

**'Visualizing dreams of higher education of youth of backward sections of the society
and transforming them into global human resources'**

PROGRAMME OUTCOMES

Dr. P Dayananda Pai – P Satisha Pai Government First Grade College aims at providing its students intellectual nourishment and also inculcating in them such values and skills in order to lead a quality life. In the light of this, our college offers Under Graduate and Post Graduate Courses to the students with a vision to achieve social justice and social equity and to empower women and the marginalized through higher education in order to make them socially and economically self-dependent.

The learning outcomes are clearly defined in the vision and mission statement of the college.

The UG and PG programmes offered in the college focuses on the following objectives:

- To impart knowledge, expertise, guidance and positive motivation to the students
- To impart Value Education to develop the moral uprightiness.
- To develop self – confidence among the students to face the challenges of life.
- To bring forth competent and employable graduates for suitable job placements.
- To provide opportunities for academic excellence and encourage innovations.
- To make the students ambitious in life and mould them into responsible global citizens.
- Empowering students to become responsible citizens.
- Empowering women and marginalized through higher education.
- To equip students through various skills to pursue higher education.
- To understand how to make practical application of knowledge and skills.
- To equip the students with strong moral and ethical values in their life and career.
- To help the "Slow Learners" and encourage the "advanced learners".

As the college is affiliated to Mangalore University, the curriculum is designed by the University and general regulations are also provided by the university. While the college follows the syllabus prescribed by the University for all programmes, keeping in mind the demographic conditions of the students, college has devised its own programme specific objectives and outcomes for all programs.

Sl. No.	Learning Objectives	Programme Outcomes
UG Programme:		
1.	To provide quality higher education to all urban and rural, poor and needy students.	After completing the programme, the student qualifies either for higher studies or will be able to choose his/ her career path with confidence.
2.	To help the students to acquire knowledge and skills required to be employed in the job market.	A student would be able to get employed and satisfy his/ her social and economic needs after completing the course.
3.	To build Leadership Quality and to create harmony in the society through higher education.	At the end of the programme a student shall be a leader in the society and work for bringing harmony in the society and make the country a peaceful place to live.
PG Programme:		
1.	Providing access to the quality post-graduate courses at a lower cost to economically backward students of different regions.	At the end of the programme the student should be able to improve his/ her all-round personality and quality of life and achieve social and economic self-dependence.
2.	To develop the analytical and reasoning ability of the students by using participative learning.	A student should be capable of applying the academic learning into practical situations in the context of socio-technological changes and would be able to independently acquire new knowledge.
3.	Creating productive human beings through various academic programmes by instilling the attitude of Responsible Citizenship among the students.	A student would be able to inculcate empathetic social concern and would become a change agent in the society by using their creative mind in the development of the society at large.

PROGRAMME SPECIFIC OUTCOMES

We offer 06 UG programmes and 03 PG programmes for the students. Specific outcomes are well defined for each programme:

Bachelor of Arts (BA) and Master of Arts (MA – Political Science):

The B.A. programme as prescribed by Mangalore University follows three major system, in which a student has the flexibility to choose three Arts subjects from the combinations of History, Economics, Political Science, Sociology, Psychology, Journalism, English and Kannada major. In addition, they will learn two languages – General English and Kannada.

Hindi/ Sanskrit and also have the option of choosing one open elective/ inter-disciplinary subject offered by other departments.

Our college also offers M.A. in Political Science which follows the curriculum prescribed by Mangalore University. The students are offered Soft Core and Hard Core Papers for the study in four semesters. They also have the option of choosing any open elective paper offered by the other Post Graduation Courses at other Institutes.

Humanities education emphasises on human and social values and the prescribed subjects are socially relevant which necessitate adoption of social values, due care is taken to raise the standards of general humanities education while implementing B.A. and M.A. programme in our college. The Programme Specific Outcomes are:

Sl. No.	Value/Skill	Programme Specific Outcomes
1.	Social, Cultural and Human Values	During the course of three years a student would be able to understand the social and cultural Diversity of our land and would be able to develop a sense of unity in diversity.
2.	Communicative and presentation Skills	Learning of languages will help the students to improve their communication and presentation skills which is an essential part of success.
3.	Employability	At the end of the programme a student will get job opportunities in different areas such as administration, service sector, media, hospitality industry and commercial sector.

Bachelor of Commerce (B. Com.) and Master of Commerce (M. Com.):

The B. Com. programme follows the syllabus prescribed by Mangalore University in which students are offered 3 languages – General English and Kannada/ Hindi/ Sanskrit and the flexibility to choose one open elective/ inter-disciplinary subject offered by other departments. Over the 06 semesters students get an opportunity to learn all relevant subjects which have practical application such as Accounting, Business Taxation, Costing, Financial Management, Management, Banking, Human Resource Management etc., which gives an exposure to the students to the real and complex world of business.

Our college also offers M. Com., which follows the curriculum prescribed by Mangalore University. The students are offered Soft Core and Hard Core Papers for the study in four

seminars. They also have the option of choosing any open elective paper offered by the other Post Graduation Courses at other Institutes. Mandatory Internship programme at the end of first year and Study Tour at the end of the second year gives hands on experience to the students in the business field.

Business and Industry contributes to the economic development of a nation to a great extent. Hence, Commerce education plays pivotal role in equipping the students with necessary knowledge, skills and tools to understand and analyse the business environment globally and locally in order to achieve success in their professional career. Hence, the B. Com. And M. Com. course in our college also aims at developing analytical and critical skills of the students through various participative learning techniques such as group discussion, case analysis, evaluation of business related issues etc. The Programme Specific Outcomes are:

Sl. No.	Value/Skill	Programme Specific Outcomes
1.	Ethical Values and Legal Compliance	During the duration of three years a student would be able to understand the ethical issues of business and learn the right business ethics.
2.	Humanitarian Approach in Management	Subjects like Human Resource Mgt., Organization Behaviour and Strategic Management will help the students to understand the people and to inculcate humanitarian approach to deal with them.
3.	Critical Thinking and Problem Solving Skills	On completion of the course, the students would be able to apply the knowledge and different business models to solve the real life situations arising in the field of business.
4.	Entrepreneurial Skills	After the completion of the course, a student shall be able to apply his/ her theoretical knowledge and skills to take up self-employment or own business enterprise and will be able to contribute to the national income at large.
5.	Employability	At the end of the programme a student will get job opportunities in different areas such as Accounting, Managerial and Administrative areas, Public Relations, Hospitality and Service Industry, Auditing, Project Management, Human Resource Solutions, Financial Sector etc.

Bachelor of Business Administration (BBA):

B.B.A course which is affiliated to Mangalore University is designed to provide the students with a wide range of managerial and administrative skills. The course provides a platform for

participative learning through group discussion, case analysis, simulation etc. and prepares students to face industry specific situations which are crucial for various managerial levels.

In BBA programme, students are given an insight into the management techniques prevailing in the corporate world. It exposes students to a variety of subjects such as Business Environment, Accounting, Commercial Law and Ethics, Economics, Finance, Marketing, Human Resource Management, Organisation Behaviour etc. In addition they also learn the languages – English and Kannada/ Hindi/ Sanskrit to enhance the communicative skills and have the option to choose any paper from the Open Electives.

