Prasanta Chandra Mahalanobis Mahavidyalaya



ISO 2015:9001 Certified Institution

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E-mail :pcmm.principal@gmail.com Website: www.pcmm.edu.in

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PROGRAMME OUTCOMES (POS) AND COURSE OUTCOMES (COS) FOR ALL PROGRAMMES OFFERED BY THE INSTITUTION ARE STATED AND DISPLAYED ON WEBSITE

I. INTRODUCTION: The focus in teaching-learning mechanism has now been shifted to Outcome-based learning, and therefore adequate emphasis has now been placed upon the way these outcome-based learning be achieved.Our institution believes that a detailed and comprehensive set of Outcomes and Objectives for broad-based Streams, Programmes and Courses have to be designed, formulated and circulated before the commencement of the Teaching-Learning process. At the end of the Programme duration, it has to be evaluated if the outcomes have been achieved by Direct and Indirect Evaluation mechanisms.The students need to know what they are expected to attain after the completion of a particular course or programme.

II. OBJECTIVES: The college enlisted and detailed the i) Broad-based Programme Outcomes (POs) for B.A., B.Sc., B.Com. students ii) Course





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Outcomes (COs) for the various courses enlisted in the curriculum of the various Programmes.

III. Programme Outcome & Course Outcome: An Overview : It is imperative to say that students must be aware of the concept of Learning Outcomes before getting to know the details of POs and COs. Ordinarily speaking learning outcomes refer to the different stages of understanding and/or learning of anything, right from the conceptual understanding to creativity, considered to be the highest form of learning. This idea may be traced to the internationally recognized and accepted list of Learning Outcomes (LOs) as designed by Bloom's Taxonomy. The original Bloom's Taxonomy was designed back in 1956 to denote the hierarchical learning levels in Cognitive Domain. The Bloom's Taxonomy of Cognitive Learning Outcomes in 2001 with a rearrangement in the hierarchies of the Learning outcomes. As an institution, Prasanta Chandra Mahalanobis Mahavidyalaya strives to ensure the environment that would facilitate students in achieving the highest levels of Learning Outcomes at the top of the pyramid) starting from the foundation layer.

After due discussion among the Faculty Members, IQAC and other stakeholders, the Programme Outcomes (POs) were enlisted.

The Programme Outcomes (POs) and Course Outcomes (COs) designed by each Department are attached along with this document.

DISPLAYING OF PROGRAMME OUTCOMES AND COURSE OUTCOMES IN THE COLLEGE WEBSITE AND CIRCULATION THROUGH NOTICE BOARD IN COLLEGES

The entire set of Documents, including Departmental UG based POs and COs documents are uploaded in the College website under a separate tab (within Academics tab) for widespread circulation amongst all the stakeholders. The Faculty members also circulated these documents amongst the students and

Protection Protection 111/3, 18, 11. Road, Kolkata-108



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encouraged them to go through them in detail to have a detailed understanding of the Curriculum's Objectives.

The web-link (URL) :

Course outcomes:

<u>https://pcmm.edu.in/index.php?option=com_content&view=article&id=188&</u> <u>Itemid=0</u>

Programme outcomes:

https://pcmm.edu.in/index.php?option=com_content&view=article&id=187& Itemid=0

The screenshot for the same is given below –

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To ensure widespread circulation of the PO and CO documents amongst the students, the College published notifications for the students regarding the same in **college Notice boards** as evidenced by pictures below:





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Phatipal Presente Chendro Mahalanobis Mahavdyskya 111/3, B. T. Road, Kolketa-108



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PROGRAMME OUTCOME

B.Sc. in FOOD AND NUTRITION

- 1. The programme provides basic understanding of the role of nutrition at various stages of life.
- 2. The students will learn the human physiology, food biochemistry and food microbiology which will help them to understand the role of nutrition in different diseased conditions.
- 3. The programme will help to impart knowledge regarding etiology and management of nutritional disorders preventing nutritional deficiencies.
- 4. The programme provides in depth understanding of the role of food under specific diseased conditions and how different dietary modifications can help a person to recover.
- 5. The programme will familiarize the students about the spoilage, processing and preservation techniques of pulses, oilseeds, spices, fruits and vegetables, meat, fish, poultry, milk & milk products.
- 6. The programme will make them aware about the importance of community nutrition, therapeutic nutrition, public health, food safety, food quality, food laws and regulations.
- 7. The students will get introduced to the different skill development techniques and training on equipments and measures utilized in practical field.
- 8. This interdisciplinary nature of the programme enriches them w.r.t nutritional, biochemical, microbiological, technological, dietary and public health aspects of food and health.

B.SC. in MATHEMATICS

Students will be able to

- Formulate and develop mathematical arguments in a logical manner.
- Acquire good knowledge and understanding in advanced areas of mathematics and statistics, chosen by them from the given courses.
- Understand, formulate and use quantitative models arising in social science, business and other contexts.

- Enhance overall development and equip them with mathematical modeling abilities, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
- Ability to pursue advanced studies and research in pure and applied mathematical science.

Job Opportunity

After completion of B.Sc in Mathematics

- > One can go for B.Ed and clear SSC.
- If the student desire to go for B.TECH /MCA/MBA then IT sector, Management company will be open to him/her.
- Getting job in banking sector will be easier. Besdides , jobs through other competitive exams will also be a great opportunity.
- Pursue M.Sc in Mathematics and clear NET/SET and completion of PhD will lead the path to become an academician (scientist/professor).

B.SC. in GEOGRAPHY

After successful completion of the three-year B.Sc/ B.A.. (Honours) degree program in **Geography**, students should be able to achieve the following objectives/ outcomes:

Program Specific Outcomes (PSO):

- Develop a strong foundation of Geotectonics, Geomorphology, Biogeography, Soil Geography and instrumentation techniques and their applications to examine and appreciate the inherent complexity of landscape systems at micro level.
- Conceptualise the basic atmospheric and climatic phenomena of the earth and their effect on man. Develop advanced level concepts of Remote Sensing and Geographical Information System and their applications in present day situation.
- Understand the principles and applications of Hydrology and Oceanography to address water resource and environment related problems. Conceptualise the Social, Cultural, Political, Settlement Geography and the ethical considerations associated with their environmental impact. Make a knowledge base of the development of Geography by going through Geographical Thought.
- Undertake an analytical approach to design and complete field work in the above areas following land use and questionnaire survey. Be competent to acquire, analyse and interpret the statistical data to arrive at unbiased conclusions about problems and devise alternatives to existing procedures.

