be introduced. Boards of Studies shall prepare a Question Bank, modulewise, at least 8 times to that required for a Question paper.
- 5.8. Boards of Studies should make the changes in the syllabi and text books in consultation with the teachers. Each Course should have a Preamble which clearly signifies the importance of that course. The Higher secondary syllabus also to be taken into account while preparing the UG syllabus.
- 5.9. Boards of Studies have to be constantly in touch with renowned Indian Universities and at least a few foreign universities. Subject experts have to be identified in all major fields of study and endeavour, and consulted frequently.

6. ADMISSION

- 6.1. The admission to all programmes will be as per Rules and Regulations of the University.
- 6.2. The eligibility criteria for admission shall be as announced by the University from time to time.
- 6.3. Separate rank lists shall be drawn up for reserved seats as per the existing rules.
- 6.4. The admitted candidates shall subsequently undergo the prescribed courses of study in a college affiliated to the University for six semesters within a period of not less than three years; clear all the examinations prescribed and fulfil all such conditions as prescribed by the University from time to time.
- 6.5. The college shall make available to all students admitted a prospectus listing all the courses offered in various departments during a particular semester. The information so provided shall contain title of the courses, the semester in which it is offered and credits for the courses. Detailed syllabi shall be made available in the University/college websites.
- 6.6. There shall be a uniform calendar prepared by the University for the registration, conduct/schedule of the courses, examinations and publication of results. The University shall ensure that the calendar is strictly followed.

- Admission notification and the academic calendar for SDE/ Private Registration will be prepared and issued by SDE.
- 6.7. There shall be provision for Inter Collegiate and Inter University Transfer in third and fifth semester within a period of two weeks from the date of commencement of the semester. College transfer may be permitted in Second and Fourth semester also without change in complementary course within a period of two weeks from the date of commencement of the semester concerned.
 - 6.8. Complementary change at the time of college transfer is permitted in the third semester if all conditions are fulfilled.
 - 6.8.1. Core/Complementary change under SDE/Private Registration: Existing rule (as in CUCBCSS UG 2014) shall be followed in Core/Complementary Change.
 - 6.9. CBCSS regular students can join distance education stream/Private Registration in any semester in the same programme or different one. If core and complementary courses are different, they have to undergo them in the new stream. The marks/grace obtained for common courses will be retained.
 - 6.10. A student registered under distance education stream/Private Registration in the CBCSS pattern may be permitted to join the regular college (if there is a vacancy within the sanctioned strength) in the third and fifth semester with the same programme only. If there is a change in complementary courses, it can be done with following conditions: i) the external and internal marks/grade obtained in the previous semesters for the earlier complementary courses will be cancelled. ii) the students have to write the external examinations for the previous semester for the new complementary courses along with the subsequent batch. iii) An undertaking to the effect that “the internal evaluation for the previous semesters of the new complementary courses will be conducted”, is to be obtained from the Principal of the college in which the student intends to join.
 - 6.11. Provision for credit transfer is subject to common guidelines prepared by the faculty concerned.
 - 6.12. There shall be provision for Readmission of students in CBCSS UG 2019.
 - 6.12.1. The Principal can grant readmission to the student, subject to the conditions detailed below and inform the matter of readmission to the Controller of Examinations within one month of such readmission.
 - 6.12.2. This readmission is not to be treated as college transfer.
 - 6.12.3. There should be a gap of at least one semester for readmission.

- 6.12.4. The candidate seeking readmission to a particular semester should have registered for the previous semester examination.
- 6.12.5. Readmission shall be taken within two weeks from the date of commencement of the semester concerned.
- 6.12.6. Deleted
- 6.12.7. If there is a change in complementary courses, it can be done with following conditions: i) the external and internal marks/grade obtained in the previous semesters for the earlier complementary courses will be cancelled. ii) the students have to write the external examinations for the previous semester for the new complementary courses along with the subsequent batch iii) An undertaking to the effect that “the internal evaluation for the previous semesters of the new complementary courses will be conducted”, is to be obtained from the Principal of the college in which the student intends to take readmission.
- 6.12.8. If change in scheme occurs while readmission, provision for credit transfer is subject to common guidelines prepared by Board of Studies/ Faculty concerned. For readmission to CBCSS UG 2019 involving scheme change, the Principal concerned shall report the matter of readmission to Controller of Examinations with the details of previous semesters and course undergone with credits within two weeks in order to fix the deficiency/excess papers.

7. REGISTRATION

- 7.1. Each student shall make an online registration for the courses he/she proposes to take, in consultation with the Faculty Adviser within two weeks from the commencement of each semester. The college shall send a list of students registered for each programme in each semester giving the details of courses registered, including repeat courses, to the University in the prescribed form within 45 days from the commencement of the semester. It is mandatory that the students who got admission under CBCSS UG 2019 in SDE/Private shall register for the examinations of the concerned semesters in the same year itself.
- 7.2. A student shall be normally permitted to register for the examination if he/she has required minimum attendance. If the student has a shortage of attendance below 65% in a semester, the student shall be permitted to move to the next semester (if the attendance is more than 50% - Provisional registration) and can write the examination for the entire courses of the semester in which shortage of attendance occurs as supplementary examination only after the completion of the entire programme. In such cases, a request from the student may be forwarded

through the Principal of the college to the Controller of Examinations within two weeks of the commencement of the semester. If the attendance is less than 50%, the student is ineligible to continue the programme and has to seek readmission. There will not be any Repeat semester in CBCSSUG 2019.

- 7.3. A student who registered for the course shall successfully complete the programme within 6 years from the year of first registration. If not, such candidate has to cancel the existing registration and join afresh as a new candidate.
- 7.4. For open courses there shall be a minimum of 10 and maximum of 75 students per batch. For other courses existing pattern will be followed.
- 7.5. Those students who have followed the UG Programmes in annual pattern or Choice based Credit & Semester System pattern can cancel their earlier registration and register afresh for CBCSSUG 2019 scheme in the same discipline or a different one.
- 7.6. The students who have attendance within the limit prescribed, but could not register for the examination have to apply for Token registration, within two weeks of the commencement of the next semester.

8. EXAMINATION

- 8.1. There shall be University examinations at the end of each semester.
- 8.2. Practical examinations shall be conducted by the University as prescribed by the Board of Studies.
- 8.3. External viva-voce, if any, shall be conducted along with the practical examination/project evaluation.
- 8.4. The model of question papers may be prepared by the concerned Board Of Studies. Each question should aim at - (1) assessment of the knowledge acquired (2) standard application of knowledge (3) application of knowledge in new situations.
- 8.5. Different types of questions shall possess different marks to quantify their range. A general scheme for the questionpaper is given in Annexure III.
- 8.6. Project evaluation shall be conducted at the end of sixth semester. 20% of marks are awarded through internal assessment.
- 8.7. Audit course: The students can attain only pass (Grade P) for these courses. At the end of each semester there shall be examination conducted by the college from a pool of questions set by the University. The students can also attain the credits through online courses like SWAYAM, MOOC etc. The College shall send the list of passed students to the University at least before the commencement of fifth semester examination.

- 8.8. Improvement course: Improvement of a particular semester can be done only once. The student shall avail of the improvement chance in the succeeding year after the successful completion of the semester concerned. The students can improve a maximum of two courses in a particular semester (for SDE/Private registration students also). The internal marks already obtained will be carried forward to determine the new grade/mark in the improvement examination (for regular students). If the candidate fails to appear for the improvement examination after registration, or if there is no change in the results of the improved examination, the mark/grade obtained in the first appearance will be retained.

Improvement and supplementary examinations cannot be done simultaneously.

- 8.9. Moderation: Moderation is eligible as per the existing rules of the Academic Council.

9. EVALUATION AND GRADING

- 9.1. Mark system is followed instead of direct grading for each question. For each course in the semester letter grade and grade point are introduced in 10-point indirect grading system as per guidelines given in Annexure-1

9.2. Course Evaluation

The evaluation scheme for each course shall contain two parts 1) Internal assessment 2) External Evaluation

20% weight shall be given to the internal assessment. The remaining 80% weight shall be for the external evaluation.

9.2.1. Internal Assessment

20% of the total marks in each course are for internal examinations. The marks secured for internal assessment only need to be sent to University by the colleges concerned.

The internal assessment shall be based on a predetermined transparent system involving written tests, Class room performance based on attendance in respect of theory courses and lab involvement/records attendance in respect of Practical Courses.

Internal assessment of the project will be based on its content, method of presentation, final conclusion and orientation to research aptitude.

Components with percentage of marks of Internal Evaluation of Theory Courses are- Test paper 30%, Assignment 20%, Seminar 20% and Class room performance (like question asked, problem solved, viva, debates, quiz competition, group discussions conducted in the class room) 30%.

For practical courses - Record 60% and lab involvement 40% as far as

internal is concerned.

(if a fraction appears in internal marks, nearest whole number is to be taken)

For the test paper marks, at least one test paper should be conducted. If more test papers are conducted, the mark of the best one should be taken.

To ensure transparency of the evaluation process, the internal assessment marks awarded to the students in each course in a semester shall be notified on the notice board at least one week before the commencement of external examination. There shall not be any chance for improvement for internal marks. The course teacher(s) shall maintain the academic record of each student registered for the course, which shall be forwarded to the University by the college Principal after obtaining the signature of both course teacher and Head of the Department.

- 9.2.2. Internal Assessment for SDE/Private Registration : Regarding internal component, the student will have to attend a fill in the blank type/multiple choice type examination of 20 marks along with the external examination in SDE mode. The attendance component of internal marks is not mandatory for such students.

9.2.3. External Evaluation

External evaluation carries 80% of marks. All question papers shall be set by the University. The external question papers may be of uniform pattern with 80/60 marks (The pattern is given in the Annexure III). The courses with 2/3 credits will have an external examinaion of 2 hours duration with 60 marks and courses with 4/5 credits will have an external examination of 2.5 hours duration with 80 marks.

The external examination in theory courses is to be conducted by the University with question papers set by external experts. The evaluation of the answer scripts shall be done by examiners based on a well-defined scheme of valuation and answer keys shall be provided by the University. The external examination in practical courses shall be conducted by two examiners - one internal and an external, the latter appointed by the University. The project evaluation with viva can be conducted either internal or external which may be decided by the Board of Studies concerned. (Guidelines are given in the Annexure II).

After the external evaluation only marks are to be entered in the answer scripts. All other calculations including grading are done by the University.

- 9.2.4. Revaluation: In the new system of grading, revaluation is permissible. The prevailing rules of revaluation are applicable to CBCSSUG 2019.

Students can apply for photocopies of answer scripts of external

examinations. Applications for photocopies/scrutiny/revaluation should be submitted within 10 days of publication of results. The fee for this shall be as decided by the University.

10. INDIRECT GRADING SYSTEM

- 10.1. Indirect grading System based on a 10-point scale is used to evaluate the performance of students.
- 10.2. Each course is evaluated by assigning marks with a letter grade (O, A+, A, B+, B, C, P, F or Ab) to that course by the method of indirect grading. (Annexure I).
- 10.3. An aggregate of P grade (after external and internal put together) is required in each course for a pass and also for awarding a degree. No separate grade/mark for internal and external will be displayed in the grade card; only an aggregate. Also the aggregate mark of internal and external are not displayed in the grade card.
- 10.4. A student who fails to secure a minimum grade for a pass in a course is permitted to write the examination along with the next batch.
- 10.5. After the successful completion of a semester, Semester Grade Point Average (SGPA) of a student in that semester is calculated using the formula given below. For the successful completion of a semester, a student should pass all courses. However, a student is permitted to move to the next semester irrespective of SGPA obtained.

SGPA of the student in that semester is calculated using the formula

Sum of the credit points of all courses in a semester

SGPA = -----

Total credits in that semester

- 10.6. The Cumulative Grade Point Average (CGPA) of the student is calculated at the end of a programme. The CGPA of a student determines the overall academic level of the student in a programme and is the criterion for ranking the students. CGPA can be calculated by the following formula.

Total credit points obtained in six semesters

CGPA = -----

Total credits acquired (120)

- 10.6. SGPA and CGPA shall be rounded off to three decimal places. CGPA determines the broad academic level of the student in a programme and is the index for ranking students (in terms of grade points). An overall letter grade (cumulative grade) for the entire programme shall be awarded to a student depending on her/his CGPA (Annexure-I)

11. GRADE CARD

- 11.1. The University shall issue to the students grade/marks card (by online) on completion of each semester, which shall contain the following information:
- Name of University
 - Name of College
 - Title of UG Programme
 - Semester concerned
 - Name and Register Number of student
 - Code number, Title and Credits of each Course opted in the semester
 - Letter grade in each course in the semester
 - The total credits, total credit points and SGPA in the Semester (corrected to three decimal places)
- 11.2. The final Grade card issued at the end of the final semester shall contain the details of all courses taken during the entire programme including those taken over and above the prescribed minimum credits for obtaining the degree. The final grade card shall show CGPA (corrected to three decimal places), percentage of marks (corrected to two decimal places) and the overall letter grade of a student for the entire programme. The final grade card shall also include the CGPA and percentage of marks of common courses, core courses, complementary courses and open courses separately. This is to be done in a 10- point indirect scale. The final Grade card also contain the list of Audit courses passed and the details of Extra credits.
- 11.3. Evaluation of Audit courses: The examination shall be conducted by the college itself from the Question Bank prepared by the University. The Question paper shall be of 100 marks of 3 hour duration. For SDE/Private students it may be of MCQ/ fill in the blank type questions or Online question paper may be introduced.