On completion of B.B.A course, the students will be able to imbibe different values and develop the following skills:

Sl. No.	Value/Skill	Programme Specific Outcomes
1.	Business Ethics & Legal Compliance	On completion of the course the student will be able to understand legal aspects of a business and follow the right business ethics.
2.	Cognitive Skills	Learning of various management related subjects will help the students to develop rational thinking and to inculcate positive attitude towards any situation.
3.	Leadership Skills and Decision Making	At the end of the programme, the students would be able to apply the theoretical business knowledge in real situations arising in the field of business and shall be able to take right decisions which will help them to emerge as leaders.
4.	Entrepreneurial Skills	After the completion of the course, a student shall be able to apply his/ her theoretical knowledge and skills to take up self-employment or own business enterprise and will be able to contribute to the national income at large.
5.	Employability	At the end of the programme a student will get job opportunities in different areas such as Accounting, Management and Administrative areas, Public Relations, Hospitality and Service Industry, Auditing, Project Management, Human Resource Solutions, Financial Sector etc.

Bachelor of Science (B. Sc.):

B.Sc. course is intended to provide the students with a wide variety of practical skills. The course provides an opportunity for the students to learn environmental issues scientifically and to understand the day-to-day events by applying scientific reasoning. B. Sc. Course is a

dynamic course having practical applicability, which helps the students to apply theoretical knowledge into various complex situations of life and make the world better place to live.

The B. Sc. programme as prescribed by Mangalore University follows three major systems, in which a student has the flexibility to choose three Science subjects from the combinations of Physics, Chemistry, Mathematics, Botany, Zoology and Computer Science. Besides this, they will learn two languages – General English and Kannada/ Hindi/ Sanskrit and also have the option of choosing one open elective/ Inter-disciplinary subject offered by other departments.

On completion of B. Sc. course, the students will be able to calculate certain values and develop the following skills:

SL No.	Value/Skill	Programme Specific Outcomes
1.	Research Mind and Critical Thinking	During the course of three years a student would be able to understand the scientific aspects of any natural event which help them to research into the situation with critical mind and scientific reasoning.
2.	Environment Consciousness	On completion of the course, the students would develop love for nature and shall be conscious towards the environmental issues in order to protect the nature.
3.	Rational Thinking and Adapability	After the course, the students will be able to apply rational thinking in every situation and will help them to adapt themselves to the complex situations.
4.	Employability	At the end of the programme a student will get job opportunities in different areas such as Processing Industry, Information Technology, Food Industry, Hospitality Industry, Service Sector or any other relevant field.

Bachelor of Computer Application (BCA)

Information Technology is the heart and soul of a nation which contributes to the faster communication, better delivery and smarter living. Hence, Computer Education plays key role in equipping the students with necessary knowledge, skills and tools of ICT in order to achieve success in their professional career. The BCA course in our college aims at developing research and analytical skills of the students through various learning techniques such as project works, practical sessions along with theoretical explanation. The duration of the course is 3 years and divided into 6 semesters. It comprises subjects such database management systems, networking and structure, Artificial Intelligence and core

programming languages like 'C' and 'java'. This course provides a lot of opportunities to the students who are interested in computer field and wants to work in the IT sector as programmers or software developers. The Programme Specific Outcomes are designed to cater to the needs of the prospective employers. On completion of BCA course, the students will be able to imbibe certain values and develop the following skills:

Sl.No.	Value/Skill	Programme Specific Outcomes
1.	Creative thinking and Innovative Attitude	During the course of three years a student would be able to understand the technical aspects involved in solving problems related to day-to-day functioning, which help them to develop softwares for creating ready solutions to such problems.
2.	Adaptability and User friendly Approach	On completion of the course, the students would be able to design programmes for adapting to the changing technology and in this process develop a sense of user friendly approach in their professional and career life.
3.	Blending human values into technology	After the course, the students will be able to understand the importance of human values and shall blend the same while developing and adopting any technology.
4.	Employability	At the end of the programme a student will get job opportunities in different areas such as Software developers, Design Engineers, Hardware and Networking, Programme Developer, System Administrator etc.
5.	Self-employment	On completion of BCA course, students will be able to develop themselves as IT professionals in the areas of free lanceing, computer servicing, outsourcing etc.

Bachelor of Social Work (BSW) & Master of Social Work (MSW):

As we are a part of the society, reaching out to the community is the need of the hour. So, Social Work has become an integral part of every citizen of the country. In this connection, Bachelor of Social Work and Master of Social Work Programmes focus on imparting necessary knowledge, possessing essential skills and inculcating social and human values in the students. Thus, BSW and MSW course which follows the syllabus and the modalities practised by Mangalore University, aims at developing a positive attitude towards Community Service which will have long lasting impact on the society at large.

The duration of the BSW course is 3 years which runs through 6 semesters. It comprises subjects such as Health Care, Social Group Work, Social Case Work, Education for

Development, Community Organisation for Development etc. In addition, they also learn two languages and have the option of choosing one Open Elective subject.

The MSW course is of 2 years duration which consists of Hard Core as well as Soft Core subjects. The students also have the option to choose among many Open Elective Papers offered by other PG Departments/ other institutes.

The Programme Specific Outcomes are designed keeping in mind the geographic uniqueness and demographic diversity of the communities in which the students undertake their field work. On completion of BSW and MSW course, the students will be able to inculcate certain values and develop the following skills:

Sl. No.	Value/Skill	Programme Specific Outcomes
1.	Social, Cultural and Human Values.	During the course of three years a student would be able to understand the social and cultural Diversity of different communities and would be able to cater to their needs accordingly as a part of social work.
2.	Public Relations	As the course involves field work with the public in the society, the students will be able to build good public relations in their day-to-day life.
3.	Communication and Counselling Skills	The specialisation subjects like Medical Psychiatric social Work, Community Development etc. will enable the students to extend their knowledge to understand the psychological issues involved in every situation and to apply logical solutions to such situations.
4.	Employability	At the end of the programme a student will get job opportunities as Public Relations Officers, Counsellors, Community Developers, Project Managers etc. in different sectors of business, NGOs and society at large.


 PRINCIPAL
 DEPARTMENT OF POST GRADUATE STUDIES
 CHRISTIAN MISSION COLLEGE
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BCA PROGRAMME

Programme Outcomes (POs)

- PO1 Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.
- PO2 Ability to transform complex business scenarios and contemporary issues into problems, investigate, understand and propose integrated solutions using emerging technologies.
- PO3 Ability to understand management and computing principles with computing knowledge to manage projects in multidisciplinary environments.
- PO4 Ability to work as a member or leader in diverse teams in multidisciplinary environment.

Programme Specific Outcomes (PSOs)

- PSO1 Computational knowledge and skill to understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.
- PSO2 Problem Analysis: Ability to identify, critically analyse and formulate complex computing problems using fundamentals of computer science and application domains.
- PSO3 Conduct Investigations of Complex Computing Problems: Ability to devise and conduct methods, interpret data and provide well informed conclusions.
- PSO4 Ability to select modern computing tools, skills and techniques necessary for innovative software solutions.
- PSO5 Innovation and Entrepreneurship: Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.

Course Objectives and Course Outcomes

BCAC131: Fundamentals of Information Technology

Course Objective

- To impart the knowledge about the evolution of computers, classification, various peripherals of computers, types of software, etc.

Course Outcome

Upon successful completion of the course, the student will be able to

- Identify various devices and their working principles.

BCAC132: Problem Solving Using C

Course Objective

- To develop skills in solving problems, to obtain knowledge about the structure of the programming language C and to develop the program writing and logical thinking skill.

Course Outcome

Upon successful completion of the course, the student will be able to

- Apply programming knowledge to create solutions to challenging problems, including specifying, designing, implementing and validating solutions for new problems.

BCAC 384-E1: Programming for Analytics

Course Objectives

- This module introduces Students to various programming languages in the field of Analytics like SQL, SAS, R and form foundation for further analysis of Datasets.
- Students will learn the basics of these programming languages and learn data manipulation techniques.