Program Outcome

- To impart English-medium based undergraduate level education that is Bachelor Degree in Science and Arts courses in accordance with affiliating University's Curriculum and the UGC Guidelines.
- Understanding and Correlating between Theoretical and Experimental aspects of the subjects (highly essential for Laboratory based subjects).
- Developing concepts in Pure Subjects along with Applied and Interdisciplinary Subject Areas for Real Life Applications.
- Identify various Academic and Professional areas.
- Catering to the needs of Present Day Problems & allied Thrust Areas and Service to Human Race.

Program Special Outcome (PSO)

- The study of Geomorphology helps to gain an insight into the processes of landform development and geomorphic hazards. A possible outcome is their eligibility for Environmental and Hazard Management Projects.
- The branches of Economic Geography and Human Geography make them capable of identifying the development prerogatives of regions and applying them in formulation of regional development plans.
- The study of Urban Geography prepares them in the field of Urban Planning. Geographers can thus have their say in Urban Development Boards.
- Demographic Analysis becomes an integral part of Geography through the branch of Population Geography. The implications of population structures, growth and migration are studied. They are thus made eligible for their contribution in Population Policies and Census Data Collection and Analysis.
- The specialization in Remote Sensing and use of Geographical Information System softwares train them for recruitment in Government Space Application Projects that use GIS and satellite image interpretations for resource mapping and planning.
- Biogeography (Soil Geography and Zoogeography) introduces the students to the characteristics of soil regions, floral and faunal regions. This holistic knowledge makes them capable of assessing and developing forestry projects, wildlife conservation plans and probable land use policies of rural areas.

B.SC. in ECONOMICS

B.Sc. Three Year, Six Semester Honours and General Degree Programme in Economics Under West Bengal State University

From the Academic Session 2016-17, CBCS was introduced by the West Bengal State University, which is our affiliating University at present. The first batch of students under the newly introduce semester system is, therefore, supposed to complete semesterexam in graduation in the year 2019. It thus appears difficult to measure Programme Specific Outcome on definite terms. Besides, the University itself is yet to provide concrete Programme Specific Outcomes to its affiliated colleges. However, our esteemedteacher of the Department of Economics ponders over the current syllabus and tried to chalk out some specific outcomes of B.Sc., three year, six semesters Honours Degree andGeneral Degree Programme of their own. Such expected Programme Specific Outcomesmay be listed as follows:

 a) After completing 3 years (six semesters) for B.Sc. honours and general students in economics would gain a through grounding in the fundamentals of economy.

b) The economics focused curriculum offers a number of specialization and practical exposures which would equip the student to face the modern day challenges in Economy, Trade, Commerce and Business.

c)The all-inclusive outlook of the course offer a number of value based and job oriented courses ensures that student are trained into up to date.

d) Student will be able to demonstrate the progress learning of various tax issue and tax reforms related to individual. Student will able to demonstrate knowledge in setting up a computerized set of economical accounting activities and also accounting books.

e) Student will demonstrate progressive affective domain development of values, the role of economy and accounting in society and business and also understand economic base and structure of the country even whole world. Student will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future career in business.

f) Student will be able to prove proficiency with the ability to engage in competitive exams like banking, Indian Economic Service, LIC, Insurance sector, Account and Audit service, CA, CS, CMA and other courses. Student will be able to recognize features and roles of businessmen, entrepreneur, managers, consultant which will help learners to process and other soft skills and to react efficiently

when confronted with critical decision making. Student will understandhow a well develop economy can be formed and what are necessary activities for smooth running economic activities and also acquire knowledge about economics.

 g) After completing graduation on economics, students can apply for banking service, business and also all the services related with economics. They can alsostart new business and develop their existing family business.

B.A. in EDUCATION

Education is the subject to study if you are interested in becoming a teacher, but it is also somuch more than that. It is an interdisciplinary subject. This course is aimed at students whohave a broad interest in the field of education. The subject of Education Studies is concerned with the complex and contested nature of education in its widest sense. The emergence of national schooling and other tertiary systems has meant that education is an issue of economic, political, individual and social concern both locally and globally. Education Studies offers an excellent study option for those looking for careers in the broad educational field, including those who are keen to go on to teach in schools. The degree opens up a variety of routes via post graduate study into teaching but also equips graduates for careers ineducational publishing, educational research, further academic study, work with welfare based organisations, learning support opportunities, charities and other voluntary based groups. Students are also well prepared to continue their academic career via Masters and Doctoral programmes if they choose.

The overall aims of the Programme are:

1. Explore the underpinning fundamentals of education including historical and social developments both past and present, and the philosophical, psychological and sociological theories on which modern education has been established.

2. Consider a range of educational systems and settings, selected from local, national and international examples, with scope for pursuing students own particular professional interests.

3. Develop a critical understanding of educational environments and approaches in relation to social justice, social policy and educational diversity.

4. Develop and deepen an understanding of the practices of teaching and learning in a rangeof educational settings.

5. Recognise and evaluate the process of human learning and the impact learning and education have not only within schools and other formal educational institutions but also within the wider

social context, as learners progress and change from childhood and adolescence to adult life.

6. Cultivate a critical perspective on contemporary education and consider the possible directions of its future development.

7. Critically reflect on personal values in relation to education and make connections to the assumptions made within educational contexts.

8. Complete research enquiries on educational issues and in educational settings, demonstrating critical thinking and skills to effectively design, complete and report on educational research, including the collection and analysis of numerical or narrative data that reaches balanced conclusions positioned within the existing literature.