12. CALICUT UNIVERSITY SOCIAL SERVICE PROGRAMME (CUSSP)

In this programme, a student has to complete 12 days of social service. This has to be completed in the first four semesters; 3 days in each semester. For the regular programme the student has to work in a Panchayath or Local body or in a hospital/ poor home or old age home or in a Pain & paliative centre or any social work assigned by the College authorities. Students who engaged in College Union activities and participate in sports and cultural activities in Zonal level have to undergo only 6 days of CUSSP during the entire programme. The whole documents regarding the student should be kept in the college and the

Principal should give a Certificate for the same. The list of students (successfully completed the programme) must be sent to the University before the commencement of the fifth semester examinations.

- 12.1. CUSSP for SDE/Private students: For SDE/Private students, out of the 12 days, the student has to undergo 6 days in a Panchayath or Local body and the remaining 6 days in a Hospital/ Old age home or in a Pain and paliative centre.. The respective certificate should uploaded to the University (before the commencement of fifth semester examinations) in respective student portal and the University should provide an Online Certificate for the same.

13. AWARD OF DEGREE

The successful completion of all the courses (common, core, complementary and open courses) prescribed for the degree programme with 'P' grade shall be the minimum requirement for the award of degree.

- 13.1. Degree for Oriental Title courses: Those students who have passed Oriental Title courses earlier have to appear for the common courses. A 01 to A 06 in order to get POT degree. This can be done through SDE/Private Registration (SDE/Private registration along with the First semester students).
- 13.2. For obtaining Additional Degree: Those students who have passed UG programme under CCSS/CUCBCSS 2014 have to appear for only Core, Complementary and Open courses for acquiring additional degree. The registration for additional degree shall be done through SDE/ Private Registration in the third semester as per existing rules.

14. GRIEVANCE REDRESSAL COMMITTEE

- 14.1. Department level: The college shall form a Grievance Redressal Committee in each department comprising of course teacher and one senior teacher as members and the Head of the Department as Chairman. This committee shall address all grievances relating to the internal assessment grades of the students.
 - 14.2. College level: There shall be a college level grievance redressal committee comprising of student adviser, two senior teachers and two staff council members (one shall be elected member) as members and Principal as Chairman.
 - 14.3. University level: The University shall form a Grievance Redressal Committee as per the existing norms.
15. A Steering Committee consisting of two syndicate members of whom one shall be a teacher, the Registrar of the University, Controllor of Examinations, seven teachers from different disciplines (preferably one from each faculty), two

Chairpersons of Board of Studies (one UG and 1 PG), and two Deans of Faculty shall be formed to resolve the issues, arising out of the implementation of CBCSSUG 2019. The Syndicate member who is also a teacher shall be the Convenor of the committee. The quorum of the committee shall be six and meeting of the committee shall be held at least thrice in an academic year. The resolutions of the committee will be implemented by the Vice-Chancellor in exigency and this may be ratified by the Academic Council.

16. TRANSITORY PROVISION

Notwithstanding anything contained in these Regulations, the Vice-Chancellor shall, for a period of three years from the date of coming into force of these Regulations, have the power to provide by order that these regulations shall be applied to any programme with such modifications as may be necessary.

17. REPEAL

The regulations now in force in so far as they are applicable to programmes offered by the University and to the extent they are inconsistent with these regulations are hereby repealed. In the case of any inconsistency between the existing Regulations and these Regulations relating the Choice-Based Credit Semester System in their application to any course offered in a College, the latter shall prevail.

Annexure-1

Method of Indirect Grading

Evaluation (both internal and external) is carried out using Mark system .The Grade on the basis of total internal and external marks will be indicated for each course, for each semester and for the entire programme.

Indirect Grading System in 10 -point scale is as below:

Ten Point Indirect Grading System

Percentage of Marks (Both Internal & External put together)	Grade	Interpretation	Grade point Average(G)	Range of grade points	Class
95 and above	O	Outstanding	10	9.5 -10	First Class with Distinction
85 to below 95	A+	Excellent	9	8.5 -9.49	
75 to below 85	A	Very good	8	7.5 -8.49	
65 to below 75	B+	Good	7	6.5 -7.49	First Class
55 to below 65	B	Satisfactory	6	5.5 -6.49	
45 to below 55	C	Average	5	4.5 -5.49	Second Class
35 to below 45	P	Pass	4	3.5 -4.49	Third Class
Below 35	F	Failure	0	0	Fail
Absent	Ab	Absent	0	0	Fail

Example - 1SGPA Calculation

Semester I Course Code	Course Name	Grade Obtained	Grade Point (G)	Credit (C)	Credit Point (CXG)
xxxxxxx	Xxxxxxx	A	8	4	32
xxxxxxx	Xxxxxxxxxx	C	5	3	15
xxxxxxx	Xxxxxxxxxx	A+	9	4	36
xxxxxxx	Xxxxxxxxxx	B+	7	3	21
xxxxxxx	Xxxxxxxxxx	P	4	3	12
xxxxxxx	Xxxxxxxxxx	C	5	4	20

SGPA =
$$\frac{\text{Sum of the Credit points of all courses in a semester}}{\text{Total Credits in that semester}}$$

SGPA =
$$\frac{32+15+36+21+12+20}{21} = \frac{136}{21}$$

SGPA = 6.476

Percentage of marks of semester I = (SGPA / 10) x 100 = 64.76 %

Note: The SGPA is corrected to three decimal points and the percentage of marks shall be approximated to two decimal points.

Example: 2

Semester II Course Code	Course Name	Grade Obtained	Grade Point (G)	Credit (C)	Credit Point (CXG)
xxxxxxx	Xxxxxxx	A	8	4	32
xxxxxxx	Xxxxxxxxxx	C	5	3	15
xxxxxxx	Xxxxxxxxxx	A+	9	4	36
xxxxxxx	Xxxxxxxxxx	B+	7	3	21
xxxxxx*	Xxxxxxxxxx	F	0	3	0
xxxxxxx	Xxxxxxxxxx	C	5	4	20

*Failed course

Note: In the event a candidate failing to secure 'P' grade in any Course in a semester, consolidation of SGPA and CGPA will be made only after obtaining 'P' grade in the failed Course in the subsequent appearance.

CGPA Calculation

Total Credit points obtained in six semesters

CGPA = -----
Total Credits acquired (120)

Example

$$\text{CGPA} = 136 + 145 + 161 + 148 + 131 + 141 / 120 = 862/120$$

$$\text{CGPA} = 7.183$$

$$\text{Total percentage of marks} = (\text{CGPA}/10) \times 100 \quad \text{Total \% of marks} = (7.183/10) \times 100 = 71.83$$

Total Credit points obtained for Core Courses

CGPA of Core Courses = -----

Total Credits acquired for Core Courses

Similarly CGPA of Complementary courses, Open courses, English Common courses and Additional Language Common courses may be calculated and the respective percentage may be calculated. All these must be recorded in the Final Grade Card.

ANNEXURE II

Guidelines for the Evaluation of Projects 1. PROJECT EVALUATION- Regular

- Evaluation of the Project Report shall be done under Mark System.
- The evaluation of the project will be done at two stages :
- a) Internal Assessment (supervising teachers will assess the project and award internal Marks)
- b) External evaluation (external examiner appointed by the University)
- c) Grade for the project will be awarded to candidates, combining the internal and external marks.
- The internal to external components is to be taken in the ratio 1:4. Assessment of different components may be taken as below.

Internal (20% of total) Components	External (80% of Total) Percentage of internal marks	Components
Originality	20	Relevance of the Topic, Statement of Objectives
Methodology	20	Reference/ Bibliography, Presentation, quality of Analysis/ Use of Statistical Tools.
Scheme/ Organisation of Report	30	Findings and recommendations
Viva - Voce	30	Viva - Voce

4. External Examiners will be appointed by the University from the list of VI Semester Board of Examiners in consultation with the Chairperson of the Board.
5. The Chairman of the VI semester examination should form and coordinate the evaluation teams and their work.
6. Internal Assessment should be completed 2 weeks before the last working day of VI Semester.
7. Internal Assessment marks should be published in the Department.
8. In the case of Courses with practical examination, project evaluation shall be done along with practical examinations.
9. The Chairman Board of Examinations, may at his discretion, on urgent requirements, make certain exception in the guidelines for the smooth conduct of the evaluation of project.

2. PASS CONDITIONS

- Submission of the Project Report and presence of the student for viva are compulsory for internal evaluation. No marks shall be awarded to a candidate if she/ he fails to submit the Project Report for external evaluation.
- The student should get a minimum P Grade in aggregate of External and Internal.
- There shall be no improvement chance for the Marks obtained in the Project Report.

* In the extent of student failing to obtain a minimum of Pass Grade, the project work may be re-done and a new Internal mark may be submitted by the Parent Department. External examination may be conducted along with the subsequent batch.

Annexure-III

Question paper type 1

Scheme of Examinations:

The external QP with 80 marks and Internal examination is of 20 marks. Duration of each external examination is 2.5 Hrs. The pattern of External Examination is as given below. The students can answer all the questions in Sections A&B. But there shall be Ceiling in each section.

Section A

Short answer type carries 2 marks each - 15 questions Ceiling - 25

Section B

Paragraph/ Problem type carries 5 marks each - 8 questions Ceiling - 25

Section C

Essay type carries 10 marks (2 out of 4) 2x10=20

Question paper type 2

Scheme of Examinations:

The external QP with 60 marks and Internal examination is of 15 marks. Duration of each external examination is 2 Hrs. The pattern of External Examination is as given below. The students can answer all the questions in Sections A & B. But there shall be Ceiling in each section.

Section A

Short answer type carries 2 marks each - 12 questions Ceiling - 20

Section B

Paragraph/ Problem type carries 5 marks each - 7 questions Ceiling - 30

Section C

Essay type carries 10 marks (1 out of 2) 1X10=10



UNIVERSITY OF CALICUT

CHOICE BASED CREDIT SEMESTER SYSTEM-PG

(CBCSS PG - 2019)

REGULATIONS

FOR THE PG PROGRAMMES OF AFFILIATED COLLEGES &
SDE / PRIVATE REGISTRATION

**Regulations for the Post-Graduate Choice Based
Credit Semester System - 2019**

1. SHORT TITLE

These regulations shall be called “Regulations for Choice Based

2. SCOPE, APPLICATION & COMMENCEMENT

Credit Semester System for Post-Graduate Curriculum - 2019 for affiliated Colleges and for SDE / Private Registration” (CBCSS-PG) 2019.

- 2.1 The regulations provided herein shall apply to all the regular Post Graduate programmes offered by the affiliated colleges (Government/ Aided/ Unaided/ Self-financing) of the University of Calicut, Autonomous Colleges and all the Post Graduate programmes offered by the School of Distance Education / Private Registration with effect from the 2019 batch admission.
- 2.2 However in matters connected to the setting of question papers, conduct of examinations and other matters related to examinations, the Autonomous colleges can draft their own guidelines subject to the approval of the University.
- 2.3 However, these regulations are not applicable to the regular PG programmes offered by the Teaching Departments/Schools of the University and M.P.Ed, M.Ed, MBA and LLM Programmes which are governed by separate regulations.
- 2.4 These regulations shall supersede all the previous regulations for the regular Post-graduate programmes offered through the affiliated colleges, the School of Distance Education or the Private Registration window of the University unless otherwise specified

3. DEFINITIONS

- 3.1 ‘Academic Committee’ means the Committee constituted by the Vice-Chancellor under this regulation to manage and monitor the running of the Post Graduate programmes, under CBCSSPG-2019.

- 3.2 'Programme' means the entire course of study and Examinations (traditionally referred to as course).
- 3.3 'Duration of Programme' means the period of time required for the conduct of the programme. The duration of post-graduate programme shall be four semesters.
- 3.4 'Semester' means a term consisting of a minimum of 90 working days including examination days distributed over a minimum of 18 weeks each of 5 working days.
- 3.5 'Course' means a segment of the subject matter to be covered in a semester (traditionally referred to as paper). All the courses need not carry the same weightage. The courses should define their learning objectives and learning outcomes. A course may be designed in such a way that it consists of lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.
- 3.6 'Core course' means a compulsory course in a subject related to a particular PG Programme, which shall be successfully completed by a student to receive the degree.
- 3.7 'Elective course' means a course, which can be substituted, by equivalent course from the same subject and a minimum number of courses are required to complete the programme.
- 3.8 Audit Course :These courses are mandatory for which the student can register without earning credits.
- 3.9 Ability Enhancement Course : This is one among the Audit courses which is mandatory for all programmes but not counted for the calculation of SGPA or CGPA. The object is to enhance the ability and skill in the concerned core area.
- 3.10 Professional competency Course :This is one among the Audit courses which is mandatory for a programme but not counted for the calculation of SGPA or CGPA. The object is to get professional competency and exposure in the concerned core area.
- 3.11 'Readmission' is the act of admitting a student again after leaving the institution.
- 3.12 'Improvement course' is a course registered by a student for improving his/her performance in that particular course.
- 3.13 'Department' means any teaching Department offering a course of study approved by the University in a college or SDE/Private Registration as per the Statute and Act of the University.
- 3.14 'Parent Department' means the Department (or SDE/Private Registration) which offers a particular postgraduate programme.