Course Outcomes

Upon successful completion of the course, the student will be able to:

- Obtain, clean/process and transform data
- Analyse and interpret data using an ethically responsible approach.
- Use appropriate models of analysis, assess the quality of input, derive insight from results, and investigate potential issues. Formulate and use appropriate models of data analysis to solve hidden solutions to business related challenges.

BCAC 385-E2: Multivariate Data Analysis

Course Objectives

- To enable students to exercise Multivariate Techniques in R environment in different Business Cases.
- To know the different techniques covered under the scope of Multivariate Analysis and will be able to apply and build select Predictive Models in the context of Binary Classification and Time Series.

Course Outcomes

Upon successful completion of the course, the student will be able to:

- Obtain, clean/process and transform data.
- Analyse and interpret data using an ethically responsible approach.

B.COM PROGRAMME

Programme Objectives:

1. The Course focuses mainly on enhancing the employability skills of the Commerce students
2. The introduction of updated and the need of the hour concepts and contents will make a student employable and at the same time confident in his/her day to day transactions.
3. The course also meets the requirement of the young and enterprising Indians to nurture their dreams of entrepreneurship.
4. Overall the course touches upon the humane aspect of every student pursuing it and encourages them to contribute to nation building through their intellect and social capital.

Programme Outcomes:

- Enhancement of entrepreneurial spirit amongst the learners.
- Employability is the focal point of their three years of study.
- Achieve a holistic and all-round development of a learner.
- This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Retail sector, Warehousing etc., well trained professionals to meet the requirements.
- After completing graduation, students can get skills regarding various aspects like Marketing Manager, Human Resource Manager, over all Administration abilities of the Company.
- Capability of the students to make decisions at personal & professional level will increase after completion of this course.
- Students can independently start up their own Business.
- Students can get thorough knowledge of finance and commerce. The knowledge of different specializations in Accounting, Costing, Banking, Taxation and Finance with the practical exposure helps the students to stand in organization.

Program Specific Outcome

- The students can get the knowledge, skills and attitudes during the end of the B.com degree course. By goodness of the preparation they can turn into a Manager, Accountant, Management Accountant, Cost Accountant, Bank Manager, Auditor, Company Secretary, Professor, Stock Agents, Government employments and so on.,
- Students will prove themselves in different professional exams like C.A, C.S, CMA, UPSC as well as other coeres.
- The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.
- Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication.
- Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator as well as other financial supporting services.
- Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- Students will be able to do their higher education and can make research in the field of finance and commerce.

Programme Objectives:

1. The Course focuses mainly on enhancing the employability skills of the Commerce students
2. The introduction of updated and the need of the hour concepts and contents will make a student employable and at the same time confident in his/her day to day transactions.
3. The course also meets the requirement of the young and enterprising Indians to nurture their dreams of entrepreneurship.
4. Overall the course touches upon the humane aspect of every student pursuing it and encourages them to contribute to nation building through their intellect and social capital.

III B.COM. - V SEMESTER BCMCMC 334: COST & MANAGEMENT ACCOUNTING - III

5 Hours per week

72 hrs.: No of Credits:3

Course Objective:

- To collect and analyse cost for different spheres of manufacturing and service units.

Course Outcomes:

- Learners will attain higher knowledge in the world of Cost Accounting
- Encourage the learners to take up profession in the field of Cost Accounting and go in for higher learning.
- Adopt the procedure for computing the cost of a batch.
- Learners will able to adopt various methods of apportionment of joint cost to Joint Products and to By-Products.

III B.COM. - V SEMESTER

UNIT V: ACCOUNTING FOR BY PRODUCTS

12 Hrs.

Non-cost and Sales value methods: Other income method, Total sales method and Net cost method-Theory and Problems

Cost Methods: Opportunity cost method, standard cost method and Joint cost method - Theory only.

UNIT VI: OPERATING COSTING

12 Hrs.

Meaning, features, cost unit, operating cost statement-problems on Transport costing only.

III B.COM; V SEMESTER

BCMCMC 335: BUSINESS LAW

Hours per week:05

72 hrs.: No. of Credits:03

Instruction:

It is a theoretical subject to be taught with suitable examples and special reference to case laws.

Course Objectives:

- Understand the nuances of various laws connected with business
- Apply basic knowledge acquired to business transactions in their career ahead.

Course Outcomes:

- Demonstrate a basic understanding of the laws relating to Contract, Information Technology and Intellectual Property Rights.
- Develop acceptable attitudes and viewpoints with respect of legal environment of business.
- Learners are able to face the contemporary issues and challenges in business law.

III B.COM - V SEMESTER
BCMCMC 336: MODERN MARKETING

5 hrs. per week

72 hrs.: No of Credits:3

Course Objectives:

- Understand the conceptual underpinnings in terms of core concepts.
- Understand the current role of marketing in the business and society.
- Comprehend the marketing issues in a growing business context through real marketing case studies and anecdotes.

Course Outcomes:

- Learners can apply the working knowledge of the field of marketing in their respective businesses.
- Develop the cognitive and analytical ability with application of marketing knowledge required for marketing career prospects.
- Familiarize the concept of BIS and AGMARK and their practical usage.
- Learners are able to tackle the problems relating to the digital marketing.

III B.COM. - VI SEMESTER
BCMCMC 381: GST and CUSTOMSDUTY

5 Hours per week

72 hrs.: No. of Credits:3

Course Objectives:

- To familiarize the students with the provisions of Indirect Taxation Laws in India. With the introduction of Good and Services Act, India is moving towards formalization of business transactions, mopping up higher revenue to the Exchequer. This subject is to be taught with reference to the relevant amendments made to GST by GSTC and by Finance Acts passed in the Parliament from time to time.

Course Outcomes:

- On successful completion of this course the students are enable with the knowledge in the practical applications of GST registration and procedure.
- Learner's confidence will develop and they can look in terms of Practicing GST as Commercial Accountants.
- Differentiate between Direct and Indirect Tax and its implications on one's income.
- Students will able to understand the process of customs clearance operations, types of customs duties and prohibition of importation and exportation of goods.

III B.COM. - VI SEMESTER
BCMCMC 382: CORPORATE ACCOUNTING –II

5 hours per week

72hrs.: No of Credits:3

Course Objectives:

- Understand the nuances of Corporate Accounting.
- Update themselves with the latest in the course.

Course Outcomes:

- Be employment ready in Accounting field with thorough knowledge of the concepts.
- Pursue higher learning to know more of the contents.
- To provide knowledge on Goodwill.
- To give an exposure to the company final accounts.

III B.COM. - VI SEMESTER

BCMCMC 383: FINANCIAL MANAGEMENT –II

5 hours per week

72 hrs.: No of Credits:3

Course Objective:

- To enable the students to acquire working capital management skills and to understand the advanced concepts and techniques in corporate financial affairs in relation to investment and dividend policy decisions.

Course Outcomes:

- Learners can differentiate between Stock Market Investment and Mutual Fund
- Take Investments as a career or take up the onus of spreading investor awareness amongst the society.
- To enable them to understand working capital management.
- To provide knowledge about dividend policies and various dividend models.

III B.COM. - VI SEMESTER

BCMCMC 384: COST & MANAGEMENT ACCOUNTING - IV

5 Hours per week

72 hrs.: No of Credits:3

Course Objectives:

- To acquaint students with basics of Management Accounting.
- To impart knowledge on the short term and long-term decision-making techniques and methods.

Course Outcomes:

- Learners can differentiate between the classification of various branches of accounting
- Take up higher learning in the field of Cost or Management Accounting,
- The students are able to prepare a statement of cash flow by analyzing the accounts.
- Learners are able to get the knowledge of budgetary control.