9. Develop a well-informed, enquiring, analytical and critical disposition towards educational policy and practice.

10. Make links between theory and practice; reflect critically on real-life experiences.

On successful completion of the course students will be able to;

- I. Understand the processes of learning, including some of the key paradigms and their impact on educational practices.
- II. Show awareness of relevant aspects of cultural and linguistic differences and societies; politics and education policies; philosophical underpinnings, including issues of social justice, and their effects on learning.
- III. Show familiarity with formal and informal contexts for learning. Educational contexts will include some understanding of the student's own education system and other education systems.
- IV. Demonstrate the complex interactions between education and its contexts, and relationships with other disciplines and professions.
- V. Achieve the dream of being a teacher, professor in general and training college.
- VI. Get opportunities to be a special educator.
- VII. Get advantages to be a School Inspector and Kinder Garden school teacher.

B.A. in SOCIOLOGY

Why study Sociology as an Undergraduate Student?

Sociologists study the ways in which social structures and interactions shape humanlife. We seek to understand the full range of social institutions and practices, from small groups to large social organizations. Sociology's most distinguishing feature is the methods employed for research, which are diverse, ranging from the quantitative analysis to qualitative approaches, and historical investigation. Thus, sociologists study social interaction in a broad

array of contexts for which they use method is appropriate for the particular question being posed. Sociological ideas and methods are used by policy makers, political analysts, and social critics. Therefore, many of our concepts have become a part of our common lexicon and everyday language.

Concepts often used in various contemporary discourses, like "the self-fulfilling prophecy," "conspicuous consumption," "risk," "social mobility," "modernization," "cultural-lag," and "in-groups" and "out-groups" were all originally coined by sociologists. Moreover, sociology have been studying issues and topics like social inequality, ethnic relations, gender discrimination, and sexual diversity long before these became issues of concern among policy makers and in popular culture. Many popular research techniques, such as polling and survey design, were also pioneered by sociologists. The present course will attempt to introduce wide range of subjects, including crime, law, and deviance; sex and gender; marriage and family; organizations, occupations, and work; population dynamics; justice; science, politics, social movement, and social policy; power and inequality in modern societies; welfare, culture, and education; and social theory. By offering the tools and knowledge to help students make sense of the world around them, the goal is to bring out informed citizens, with expertise in the social sciences, and empowered with an outlook of a socially pro-active leader. Notwithstanding whatever be the plan for future, be it a professional career or postgraduate study in sociology or another social science, students will find a wide range of useful and interesting areas of studyin this course. Students preparing for careers in civil society, law, social work, health, public administration, research and planning, and other professional areas will benefit from this course.

B.A. in HUMAN DEVELOPMENT

Teaching and Research

- Assistant teacher in Higher Secondary Schools for the Subject Family Resource Management
- College Teaching
- Research Opportunities

Early Childhood Care and Education

- Pre-school Teacher
- Programme Planner or Co-ordinator in pre-school
- Academic Co-ordinator in Pre-school
- Childcare Center Director

Child With Special Needs

• Special Educator in schools

- Early Intervention Specialist/Early Childhood Teacher
- Theraputic Recreation Specialist
- Special Education Administrator

Developmental Psychology

- Research facilities
- Elderly assisted living homes
- Teen outreach programs
- Homeless youth programs
- Hospitals
- Psychiatric institutions
- Private practices

Women and Gender Studies

- social worker or counsellor
- teacher in elementary or high school
- instructor or professor in university/college
- researcher in a government department
- project manager in a non-governmental organization (NGO)
- program coordinator in a women's center
- financial planner, with a focus on women's finances
- policy analyst in a governmental or para-governmental organization,
- policy analyst in business and industry or in educational institutions

Geriatric Studies

- Long-term care facilities
- Clinical practices
- Counseling centers
- Hospital services
- Home health services
- Research universities
- Community and government agencies.

Govt. Job Opportunities(ICDS Centres)

- 1. Child Development Project Officer.
- 2. Supervisor
- 3. Anganwadi Worker.

Some of the Areas need special training and Assistance Programme after completion of the course.

B.A. in PHILOSOPHY

The Department of Philosophy seeks to acquaint students with various philosophical traditions, to present the chief philosophic problems and types of Philosophy, major figures of thought and to help students cultivate the art and skill of philosophical analysis as well as the intellectual, and moral virtues of the discipline of Philosophy. Students who take philosophy engage in a systematic and sustained examination of the basic concepts of life, such as justice, knowledge, goodness, the self, meaning, thought, and action important to human existence. They acquire historical perspective on the diversity of human thought and tolerance for the alternative opinions of others. Students develop autonomy in their decision making. Moreover, the Philosophy program inculcates in students a sense of the value and limits of philosophy, a reflective attitude and sensitivity to the subtleties and complexities of philosophical judgments, and a life-long commitment to learning and inquiry.

B.A. in BENGALI

Literature is the reflection of life and society. In every day classes or meetings, the words said by the professors help the students to connect to the real world. By writing proses and poems , students can express their feelings. They can do something by themselves. This builds the way for students to become a writer. They develop a better personality by practicing literature . They develop feelings in their mind which makes them a great person.

B.A. in ENGLISH

The Department follows the syllabus and evaluation pattern as prescribed by the West Bengal State University. A course in B.A. English (Honours) helps the graduates to consolidate their foundation in English literature and prepares them for undertaking further study in postgraduation and subsequently undertaking research. Moreover a very sound foundation in English (honours) helps the students to appear in different competitive examinations namely UPSC, PSC etc. The job opportunity in teaching domain is no less important. Since the CBCS pattern lays emphasis more on the employability of the young graduates, a course in English helps them to shine in various professions like translators/interpreters etc.

DEPARTMENT OF COMMERCE

This program aim to provide students with specific knowledge and skills relevant to their discipline and careers. After completing three years for Bachelors in Commerce (B.Com) program, students would gain a thorough grounding in the fundamentals of Commerce and Finance which offers a number of specializations and practical exposures for the students to face the modern-day challenges in different professional bodies.