- 3.15 'Department Council' means the body of all teachers of a Department in a College.
- 3.16 'Department Coordinator' is a teacher nominated by Department Council to coordinate the continuous evaluation undertaken in that Department.
- 3.17 'Student Advisor' means a teacher/coordinator from the college nominated by the College Council / to look into the matters relating to CBSSPG-2019.
- 3.18 'Credit' (C) of a course is a measure of the weekly unit of work assigned for that course.
- 3.19 'Letter Grade' or simply 'Grade' in a course is a letter symbol (e.g., A+,A,B+,B, etc (as mentioned in Clause 20.2 of this Regulation) which indicates a particular range of grade points which indicates the broad level performance of a student.
- 3.20 Grade Point (G) :It is a numerical weightage allotted to each letter grade on a Grading Scale.
- 3.21 'Credit point' (P) of a course is the value obtained by multiplying the grade point (G) by the Credit (C) of the course $P = G \times C$.
- 3.22 'Semester Grade point average' (SGPA) is the value obtained by dividing the sum of credit points obtained by a student in various courses taken in a semester by the total number of credits taken by him/her in that semester. The grade points shall be rounded off to two decimal places.
- 3.23 'Cumulative Grade point average' (CGPA) It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
- 3.24 SDE means School of Distance Education.
- 3.25 Words and expressions used and not defined in these regulations but defined in the Calicut University Act and Statutes shall have the meaning assigned to them in the Act and Statute.

4. DURATION OF THE PROGRAMME

- 4.1 The minimum duration for completion of a four semester PG Programme is two years. The maximum period for completion is 4 years.
- 4.2 The duration of each semester shall be 90 working days, inclusive of examinations, spread over five months.
- 4.3 Odd semesters shall be held from June to October and even semesters from November to March subject the academic calendar of the University.

5. SCHEME AND SYLLABUS

The detailed scheme and syllabus for each course shall be framed by the Board of Studies concerned and approved by the faculties concerned and Academic Council based on this Common Regulation.

6. PROGRAMME STRUCTURE

- 6.1 Students shall be admitted to post graduate programme offered under any of the faculties of the University.
- 6.2 The programme shall include three types of courses : Core courses, Elective courses and Audit Courses.
- 6.3 Comprehensive Viva-voce and Project Work / Dissertation shall be treated as Core Courses. Project Work is mandatory for all regular programmes and Comprehensive Viva-voce is optional and these shall be done in the end semester. For SDE / Private Registration students both the Project Work and Comprehensive Viva-voce is optional instead they can have two additional theory courses as per the stipulations of the concerned BoS.
- 6.4 Total credit for the programme shall be 80 (eighty), except for MSW Programme, this describes the weightage of the course concerned and the pattern of distribution is as detailed below :
 - i) Total Credit for Core Courses shall not be less than 60 (sixty) and not more than 68 (sixty eight), except for MSW Programme.
 - ii) Total Credit for Elective Course shall not be less than 12 (twelve) and not more than 20 (Twenty), except for MSW Programme.
 - iii) Deleted.
 - vi) Deleted.
 - v) Deleted.
- 6.5 Elective courses shall be spread over either in the Third & Fourth Semesters combined or in any one of these Semesters (III / IV) only subject to the stipulations of the BoS concerned.
- 6.6 Study Tour / Field visit / Industrial visit / Trip for specimen collection may be conducted as a part of the Programme as per the stipulations of the BoS concerned.
- 6.7 Audit Courses : In addition to the above courses there will be two Audit Courses (Ability Enhancement Course & Professional Competency Course) with 4 credits each. These have to be done one each in the first two semesters. The credits will not be counted for evaluating the overall SGPA & CGPA. The colleges shall conduct examination for these courses and have to intimate /upload the results of the same to the University on the stipulated date during the III Semester. Students have to obtain only minimum pass requirements in the Audit Courses. The details of Audit courses are given below.

Semester	Course Title	Suggested Area	Details
I	Ability Enhancement Course (AEC)	Internship / Seminar presentation / Publications / Case study analysis / Industrial or Practical Training / Community linkage programme / Book reviews etc.	Concerned BoS can design appropriate AEC & PCC and evaluation criteria by considering the relevant aspects in the core area of the faculty under study.
II	Professional Competency Course (PCC)	To test the skill level of students like testing the application level of different softwares such as SPSS/R/ Econometrics / Pythan/Any software relevant to the programme of study / Translations etc.	

6.8 The required number of credits as specified in the syllabus/regulations must be acquired by the student to qualify for the degree. A student shall accumulate a minimum of 80 credits for the successful completion of the programmes. (Except for MSW Programme)

6.9 For uniform identification a common guideline for Coding various courses are given in the last part of the Appendix.

6.10 Courses and Credit distribution summary :

Semester	Course	Teaching Hours	Credit	Total Credit
	Core Courses (Theory/Practical) Core Courses (Theory/Practical) (i) Core Courses (Theory/Practical) (ii) Elective Courses (Theory/Practical) (i) Core Courses (Theory / Practical) Including : (a)Comprehensive Viva-voce (Optional) (b) Project Work/ Dissertation Elective Courses (Theory/ Practical)	Teaching hours can be fixed by the concerned BoS for various courses and shall not exceed 25 hours per week @ 5 hours per day.	<ul style="list-style-type: none"> • For Core course total credit can vary from 60 to 68, except for MSW Program me. • For Elective Course total credit can vary from 12 to 20. except for MSW Program me. 	
Total credit shall be				80

Audit Course I: Ability Enhancement Course (AEC)	Not coming in the normal work load	4 (Not added for SGPA / CGPA)	4
Audit Course II: Professional Competency Course (PCC)		4 (Not added for SGPA / CGPA)	4

7. PROJECT WORK / DISSERTATION & COMPREHENSIVE VIVA-VOCE

- 7.1 There shall be a Project work with dissertation and Comprehensive Viva-voce as separate courses relating to the core area under study in the end Semester and included in the Core Courses.
- 7.2 For Regular students, Project work is mandatory for all faculties but Comprehensive Viva-voce is optional. Viva-voce related to Project work shall be one of the criteria for Project Work evaluation provided as per 18.6 of this regulation.
- 7.3 SDE/Private Registration students have no Project Work. They have to undergo one Theory Course framed by Board of Studies concerned. Comprehensive Viva-Voce is Compulsory.
- 7.4 If the SDE/Private registration students opt Project Work, it can be done only under the supervision of a working /retired teacher from a Govt /Aided College or a University teacher and prior approval/sanction from the SDE has to be obtained as per the stipulations of the concerned programme curriculum.
- 7.5 Deleted.
- 7.6 All students have to submit a Project Report/Dissertation in the prescribed structure and format as a part of the Project Work undertaken as per the stipulations of the concerned BoS.
- 7.7 There shall be External and Internal evaluation for Project Work and these shall be combined in the proportion of 4:1. In the case of Comprehensive Viva-voce, the conduct of External Viva-voce is mandatory but internal is optional, subject to the decision and stipulations of the BoS concerned.
- 7.8 Detailed course structure on Project work to be done, Viva-voce and Project Report preparation can be designed by integrating relevant aspects by the concerned Board of Studies of the Programme.
- 7.9 Details of evaluation of Project Work/Dissertation and Comprehensive Viva-voce are given under clause 18 of this regulation.

8. BOARD OF STUDIES AND COURSES

- 8.1 The PG Boards of Studies concerned shall design all the courses offered in the post-graduate programmes. The Boards shall design and introduce new courses, modify or re-design existing courses and replace any existing courses with new/modified/re-designed courses to facilitate better exposure

- and training for the students.
- 8.2 The Syllabus of a course shall include course code, the title of the course, the number of credits, maximum grade for external and internal evaluation, duration of examination hours, distribution of internal grade, model question paper and reference materials. The Board of Studies concerned has the liberty to decide whether the questions can be answered in Malayalam or not. Maximum efforts shall be made to maintain a uniform pattern while designing the courses, project, viva, practical etc. in the scheme and syllabus of various programmes coming under same faculty.
- 8.3 Code numbers for the courses can be given as per the general guidelines given in the 'Appendix' for a uniform identification.

9. ADMISSION

- 9.1 The admission to all PG programmes shall be as per the rules and regulations of the University.
- 9.2 The eligibility criteria for admission shall be as announced by the University from time to time.
- 9.3 Separate rank lists shall be drawn up for reserved seats as per the existing rules.
- 9.4 The college shall make available to all the admitted students the information regarding all the courses including electives offered with syllabus and credit for the entire course.
- 9.5 There shall be a uniform calendar prepared by the University for the Conduct of the programmes.
- 9.6 There shall be provision for inter collegiate and inter University transfer in the 2nd and 3rd semester within a period of two weeks from the date of commencement of the semesters.
- 9.7 There shall be provision for credit transfer subject to the conditions specified by the Board of Studies concerned.
- 9.8 The SDE shall make available to all students admitted in SDE/Private Registration mode, a Handbook containing the details of the courses offered indicating Core courses, Elective courses, Audit Courses, respective credits, procedures of the Project work to be done and other relevant aspects of the Programme in order to get a clear idea about the programme under study.
- 9.9 There shall be provision for transfer from Regular stream to SDE/Private registration and SDE/Private Registration to Regular (under the same scheme and syllabus) in the Second and Third Semester within a period of two weeks or the period fixed by the University from the date of commencement of the academic year as per the existing rules and regulations for inter college

transfer. Transfer of students from Autonomous colleges to SDE and SDE to Autonomous Colleges is also permitted.

- 9.10 There shall be a uniform calendar prepared by the University for the registration, conduct/schedule of the courses, examinations and publication of results. The University shall ensure that the calendar is strictly followed.

10. READMISSION

- 10.1 There shall be provision for readmission of students.
- 10.2 For readmission, the vacancy should be within the sanctioned strength in the parent college. If there is no vacancy in the junior batch of the parent college, readmission can be taken in another college with the junior batch, if there is vacancy within the sanctioned strength in the concerned college.
- 10.3 This readmission is not to be treated as college transfer.
- 10.4 There should be a gap of at least one semester for readmission.
- 10.5 The candidate seeking readmission to a particular semester should have registered for the previous semester examination.
- 10.6 Readmission shall be taken within two weeks from the date of commencement of the semester concerned.
- 10.7 The Principal can grant readmission to the student, subject to the above conditions, and inform the matter of readmission to the Controller of Examinations within one month of such readmission.
- 10.8 If change in scheme occurs while readmission, provision for credit transfer will be subject to the common guidelines prepared by Board of Studies/ Faculty concerned.
- 10.9 This provision is applicable to SDE/Private Registration student also irrespective of vacancy and sanctioned strength.

11. REGISTRATION

- 11.1 - A student shall be permitted to register for a programme at the time of admission.
- 11.2 - A student who registers for a programme shall complete it within 4 years.
- 11.3 - The college shall send a list of students registered for each programme in each semester giving the details of courses registered to the university in the prescribed form within 45 days of the commencement of the semester.
- 11.4 - Students shall be normally permitted to register for the examination if they have required minimum attendance as per clause 12 of this regulation. If the student has a shortage of attendance in a semester, the student shall be permitted to move to the next semester and can write the examination for the entire courses of the semester in which shortage of attendance occurs as supplementary examination only after the completion of the entire

programme. In such cases, a request from the student may be forwarded through the Principal of the college to the Controller of Examinations within two weeks of the commencement of the semester. There will not be any Repeat semester in CBCSSPG 2019.

- 11.5 - The students who have attendance within the limit prescribed as per clause 12 of this regulation, but could not register for the semester examinations, have to apply for token registration, within two weeks of the commencement of the next semester.

12. ATTENDANCE

- 12.1 - The students admitted in the PG programmes in affiliated colleges shall be required to attend at least 75 percent of the total number of classes (theory/practical) held during each semester. The students having less than prescribed percentage of attendance shall not be allowed to appear for the University examination.
- 12.2 - For SDE / Private Registration students, minimum 75% of attendance is required for the courses having mandatory Contact classes insisted by the Programme.
- 12.3 - Condonation of shortage of attendance for a maximum of 9 days (10% of the working days in a semester) in the case of single condonation and 18 days (20% of the working days in a semester) in the case of double condonation in a semester subject to a maximum of two times (for single condonation only) during the whole period of Post Graduate programme may be granted by the University as per the existing procedures. In the case of double condonation, only one condonation shall be allowed during the entire programme.
- 12.4 - Benefit of condonation of attendance will be granted to the students on health grounds, for participating in University Union activities, meeting of the University bodies /Govt. bodies and participation in other extracurricular activities on production of genuine supporting documents, with the recommendation of the Head of the Department concerned.
- 12.5 - A student who is not eligible for such condonation shall be observed the provisions as per clause 11.4 of this regulation. The principal should intimate the details of these candidates at the commencement of the next semester.
- 12.6 - Women students can avail maternity leave as per the existing university rules.

13. EXAMINATION

- 13.1 - There shall be University examination at the end of each semester.
- 13.2 - Practical examinations shall be conducted by the University at the end of each semester or at the end of even semesters as prescribed in the curriculum of the particular Programme. The number of examiners and other aspects of

the practical examination shall be prescribed by the concerned Boards of Studies of the programmes.

- 13.3 - Project Work / Dissertation shall be evaluated at the end of the programme only. There shall be both Internal and External evaluation for the Project Work. The details of internal evaluation shall be framed by the concerned Boards of Studies.
- 13.4 - Comprehensive Viva-Voce shall be conducted at the end of the programme only. There shall be only External Comprehensive Viva-Voce conducted by the examiners appointed by the University. The details of evaluation shall be framed by the concerned Boards of Studies.
- 13.5 - There shall be one end-semester examination of 3 hours duration for each theory course and the duration of practical course can be decided by the concerned BoS.