III B.COM. - VI SEMESTER

BCMCMC 385: INDIAN CORPORATE LAW

Hours perweek:5

72 hrs.: No of Credits:03

Instruction:

A theoretical subject to be taught with special reference to case laws mentioned towards the end of the syllabus.

Course Objectives: Upon learning the subject, the student will be able:

- To demonstrate a comprehensive and accurate knowledge of laws relating to the formation, administration and operations of a company.
- To develop an understanding of current policy trends and developments in Corporate Law in Indian scenario.

Course Outcomes:

- Learners will have an in-depth understanding of the Companies Act, 2013 along with all its amendments.
- Encourage the learners to take up Law as a career.
- Learners will able to understand and differentiate between private and public companies.
- The knowledge of basic provision regarding the legal frame work governing the Indian corporate.
- On successful completion of this course the students are enabled with the knowledge in the practical application of law which governing the companies.

III B.COM. - VI SEMESTER

BCMCMC 386: AUDITING

Hours perweek:5

72 hrs.: No of Credits:03

Course Objectives:

- To familiarise the students with the basics of Auditing.
- To create awareness of principles and procedure of Auditing.
- To create interest among the students to take up professional courses.

Course Outcomes:

- It will enable the earners to understand the conceptual background, need, functions, types and process of Auditing required for ensuring regulatory and normative environment in which auditor operates.
- It will help the learners to identify and understand the auditor's duties, responsibilities, liabilities and apply appropriate audit procedures to test the audit assertions and objectives.
- It will help the learners to imbibe the audit culture, critical thinking and instill analytical skills leading to the enhancement of employability in the auditing domain.
- Learners will able to differentiate between company audit and social audit.

BA PROGRAMME-ENGLISH

COMPULSORY FOUNDATION COURSES B.A./B.S.W/B.A. (HRD) B.A. (SDS) DEGREE PROGRAMMES

Introduction:

The Compulsory Foundation Course in English is spread over four semesters. It aims to provide good foundation in English language and develop an interest in English literature. The structure of the syllabus focuses on the components of grammar, composition and to fine pieces of literature. The programme is expected to cater to the needs of those students who aspire to pursue their higher studies in English.

COURSE OBJECTIVES:

Reading:

To develop an advanced level of reading and comprehension skills. To learn different ways of reading (skimming, scanning, etc.)

To develop critical and reflective reading skills

Writing:

To develop composition skills in English (write essays, stories etc.)

To develop the ability to write letters, CVs, applications, advertisements, dialogues, etc.

To develop the ability to write in English for purposes of study (note making, book reviews, semester papers etc.)

Speaking:

To develop the ability to speak coherently and contribute usefully to a discussion To develop the ability to introduce oneself and others.

To develop the ability to make suitable contextual responses – verbal & non-verbal

PROGRAMME OUTCOMES:

Students of B.A. at the time of graduation will be able to:

1. Take informed actions after looking at ideas from different perspectives
2. Speak, read, write, and listen clearly in person and through electronic media in English and make meaning of the world by connecting with people, ideas, books, media and technology
3. Develop and demonstrate empathetic social concern with an informed awareness of crucial issues
4. Understand, recognize and accept diverse value systems and accept responsibility for the moral dimensions of the decisions
5. Understand issues related to the environment, gender equity and secularism
6. Acquire the ability to engage in independent and life-long learning in a cosmopolitan rapidly progressing society

SEMESTER V **Paper VI: THE TWENTIETH** **CENTURY BASENC 332**

Evaluation – End semester examination 120 marks; Internal Assessment 30 marks (average marks of 2 tests or 1 test and 1 assignment)

Teaching Hours: 5 per week

Total Credits: 03

Total Number of teaching hours per semester: 60

COURSE OBJECTIVES

- To familiarize students with the New literature of England in the early part of the 20th century
- To understand the various concepts and movements that emerged during the period
- To gain insights into the influence of the World Wars on literature
- To acquire an expertise in the the unique poetic devices of the modern period

PROGRAMME OUTCOMES

The student is expected to achieve the following:

- Understand the literature of the early 20th century
- Gain insight into the result of various movements and its impact on society and literature
- A fair understanding of modernism and symbolism through the study of poets like G.M. Hopkins,

SEMESTER V
Paper V: SHAKESPEARE
BASENC 331

Evaluation – End semester examination 120 marks; Internal Assessment 30 marks (average marks of 2 tests or 1 test and 1 assignment)

Teaching Hours: 5perweek

Total Credits: 03

Total Number of teaching hours per semester:60

COURSE OBJECTIVES

- To understand the Concept of Tragic Drama
- To gain insight into the History of the sonnet form
- To gain insights into Senecan influence on the English Drama
- To have a comprehensive understanding of the Shakespearean stage, comedy and tragedy
- A close study of Shakespearean Tragedy
- To have a holistic idea of Shakespeare's theatre and plays

CHOICE BASED CREDIT SYSTEM
SEMESTER VI Paper VII: INDIAN WRITING IN ENGLISH
BASENC 381

Evaluation – End semester examination 120 marks; Internal Assessment 30 marks (average marks of 2 tests or 1 test and 1 assignment)

Teaching Hours: 5perweek

Total Credits: 03 Total Number of teaching hours per semester: 60

COURSE OBJECTIVES

- To understand the various features of Indian literature in English
- To gain insight into the inception of English in India
- To comprehend the term 'Colonialism'
- To understand M.K.Gandhi as a writer
- To familiarize the students to Indian English literature

PROGRAMME OUTCOMES

The student is expected to achieve-

- Exposure to various features of Indian literature in English
 - Get insight into the colonial influence on Indian literature and growth of English in India
 - Get a glimpse of Indianness reflected in the Indian literature in English
 - A familiarity with writings of M.K. Gandhi and other representative writers
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Paper VIII: AMERICAN LITERATURE

BASENC 382

Evaluation – End semester examination 120 marks; Internal Assessment 30 marks (average marks of 2 tests or 1 test and 1 assignment)

Teaching Hours: 5 per week

Total Credits: 03

Total Number of teaching hours per semester: 60

COURSE OBJECTIVES

- To understand the historical background of American Literature and the American Dream.
- To get an idea of the socio-cultural and political events responsible for the development in American literary history
- To get insights into the society, politics and art and its impact on literature.
- Develop an appreciation of multiple culture and literature

PROGRAMME OUTCOMES

The student is expected to achieve the following:-

- Insights into the historical background of American literature and American Dream.
- understanding of the socio-cultural, political events and how they shaped American literature
- Exposure to American English Vocabulary
- An understanding of American Society through the works of American poets, novelists and playwrights

BA PROGRAMME – HINDI

I. PROGRAMME OUT COME REPORT

Hindi core course is offered at graduation level to the under graduates for three years (VI Semesters) under B.A. Programme and Hindi Elective paper is also offered for three semesters. One Hindi open Elective paper for one semester (IVth) for the graduates of all discipline. We also offer 2 years i.e., 4 Semester compulsory foundation Hindi language course for BA/BSc/BCom/BBA/BCA.

- | | | |
|---|-----------------------------------|---|
| 1 | Introduction to contents of Hindi | To offer learning opportunities to orient the students towards the Scientific and humanistic study of the Hindi language. |
| 2 | Conversational Hindi | Creating a language environment for students to acquire the language skills assessed by their conversation and usage of the language. |

3	Personality Development	Help shaping affective and behavioral abilities of students for building responsible academic professionals and researchers.
4	Best of the past	Imparting knowledge of basic living and concepts from ancient literature which is timeless and still applicable to the society.
5	Life skills	Facilitating acquisition of basic skills in major areas and application of leadership, communication, research aptitude, behavioral modification.
6	Intellectual capacity building	Helping students master the basic analytical and critical thinking and competencies.