This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., to meet the well trained manpower requirements. The broader perspective of this programme offers a number of value based and job oriented courses which ensure that the students are trained into up-to-date. In advanced accounting courses beyond the introductory level, provide students with the analytical, evaluative and problem-solving skills commensurate with degree level higher education. At the end of the B.com degree course, by virtue of the training, they can become an manager, accountant, management accountant, cost accountant, bank manager, auditor, company secretary, teacher, professor, stock agents, government jobs etc.,

The Program Specific Outcome (PSO)

- Develop a critical awareness and understanding of the main functional areas of business administration and the management process within a variety of institutional and organisational contexts.
- Utilise their knowledge, understanding and skills to work successfully in a professional or business house.
- To demonstrate and understanding of the principles of accounting, finance, economic and business law.
- To develop numerical abilities of students.
- To inculcate writing skills and business correspondence.
- To acquire practical skills related with banking and other business.
- To develop knowledge about economic environment of country as well as world.
- To demonstrate progressive learning of various tax issues and tax forms related to individuals so that learners can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.
- To demonstrate knowledge in setting up a computerized set of accounting books.

COURSE OUTCOME

B.Sc. in FOOD AND NUTRITION

SEM	Name of course	Course Outcomes (After completing this course, the students will be able to)
Ι	C1: HUMAN NUTRITION	Students understand about definitions of food, nutrition, various nutrients, energy value of foods and how food is digested in human body
	C2:PHYSIOLOGY IN NUTRITION	Learn the anatomical structures and physiology of human body, fundamental structures.
Π	C3: FOOD CHEMISTRY, BIOPHYSICS AND BIOCHEMICAL PRINCIPLES	Students acquire knowledge on chemistry pertaining to foods; understand the properties of various food components and physicochemical principles and enzyme kinetics.
	C4: HUMAN PHYSIOLOGY	Students gets enriched about body composition and functions of different organs
III	C5:NUTRIENTS METABOLISM	Students understand the role of nutrients in health maintenance and impact of under nutrition and excess consumption.
	C6: NUTRITION THROUGH LIFE SPAN	Students learn to plan a balanced menu through various stagesof lifewith special reference to different physiological conditions: infants, pre- schooler, school children, adolescents, adults, pregnancy, lactation and elderly.
	C7: ELEMENTARY DIETETICS AND MENU PLANNING	Students to prepare meal planand preparation of normal diets and therapeutic diets, gets to know the role of a dietitian
	SEC1: INSTRUMENTATION	Students get hands on experience of Microscopy, Chromatography, Spectrophotometry, ECG, ELISA
IV	C8: COMMUNITY NUTRITION	They understand the role of nutrition at community level and learn how nutrition problems at national level can be alleviated

	C9: EPIDEMIOLOGY AND PUBLIC HEALTH	Students learn about community health, communicable and non communicable diseases, role of immunization, waste disposal techniques and about community waste management
	C10:DIET THERAPY FOR LIFE STYLEDISORDERS	Students get knowledge on dietary management of non communicable diseases
	SEC2:FIELD STUDY IN CLINICAL / COMMUNITY SETTING	Students get practical knowledge of ICDS centres, NGO's Nutrition Rehabilitation Centre and also training as interns in hospital
V	C11:CLINICAL NUTRITION AND DIET FOR SPECIAL SITUATIONS IN LIFE	Students get knowledge on dietary management of special diseases like PKU, allergy, neurological diseases etc.
	C12: FOOD MICROBIOLOGY AND IMMUNOLOGY	Students gain knowledge on isolation of common microorganisms in foods, understanding the role of microorganisms in health maintenance and how to differentiate between different microorganisms
	DSE 1:SPORTS NUTRITION	Students gets enriched on dietary needs of a sportsperson, meal planning, their nutritional problems and details on dietary supplements
	DSE 2:ENTREPRENEURSHIP IN FOOD INDUSTRY	Students get an idea on business planning, tax planning, SWOT analysis for business, personality development skills
VI	C13: FOOD PROCESSING AND FOOD TECHNOLOGY	Students learn to identify the sources and availability of rawfood material and their impact on food processing operations, food standards and laws, food packaging norms
	C14: RESEARCH METHODOLOGY AND BIOSTATISTICS	Students get to know a basic knowledge about data collection, study design, data analysis, diagrammatic data representation, their interpretation and techniques of reporting
	DSE3:FOOD BORNE DISEASES AND FOOD TOXICOLOGY	Students learn safe food handling techniques, surface sanitization and details of different borne diseases
	DSE4:FOOD & BEVERAGE MANAGEMENT	Students gain in-depth knowledge of food service industries, understand basic managerial skills and about independent management of food service institutions.

B.SC. in MATHEMATICS

Course : MTMACOR01T Calculus, Geometry and Ordinary Differential Equations

The students will be able to

- Develop analytical reasoning.
- Analyze the impact of various mean theorems for differentiable functions.
- Apply derivative tests in optimization problems appearing in social sciences, physical sciences, life sciences and a host of other disciplines.
- Assimilate the notions of limit of a sequence and convergence of a series of real numbers.
- Calculate the limit and examine the continuity of a function at a point.
- Understand the consequences of various mean value theorems for differentiable functions.
- Sketch curves in Cartesian and polar coordinate systems.
- Find equation in various form of line, circle, ellipse, sphere, cones etc.
- Understand the origin of ODE.
- Learn numerous techniques to obtain exact solutions of solvable first order differential equations and linear differential equations of higher order.
- Formulate mathematical models in terms of ODE to utilize in real life applications in several disciplines such as physical, chemical and biological.
- Understand Picard's method of obtaining successive approximations of solutions of first order differential equations, passing through a given point in the plane and Power series method for higher order linear equations, especially in cases when there is no method available to solve such equations.
- Grasp the concept of a general solution of a linear differential equation of an arbitrary order and also learn a few methods to obtain the general solution of such equations.

Course : MTMACOR02T Algebra

Students will be able to

- Understand the significance of roots of real and complex polynomials and learn several methods of obtaining roots.
- Learn relations, equivalence relations and partitions.
- Employ De Moivre's theorem in a number of applications to solve numerical problems.

- Identify consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix, using rank.
- Determine eigenvalues and corresponding eigenvectors for a square matrix.
- Learn to solve system of linear equation, Diophantine equation.
- Learn to find roots of polynomial over rational.