14. SCHEME AND SYLLABUS

- 14.1 - Distribution of courses/weightage for theory/practical among the semesters and the aggregate weightage for each semester shall be stipulated by the Boards of studies concerned.
- 14.2 - The detailed scheme and syllabus for each course shall be framed by the respective Boards of Studies concerned and approved by the faculty concerned and Academic Council.

15. EVALUATION AND GRADING

- 15.1 Evaluation: The evaluation scheme for each course shall contain two parts; (a) Internal / Continuous Assessment (CA) and (b) External / End Semester Evaluation (ESE).
- 15.2 Of the total, 20% weightage shall be given to Internal evaluation / Continuous assessment and the remaining 80% to External/ESE and the ratio and weightage between Internal and External is 1:4.
- 15.3 Primary evaluation for Internal and External shall be based on 6 letter grades (A+, A, B, C, D and E) with numerical values (Grade Points) of 5, 4, 3, 2, 1 & 0 respectively.
- 15.4 Grade Point Average: Internal and External components are separately graded and the combined grade point with weightage 1 for Internal and 4 for external shall be applied to calculate the Grade Point Average (GPA) of each course. Letter grade shall be assigned to each course based on the categorization based on Ten point Scale provided in clause 20.2 of this regulation.
- 15.5 Evaluation of Audit Courses: The examination and evaluation shall be conducted by the college itself either in the normal structure or MCQ model from the Question Bank and other guidelines provided by the University/BoS. The

Question paper shall be for minimum 20 weightage and a minimum of 2 hour duration for the examination. The result has to be intimated / uploaded to the University during the Third Semester as per the notification of the University.

16. INTERNAL EVALUATION / CONTINUOUS ASSESSMENT (CA)

- 16.1 This assessment shall be based on a predetermined transparent system involving periodic written tests, assignments, seminars and viva-voce in respect of theory courses and based on tests, lab skill and records/viva in respect of practical courses.
- 16.2 The criteria and percentage of weightage assigned to various components for internal evaluation are as follows :

(a) Theory :			
Sl.No	Component	Percentage	Weightage
1	Examination /Test	40%	2
2	Seminars / Presentation	20%	1
3	Assignment	20%	1
4	Attendance	20%	1
(b) Practical :			
1	Lab Skill	40%	4
2	Records/viva	30%	3
3	Practical Test	30%	3

The components and the weightage of the components of the practical (Internal) can be modified by the concerned BOS without changing the total weightage 10.)

- 16.3 Grades shall be given for the internal evaluation are based on the grades A+,A,B,C,D&E with grade points 5,4,3,2, 1 &0 respectively. The overall grades shall be as per the Ten Point scale provided in clause 20.2 of this regulation.
- 16.4 There shall be no separate minimum Grade Point for internal evaluation.
- 16.5 To ensure transparency of the evaluation process, the internal assessment marks awarded to the students in each course in a semester shall be published on the notice board before 5 days of commencement of external examination.
- 16.6 There shall not be any chance for improvement of internal marks.

- 16.7 The course teacher shall maintain the academic record of each student registered for the course, which shall be forwarded to the University, through the college Principal, after being endorsed by the Head of the Department.
- 16.8 For each course there shall be class test/s during a semester. Grades should be displayed on the notice board. Valued answer scripts shall be made available to the students for perusal.
- 16.9 Each student shall be required to do assignment/s for each course. Assignments after valuation must be returned to the students. The teacher shall define the expected quality of the above in terms of structure, content, presentation etc. and inform the same to the students. Punctuality in submission is to be considered.
- 16.10 Every student shall deliver Seminar / Presentation as an internal component for every course and must be evaluated by the respective course teacher in terms of structure, content, presentation and interaction. The soft and hard copies of the seminar report are to be submitted to the course teacher.
- 16.11 All the records of Continuous Assessment (CA) must be kept in the college and must be made available for verification by university, if asked for.
- 16.12 There shall be an objective test in the nature of Fill in the blanks / Multiple Choice Questions (MCQ) for awarding internal assessment marks for SDE/Private Registration students.

17. EXTERNAL / END SEMESTER EVALUATION (ESE)

- 17.1 The semester-end examinations in theory courses shall be conducted by the University with question papers set by external experts. The evaluation of the answer scripts shall be done by examiners based on a well-defined scheme of valuation.
- 17.2 After the external evaluation, only Grades are to be entered in the space provided in the answer script for individual questions and calculations need to be done only up to the Cumulative Grade Point (CGP) and all other calculations including grades are to be done by the University.
- 17.3 Students shall have the right to apply for revaluation or scrutiny as per rules within the time permitted for it.
- 17.4 Photocopies of the answer scripts of the external examination shall be made available to the students for scrutiny on request by them as per rules.
- 17.5 The external evaluation shall be done immediately after the examination preferably in a Centralized Valuation Camp.
- 17.6 The language of writing the examination shall be specified in the separate regulations for the programme by the concerned BoS.

17.7 PATTERN OF QUESTIONS FOR EXTERNAL/ESE :

- 17.7.1 Questions shall be set to assess the knowledge acquired, standard, and application of knowledge, application of knowledge in new situations, critical evaluation of knowledge and the ability to synthesize knowledge. Due weightage shall be given to each module based on content/teaching hours allotted to each module.
- 17.7.2 It has to be ensured that questions covering all skills are set. The setter shall also submit a detailed scheme of evaluation along with the question paper.
- 17.7.3 A question paper shall be a judicious mix of short answer type, short essay type/problem solving type and long essay type questions.
- 17.7.4 The question shall be prepared in such a way that the answers can be awarded A+, A, B, C, D, E Grades.
- 17.7.5 Weightage: Different types of questions shall be given different weightages to quantify their range given in the following model:

Sl. No.	Type of Questions	Individual weightage	Total weightage	Number of questions to be answered
1	Short Answer type questions	2	$2 \times 4 = 8$	4 out of 7
2	Short essay/ problem solving type	3	$3 \times 4 = 12$	4 out of 7
3	Long Essay type questions	5	$5 \times 2 = 10$	2 out of 4
	Total		30	18

- 17.7.6 Questions should be asked as far as possible from all modules following a uniform distribution. However concerned BoS can change the pattern and type of questions subject to the condition that total weightage should be 30.
- 17.8 End Semester Evaluation in Practical Courses shall be conducted and evaluated by both Internal and External Examiners as per the stipulations of the concerned BoS. Duration and other aspects of practical external examinations shall be decided by the Boards of Studies concerned.

18. EVALUATION OF PROJECT WORK / DISSERTATION

- 18.1. There shall be External and Internal evaluation with the same criteria for Project Work done and the grading system shall be followed as per the specific guidelines and stipulations of the concerned BoS.
- 18.2 One component among the Project Work evaluation criteria shall be Viva-voce (Project Work related) and the respective weightage shall be 40%.

- 18.3 Consolidated Grade for Project Work is calculated by combining both the External and Internal in the Ratio of 4:1 (80% & 20%).
- 18.4 Details regarding the conduct of external and internal evaluation, criteria for evaluation and other aspects relating to the same can be taken by the concerned Boards of Studies and shall be specified in the Programme curriculum.
- 18.5 For a pass in Project Work, a student has to secure a minimum of P Grade in External and Internal examination combined. If the students could not secure minimum P Grade in the Project work, they will be treated as failed in that attempt and the students may be allowed to rework and resubmit the same in accordance with the University exam stipulations. There shall be no improvement chance for Project Work.
- 18.6 The External and Internal evaluation of the Project Work shall be done based on the following criteria and weightages as detailed below :

Sl. No	Criteria	% of wightage	Weightage External	Weightage Internal	Remarks
1	Relevance of the topic and Statement of problem	60%	8	2	Concerned Boards of Studies may conveniently divide this criteria in to various relevant categories and can assign suitable titles provided that the total weightage should be 24 and 6 for External and Internal.
2	Methodology & Analysis		8	2	
3	Quality of Report & Presentation		8	2	
4	Viva-voce	(40%)	16	4	
	Total Weightage	100%	40	10	

19 - CONDUCT OF COMPREHENSIVE VIVA-VOCE

- 19.1 There shall be External and Internal Comprehensive Viva-voce; while the External Conduct of the Viva-voce is mandatory and the Internal conduct of the viva-voce will be optional subject to the decision and stipulation of the concerned BoS.
- 19.2 The concerned Boards of Studies shall design the structure, criteria, details of appointment of Board of examiners (both external and internal) and other relevant aspects of its evaluation.
- 19.3 *Deleted.*
- 19.4 For a pass in Comprehensive viva-voce, a student has to secure a minimum of D Grade in External and Internal examination combined. If the students could

not secure minimum D Grade in the Project work, they will be treated as failed in that attempt and the student may re appear for the same next time in accordance with the University exam stipulations. There shall be no improvement chance for Comprehensive viva-voce.

20 - DIRECT GRADING SYSTEM

20.1 Direct Grading System based on a 10 - Point scale is used to evaluate the performance (External and Internal Examination of students)

20.2 For all courses (Theory & Practical)/Semester/Overall Programme, Letter grades and GPA/SGPA/CGPA are given on the following way :

a) First Stage Evaluation for both Internal and External done by the Teachers concerned in the following Scale :

Grade	Grade Points
A+	5
A	4
B	3
C	2
D	1
E	0

b) The Grade Range for both Internal & External shall be :

Letter Grade	Grade Range	Range of Percentage (%)	Merit / Indicator
O	4.25 - 5.00	85.0 -100.00	Outstanding
A+	3.75 - 4.24	75.00 - 84.99	Excellent
A	3.25 - 3.74	65.00 - 74.99	Very Good
B+	2.75 - 3.24	55.00 - 64.99	Good
B	2.50 - 2.74	50.00 - 54.99	AboveAverage
C	2.25 - 2.49	45.00 - 49.99	Average
P	2.00 -2.24	40.00 - 44.99	Pass
F	< 2.00	Below 40	Fail
I	0	-	Incomplete
Ab	0	-	Absent

'B' Grade lower limit is 50% and 'B+' Grade lower limit is 55%

- 20.3 No separate minimum is required for Internal evaluation for a pass, but a minimum P Grade is required for a pass in the external evaluation. However, a minimum P grade is required for pass in a course.
- 20.4 A student who fails to secure a minimum grade for a pass in a course will be permitted to write the examination along with the next batch.
- 20.4.1 Improvement of Course- The candidates who wish to improve the grade / grade point of the external examination of a course/s they have passed already can do the same by appearing in the external examination of the concerned semester along with the immediate junior batch.
- 20.4.2 Betterment Programme One time- A candidate will be permitted to improve the CGPA of the Programme within a continuous period of four semesters immediately following the completion of the programme allowing only once for a particular semester. The CGPA for the betterment appearance will be computed based on the SGPA secured in the original or betterment appearance of each semester whichever is higher.

20.5 Semester Grade Point Average (SGPA) - Calculation

The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses taken by a student.

After the successful completion of a semester, Semester Grade Point Average (SGPA) of a student in that semester is calculated using the formula given below.

$$\text{Semester Grade Point Average - SGPA (S}_j\text{)} = \frac{\sum (C_i \times G_i)}{C_r}$$

(SGPA = Total Credit Points awarded in a semester / Total credits of the semester)

Where 'S_j' is the j- semester, 'G_i' is the grade point scored by the student in the i-course 'C_i' is the credit of the i-course, 'C_r' is the total credits of the semester.

Model calculation is given in the Annexure:

20.6 Cumulative Grade Point Average (CGPA) - Calculation

$$\text{Cumulative Grade Point Average (CGPA)} = \frac{\sum (C_i \times S_i)}{C_r}$$

(CGPA = Total Credit points awarded in all semesters / Total credits of the programme)

Where C₁ is the credit of the 1st semester S₁ is the SGPA of the 1st semester and C_r is the total number of credits in the programme. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme. The SGPA and CGPA shall be rounded off to 2 decimal points.

For the successful completion of a semester, a student should pass all courses and score a minimum SGPA of 2.0. However, the students are permitted to move to the next semester irrespective of their SGPA.

21. GRADE CARD

21.1 The University shall issue to the students grade card on completion of each semester, which shall contain the following information :

- Name of University
- Name of College
- Title of PG Programme
- Semester concerned
- Name and Register Number of student
- Code number, Title and Credits of each Course opted in the semester including Audit Courses
- Letter grade in each course in the semester
- The total credits, total credit points and SGPA in the Semester (corrected to three decimal places)

21.2 The final Grade card issued at the end of the final semester shall contain the details of all courses taken during the entire programme, including those taken over and above the prescribed minimum credits for obtaining the degree. The final grade card shall show CGPA (corrected to three decimal places), percentage of marks (corrected to two decimal places) and the overall letter grade of a student for the entire programme. The final Grade card will also contain the list of Audit courses.

22. AWARD OF DEGREE

22.1 The successful completion of all the courses with P Grade shall be the minimum requirement for the award of the degree

23. POSITION CERTIFICATE

23.1 The University publishes list of top 10 positions for each programme after the publication the programme results. Position certificates shall be issued to candidates who secure positions from 1st to 10th in the list. The position list shall be finalised after the result of revaluation.

23.2 The position list shall be prepared in the order of merit based on the CGPA scored by the students. Grace Grade points awarded to the students shall not be counted for fixing the position.

24. GRIEVANCE REDRESSAL COMMITTEE

24.1 Department Level Committee: The college shall form a Grievance Redressal Committee in each department comprising of course teacher , one senior

teacher and elected representative of Students (Association Secretary) as members and the Head of the Department as Chairman. The committee shall have initial jurisdiction over complaints against Continuous Assessment.