II. PROGRAMME SPECIFIC OUTCOME

- PSO:1** Understanding the relation between society and literature and to analyse the role played by Hindi literature in past and present scenario.
- PSO:2** Developing the skill of writing official letters in functional Hindi.
- PSO : 3** Developing the philosophy of life inspired by the vision of eminent writers.
- PSO : 4** Identifying the nature and character of person through his actions.
- PSO : 5** Gaining Socio cultural consciousness.
- PSO : 6** Exploring, analyzing & Enriching the self knowledge.
- PSO :7** To understand the basic concept and subject of Hindi Literature.
- PSO : 8** Evaluating the concept of Hindi from past to present and making the society more close through literature.

III. COURSE OBJECTIVES:

- 1) To impart the knowledge on National language to inculcate Nationality in the younger generation.
- 2) To help students to achieve a good career after graduation.
- 3) To prepare students to stand in good professional, vocational and higher education.
- 4) To bring about an integrated development of personality of the students.
- 5) To give an exposure to the structure of Indian Culture & History.
- 6) To bring out the relevance of literature as an important discipline in today multicultural social conditions.
- 7) To develop an appreciation of traditional practices that is lying out due to modernization.

UG PROGRAMME-MATHEMATICS

Program outcomes:

On successful completion of the program, the student will be able to -

- Verbally communicate mathematical ideas, write logically sound proof, accurately work with formulae and numerical information.
- Apply solving techniques of differential equations in Mathematics, Physics, Chemistry and Biology.
- Understand the actual theories behind solving techniques of problems in Algebra.
- Connect theoretical and practical aspects of Mathematics.
- To solve problems in the post graduate entrance exams with ease.
- Aspire and prepare for Master's in Computer application.
- Acquire mathematical skill set to clear various aptitude tests conducted by multi-national companies.

Program specific outcomes:

- The syllabus imparts about 30 of technical skills.
- Student will be acquiring knowledge to compete at national and international level.
- Employability will be improved with the knowledge of Mathematical software's.
- Domain knowledge will be upgraded with the knowledge of applications.
- Student will be able to handle the challenges due to updation of softwares.

Practicals for IV Semester

Practicals: Lab IV

Mathematics practicals with Free and Open Source Software (FOSS) tools for computer programs

Course Objectives:

- To learn programming skills in Scilab/Maxima through listed programs.
- To apply the programming skills in Science and Engineering problems.

Course Outcomes:

Students will have the knowledge and skills to implement the programs listed below in the Scilab/Maxima programming language. They can be expected to apply those programming skills of computation in science and Engineering.

VI Semester

BSCMTC381	Course VII: Numerical Analysis (Compulsory Course)	2 Credits (36 Hours, 3 hours/week)
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Course Objectives:

- To develop basic understanding of numerical algorithms and skills to implement algorithms to solve mathematical problems on computer using Wx Maxima software.
- To solve problems in the field of applied mathematics, theoretical physics and engineering which requires computing of numerical results using certain raw data.
- To introduce the basic concepts of solving algebraic and transcendental equations.
- To introduce the numerical techniques of interpolation.
- To acquaint the student with understanding of numerical techniques of differentiation and integration which plays an important role in engineering and technology disciplines.
- To acquaint the knowledge of various techniques and methods of solving ordinary differential equations.

Course Outcomes:

On successful completion of the course, a student will be able :

- To demonstrate understanding of common numerical methods and how they are used to obtain approximate solutions to otherwise intractable mathematical problems.
- To derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration, the solution of linear and non-linear equations and the solution of differential equations.
- To analyse and evaluate the accuracy of common numerical methods.
- To implement numerical methods in Wx Maxima software.
- To write efficient, well-documented Wx Maxima code and present numerical results in an informative way.

Practicals for VI Semester

Practicals: Lab VI

Mathematics practicals with Free and Open Source Software (FOSS) tools for computer programs

Course Objectives:

- To learn programming skills in Scilab/Maxima through listed programs.
- To apply the programming skills in Science and Engineering problems.

Course Outcomes:

Students will have the knowledge and skills to implement the programs listed below in the Scilab/Maxima programming language. They can be expected to apply these programming skills of computation in science and Engineering.

BSC- PHYSICS PROGRAMME

Programme Learning Outcome (PLO)

- PLO1. Physics knowledge:** The programme creates a comprehensive scientific knowledge and this will help to understand, explain, and to solve advanced scientific problems.
- PLO2. Problem analysis:** Identify, formulate and analyze advanced problems in physics.
- PLO3. Design/development of solutions:** Design solutions for complex problems using the knowledge of physics.
- PLO4. Conduct investigations of complex problems:** Use methodology and knowledge of physics to design innovative experiments, analyze and interpret the data.
- PLO5. Modern tool usage:** To apply modern experimental and theoretical tools of physics along with modern computation technology to predict and model advanced problems in physics.
- PLO6. Physics and society:** Apply the knowledge of physics to critically assess and analyze the problems of society.
- PLO7. Environment and sustainability:** To ensure that the principles of Physics to maintain and sustain the environment.
- PLO8. Ethics:** Apply and commit to professional ethics of physics.
- PLO9. Communication:** Effectively communicate the knowledge of physics to community and to society through effective presentation, reports and documentation.
- PLO10. Project management:** To use the knowledge of physics to form the project related to Physics or multidisciplinary nature and successfully execute.
- PLO11. Life-long learning:** Recognize the need to engage in independent and life-long learning in the context of scientific/ technological change.

Programme Specific outcome (PSO)

PSO1

On completion of the course the students will be able to discuss the wide range of physical phenomena with underlying principles with respect to mechanics, thermal physics, relativity, astrophysics, optics, modern physics, condensed matter physics, electronics and nuclear physics both scientifically and in the wider perspective to the community.

PSO2

The current status of physics and associated developments can be understood and able to explain systematically.

PSO3

Able to solve physics related problems and demonstrate the physics phenomenon through experiments.

PSO4

Well equipped to clear national level and state level qualifying examinations for research and teaching at graduate and postgraduate levels.

PSO5

The knowledge acquired during the course would also make the students able to pursue their higher studies as well as to use their knowledge to get into good Higher education institutes, R & D and industrial sector.

V Semester

BSCPHC 331: Modern Physics (4 hrs/week; Total 48 hrs)

Course objective

- To revise Dual Nature of Matter & elementary concepts of Quantum Mechanics.
- To discuss Uncertainty principle and time dependent Schrodinger wave equation.
- To study the application of Schrodinger equation in different systems.
- To introduce various atomic models and atomic spectra.
- To introduce basic concepts of molecular spectra.
- To introduce elementary concepts of scattering.
- To develop problem solving skill in Quantum mechanics, Atomic and molecular spectra, and scattering.

Course outcome

- CO1 Understanding to explain Dual Nature of Matter & elementary concepts of Quantum Mechanics.
- CO2 Derive Uncertainty principle and time dependent Schrodinger wave equation.
- CO3 Apply Schrodinger equation in different systems.
- CO4 Explain various atomic models, atomic spectra and molecular spectra.
- CO5 Discuss elementary concepts of scattering.
- CO6 Solve problems on Quantum mechanics, Atomic and molecular spectra, and scattering.