Course : MTMACOR05T Theory of Real Functions

Students will be able to

- Understand limits and continuity of functions, sequential criterion for continuity and discontinuity. Algebra of continuous functions. Pointwise continuity and Uniform continuity.
- Learn differentiability of a function at a point and in an interval, Caratheodory's theorem, Relative extrema, interior extremum, theorem. Rolle's theorem. Mean value theorem, Darboux's theorem. Applications of mean value theorem to inequalities
- Use Cauchy's mean value theorem. Taylor's theorem and its application to convex functions, relative extrema. Taylor's series and Maclaurin's series expansions of exponential and trigonometric functions,

Course : MTMACOR06T Group Theory–I

Students will be able to

- Understand the importance of algebraic properties with regard to working within various number systems.
- Extend group structure to finite permutation groups.
- Generate groups given specific conditions.
- Learn symmetry using group theory
- Define subgroup, center, Normalizer of a subgroup.
- Find cycles and transpositions of a given permutations.
- Prove Lagrange's theorem ,Euler's theorem and Fermats theorem
- Define cyclic groups , define normal subgroups , quotient groups and index of a subgroup.
- Define homomorphism, kernel of a homomorphism, isomorphism.
- Prove Cayley's theorem, the fundamental theorem of homomorphism for groups

Course : MTMACOR07T Numerical Methods

Students will be able to:

- Define Basic concepts of operators Δ , E, ∇
- Find the difference of polynomial
- Solve problems using Newton forward formula and Newton backward formula.
- Find maxima and minima for differencial difference equation
- Derive Simpson's 1/3 ,3/8 rules using trapezoidal rule
- Find the solution of the first order and second order equation with constant coefficient
- Find the summation of series finite difference techniques
- Find the solution of ordinary differential equation of first by Euler, Taylor and Runge-Kutta methods

Course : MTMACOR07P Numerical Methods Lab

Students will be able to learn through C programming

- Solution of transcendental and algebraic equations
- Solution of system of linear equations
- Interpolation
- Numerical Integration
- Solution of ordinary differential equations

Course : MTMACOR11T Partial Differential Equations, Applications of Ordinary Differential Equations

Students will be able to:

- Use knowledge of partial differential equations (PDEs), modelling, the general structure of solutions, and analytic and numerical methods for solutions. formulate physical problems as PDEs using conservation laws.
- Learn Heat equation, Wave equation and Laplace equation, Cauchy problem, Cauchy-Kowalewskaya theorem, Cauchy problem of an infinite string, Initial Boundary Value Problems. Non-Homogeneous Wave Equation. Method of separation of variables, Solving the Vibrating String Problem.
- Understand Central force. Constrained motion, varying mass, Kepler's second law.

Course : MTMACOR12T Group Theory II Students will be able to

- Define automorphism, inner automorphism, applications of factor groups to automorphism groups, Characteristic subgroups, Commutator subgroup and its properties.
- Understand external and internal direct products, Fundamental Theorem of finite abelian groups.
- Group actions, stabilizers and kernels, Generalized Cayley's theorem. Index theorem.
- Learn class equation and consequences, Sylow's theorems and Cauchy's theorem

Course : MTMADSE01T Linear Programming

Students will be able to

- Define basic feasible solutions, Slack and Surplus variable.
- Explain simplex method.
- Demonstrate Big-M method , two phase method , dual simplex method.
- Define transportation problem.
- Find a basic feasible solution to the transportation problem by using North west corner rule, Vogel's approximation method.
- Illustrate Assignment problem (Hungarian method).
- Learn game theory: two person zero sum games, games with mixed strategies, graphical solution procedure, linear programming solution of games.

Course : MTMADSE02T Number Theory

Students will be able to

- Learn linear Diophantine equation, linear congruences, complete set of residues, Chinese Remainder theorem, Fermat's Little theorem, Wilson's theorem.
- Understand Mobius Inversion formula, the greatest integer function, Euler's phi-function, Euler's theorem.
- Define Legendre symbol and its properties, quadratic reciprocity, quadratic congruences with composite moduli.

Course : MTMADSE03T Probability and Statistics

Students will be able to

• Understand sample space, probability axioms, real random variables (discrete and continuous), distribution function, density functions, moment generating function, characteristic function, discrete and continuous distributions.

- Learn joint probability density functions, marginal and conditional distributions, conditional expectations, bivariate normal distribution, correlation coefficient, linear regression for two variables.
- Know Chebyshev's inequality, law of large numbers. Central Limit theorem for independent and identically distributed random variables with finite variance, Markov Chains, Chapman-Kolmogorov equations, Sampling Distributions, Estimation of parameters, Testing of hypothesis.

Course : MTMGCOR01T Differential Calculus

Students will be able to

- Improve knowledge of fundamental concepts of real numbers.
- Verify the value of the limit of a function at a point using the definition of the limit.
- Learn to check continuity and differentiability of functions,
- Learn Successive differentiation, Leibnitz's theorem, Partial differentiation, Euler's theorem on homogeneous functions.
- Understand tangents and normals, Curvature, Asymptotes, Singular points.
- Know Rolle's theorem, Mean Value theorems, Taylor's theorem, Taylor's series, Maclaurin's series.

Course : MTMGCOR03T Real Analysis

Students will have:

(i) an ability to work within an axiomatic framework;

(ii) a detailed understanding of how Cauchy's criterion for the convergence of real and

complex sequences and series follows from the completeness axiom for R, and the ability to explain the steps in standard mathematical notation;

(iii) knowledge of some simple techniques for testing the convergence of sequences and series, and confidence in applying them;

(iv) familiarity with a variety of well-known sequences and series, with a developing intuition about the behaviour of new ones;

(v) an understanding of how the elementary functions can be defined by power series, with an ability to deduce some of their easier properties.

Course : MTMGDSE01T Matrices

Students will be able to

• Work with matrices and determine if a given square matrix is invertible.

- Learn to solve systems of linear equations and application problems requiring them.
- Learn to find and use eigenvalues and eigenvectors of a matrix.
- Perform the matrix operations of addition, multiplication and transposition and express a system of simultaneous linear equations in matrix form.
- Determine whether or not a given matrix is invertible and if it is, find its inverse.