- 24.2 College Level Committee : There shall be a college level grievance redressal committee comprising of student adviser, two senior teachers , two staff council members (one shall be elected member) and elected representative of students (College Union Chairperson) as members and the Principal as Chairman. This committee shall address all grievances relating to the internal assessment grades of the students.
- 24.3 University level: The University shall form a Grievance Redressal Committee as per the existing norms.

25. TRANSITORY PROVISION

- 25.1 Notwithstanding anything contained in these regulations, the Academic Council shall, for a period of three years from the date of coming into force of these regulations, have the power to provide by order that these regulations shall be applied to any programme with such modifications as may be necessary.

26. REPEAL

- 26.1 The Regulations now in force in so far as they are applicable to programmes offered by the University and to the extent they are inconsistent with these regulations are hereby repealed. In the case of any inconsistency between the existing regulations and these regulations relating to the Credit Semester System in their application to any course offered in a College, the latter shall prevail.

APPENDIX

1. First Phase Evaluation can be done at 6 point scale by assigning the respective Grade Points as detailed below (done by the concerned teacher/examiner)

Grade	A+	A	B	C	D	E
Grade Point	5	4	3	2	1	0

2. Calculation of GPA, SGPA & CGPA based on the Direct Grading system using 10 Point Scale as detailed below :

Letter Grade	Grade Range	Range of Percentage (%)	Merit / Indicator
O	4.25 - 5.00	85.0-100.00	Outstanding
A+	3.75 - 4.24	75.00 - 84.99	Excellent
A	3.25 - 3.74	65.00 - 74.99	Very Good
B+	2.75 - 3.24	55.00 - 64.99	Good
B	2.50 - 2.74	50.00 - 54.99	AboveAverage
C	2.25 - 2.49	45.00 - 49.99	Average
P	2.00 -2.24	40.00 - 44.99	Pass
F	< 2.00	Below 40	Fail
I	0	0	Incomplete
Ab	0	-	Absent

Phases for Evaluation :

I Phase : To be done by the concerned Teacher/Examiner based on 6 Point Scale

1. Evaluation of all individual External Theory courses and Internal evaluation
2. Evaluation of Project Work External and Internal
3. Evaluation of External and Internal Practical Courses
4. Evaluation of External and Internal Comprehensive Viva-voce

II Phase - GPA Calculation - To be done by the University

1. Consolidation of External and Internal for Theory Courses (Calculation of GPA)
2. Consolidation of External and Internal for Project Work (Calculation of GPA)
3. Consolidation of External and Internal for Practical Courses (Calculation of GPA)
4. Consolidation of External and Internal for Comprehensive Viva-voce (Calculation of GPA)

III Phase - SGPA Calculation - To be done by the University

Calculation of Semester Grade Point Average. This is the consolidated net result (Grade) in a particular Semester.

III Phase - CGPA Calculation - To be done by the University

Calculation of Consolidated Grade Point Average. This is the consolidated net result (Grade) of a Programme.

Model Calculation of Grade :

Calculation of overall Grade for one Course (GPA) - Theory External

First Phase Evaluation (Done by the concerned Teacher/Examiner):

I - Theory - External :

Type of Question	Qn.No	Grade Awarded	Grade Point	Weightage	Weighted Grade Point	Calculation	
Short Answer type	1	A+	5	2	10	Overall Grade of the theory paper = Sum of Weighted Grade Points / Sum of the weightage 115/30 - 3.83 - Grade A+	
	2	-	-	-	-		
	3	A	4	2	8		
	4	C	2	2	4		
	5	-	-	-	-		
	6	A	4	2	8		
	7	-	-	-	-		
Medium Essay type	8	B	3	3	9		
	9	A+	5	3	15		
	10	-	-	-	-		
	11	-	-	-	-		
	12	-	-	-	-		
	13	A	4	3	12		
	14	B	3	3	9		
Long Essay type	20	A+	5	5	25		
	21	-	-	-	-		
	22	-	-	-	-		
	23	B	3	5	15		
	24	-	-	-	-		
TOTAL				30	115		

Note :1) The total weightage for external evaluation is 30, (2) Maximum Weighted Grade Point (WGP) is 150 (30 X 5), (3) Same way all theory courses can be evaluated.

II - Theory-Internal :

Components	Weightage (W)	Grade Awarded	Grade Point (GP)	WGP-W *GP	Overall Grade of the course
Examination /Test	2	A	4	8	WGP/Total weight - 21/5 -4.40
Seminars / Presentation	1	A+	5	5	
Assignments	1	A	4	4	
Viva-voce	1	A+	5	5	
Total	5			22	0

Maximum weight for Internal evaluation is 5. Therefore Maximum Weighted Grade Point (WGP) is 25 (5 X 5).

III - Project - External :

Components	Weightage (W)	Grade Awarded	Grade Point (GP)	WGP-W *GP	Overall Grade of the course
Relevance of the topic and Statement of problem	8	A	4	32	WGP/Total weight - 160/40 = 4
Methodology & Analysis	8	B	3	24	
Quality of Report & Presentation	8	A+	5	40	
Viva-voce	16	A	4	64	
Total	40			160	A+ - Grade

IV - Project - Internal :

Components	Weightage (W)	Grade Awarded	Grade Point (GP)	WGP-W *GP	Overall Grade of the course
Relevance of the topic and Statement of problem	2	A	4	8	WGP/Total weight = 38/10 = 3.8
Methodology & Analysis	2	B	3	6	
Quality of Report & Presentation	2	A	4	8	
Viva-voce	4	A	4	16	
Total	10			38	

Second Phase Evaluation (Done by the University) :

V - Theory - Consolidation of Grade (GPA) (Internal + External) :

The external grade awarded for the Course 1 is 'A' with a Grade point of 3.83 and its internal is 'O'. with a Grade Point of 4.6. The consolidated grade for the course Course 1 is as follows.

Exam	Weightage	Grade awarded	Grade Points (WGP / TOTAL WEIGHTAGE)	Weighted Grade Point
External	4	A+	3.83	15.32
Internal	1	O	4.40	4.40
Total	5			19.72
Grade of a course (GPA)	GPA = Total weighted Grade Points / Total weight 19.72/5 = 3.94 = Grade A+			

VI - Project Work - Consolidation of Grade (GPA) (Internal + External) :

Exam	Weightage	Grade awarded	Grade Points (WGP / TOTAL WEIGHTAGE)	Weighted Grade Point
External	4	A+	4	16
Internal	1	A+	3.8	3.80
Total	5			19.8
Grade of a course (GPA)	$\text{GPA} = \frac{\text{Total weighted Grade Points}}{\text{Total weight}} = \frac{19.8}{5} = 3.96 = \text{A+ Grade}$			

Third Stage Evaluation:

CALCULATION OF SGPA (To be done by the University) :

Course code	Title of the course	Credits (C)	Grade Awarded	Course Grade Points (G)	Credit Points (CP=C X G)	SGPA
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I - SEMESTER

001	Course 1	4	O	4.25	17	SGPA = Total Credit Points / Total Credits = $\frac{80.16}{20} = 4.01$ Grade - A+
002	Course 2	4	A+	3.9	15.6	
003	Course 3	4	A	3.45	13.8	
004	Course 4	4	A	3.64	14.56	
005	Course 5	4	O	4.8	19.2	
TOTAL	20				80.16	

II - SEMESTER

006	Course 6	4	A+	3.88	15.52	SGPA - Total Credit Points / Total Credits = $\frac{73.08}{20} = 3.65$ Grade - A
007	Course 7	4	A+	3.75	15	
008	Course 8	4	A	3.3	13.2	
009	Course 9	4	A	3.56	14.24	
010	Course 10	4	A+	3.78	15.12	
TOTAL	20				73.08	

III - SEMESTER

011	Course 11	4	A	3.45	13.8	SGPA = Total Credit Points / Total Credits = $\frac{74.04}{20} = 3.70$ Grade - A
012	Course 12	4	A+	3.8	15.2	
013	Course 13	4	O	4.8	19.2	
014	Course 14	4	A	3.58	14.32	
015	Course 15	4	B+	2.88	11.52	
TOTAL	20				74.04	

IV - SEMESTER

016	Course 16	4	A+	3.85	15.4	SGPA = Total Credit Points / Total Credits= 76.08/20 = 3.80 Grade - A+
017	Course 17	4	A	3.6	14.4	
018	Course 18	4	A	3.47	13.88	
019	Course 19	4	A+	3.8	15.2	
020	Course 20	4	O	4.3	17.2	
TOTAL	20			76.08		

Fourth Stage Evaluation:

CALCULATION OF CGPA (To be done by the University) :

CGPA for the above case:

Semester	Credit of the Semesters	Grade Awarded	Grade point (SGPA)	Credit points
I	20	A+	4.01	80.2
II	20	A	3.65	73
III	20	A	3.70	74
IV	20	A+	3.80	76
TOTAL	80			303.2

CGPA (Total credit points awarded / Total credit of all semesters) $303.2 / 80 = 3.79$ (Which is in between 3.50 and 3.9S in 10-point scale) Therefore the overall Grade awarded in the programme is - 'A+'

GUIDELINES FOR CODING VARIOUS COURSES

The following are the common guidelines for Coding various courses in order to get a uniform identification. It is advisable to assign a Seven Digit Code (combination of Alpha Numerical) for various courses as detailed below :

1. First three digits indicate the Programme/discipline code (ENG for English, MCM for M.Com, CHE for chemistry, PHY for physics, MLM for Malayalam, SKT for Sanskrit, HTY for History etc)
2. Fourth digit is the Semester indicator which can be given as 1,2,3 &4 respectively for I,II,III& IV Semester (MCM1, CHE2 Etc).
3. Fifth digit will be the Course Category indicator as detailed below

SI No	Nature of Course	Course Code
1	Core Courses	C
2	Elective Courses	E
3	Project	P
4	Comprehensive Viva	V
5	Practical / Lab	L
6	Audit Courses	A

4. Last two digits indicate the serial number of the respective courses. If there is one digit it should be prefixed by '0' (Zero). (01, 02, etc)
 5. If the number of courses in one category is only one (eg : Viva, Project etc.), assign the course serial number as 01.
6. Examples :

SINo	Code	Details
1	MCM1C01	M.Com I Sem Core Course No1
2	CHE 2 A 02	Chemistry II Sem Audit Course No.2
3	ENG 4 V 01	English IV Sem Viva No. 1
4	MLM 3 E 02	Malayalam III Sem Elective No. 2
5	PHY 4 P 01	Physics IV Sem Project Work No. 1
6	BGY 2 L 02	Biology II Sem Practical No. 2
7	PSY 3 C 02	Psychology III Sem Core Course No. 2
8	HTR 2 E 01	History II Sem Elective Course No. 1

B.Com Finance

SLNo.	Paper Code	Name of Subject
Semester I		
1	MALIA07 (2)	I
2	HINIA07 (2)	Prose Form in Hindi Literature
3	ARBIA07(2)	Communicative Arabic
4	ENGIA01	Transactions : Essential English Language Skills
5	ENGIA02	Ways with Words - Literature in English
6	BCMIB01	Business Management
7	BCMIC01	Managerial Economics
Semester II		
8	MAL2A08(2)	II
9	HIN2A08(2)	Poetry, Correspondence & Translation
10	ARB2A08(2)	Reading Arabic Prose & Poetry
11	ENG2A03	Writing for Academic & Professional Success
12	ENG2A04	Zeitgeist Reading on Contemporary Culture
13	BCM2B02	Financial Accounting
14	BCM2C02	Marketing Management
Semester III		
15	BC3A11	Basic Numerical Skills
16	BC3A12	General Informatics
17	BC3B03	Business Regulations
18	BC3B04	Corporate Accounting
19	BC3C03	Human Resource Management
Semester IV		
20	BC4A13	Entrepreneurship Development
21	BC4A14	Banking and Insurance
22	BC4B05	Cost Accounting
23	BC4B06	Corporate Regulations
24	BC4C04	Quantitative Techniques
Semester V		
25	BC5B07	Accounting for Management
26	BC5B08	Business Research Methods
27	BC5B09	Income Tax Law and Accounts
28	BC5B10	Financial Markets & Services
29	BC5B11	Fundamentals of Investments
30	BC5D01	Open Course
Semester VI		
31	BC6B12	Income Tax & GST
32	BC6B13	Auditing and Corporate Governance -
33	BC6B14	Financial Derivatives
34	BC6B15	Financial Management
35	BC6B16	Project & Viva Voice

B.Com Computer Applications

SLNo.	Paper Code	Name of Subject
Semester I		
1	MALIA07 (2)	I
2	HINIA07 (2)	Prose Form in Hindi Literature
3	ARBIA07(2)	Communicative Arabic
4	ENGIA01	Transactions
5	ENGIA02	Ways with Words
6	BCMIB01	Business Management
7	BCMIC01	Managerial Economics
Semester II		
8	MAL2A08(2)	II
9	HIN2A08(2)	Poetry, Correspondence & Translation
10	ARB2A08(2)	Reading Arabic Prose & Poetry
11	ENG2A03	Writing for Academic & Professional Success
12	ENG2A04	Zeitgeist Reading on Contemporary Culture
13	BCM2B02	Financial Accounting
14	BCM2C02	Marketing Management
Semester III		
15	BC3A11	Basic Numerical Skills
16	BC3A12	General Informatics
17	BC3B03	Business Regulations
18	BC3B04	Corporate Accounting
19	BC3C03	Human Resource Management
Semester IV		
20	BC4A13	Entrepreneurship Development
21	BC4A14	Banking and Insurance
22	BC4B05	Cost Accounting
23	BC4B06	Corporate Regulations
24	BC4C04	Quantitative Techniques
Semester V		
25	BC5B07	Accounting for Management
26	BC5B08	Business Research Methods
27	BC5B09	Income Tax Law and Accounts
28	BC5B10	Computer Applications in business
29	BC5B11	Business Information System
30	BC5D01	Open Course
Semester VI		
31	BC6B12	Income Tax & GST
32	BC6B13	Auditing and Corporate Governance
33	BC6B14	Office Automation Tools
34	BC6B15	Computerized Accounting with Tally
35	BC6B16	Project & Viva Voice