V Semester

BSCPHC 332: Condensed Matter Physics (4 hrs/week; Total 48 hrs)

Course Objective

- To introduce advanced concepts of Statistical Physics.
- To provide basic understanding of Specific Heat & Free electron theory.
- To discuss Hall Effect and Measurement of Hall co-efficient.
- To describe the Band theory of solids in detail.
- To study the construction and working of BJT and FET.
- To solve problems on Statistical Physics, Specific Heat & Free electron theory, Hall Effect & Band Theory of Solids, BJT& FET.

Course outcomes

- CO1 Knowledge on the concepts of Statistical Physics.
- CO2 Understanding of Specific Heat & Free electron theory.
- CO3 Discuss Hall Effect and Measurement of Hall co-efficient.
- CO4 Knowledge on the Band theory of solids.
- CO5 Knowledge on the construction and working of BJT and FET.
- CO6 To be able to solve problems on Statistical Physics, Specific Heat & Free electron theory, Hall Effect & Band Theory of Solids, BJT& FET.

Physics Practicals V; V Sem B.Sc. BSC/PHP 333

Course Objectives

- To study Series resonance, Andersons bridge.
- To demonstrate Thermistor, Earth inductor, Hysteresis, OR, AND, NOT, NOR & NOT gates using discrete components), Zener voltage regulator.
- To evaluate Resolving power of grating, Intensity of a spectral line.
- To determine Cauchy's constant, Specific charge of an electron, Planks constant using LED.
- To verify Transistor characteristics.
- To analyze Biprism.

Course Outcomes

- CO1 Understanding of Series resonance and Andersons bridge.
- CO2 Demonstrate Thermistor, Earth inductor, Hysteresis, OR, AND, NOT, NOR & NOT gates using discrete components), Zener voltage regulator.
- CO3 Understanding of Resolving power of grating, Intensity of a spectral line.
- CO4 Knowledge to Determine Cauchy's constant, Specific charge of an electron, Planks constant using LED.
- CO5 To know the method to Verify Transistor characteristics.
- CO6 Knowledge on the working of Biprism.

VI Semester

BSC/PHC 381: Nuclear Physics (4 hrs/week; Total 48 hrs)

Course Objectives

- To discuss equilibrium in radioactive series, Geiger-Nuttal law and interaction of radiation with matter.
- To introduce nuclear forces, model of nucleus and meson theory.
- To illustrate nuclear fusion and its application.
- To provide basic understanding of Particle Accelerators & Detectors.
- To familiarize the concepts of cosmic rays and Fundamental Particles.
- To develop problem solving skill in nuclear physics.

Course outcome

- CO1 Understanding on radioactive equilibrium, Geiger-Nuttal law and interaction of radiation with matter.
- CO2 Describe nuclear forces, model of nucleus and meson theory.
- CO3 Explain nuclear fusion and its application.
- CO4 Knowledge on the working of various types of particles accelerators and Detectors.
- CO5 Understanding of basic concepts of cosmic rays and fundamental particles.
- CO 6 Ability to solve problems of nuclear physics.

VI Semester

BSCPHC 382: Electronics (4 hrs/week; Total 48 hrs)

Course Objective

- To introduce concepts of OP-AMP and their application.
- To discuss Regulated Power Supply & Oscillators.
- To provide basic understanding of Boolean algebra.
- To introduce flip flops.
- To discuss the basic communication electronics and the role of ionosphere.
- To develop problem solving skill in electronics.

Course Outcomes

- CO1 Understanding on the concept and applications of OP-AMP.
- CO2 Knowledge on Regulated Power Supply & Oscillators.
- CO3 Understanding on the concepts in Boolean algebra.
- CO4 To be able to construct flip flops.
- CO5 Knowledge on basic communication electronics and the role of ionosphere.
- CO6 Ability to solve problems of electronics.

Physics Practicals VI; VI Sem B.Sc. BSCPHC 383

Course Objectives

- To study Parallel resonance, OP-amp, G M counter.
- To demonstrate Bridge rectifier, CE amplifier, Wein bridge oscillator, M & C by Carey - foster bridge, Basics Logic gates Using NAND gates.
- To evaluate Rydberg Constant.
- To determine Capacity of C using B G.
- To verify Mutual inductance -BG, Stefan's law, Half adder & full adder.
- To analyze Square wave.

Course Outcomes

- CO1 Understanding on Parallel resonance, OP-amp, G M counter.
- CO2 Demonstrate Bridge rectifier, CE amplifier, Wein bridge oscillator, M & C by Carey - foster bridge, Basics Logic gates Using NAND gates.
- CO3 Understanding on the significance of Rydberg Constant.
- CO4 Expertise to determine Capacity of C using B G.
- CO5 Ability to Verify Mutual inductance -BG, Stefan's law, Half adder & full adder.
- CO6 Knowledge on Square wave.

I PREAMBLE:

Psychology is not just an academic subject that exists only in classrooms, research labs and mental health institutions. It is a scientific field that aims at understanding human nature and behaviour. Knowledge of Psychology helps understand one's own strengths and weaknesses by giving practical experiences. It gives awareness about social and psychological problems faced in general and prepares the student to face everyday challenges by exposing him/her to coping strategies. Moreover makes the student realize that an aim is attainable. It is a powerful force that influences all our activities in every walk of our life.

II. Programme Outcome:

- To foster interest in psychology and create foundation for further studies in Psychology
- To impart knowledge of the basic concepts and various perspectives of psychology.
- To create an awareness of factors influencing behaviour
- To understand matters relating to stages of Human development
- To familiarize students with criteria of abnormal behaviour
- To give an over view of mental disorders and possible ways of handling them
- To acquaint the students with nature of work behaviour, and to help the students in the use of this in understanding and increasing efficiency.
- To attain skills of interaction with supervisory and managerial personnel in terms of training, counseling and problem solving relationships.

V SEMESTER

Social Psychology Course V BASPVC331

48 hrs (4 hrs/week)

Course Objectives:

- To know the significance of Interpersonal Relationship
- To understand the concept of prosocial behaviour and related aspects
- To understand the various social issues like attitude, prejudice and discrimination
- To acquire knowledge about role of aggression on Behaviour

Course Outcomes:

- ✓ Apply the knowledge of social Psychology in dynamic social situations.
- ✓ Articulate the experiences, thoughts, feelings in interpersonal relationships.
- ✓ Demonstrate cordial relations in society and work without prejudice and discrimination.
- ✓ Know and manage the aggressive and offensive behaviours.

V SEMESTER

Abnormal Psychology Course VI BASPYC332

48 hrs (4 hrs/week)

Course Objectives:

- To impart knowledge about the difference between normality and abnormality
- To have an overview of criteria of abnormality and overcome misconceptions of abnormal behaviour
- To familiarize students with symptoms and causes of prevailing mental disorders as per International classifications of mental disorders.
- To bring awareness about rehabilitation and therapies available.

Course Outcomes:

- ✓ Identify the Psychological imbalances in the society.
- ✓ Prevent mental illnesses and maintain their Psychological health by understanding the reasons for mental illness.
- ✓ Create awareness about mental illness and preventive methods among their family members.
- ✓ Enhance their personality by overcoming the conflicts and frustration in life.

VI SEMESTER

Health Psychology Course VII BASPYC 381

48 hrs (4 hrs/week)

Course Objectives:

- To acquaint the students about the need of health psychology and the health related behaviors
- To understand the impact of stress on health
- To have awareness about health damaging and health promoting life styles
- To attain and maintain ones health by means of coping strategies

Course Outcomes:

- ✓ Creates awareness about emerging field of health Psychology.
- ✓ Makes the student know better about how the psychological functioning creates somatic disorders.
- ✓ Helps students to adopt health enhancing behaviours.
- ✓ Helps develop effective coping skills towards everyday problems.