Course : MTMGDSE02T Mechanics

Students will be able to articulate and describe:

- Relative motion. Inertial and non inertial reference frames.
- Parameters defining the motion of mechanical systems and their degrees of freedom.
- Study of the interaction of forces between solids in mechanical systems.
- Centre of mass and inertia tensor of mechanical systems.
- Application of the vector theorems of mechanics and interpretation of their results.
- Newton's laws of motion and conservation principles.
- Introduction to analytical mechanics as a systematic tool for problem solving.
- Use of mechanical simulation software.

B.SC. in GEOGRAPHY

CO1: Develop ideas on Physical and Human Geography.

CO2: Understand and solve problems of scale, geological map and area measurement.

CO3: Analyse the geographical problems through statistical tools.

CO4: Comprehend the geographical knowledge of India and the world.

CO5: Appreciate the geographical resources and its impact on environment.

CO6: Explore the basic tools and techniques of computer application in Geography.

CO7: Have a thorough understanding of the applied aspects of Remote Sensing and Geographical Information System.

CO8: Be competent in applying Geography towards generating solutions to complex problems in Water resources, Agriculture, Mining, Forestry, Fishing, Regional Planning, Environment and conservation of biodiversity.

CO9: Be fully sensitive about changes in landform through instrumentation (prismatic compass and dumpy level survey).

CO10: Conversed with basic characteristics of rocks and minerals and capable of megascopic identification.

B.SC. in ECONOMICS

EXPECTED COURSE OUTCOME:

- **1.** After completing 3 years (six semesters) for B.Sc. honours and general students in economics would gain a broad knowledge in the fundamentals of economy.
- 2. Acquire knowledge about general aspect of Economics and Financial Accounting.
- **3.** Analyze and record transaction, prepare economic & accounting adjustment, construct economic & financial statement and close the Books of Accounting period.
- **4.** To record the economical & financial transactions, disclose the result of economic operation, reveal the economic financial status and supplier's necessary economic & financial information.
- **5.** Describe the economic principles and financial regulations that frame economic and financial statements.
- 6. Concept and advantages of economic & cost accounting technique.

7. Brief discussion on Cost Sheet, Store Ledger, Labour Cost, Overhead, Remuneration system and Incentive Scheme for workers.

8. Identify the economic & cost savings technique resulting from controlling the cost of ordering and carrying inventory to earn more profit from business.

9. Identify the critical role of cost allocation in the analysis of customerprofitability and sales variances. Use the minimizing costing system to prepare and analyses the production reports where a large number of products aremanufactured for economic saving.

10. Preparation of estimates and fixation of selling prices.

11. Student will be able to prove proficiency with the ability to engage in competitive exams like banking, Indian Economic Service, LIC, Insurance sector, Account and Audit service, CA, CS, CMA and other courses. Student will be able to recognize features and roles of businessmen, entrepreneur, managers, consultant which will help learners to process and other soft skills.

12. After completing graduation on economics, students can apply for banking service,

business and also all the services related with economics. They can also start new business and develop their existing family business.

13. The economics focused curriculum offers a number of specialization and practical exposures which would equip the student to face the modern day challenges in Economy, Trade, Commerce and Business.

14. Through departmental various activities like wall magazine, educational survey, seminar, webinar, Covid-19 Pandemic awareness online programme students became efficient in different economic works and other creative works by expressing their talent and apply their knowledge in daily practical life and also gain knowledge about computer.

B.A. in EDUCATION

SEMESTER-1 (Hons.)

Core Course 1: Educational Philosophy (EDCACOR01T)

After successful completion of this course the students will be able to:

- Understand the foundation of Education and disciplinary relationship between Education & Philosophy.
- Get an idea of the Philosophical bases in Education.
- Acquire knowledge of the Western & Indian Schools of Philosophy and their impact on Education.
- Perceive the values enshrined and educational provisions in the Indian Constitution.
- Understand contributions of some great educators and their Philosophies of Education.

Core Course 2: Educational Psychology (EDCACOR02T)

After successful completion of this course the students will be able to:

- Develop a concept of Psychology, and its relationship with Education.
- Get an idea of Educational Psychology.
- Understand the different aspects of child development and relate that with Education.
- Learn about Psychology of Intelligence and Creativity and relate that with Education.
- Understand different aspects of Learning Psychology in the context of Education.

SEMESTER- 2 (Hons.)

Core Course 3: Educational Sociology (EDCACOR03T)

After successful completion of this course the students will be able to:

- 1. Understand the meaning of Sociology and its different perspectives related to Education.
- 2. Realize the relationship between Education and Sociology;
- 3. Acquaintance with the concept of Culture and its relationship with Education
- 4. Understand about National Integration & International Understanding
- 5. Get an idea of social development and role of Education
- 6. Connect with some social issues in education

Core Course 4: Pedagogy (EDCACOR04T)

After successful completion of this course the students will be able to:

- Get an idea of Pedagogy as an academic discipline
- Understand about different bases of Pedagogy.
- Develop an understanding of philosophical, sociological and psychological bases of Pedagogy
- · Learn about Pedagogy as a science of teaching and Pedagogy of teaching learning
- Get acquainted with some contemporary issues of Pedagogy and its application in class room situation.

SEMESTER-3 (Hons.)

Core Course 5: Education in Pre independence India (EDCACOR05T)

After successful completion of this course the students will be able to:

- Develop an idea of education in ancient and medieval India
- Know about the education under East India Company
- Perceive the development of education under British rule
- Develop a concept of education from 1917-1947.

Core Course 6: Education in Post-independence India (EDCACOR06T)

After successful completion of this course the students will be able to:

- Understand about the development of education from 1947-1953
- Develop a concept of education from 1964-1968
- Know about the education from 1986-1992
- Learn about the development of education from 1993 onwards

Core Course 7: Contemporary Issues in Indian education (EDCACOR07T)

After successful completion of this course the students will be able to:

• Explore the Traditional issues, Social issues and Educational issues of Indian educational system.