B. Com Co-operation

SLNo.	Paper Code	Name of Subject
Semester I		
1	MALIA07 (2)	I
2	HINIA07 (2)	Prose Form in Hindi Literature
3	ARBIA07(2)	Communicative Arabic
4	ENGIA01	Transactions: Essential English Language & Skills
5	ENGIA02	Ways with Words : Literature in English
6	BCMIB01	Business Management
7	BCMIC01	Managerial Economics
Semester II		
8	MAL2A08(2)	II
9	HIN2A08(2)	Poetry, Correspondence & Translation
10	ARB2A08(2)	Reading Arabic Prose & Poetry
11	ENG2A03	Writing for Academic & Professional Success
12	ENG2A04	Zeitgeist Reading on Contemporary Culture
13	BCM2B02	Financial Accounting
14	BCM2C02	Marketing Management
Semester III		
15	BC3A11	Basic Numerical Skills
16	BC3A12	General Informatics
17	BC3B03	Business Regulations
18	BC3B04	Corporate Accounting
19	BC3C03	Human Resource Management
Semester IV		
20	BC4A13	Entrepreneurship Development
21	BC4A14	Banking and Insurance
22	BC4B05	Cost Accounting
23	BC4B06	Corporate Regulations
24	BC4C04	Quantitative Techniques
Semester V		
25	BC5B07	Accounting for Management
26	BC5B08	Business Research Methods
27	BC5B09	Income Tax Law and Accounts
28	BC5B10	Co-operative Theory and Practice
29	BC5B11	Legal Environment for Co-operatives
30	BC5D01	Open Course
Semester VI		
31	BC6B12	Income Tax & GST
32	BC6B13	Auditing and Corporate Governance
33	BC6B14	International Co-operative Movement
34	BC6B15	Co-operative Management & Administration
35	BC6B16	Project & Viva Voice

BBA

SLNo.	Paper Code	Name of Subject
Semester I		
1	BBA1B01	Management Theory and Practices
2	BBA1C01	Managerial Economics
3	ENG1A01	Transactions - Essential English Language Skills
4	ENG1A02	Ways with Words Literature in English
5	HINO A07(2)	Pros Forms in Hindi Literature
6	ARBIA07(2)	Communicative Arabic
7	MALIA07(2)	Malayala Sahithya Padanam
Semester II		
8	BBA2B02	Financial Accounting
9	BBA2B03	Marketing Management
10	ENG2A03	Writing for Academic & Professional Success
11	ENG2A04	Zeitgeist Reading on Contemporary Culture
12	BBA2A08	Poetry Correspondence and Translations
13	ARB2A08(2)	Reading Arabic Pros & Poetry
14	MAL2A08(2)	Malayalam Sahitya Padanam (2)
Semester III		
15	BBIIIA11	Basic Numerical Skills
16	BBIIIA12	General Informatics
17	BBIIIB02	Business Regulatory Frame Work
18	BBIIIB04	HRM
19	BBIIIC03	Q.T for Busieness
Semester IV		
20	BBIVA13	Banking and Insurance
21	BBIVA14	Entrepreneurship Development
22	BBIVB05	Marketing Management
23	BBIVB06	Financial Management
24	BBIVC04	Management Science
Semester V		
25	BBVB07	Accounting for Management
26	BBVB08	Business Research Methods
27	BBVB09	Emerging Trends in Management
28	BBVB10	Service Management
29	BBVB11	E-Commerce
30	BBVD01	Open Course
Semester VI		
31	BBVIB12	Operations Management
32	BBVIB13	OB
33	BBVIB14	Consumer Behavior
34	BBVIB15	Retail Management
35	BBVIB16	Project

BA English

SLNo.	Paper Code	Name of Subject
Semester I		
1	ENG1A01	Transactions : Essential English Language Skills
2	ENG1A02	Ways with Words : Literature in English
3	ENG1B01	Introducing Literature
4	CO11	Introduction to Journalism and Communication other languages (Malayalam, Hindi, Arabic)
Semester II		
5	ENG2A03	Writing for Academic and Professional Success
6	ENG2A04	Zeitgeist : Reading on Contemporary Culture
7	ENG2B02	Appreciating Poetry
		Electronic Media
		Other Languages (Malayalam, Hindi, Arabic)
Semester III		
8	ENG3A05	Signatures : Expressing the Self
9	ENG3B01	Reading Drama
10	ENG2	Reading Fiction
11	CO5 1	History of Mass Media
12	CO6 2	English for Communication III
		Other Languages (Malayalam, Hindi, Arabic)
Semester IV		
13	ENG4A06	Spectrum : Literature and Contemporary Issue
14	ENG4B0	Modern English Literature
15	ENG4B02	Methodology of Humanities
16	CO7	Advertising, Public Relation and Corporate Communication
17	CO 8	English for Communication IV : Academic Writing
Semester V		
18	ENG5B01	Indian Writing in English
19	ENG5B02	Language and Linguistics
20	ENG5B03	Methodology of Literature
21	ENG5B04	Informatics
22	ENG5B05	Project
		Open
Semester VI		
23	ENG6B01	Literary Criticism and Theory
24	ENG6B02	Literature in English : American and Post Colonial
25	ENG6B03	Women's Writing
26	ENG6B04	Written for the Media
27	ENG6B05	Project

BA Sociology

SLNo.	Paper Code	Name of Subject
Semester I		
1	ENG1A01	Transactions : Essential English Language Skills
2	ENG1A02	Ways with Words : Literature in English
3	MALIA07(1)	Malayaam Sahithyam - I
4	HINIAA07(1)	Prose and Drama
5	ARBIA07(1)	Language Skills in Arabic
6	SGY1B01	Basic of Sociology
7	PSYC05	Psychological Process I, II
	PSY2C05	
Semester II		
8	ENG2A03	Writing for Academic and Professional Success
9	ENG2A04	Zeitgeist : Reading on Contemporary Culture
10	ML2A08(1)	Malayalam Sahithyam 2
11	HIN2A08(1)	Grammar and Translation
12	ARB2A08(1)	Appreciating Arabic Literature
13	SGY2B02	Indian Society : Structure and Transformation
		Indian Constitution and Politics : Basic Features and Govt. Structures
Semester III		
14	ENG3A05	Signatures : Expressing the Self
15	MAL3A09	Malayalam Sahithyam 3
16	SOC3B03	Social Informatics
17	SOC3B04	Foundation of Sociological Theory
18	ICP3C03	Political Dynamics
19	PSY3C05	Abnormal Psychology
20	HIN3A09(1)	Poetry in Hindi
21	ARB3A09(1)	Reading Arabic Literature 2
Semester IV		
22	ENG4A06	Spectrum : Literature and Contemporary Issue NTP
23	MAL4A10	Malayalam Sahithyam 4
24	HIN4A10(1)	Novel and Short Stories
25	ARBA10	Culture and Civilisation
26	SOC4B05	Social Research Method
27	SOC4B06	Life Skill Development
28	ICP04C04	Federal Dynamics and Decentralisation
29	PSY4C05	Psychology of Social Behaviour
Semester V		
30	SOC5B07	Sociology of Indian Society
31	SOC5B08	Theoretical Perspective in Sociology
32	SOC5B09	Social Anthropology
33	SOC5B10	Research Methods and Statistics
		Open Course
Semester VI		
34	SOC6B11	Environment and Society
35	SOC6B12	Mass Media and Society
36	SOC6B13	Women and Society
37	SOC6B14	Population and Society
38	SOC6E01	Sociology of Development
39	SOC6B(PR)01	Project Work

BA Multimedia

SLNo.	Paper Code	Name of Subject
Semester I		
1	A01	Transactions : Essential English Language Skills
2	A02	Ways with Words : Literature in English
3	A07	Second Language
4	BMMIB01	Introduction to Digital Media
5	JOUIC04	Introduction to Mass Media
6	BVCIC02	Introduction to Visual Communication
Semester II		
7	A03	Writing for Academic and Professional Success
8	A04	Zeitgeist : Reading on Contemporary Culture
9	A08	Second Language
10	BMM2B02	Creativity and Design Skills
11	JOU2C04	News Paper Journalism
12	BVC2C02	Introduction to Cinema
Semester III		
13	A11	Basic Numerical Skills
14	A12	General Informatics
15	BMM3B03	Media Publishing
16	BMM3B04	Computer Graphics
17	BMM3B05	Digital Photography
18	JOU3C04	Television Journalism
19	BVC3C02	Scripting and Story Boarding
Semester IV		
20	A13	Entrepreneurship Development
21	A14	Basics of Audio and Video
22	BMM4B06	Introduction to Cinematography
23	BMM4B07	Fundamentals of Web Designing
24	JOU4C04	Digital Journalism
25	BVC4C02	E-Content Development
Semester V		
26	BMM5B08	Techniques of Post Production - Visual Editing
27	BMM5B09	Techniques of Post Production - Sound Recording, Editing and Mastering
28	BMM5B10	Introduction to 3D Modeling and Texturing
29	BMM5B11	Advanced Web Designing
30	BMM5B12	Audio and Video Editing Project
31	BMM5D01	Fundamentals of Multimedia
Semester VI		
32	BMM6B13	Multimedia Designing and Authoring
33	BMM6B14	Introduction to Motion Graphics
34	BMM6B15	Television and Multi Camera Production
35	BMM6B16	Advanced 3D Animation, VFX and Compositing
36	BMM6B17	Multimedia Project
37	BMM6B18	Website Project

BSc Microbiology

SLNo.	Paper Code	Name of Subject
Semester I		
1	A01	Transactions : Essential English Language Skills
2	A02	Ways with Words : Literature in English
3	A07(1)	Language Skills in Arabic
4	A07(2)	Prose Forms in Hindi Literature
5	A07(3)	Malayalam Bhashayum Sahithyavum -I
6	MBGIB01	General Microbiology
7	BCHIC01	Biochemistry - I
8	MBGC02	Biochemistry - II
Semester II		
9	A03	Writing for Academic and Professional Success
10	A04	Literature and Contemporary Issues
11	A08(3)/ A08(1)/A08(2)	Literature in Languages other than ENGLISH
12	BBG2B02	Microbial Physiology & Taxonomy
13	BCHC02	Biochemistry - II
14	MBG2C04	Biochemistry - II
Semester III		
15	A11	Numerical Skills
16	A12	General Informatics
17	MB3B03	Environmental and Sanitation Microbiology
18	BCHC03	Biochemistry - III
19	3C06	Computer Application Fundamentals I
Semester IV		
20	A13	Entrepreneurship Development
21	A14	Molecular Biology
22	MB4B04	Soil and Agricultural Microbiology
23	BCHC04	Biochemistry IV
24	4C09	Computer Applications II
Semester V		
25	MB5B08	Industrial Microbiology
26	MB5B09	Food and Dairy Microbiology
27	MB5B10	Practical 4 Industrial, Food and Dairy Microbiology
28	MB5B11	Immunology
29	MB5B12	Medical Microbiology - I
30	MB5B13(PR)	Project Work
31	MB5D01/ MB5D02	Open Course
Semester VI		
32	MB6B14	Microbial Genetics and Genetic Engineering
33	MB6B15(P)	Practical 5 Molecular Biology
34	MB6B16	Medical Microbiology II
35	MB6B17(P)	Practical 6 Immunology & Medical Microbiology
36	MB6B18(E3)	Biosafety and Bioethics
37	MB6B19(PR)	Project Work

BSc Biotechnology

SLNo.	Paper Code	Name of Subject
Semester I		
1	A01	Transactions : Essential English Language Skills
2	A02	Ways with Words : Literature in English Communication skill in the languages other than English
3	BTYIB01	Cell Biology Chemistry / Chemistry Practical
4	BTYIC01	Environmental Biotechnology Environmental Biotechnology Practical
Semester II		
5	A03	Writing for Academic & Professional Success
6	A04	Zeitgeist : Reading on Contemporary Culture Literature in languages other than English
7	BTY2B02	General Microbiology Chemistry / Chemistry Practical
9	BTY2C02	Environmental Biotechnology Environmental Biotechnology Practical
Semester III		
10	BT3A05	Basic Numerical Skills
11	BT3A06	General Informatics
12	BT3B03	Biochemistry, BT3B04 (P) Biochemistry Practical
13	BT3C09	Chemistry
14	BT3C11	Environmental Biotechnology
15	BT3C12 (P)	Environmental Biotechnology (Practical)
16	BT3C10(P)	Chemistry Practical
Semester IV		
17	A13	EDP (Entrepreneurship Development)
18	BT4B05	Genetics
19	BT4C13	Chemistry / BT4C14 Chemistry Practical
20	BT4C15	Environmental Biotechnology
21	BT4C16 (P)	Environmental Biotechnology
22	BT4B06 (P)	Practical in Genetics
23	A14	IPR Intellectual Property Rights
Semester V		
24	BT5B07	Molecular Biology
25	BT5B08	Immunology & Immunotechnology
26	BT5B09	Bioprocess Technology
27	BT5B10 (P)	Practical in molecular Biology
28	BT5B11 (P)	Practical in immunology & Immunotechnology
29	BT6B012 (P)	Practical in Bioprocess technology
30	BT5D01	Open Course - Introduction to Biotechnology
Semester VI		
31	BT6B13	Plant Biotechnology
32	BT6B14	Animal Biotechnology
33	BT6B15	Recombinant DNA Technology & Bioinformatics
34	BT6B17	Medical Biotechnology
35	BT6B16	Practical in Plant Biotechnology
36	BT6B18	Combined Project