VI SEMESTER

Organizational Behaviour Course VIII BASPYC382

48 hrs (4 hrs/week)

Course Objectives:

- To introduce the students to the field of industrial/ organizational Psychology
- To know the importance of Psychology at workplace
- To apply the knowledge gained about Industrial Psychology in the work place
- To understand the role of leadership and motivation at work place

Course Outcomes:

- ✓ Apply knowledge of industrial and organisational Psychology in their career as HR Managers, and ensure cordial human relations.
- ✓ Execute various Psychological tests and appraisal methods in corporate sector.
- ✓ Show the appropriate discerning ability in their day-to-day life.
- ✓ Apply terms and concepts concerning motivation and leadership in counselling and in reducing stress and conflicts.

UG PROGRAMME- SANSKRIT

General Objectives of Sanskrit U.G. Programme:

1. The primary aim of any discipline of education is to help to develop the wholesome personality. This programme aims at the same target.
2. The programme aims at the infusion of spiritual and human values.
3. In order to assist the student to develop a good character.
4. In order to acquaint the student in the field of literature and humanity which make them sensitive and sensible enough.

Programme Outcomes:

The students exhibit the ability to:

1. Reading and understanding Sanskrit Texts.
2. Understanding the Sanskrit grammar.
3. Reading the history of Sanskrit literature.
4. Understanding the Sanskrit culture.

V Semester BA (Optional) BASSKC331

Objective:

- To enable the students to know *Alankarashastram* and *Prasady*.

Outcome:

- Students would be able to understand the *Alankarashastram* and *Prasady*.

V Semester BA (Optional) BASSKC332

Objective:

- This course aims at introducing *Prasthanatrayas* as depicted in Sanskrit Literature.

Outcome:

- Students would be able to understand *Prasthanatrayas* of Sanskrit Literature.

VI Sem BASSKC 381

Objective:

- Grammar Constructs major factor in Sanskrit Literature and introduction to Grammatical text are done.

Outcome:

- Students would be able to know the grammar tradition of Sanskrit Literature.

VI BASSKC382

Objective:

- Students are introduced *Darshana* literature. (Philosophy)

Outcome:

- Students would be able to understand the philosophical ideas in Sanskrit Literature.

UG PROGRAMME- SOCIALWORK

Mangalore University
DEPARTMENT OF SOCIAL WORK

U.G Programme Specific outcomes

Programme outcomes:

The programme outcomes are based on the social issues and concerns based on the overwhelming cultural and social realities in the real life work settings. Based on this premise pivotal importance is given to fieldwork practicum which accounts for about 40% of the time, which is earmarked for it. Social Work practices are based on liberalism, freedom, rule of law, human rights, and gender and child rights. This complex mechanism is used in contrast of social work practice in the field.

Course Outcomes:

The course outcomes are based on the methods of social work which is designated as hard core courses which builds the framework of Social Work practices. The students are required to have the ability to demonstrate advanced knowledge and field on the synergies of each Social Work methods to develop in them core social work competencies.

The students are enhanced in the field of professional Social Work by attaining the skills and competencies which are achieved through concurrent fieldwork practicum and practice based learning. The learning process which involves group discussions, individual presentation, street play, and theme based mime shows, participatory rural appraisal task, team building activities, case study presentation, field work conferences, management games, group development activities and so on. Students are encouraged to organize need based programme independently and with collaboration of other reputed institutions and hospitals at their field work placement region which will in turn make them self-reliant and confident to face the challenges in their near future. Students are also motivated to develop sense of dedication and commitment towards rendering their professional help for the poor, underprivileged and disadvantaged sections of the society.

Objectives of the Course:

1. To impart education and training in Professional Social work to those desirous of making a career in the field of Social work.
2. To provide inter-disciplinary collaboration for better understanding of human problems, services and issues related to human development.
3. To provide opportunities through intensive field practicum to work with variety of people in their development and provide service to those who are in need.

To promote among students a sense of dedication and commitment for appropriate service to the cause of the poor, under privileged and disadvantaged sections of the society.

BA – SOCIOLOGY PROGRAMME

BA Degree Courses in Choice Based Credit System

General Objectives:

1. To equip the students with latest sociological knowledge pertaining to various sub-fields within the discipline of sociology.
2. To orient the students for comprehending and assessing the social reality from sociological perspective.
3. To inculcate the research aptitude and relevant skills in the students useful for their social and professional life.
4. To prepare the students for take up research, jobs as well as prepare for various competitive examinations.

Programme Outcome:

- PO1 BA Degree with other two disciplines in social sciences (3 major)
- PO2 Research skills in social science research
- PO3 Understand human society in general and Indian society in particular
- PO4 Analytical skills in sociological perspectives
- PO5 Social placement with adaptive interpersonal skills

Programme Specific Outcome:

The Courses in Sociology are to prepare the candidates to equip the employability skills and to acquire comprehensive knowledge on human life and social analysis. The curricula are prepared to teach the candidate the

- PSO 1 Employability skills for efficient service,
- PSO 2 Research skills to take up research or projects works.
- PSO 3 Serve in Development agencies,
- PSO 4 Work with Legal firms and correction centers
- PSO 5 Take up independent choice as entrepreneurs.
- PSO 6 Skills to face the social reality confidently.
- PSO 7 Exposure to students on special and new streams in Sociology.
- PSO 8 Field work research through Project Work

V Semester

BASSOC 331 : Development of Sociological Thought

Course Objectives: this course will help the students

- 1 To familiarize with the social, political, and intellectual contexts of the emergence of sociology.
- 2 To gain an understanding of some of the classical contributions in sociology.
- 3 To know the theoretical foundations of Sociology.
- 4 To develop critical thinking, analytical ability to interpret the social scenario.
- 5 Understand the linkage between the social changes in the economic and social systems and the emergence of discipline of Sociology.
- 6 Develop insights for understanding the later developments in sociological theory.
- 7 Learn the historical, socio-economic and intellectual forces in the rise of sociological theory.
- 8 Understand the sociological theories of Auguste Comte, Herbert Spencer, Karl Marx, Max Weber and Emile Durkheim.

Course Outcome:

- CO1. Understand the emergence of Sociology.
- CO2. Know the foundations of Sociology.
- CO3. Understand the contributions of early sociologists.
- CO4. Impart critical thinking
- CO5. Inculcate analytical ability to interpret the social scenario.
- CO6. Understand the forces in the rise of sociological theory.
- CO7. Understand the concepts of early sociologists

BASSOC 332 : Basics of Social Research

Course Objectives: this course will help the students to

1. Understand the nature of social phenomena and the issues involved in social research.
2. Study of research methods as a means of understanding social reality.
3. Exposure to the fundamentals of techniques and methods in social research.
4. Learn the methods of data collection, analysis and report writing.
5. Introduction to the philosophical foundations of social research.
6. Acquaintance with the quantitative and qualitative strategies of research.

Course Outcome:

- CO1. Learn social research and the ways and means of studying social reality.
- CO2. Study of research methods and research techniques.
- CO3. Understand the Philosophical foundations of social research.
- CO4. Understanding of issues involved in social research.
- CO5. Exposure to the various research techniques and methods.
- CO6. Quantitative and qualitative strategies of research.

VI Semester

BASSOC 381: Social Welfare in India

Course Objectives: this course will help the students

1. To understand the basic concepts in social welfare
2. To study the different welfare programmes in India
3. To study the welfare policies in India
4. To understand social change and development through social welfare.
5. To focus on the segments of the population who are identified as backward and have not received adequate attention.
6. To analyze the welfare programmes carved out for the backward classes.
7. To identify the backward classes among all communities in India.
8. To understand the socio-economic problems of the OBCs.
9. To focus on groups and communities which have suffered backwardness, deprivation and discrimination over a period of time.