Core Course 7: Field tour & Report writing (EDCACOR07P)

After successful completion of this course the students will be able to:

• Gather experience regarding places of Philosophical, Psychological & Historical importance

B.A. in SOCIOLOGY

Conceptual Foundation in Sociology

- Students are expected to acquire sociological knowledge by understanding basic concepts in sociology; Students belonging to other disciplines this will be an initiation to develop sociological imagination and to look beyond their immediate surroundings.
- This course will be useful to students to understand the social processes and studyof society

Western Classical Sociological Thought

Students can expect to:Become familiar with the foundational concepts, analytic frameworks, and debates that inform sociological thought and practice;Understand these ideas, concepts, and debates in terms of the socio-historical contexts in which they developed;Learn to identify and assess the assumptions and implications underlying these classical sociological theories; and Expected to learn to apply these classical perspectives to contemporary problems.

Contemporary Indian Society

- Reading this paper will enable students to reflect on the issues and changing trendsin Indian society.
- The students will be able to perceive the adaptive experiences by social groups in villages, towns, cities, and regions. Instead of seeing as structural isolates, studentswill understand how the basic social units of family, caste, and community are intimately connected with one another and with other social units through social andcultural networks of various kinds that incorporate the social units into the complex structure of Indian society. Within this broadened conception of Indian society, students will be prepared to trace the changing relations of politics, economics, law, and language.
- The student would get to know about the emergent dynamics of the modernizing/

globalizing forces acting on the Indian social system since independence, like parliamentary democracy, universal suffrage, land reforms, modern education, urbanization, and industrial technology.

• The units in this paper will exhibit that the study of Indian society reveals novel forms of change that may consequently induce students to engage with novel methods and theories, and may well encourage them to extend the study of Indian society.

Sociological Theory

• It is expected that on completing this course students will become theoretically grounded with a holistic understanding of society, and decipher the connectivity of values to social structure. It is hoped students will be able to analyze many issuesseen in Indian social reality with theoretical rigor.

• Student is expected to be able to constantly connect research methods to a theoretical framework so as to explain explicitly the linkages between theory and practice.

- This paper is intended to familiarize the students with the social, political, economic and intellectual contexts in which sociology emerged as a distinctive discipline.
- Its objective is to help students gain an understanding of some of the classical contributions in sociology, and their continuing relevance to its contemporary concerns.

Conducting Research in Sociology

- To introduce to the language and logic of research design in order to provide with a good foundation for future learning;
- To teach how to write a research report with a critical eye, so that one can know how to know how trustworthy its information is;
- \circ To expose to a variety of research methods that one may encounter in the future;
- To convince ourselves, again and again that social scientific research is not a highly esoteric activity, but rather a relatively straightforward, systematic set of procedures that will allow us to answer our questions about the world;
- To learn firsthand about the successes and problems of research by trying out data collection method on a small scale;
- To show that research is both an intellectual and emotional activity that can both frustrating and highly rewarding
- By the end of the paper, one will be able to assess the soundness of social researchby evaluating research designs and data-collection strategies in light of research questions and theory.

Indian Sociology

 Apart from acquiring a fairly adequate and comprehensive understanding of Indian society in all its multi-faced dimensions, it is expected that the students will be sensitized about the diversity as well as inter-connectedness of theoretical perspectives on Indian Society that will add strength and power to there understanding of the subject.

Indian Society: Issues and Problems

 Objectives of the course is to sensitize the students to the emerging social issues and problems of contemporary India, enable them to acquire sociological understanding of these issues and problems over and above their commonsense understanding, empower them to deal with these issues and problems and to serve change agents both in governmental and non-governmental organizations.

B.A. in PHILOSOPHY

1. Students will be able to evaluate and provide justification for beliefs instead of superstitions.

2. Students will be able to identify central ideas associated with central figures and movements from the history of philosophy.

3. Students will be able to read and think critically.

4. Students will be able to identify and differentiate central ideas and movements among the branches of Philosophy.

5. Students will be able to extract arguments from primary texts.

6. Students will be able to distinguish valid from invalid arguments.

- 7. Students will be able to write creatively.
- 8. They will be able to inculcate in them a sense of morality and moral values

B.A. in BENGALI

After finishing degree course studies, students enter higher studies and research work. The teachers in the department inspire them to join the profession of teacher / professor. Students also have places to join other professions such as – reporter, proof-reader, news – reader, journalist and they get the opportunities to prepare for W B C S exam. The teachers in the department try to make them successful in different professions of life.

DEPARTMENT OF COMMERCE

Core knowledge outcomes upon completion of the course as follows:

Financial Accounting:

- 1. To enable students to learn principles and concepts of Accountancy as well as to acquire the knowledge for its practical applications.
- 2. To enables the students to learn the basic concepts of Partnership Accounting, and allied aspects of accounting.
- 3. The Advanced Financial Accounting helps the students to obtain the knowledge of advantages, disadvantages and the procedure of accounting for mergers and acquisitions, amalgamations and holding companies, etc.
- 4. To develop the students to be aware on the Corporate Accounting in conformity with the provisions of the Companies Act.
- 5. To appraise the students about Need and importance of Accounting Standards, and to impart the students, knowledge about preparation of Company Final Accounts and accounting treatment of corporate undertakings.
- 6. To get acquainted with the procedure of preparation of income statements, retained earnings, balance sheet and statement of cash flows which are required for external users and more useful to managers for managerial decision making.

Cost and Management Accounting:

This course aims to develop an understanding of the conceptual framework of Cost & Management Accounting which helps the students to acquires the knowledge in the

Management Accounting Techniques in business decision making.

- 1. Costing: The main objective of this course is to familiarize students with the basic concepts of cost and various methods and techniques of cost accounting. The students understand clearly to reduce and control the cost during the course of production because cost is a vital aspect in the modern business. It also helps to provide knowledge about the ascertainment the profitability of each of the products and advise the management to maximize its profits.
- 2. Management Accounting: This course provides students with an understanding of management accounting concepts related to the management functions of planning, control, and decision making. It helps the students to compare the financial statements and financial analysis. In addition, the course focuses on the provision of accounting

information for managerial control and decision making, related to planning and budgeting, variance analysis and performance evaluation.