BSc Geology

SLNo.	Paper Code	Name of Subject
Semester I		
1	ENG1A01	Transactions : Essential English Language Skills
2	ENG1A02	Ways with Words : Literature in English
3	MAL1A07(1)	Malayalam Sahithyam - 1
4	ARB1A07(1)	Language Skills in Arabic
5	HIN1A07(1)	Prose and Drama
6	CHE1C01	General Chemistry
7	GSO1B01	Essentials of Geology
8	STA1C01	Introductory Statistics
Semester II		
9	ENG2A03	Writing for Academic & Professional Success
10	EN2A04	Zeitgeist : Reading on Contemporary Culture
11	MAL2A08(1)	Malayalam Sahithyam - 2
12	ARB2A08(1)	Appreciating Arabic Literature
13	HIN2A08(1)	Grammar and Translation
14	CHE2C02	Physical chemistry
15	GEO2B03	Dynamic Geology and Geoinformatics
16	STA2C02	Probability Theory
Semester III		
17	ENG3A05	Signature : Expressing the self
18	MAL3A09	Malayalam Sahithyam - 3
19	ARB3A09	Reading Arabic Literature - 2
20	HIN3A09(1)	Poetry in Hindi
21	CHE3C03	Organic Chemistry
22	GL3B05	Crystallography
23	ST3C03	Statistical Inference
Semester IV		
24	ENG4A06	Spectrum : Literature and Contemporary issues.
25	MAL4A10	Malayalam Sahithyam - 4
26	ARB4A10	Culture and Civilisation
27	HIN4A10(1)	Novel and Short Stories
28	CHE4C04	Physical and Applied Chemistry/CHE4C05(P)Physical and Applied Chemistry
29	CHEBC07	Mineralogy / GL4B08(P) Crystallography and Mineralogy
30	ST4C04	Applied Statistics (Sulabhadras. P)
Semester V		
31	GL5B09	Stratigraphy & physiography of India
32	GL5B10	Indian geology
33	GL5B11	Igneous Petrology
34	GL5B12	Sedimentology
35	GL5B13	Metamorphic Geology
36	GL5B14 (P)	Field description of rocks
37	GL5B16 (Pr)	Project work / Study tour
Semester VI		
38	GL6B17	Structural Geology and Geotectonics
39	GL6B18	Palaeontology
40	GL6B19	Ore Forming Processes
41	GL6B20	Indian Mineral Deposits
42	GL6B21(P)	Structural and Economic Geology
43	GL6B22(P)	Petrology and Palaeontology
44	GL6B23(P)	Environmental Geology

BSc Computer Science

SLNo.	Paper Code	Name of Subject
Semester I		
1	ENG1A01	Transactions : Essential English Language Skills
2	ENG1A02	Ways with Words : Literature in English
3	HIN1A07(3)	Prose and One Act Play
4	ARB1A07(3)	Basic Skills in Arabic
5	MAL1A07(3)	Malayala Bhashayum Sahithyavum 1
6	BSC1B01	Computer Fundamentals and and HTML
7	ELE1C01	Electronic Device
8.	MTSIC01	Mathematics - I
Semester II		
9	ENG2A03	Writing for Academic & Professional Success
10	ENG2A04	Zeitgeist : Reading on Contemporary Culture
11	HIN2A08 (3)	Poetry and Short Stories
12	ARB2A8(3)	Reading Arabic Literature
13	MAL2A08(3)	Malayala Bhashayum Sahithyavum 2
14	BCS2B02	Problem Solving Using C
15	BCS2B03	LAB I : HTML annd Programming INC
16	MTS2C02	Mathematics II
17	ELE2C02	Electronic Circuits
Semester III		
18	A11	Basic Numerical Skills
19	A12	General Informatics
20	BCS3 B04	Data Structure using C
21	MAT3 C03	Mathematics III
22	ELE3C03	Digital Electronics III
Semester IV		
23	A13	Entrepreneurship Development
24	A14	Basics of Audio, Video and Media
25	BCS4B05	Data base management system and RDBMS
26	BCS4B06	Laboratory II Data Structure and RDBMS
27	MAT4 C03	Mathematics IV
28	ELE4 C03	Micro Processors
Semester V		
29	BCS5B07	Computer Organization and Architecture
30	BCS5B08	Java Programming
31	BCS5B09	Web Programming using PHP
32	BCS5B10	Principles of Software Engineering
33	BCS5D04	Open : Introduction to data Analysing using spread sheet
Semester VI		
34	BCS6B11	Android Programming
35	BCS6B12	Operating systems
36	BCS6B13	Computer Networks
37	BCS6B14	Lab III - Java & PHP
38	BCS6B15	Lab IV - Android & Shell Programming
39	BCS6B16B	Micro Processor and Applications
40	BCS6B17	Project Work

Bachelor of Computer Application

SLNo.	Paper Code	Name of Subject
Semester I		
1	A01	Ways with Words : Essential English Language Skills
2	A02	Transactions
3	ARBIA07(3)	Basic Skills in Arabic
4	HIN1A07(3)	Prose & One Act Plays
5	MAL1A07	Malayala Bhashayum Sahithyavum 1
6	BCA1B01	Computer Fundamentals & HTML
7	BCA1C01	Mathematical Foundation for Computer Application
8	BCA1C02	Discrete Mathematics
Semester II		
9	A03	Writing for Academic & Professional Success
10	A04	Zeitgeist : Reading on Contemporary Culture
11	ARB2A08(3)	Reading Arabic Literature
12	HIN2A08(3)	Poetry and Short Stories
13	MAL2A08(3)	Malayala Bhashayum Sahithyavum 2
14	BCA2B02	Problem Solving using C
15	BCA2B03	Lab : HTML & Programming in C
16	BCA2C03	Financial and Management Accounting
17	BCA2C04	Operation Research
Semester III		
18	A11	Basic Numerical Skills
19	A12	General Informatics
20	BCA3B04	Data Structure using C
21	BCA3B05	Computer Oriented Numerical & Statistical Methods
22	BCA3C06	Theory of Computation
Semester IV		
23	A13	Entrepreneurship development
24	A14	Basic of Audio & Video
25	BCA4B05	Data Base Management System and RDBMS
26	BCA4B06	Lab II RDBMS
27	BCA4C07	E-Commerce
28	BCA4C08	Computer Graphics
Semester V		
29	BCA5B07	Java Programming
30	BCA5B08	Computer Organisation & Architecture
31	BCA5B09	Web Programming using PHP
32	BCA5B10	Principles of Software Engineering
33	XXX5DXX	Open Course
Semester VI		
34	BCA6B11	Android Programming
35	BCA6B12	Operating systems
36	BCA6B13	Computer Networks
37	BCA6B14	Programming Laboratory-III : Java and Web Programming
38	BCA6B15	Programming Laboratory-IV : Lab Exam of Android & Linux Shell
39	BCA6B16	Project & viva voice
40	BCA6B17a	Micro Processor and Applications

BTTM

SLNo.	Paper Code	Name of Subject
Semester I		
1	ENG1401	Transactions : Essential English Language Skills
2	ENG1A02	Ways with Words : Literature in English
3	MAL1A07(1)	Malayala Sahithyam 1
4	ARB1A07(1)	Language Skills in Arabic
5	HIN407(1)	Prose and Drama
6	TTM1B01	Principles and Practices of Tourism
7	TTM1C01	Business Statistics and Information Technology
Semester II		
8	ENG2A03	Writing for Academic & Professional Success
9	ENG2A04	Zeitgeist : Reading on Contemporary Culture
10	ARB2A08(1)	Appreciating Arabic Literature
11	HIN2408(1)	Grammar and Translation
12	MAL2408(1)	Malayal Sahithyam 2
13	TTM2B02	Tourism Products
14	TTM2C02	Introduction to Accounting and Business Law 2
Semester III		
15	A05	Signatures : Expressing the self
16	ARB3A09	Reading Arabic Literature 2
17	HIN2A08(1)	Poetry in Hindi
18	MAL3A09	Malayala Sahithyam 3
19	TTM3B03	Aviation Management
20	TTM3B03	Tourism in Kerala
21	TTM3C05	Business Regulatory Frame Work
Semester IV		
22	A06	Spectrum : Literature and Contemporary Issues
23	ARB4A10	Culture and Civilisation
24	HIN4A(10)	Novel and Short Stories
25	MAL4A(10)	Malayala Sahithyam 4
26	TTM4B05	Travel Geography
27	TTM4B06	Introduction to Hospitality
28	TTM4C07	IT for Business
Semester V		
29	TTM5B07	Travel Management
30	TTM5B08	Hotel Operation
31	TTM5B09	Business Research Methods
32	TTM5B10	Air Fares & Ticketing
33	TTM5B11	Human Resource Management
Semester VI		
34	TTM6B12	Travel Agency and Tour Operation Management
35	TTM6B13	Principles of Marketing
36	TTM6B14	Innovative Practices in Tourism
37	TTM6B15	Entrepreneurship Development
38	TTM6B16	Project

M.Com

SLNo.	Paper Code	Name of Subject
Semester I		
1	MCM1C01	Business Environment and policy
2	MCM1C02	Corporate Governance & Business Ethics
3	MCM1C03	Quantitative Techniques for Business Decisions
4	MCM1C04	Management Theory and Organizational Behaviour
5	MCM1C05	Advanced Management Accounting
Semester II		
6	MCM2C06	Advanced Corporate Accounting
7	MCM2C07	Advanced Strategic Management
8	MCM2C08	Advanced Cost Accounting
9	MCM2C09	International Accounting
10	MCM2C10	Management Science
Semester III		
11	MC3C11	Financial Markets and institutions
12	MC3C12	Income tax Law and Practice
13	MC3C13	Research Methodology
14	MC3E01	Financial Management
15	MC3E02	Security Analysis and portfolio Management
Semester IV		
16	MC4C14	Financial Derivatives and Risk management
17	MC4C15	Cost Management
18	MC4E03	Strategic Financial Management
19	MC4E04	Tax Planning and Management

MA English

SLNo.	Paper Code	Name of Subject
Semester I		
1	ENG1C01	British Literature from Chaucer to 18th Century
2	ENG1C02	British Literature 19th Century
3	ENG1C03	History of English Language
4	ENG1C04	Indian Literature in English
Semester II		
5	ENG2C05	20th Century British Literature upto 1940.
6	ENG2C06	Literary Criticism and theory-part 1
7	ENG2C07	American literature
8	ENG2C08	Post Colonial Writings
Semester III		
9	EN3C05	20th Century British Literature :post 1940
10	EN3C06	English language History and Structure
11	EN3E15	Post Colonialfiction and drama
12	EN3E19	Women's writing
Semester IV		
13	EN4C07	Indian English Literature
14	EN4C08	Dissertation
15	EN4E20	Post Colonial poetry
16	EN4E24	Linguistics
17	EN4E27	Teaching of English

Master of Social Work

SLNo.	Paper Code	Name of Subject
Semester I		
1	SOW1C01	History, Philosophy Fields of Social work
2	SOW1C02	Sociology&Economics for social work practice
3	SOW1C03	Human growth and development
4	SOW1C04	Professional skills for social workers
5	SOW1C05	Social legislation and Human rights
6	SOW1L01	Concurrent Fieldwork
7	SOW1A01	Working with older persons
Semester II		
8	SOW2C06	Social casework
9	SOW2C07	social group work
10	SOW2C08	Community organization & Social Action
11	SOW2C09	Psychology for social work
12	SOW2C10	Theory and Practice of counselling
13	SOW2L02	Concurrent Fieldwork
14	SOW2A02	Child Protection
Semester III		
15	SOW3C11	Quantitative&Qualitative Methods for social work Research
16	SOW3C12	Participatory project planning & training
17	SOW3C13	Community Health
18	SOW3E101	Health care Social work
19	SOW3E201	Rural community Development & Governance
20	SOW3E102	Social work in mental healthsettings
21	SOW3E202	Urban community Development & Governance
22	SOW3L03	Concurrent Field work
Semester VI		
23	SOW4C14	Administration of Human service Org.
24	SOW4C15	Social work with vulnerable Groups
25	SOW4E103	Therapeutic Approaches in Medical&psychiatric settings
26	SOW4E203	Environmental studies & Disaster management
27	SOW4E104	Social work practice with families
28	SOW4E204	Social work with gender issues
29	SOW4L04	concurrent fieldwork
30	SOW4 I 05	Block field work
31	SOW4P101	Dissertation
32	SOW4V01	Comprehensive Viva-voce