Course Outcome:

- CO1. Learn basic ideas of welfare programmes in India
- CO2. Understand the welfare programmes for different sections of people
- CO3. Sociological study of Other Backward Classes in India.
- CO4. Understand welfare of youth and women in India.
- CO5. Learn policy implications of welfare programmes.
- CO6. Assess the nature of social exclusion in India.
- CO7. Analyze positive discrimination and welfare measures.

BASSOC 382: Industrial Sociology (Course in lieu of Project Work and dissertation)

Course Objectives: this course will help the students

1. To understand sociology of industry, labour and human relations.
2. To get familiarized with actual problem situations in industrial organization.
3. To impart knowledge on management and organization workers in industry.
4. To study industrial society, industrialization process, and work transformation.
5. To understand the bearing of society and industry on each other.

Course Outcome:

- CO1. Understand industry, labour, human relations and management.
- CO2. Trace problem situations in industrial organisation.
- CO3. Industrial organisation and personnel management
- CO4. Sociology of industry and labour.
- CO5. Industrial organisation and sociological perspectives.
- CO6. Organisation aspect of work and workers in industrial organisation.
- CO7. Industrial society and sociological order.
- CO8. Bearing of society and industry on each other.

BSC-ZOOLOGY PROGRAMME

CORE SUBJECT: ZOOLOGY

Program Outcome: B.Sc.

- Ability to communicate effectively in both oral and written contexts in the form of technical papers, project reports, design documents and seminar presentations.
- Demonstrate knowledge and understanding of essential facts, concepts, principles and theories relating to subject areas.
- Apply ethical principles and commit to professional ethics, responsibilities and norms.
- Develop critical thinking with scientific temper.
- Enhance the research culture in the field of life sciences and uphold the scientific integrity and objectivity.
- Understand the biodiversity and to apply the knowledge to conserve endangered species.
- Acquire basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigation.

Program Specific Outcome: ZOOLOGY

Upon successful completion of three year B.Sc. Programme in Zoology the students will be able to:

- Understand and analyze relationships between structure and function at different levels of biological organization for the various groups of animals.
- Develop deeper understanding of key concepts of zoology such as ethology, physiology, embryology, etc. at organism, cellular, and molecular level.
- Describe the role of taxonomy and systematics in animal studies and gain in-depth knowledge of animals.
- Understand the unity of life with the rich diversity of organisms and their ecological and evolutionary significance.
- Correlate between the various animal habitats and their behavior.
- Generate awareness about the conservation of the biosphere.
- Explore various applied fields of Zoology such as apiculture, fisheries, poultry, vermiculture, dairy farming, etc. and gain in-depth knowledge which enables self-employment.
- Acquire basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigation.
- Organize and deliver the acquired knowledge through effective written, verbal, graphical/virtual communications and interact productively with people from diverse backgrounds.
- Use concepts, tools and techniques related to chemistry and botany to acquire knowledge and its application in zoology.

V SEMESTER B.Sc.: ZOOLOGY (THEORY)
BSCZOC-331: CELL BIOLOGY AND BIOTECHNOLOGY
(Hours of instruction: 3 hours/week. Total: 40 Hrs)

Course Outcome: Upon completion of the course the students will be able to:

1. Understand the structure of cells and cell organelles in relation to the functional aspects and understanding of the working principles and applications of microscopes.
2. Understand the structure and functions of chromosomes; the process of cell division and its significance.
3. Gain fundamental knowledge of protein synthesis.
4. Understand the basic aspects of cancer biology.
5. Understand the applications of Biotechnology and be familiar with the tools and techniques of Biotechnology.

V SEMESTER B.Sc.: ZOOLOGY (PRACTICAL)
BSCZOP-333: CELL BIOLOGY AND BIOTECHNOLOGY
(2 Hours/week)

Course Outcome: Upon completion of the course the students will be able to:

1. Use different cytological techniques in the study of cell biology.

1. Study of fixatives and stains:
Formaldehyde (4 to 10%), Alcohol (70% to 100%), Carnoy's solution, Borax carmine (alcoholic), Eosin (alcoholic), Iron Haematoxylin, Acetocarmine, Acetoorcein, Schiff's reagent (Feulgen method), Mordant (4% Iron alum), Giemsa's stain.
(Note: Preparation procedure is to be included in the practical records).
2. Observation of permanent slides of onion root tip to study all stages of mitosis.
3. Observation of permanent slides of grasshopper testis to study various stages of meiosis.
4. Study of permanent slide of salivary gland chromosomes of *Drosophila/Chironomus* larva.
5. Squash preparation of onion root tip to demonstrate stages of mitosis.
6. Squash preparation of grasshopper testis to demonstrate stages of meiosis.
7. Squash preparation of salivary gland chromosomes of *Drosophila/Chironomus* larva.
8. Extraction of DNA from coconut endosperm/chicken liver.
9. Study of different forms of DNA (A, B and Z) and types of RNA (t, r, m); Models or Photos.

V SEMESTER B.Sc.: ZOOLOGY (THEORY)
BSCZOC-332: GENETICS, BIostatISTICS, EVOLUTION AND
PALAEONTOLOGY

(Hours of instruction: 3 hours/week, Total: 40 Hrs)

Course Outcome: Upon completion of the course the students will be able to:

1. Appreciate the contribution of great scientists; distinguish Classical Genetics and Molecular Genetics.
2. Describe the concepts of heredity, chromosomal aberrations, gene regulation and genetic diseases, its inheritance and importance of genetic counseling.
3. Critically analyze, think logically and reason, through solving genetic problems.
4. Able to manage the statistical data in biological studies.
5. Understand the concept of evolution through Lamarckism, Darwinism and Neo-Darwinism.
6. Understand the Geological time scale, fossils and their significance.

VI SEMESTER B.Sc.: ZOOLOGY (THEORY)
BSCZOC-381: REPRODUCTIVE BIOLOGY AND DEVELOPMENTAL
BIOLOGY

(Hours of instruction: 3 hours/week, Total: 40 Hrs)

Course Outcome: Upon completion of the course the students will be able to:

1. Understand the structure and functions of the reproductive systems.
2. Familiar with various stages involved in embryonic development of different organisms including man.
3. Understand the principles of IVF-ET and the importance of it.
4. Familiar with different techniques involved in embryonic studies.

VI SEMESTER B.Sc.: ZOOLOGY (PRACTICAL)
BSCZOP-383: REPRODUCTIVE BIOLOGY AND DEVELOPMENTAL
BIOLOGY

(2 Hours/week)

Course Outcome: Upon completion of the course the students will be able to:

1. Understand basic concepts of embryology through the study of various embryological stages of different animals.
1. Study of different types of eggs and sperms:
Type of eggs: Insect, amphioxus, frog, chick and human (any 4)
Type of sperms: Frog, domestic fowl, rat, mouse and human (any 4).
2. Stages of development of frog: Study of cleavage stages, blastula, gastrula and neurula (sections) and various stages of tadpole.
3. Study of permanent slides of chick embryos: 18 hrs, 24 hrs, 36 hrs and 48 hrs (W.M); T.S. of 18 hrs and 24 hrs chick embryos.
4. Study of permanent slides/charts of histological types of placenta (All five)
5. Study of charts or models of morphological types of placenta: Diffuse, cotyledonary, intermediate, zotary and discoidal placenta.
6. Whole mount preparation (Permanent)
 - a. Mosquito larvae.
 - b. Zoa, Nauplius, Mysid.


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