Financial Management:

- 1. To enable the students with the knowledge about the Capital budgeting, Working capital management, cash management, and better financial management techniques.
- 2. To develop the concept of Business Finance and the Application of Finance to Business.
- 3. To provide a comprehensive coverage of financial management from a corporate perspective, together with a comprehensive coverage of elementary financial mathematics.
- 4. Discuss the core objectives of corporate financial management, and the application of a range of analytical techniques and technologies, including investment, financing and dividend decisions.

Auditing:

- 1. To develop the fundamental concepts of Auditing.
- 2. To inculcate the knowledge of the principles and practices of internal and external auditing.
- 3. To help the students to understand the auditing as a component of recurrent and strategic activities, risk assessment, internal control, systems evaluation, and other contemporary audit issues and challenges.
- 4. To obtain working knowledge of generally accepted auditing procedure, techniques and skills.

Principles of Management:

- 1. To make the students to understand different principles of management and various skills to practice in management.
- 2. To examine fundamental management theories and traditional managerial responsibilities in formal and informal organisational structure.
- 3. To describe different managerial functions like planning, organising, directing, coordinating, controlling and staffing.
- 4. To focus on the basic roles, skills and functions of management, with special attention to managerial responsibility for the effective and efficient achievement of goals.
- 5. To present a thorough and systematic coverage of management theory and practice.

Marketing Management:

- 1. To introduce students to marketing concepts, the environmental and organisational factors that shape marketing decisions.
- 2. To examine the role of marketing decisions in a variety of settings including manufacturing and service firms, consumer and business markets, profit and non profit organisations, domestic and global companies and small and large businesses.

- 3. To develop a solid understanding of the relationship between business strategy and the decision areas under marketing responsibility.
- 4. To apply tools and conceptual models for understanding consumer behaviour, competition and relevant environmental issues.
- 5. To acquire skills for marketing manager, selling Manager, over all administration abilities of the company.

Human Resource Management:

- 1. To help the students to understand various aspects of Human Resource development, managing human resources and develop skills in HR policies.
- 2. To provide the students the concept of the functioning of Human Resource /Personnel Department, Manpower planning, performance appraisal, Selection and Recruitment process, Labour Welfare, Industrial Relations etc.

Business Communication:

- 1. To develop language abilities of students.
- 2. To inculcate writing skills and Business correspondence.

3.To develop the ability of the students to communicate clearly and correctly in English on the matters relevant to day to day business operation with emphases on quality of presentation.

4. To help the students for general understanding of the various aspects of business communication and business environment of the country.

Indian Financial System & Financial Market Operations:

- To help the students to learn about various financial institutions like Stock Exchange , Mutual Funds etc.
- 2. To develop the understanding of the nature, functions and issues related to money, banking and non banking financial intermediaries and financial system.
- 3. To develop the knowledge about changing role and functions of RBI, NBFIs, Development Banks, Commercial Banks, Money Market and Capital Market.
- 4. To describe the functions different regulatory authorities and other institutions for investors' protection.

Direct and Indirect tax:

- 1. To acquire conceptual and legal knowledge about Income tax provisions relating to the computation of income from different heads with reference to an individual assessee.
- 2. To familiarize the students with recent amendments in Income-tax so that the students become well versed in the prevailing act.
- 3. To make the students competent to compute the total income and tax liability of individual assesses and firms.
- 4. To give them the necessary expertise to file return of income tax and to take up job in filing of tax.
- 5. To learn and apply principles and provisions of indirect tax laws.

Information Technology and its application in business:

- 1. This course involves a comprehensive study of the use of information systems for management.
- 2. It focuses on the development and effective use of management information systems in today's companies' decision-making and examination of traditional information systems development from the end-user's perspectives.
- 3. To give emphasis on the understanding and practical application of MS-Office, Ms-PowerPoint, Ms-Access and Tally.

The main aims of this course are to:-

- enable students to understand the use of applications software.
- develop individual applications that solve business problems.

• Investigate the opportunities and problems associated with computer-based management information system to control the business operations.

Business Economics:

- 1. To teach the students to explore a set of interrelated issues relating to the growth and development of the Indian Economy and application of Economic Theory in the context of India.
- 2. To enable the students to learn about the basic economic theory that applies to issues of demand, supply, production, costs, market structure, pricing and regulation.
- 3. To make the students familiar with introductory, canonical models of consumer and producer behaviour and of macro economy have a basic understanding of the operation of a modern economy be able to evaluate the effects of government interventions in individual markets and in the macro economy.

4. To analyze operations of markets under varying competitive conditions.

Business Regulatory Framework:

- 1. To create awareness of Law and Legislations related to commerce and business.
- 2. To inculcate knowledge on various laws relating to business such as Contract Act, Sale of goods Act, Partnership Act, Negotiable Instruments Act and Consumers Protection Act.
- 3. To acquire conceptual and legal knowledge about the provisions of Companies Act with reference to the different case laws.
- 4. To familiarize the students with recent amendments in the Companies Act so that the students become well versed in the prevailing act.

Business Statistics and Mathematics:

- 1. To provide an understanding for the commerce students on statistical concepts to include measurements of location and dispersion, probability, probability distributions, sampling, estimation, hypothesis testing, regression and correlation analysis and business / economic forecasting.
- 2. To develop the student's ability to use mathematics and statistics to solve business problems.
- 3. To provide a concept in statistics and commonly used quantitative methods, which will prove useful for the students to understand and appreciate other subjects in commerce programme.

Commerce Project work:

- 1. The aim of the Project work is to acquire practical knowledge on the implementation of perceptions studied through the programme.
- 2. To impart knowledge about the primary elements of Project Management so that the students ars able to develop a detailed project plan.
- 3. To introduce and develop the skills needed to conceptualise a problem, make use of available literature, design a research strategy, evaluate, organise, and integrate relevant data (both existing and new), derive useful solutions based on knowledge, and communicate those solutions to clients and colleagues.
- 4. To understand the basic process of research methodology as practiced in the social sciences and business.