MSc Microbiology

SLNo.	Paper Code	Name of Subject
Semester I		
1	MBG1C01	General Biochemistry & Microbial Metabolism
2	MBG1C02	Biophysics & Instrumentation
3	MBG1C03	Environmental and Sanitation Microbiology
4	MBG1C04	Agricultural Microbiology and Pathology
5	MBG1L01	Practical I
6	MBG1L02	Practical II
Semester II		
7	MBG2C05	Principles of Genetics
8	MBG2C06	Food and Dairy Microbiology
9	MBG2C07	Industrial Microbiology
10	MBG2L03	Practical III
Semester II		
11	MBG3C09	Medical Microbiology
12	MBG3C10	Molecular Biology
13	MBG3E02	Diagnostic Microbiology
14	MBG3P04	MB2C06, MB2C08, MB2C09
15	MBG3P05	MB2C05, MB2C10
Semester IV		
16	MB4C 11	Biostatistics and Bioinformatics
17	MB4E04	Microbial biotechnology
18	MB4P06	MB4C11

PG Applied Geology

SLNo.	Paper Code	Name of Subject
Semester I		
1	GEL1C01	Physical geology & Geomorphology
2	GEL1C02	Structural Geology & Geotectonics
3	GEL1C03	Geoinformatics
4	GEL1C04	Stratigraphy & Indian Geology
5	GEL1L01	Geomorphology, structural geology, geoinformatics
6	GEL1F01	Study Tour
Semester II		
7	GEL2C05	Crystallography & Mineralogy
8	GEL2C06	Economic Geology
9	GEL2C07	Hydrogeology
10	GEL2C08	Applied Palaeontology & Sedimentology
11	GEL2L02	Crystallography, Mineralogy, Economic geology, Hydrogeology
		Palaeontology & Sedimentology
12	GELIF02	Study Tour
Semester III		
13	GEL3C09	Igneous and Metamorphic petrology
		Elective-I
		Elective-II
		Elective-III
14	GEL3L03(P)	Igneous and Metamorphic petrology and Elective
Semester IV		
15	GEL4C10	Geochemistry and Isotop Geology
		Elective-IV
		Elective-V
16	GEL4L04(P)	Geochemistry and Elective
17	GEL4P01	Project/ Dissertation
18	GEL 4M02	Combined field Mapping
19	GEL4V01	Viva - Voice

M.Sc General Biotechnology

SLNo.	Paper Code	Name of Subject
Semester I		
1	GBT 1C 01	Cell Biology
2	GBT 1C 02	Biomolecules
3	GBT 1C 03	Microbiology
4	GBT 1L 01	Laboratory – I (Cell Biology, Biomolecules and Microbiology)
5	GBT 1A 01	Classical / Benchmark papers – Presentation and critical analysis (AEC – Ability Enhancement Course)
Semester 2		
6	GBT 2C 01	Metabolism and Basic Enzymology
7	GBT 2C 02	Molecular Biology
8	GBT 2C 03	Environmental Biotechnology
9	GBT 2C 04	Biostatistics & Bioinformatics
10	GBT 2L 01	Laboratory – II (Metabolism & Basic Enzymology, Molecular Biology and Environmental Biotechnology)
11	GBT 2A 01	Application of statistical software such as SPSS – capabilities, data entry, choosing statistical tests, interpretation and analysis of data output. (PCC – Professional Competency Course)
Semester 3		
12	GBT 3C 01	Genetic Engineering
13	GBT 3C 02	Bioprocess Technology
14	GBT 3C 03	Plant Biotechnology
15	GBT 3C 04	Immunology
16	GBT 3E 01	Stem Cell Biology Part A (Option I)
17	GBT 3E 02	Virology Part A (Option II)
18	GBT 3L 01	Laboratory – III (Genetic Engineering, Bioprocess 4 Technology, Plant Biotechnology and immunology)
Semester 4		
19	GBT 4P 01	Project Work (Dissertation format – Introduction with aims and objectives, Literature review, Materials and methods, Results and Discussion, Conclusions and Future prospective)
20	GBT 4V 01	Comprehensive Viva-Voce
21	GBT 4E 03	Stem Cell Biology Part B
22	GBT 4E 04	Virology Part B
23	GBT 4E 05	Industrial & Food Biotechnology
24	GBT 4E 06	Nanobiotechnology

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BINDU K (Sweeper)	8086437481
SREEDEVI.N (Sweeper)	9048221487
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KRISHNAN M.K (Security)	9446832545
ABDUL SALAM K.P (Security)	
GOPALAKRISHNAN K (Security)	994079088
APPAYI K.P (Security)	9746093560
ABDUL KAREEM (Security)	
VENU (Security)	7736128118
SAIDALI (Security)	8138974930

CALENDAR**JUNE 2022**

Date	Days	Particulars
1	Wednesday	World Milk Day, Global Day of Parents
2	Thursday	
3	Friday	World Bicycle Day
4	Saturday	Holiday
5	Sunday	Holiday-National Environment Day
6	Monday	
7	Tuesday	World Food Safety Day
8	Wednesday	World Brain Tumor Day
9	Thursday	
10	Friday	
11	Saturday	Holiday
12	Sunday	Holiday-World Day Against Child Labour
13	Monday	
14	Tuesday	World Blood Donor Day
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	Holiday
19	Sunday	Holiday
20	Monday	2 nd & 4 th Sem Model Exam Commencement
21	Tuesday	World Music Day/ International Yoga Day
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	Holiday
26	Sunday	Holiday-International Day Against Drug Abuse and Illicit Trafficking
27	Monday	
28	Tuesday	
29	Wednesday	National Statistics Day
30	Thursday	

No. of Working days Expected : 22

CALENDAR**JULY 2022**

Date	Days	Particulars
1	Friday	
2	Saturday	Holiday
3	Sunday	Holiday
4	Monday	
5	Tuesday	
6	Wednesday	
7	Thursday	
8	Friday	
9	Saturday	Holiday-Eid -Ul- Adha
10	Sunday	Holiday
11	Monday	World Population Day
12	Tuesday	
13	Wednesday	
14	Thursday	
15	Friday	World Youth Skills Day
16	Saturday	Holiday
17	Sunday	Holiday/World Day for International Justice
18	Monday	
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	Holiday
24	Sunday	Holiday
25	Monday	
26	Tuesday	Kargil Vijay Divas
27	Wednesday	
28	Thursday	Holiday-Karkidavavu/World Hepatitis Day / World Nature Conservation Day
29	Friday	
30	Saturday	Holiday
31	Sunday	Holiday

No. of Working days Expected : 20

CALENDAR
AUGUST 2022

Date	Days	Particulars
1	Monday	World Wide Web Day
2	Tuesday	
3	Wednesday	
4	Thursday	
5	Friday	
6	Saturday	Holiday-Hiroshima Day
7	Sunday	Holiday
8	Monday	
9	Tuesday	Nagasaki Day
10	Wednesday	
11	Thursday	
12	Friday	International Youth Day
13	Saturday	Holiday
14	Sunday	Holiday
15	Monday	Holiday-Independence Day
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	Holiday-Muharram/World Photography Day
20	Saturday	Holiday
21	Sunday	Holiday
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	
26	Friday	Women's Equality Day
27	Saturday	Holiday
28	Sunday	Holiday-Ayyankali Jayanthi
29	Monday	National Sports Day
30	Tuesday	
31	Wednesday	

No. of Working days Expected : 22

CALENDAR
SEPTEMBER 2022

Date	Days	Particulars
1	Thursday	
2	Friday	
3	Saturday	Holiday-Onam
4	Sunday	Holiday-Onam
5	Monday	Holiday-Onam International Day of Charity
6	Tuesday	Holiday-Onam
7	Wednesday	Holiday-Onam
8	Thursday	Holiday-Onam International Literacy Day
9	Friday	Holiday-Onam
10	Saturday	Holiday-Onam/Suicide Prevention Day/World First Aid Day
11	Sunday	Holiday-Onam
12	Monday	Holiday-Onam
13	Tuesday	
14	Wednesday	
15	Thursday	
16	Friday	World Ozon Day
17	Saturday	Holiday
18	Sunday	Holiday
19	Monday	
20	Tuesday	
21	Wednesday	Holiday-Sreenarayana Guru Samadhi
22	Thursday	
23	Friday	
24	Saturday	Holiday
25	Sunday	Holiday
26	Monday	
27	Tuesday	World Tourism Day
28	Wednesday	
29	Thursday	World Heart Day
30	Friday	

No. of Working days Expected : 14

CALENDAR		
OCTOBER 2022		
Date	Days	Particulars
1	Saturday	Holiday
2	Sunday	Holiday-Gandhi Jayanthi
3	Monday	
4	Tuesday	Holiday-Mahanavami
5	Wednesday	Holiday-Vijayadashami/World Teacher's Day
6	Thursday	
7	Friday	
8	Saturday	Holiday-Meelad E Sherif
9	Sunday	Holiday
10	Monday	Mental Health Day
11	Tuesday	
12	Wednesday	
13	Thursday	
14	Friday	
15	Saturday	Holiday
16	Sunday	Holiday-World Food Day
17	Monday	International Poverty Eradication Day
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	
22	Saturday	Holiday
23	Sunday	Holiday
24	Monday	Holiday- Diwali
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	
29	Saturday	Holiday
30	Sunday	Holiday
31	Monday	3& 5-Sem Model Exam Commencement

No. of Working days Expected : 18

CALENDAR NOVEMBER 2022

Date	Days	Particulars
1	Tuesday	
2	Wednesday	
3	Thursday	
4	Friday	
5	Saturday	Holiday
6	Sunday	Holiday
7	Monday	National Cancer Awareness Day
8	Tuesday	
9	Wednesday	
10	Thursday	
11	Friday	National Education Day
12	Saturday	Holiday
13	Sunday	Holiday
14	Monday	National Children's Day/ World Diabetics Day
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	
19	Saturday	Holiday
20	Sunday	Holiday
21	Monday	
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	
26	Saturday	Holiday/Constitution Day
27	Sunday	Holiday
28	Monday	
29	Tuesday	
30	Wednesday	

No. of Working days Expected : 22

CALENDAR		
DECEMBER 2022		
Date	Days	Particulars
1	Thursday	World AIDS Day
2	Friday	National Pollution Control Day
3	Saturday	Holiday/International Day of Persons with Disabilities
4	Sunday	Holiday
5	Monday	
6	Tuesday	
7	Wednesday	
8	Thursday	
9	Friday	
10	Saturday	Holiday/Human Rights Day
11	Sunday	Holiday
12	Monday	
13	Tuesday	
14	Wednesday	National Energy Conservation Day
15	Thursday	
16	Friday	
17	Saturday	Holiday
18	Sunday	Holiday
19	Monday	
20	Tuesday	
21	Wednesday	
22	Thursday	Holiday X-mas/National Mathematics Day
23	Friday	Holiday X-mas/Kisan Diwas
24	Saturday	Holiday X-mas
25	Sunday	Holiday X-mas
26	Monday	Holiday X-mas
27	Tuesday	Holiday X-mas
28	Wednesday	Holiday X-mas
29	Thursday	Holiday X-mas
30	Friday	Holiday X-mas
31	Saturday	Holiday X-mas

No. of Working days Expected : 15

CALENDAR		
JANUARY 2023		
Date	Days	Particulars
1	Sunday	Holiday/New Year
2	Monday	Holiday/Mannam Jayanthi
3	Tuesday	
4	Wednesday	
5	Thursday	
6	Friday	
7	Saturday	Holiday
8	Sunday	Holiday
9	Monday	
10	Tuesday	
11	Wednesday	
12	Thursday	
13	Friday	
14	Saturday	Holiday
15	Sunday	Holiday
16	Monday	
17	Tuesday	
18	Wednesday	National Immunization Day
19	Thursday	
20	Friday	
21	Saturday	Holiday
22	Sunday	Holiday
23	Monday	
24	Tuesday	National Girl Child Day
25	Wednesday	National Tourism Day
26	Thursday	Holiday- Republic Day
27	Friday	
28	Saturday	Holiday
29	Sunday	Holiday
30	Monday	Shaheed Divas
31	Tuesday	

No. of Working days Expected : 20

CALENDAR		
FEBRUARY 2023		
Date	Days	Particulars
1	Wednesday	
2	Thursday	World Wetlands Day
3	Friday	
4	Saturday	Holiday/World Cancer Day
5	Sunday	Holiday
6	Monday	
7	Tuesday	
8	Wednesday	Safe Internet Day
9	Thursday	
10	Friday	
11	Saturday	Holiday
12	Sunday	Holiday
13	Monday	World Radio Day
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	Holiday-Sivarathri
19	Sunday	Holiday
20	Monday	World Day of Social Justice
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	Holiday
26	Sunday	Holiday
27	Monday	1-& 6-Sem Model Exam Commencement
28	Tuesday	National Science Day
No. of Working days Expected : 20		

CALENDAR
MARCH 2023

Date	Days	Particulars
1	Wednesday	
2	Thursday	
3	Friday	World Wild Life Day
4	Saturday	Holiday
5	Sunday	Holiday
6	Monday	
7	Tuesday	
8	Wednesday	
9	Thursday	
10	Friday	
11	Saturday	Holiday
12	Sunday	Holiday
13	Monday	
14	Tuesday	Pi Day
15	Wednesday	
16	Thursday	
17	Friday	4 th Sem Model Exam Commencement
18	Saturday	Holiday
19	Sunday	Holiday
20	Monday	International Day of Happiness
21	Tuesday	
22	Wednesday	World Water Day
23	Thursday	
24	Friday	World TB Day
25	Saturday	Holiday
26	Sunday	Holiday
27	Monday	
28	Tuesday	
29	Wednesday	
30	Thursday	
31	Friday	

No. of Working days Expected : 23



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