

ANSAR WOMEN'S COLLEGE,PERUMPLAVU
PG DEPARTMENT OF COMMERCE & MANAGEMENT STUDIES
BACHELOR OF BUSINESS ADMINISTRATION (BBA)

FIRST SEMESTER:

COURSE NAME: MANAGEMENT THEORY AND PRACTICES **COURSE CODE:**BBA 1 B01

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|---|-------------|
| | CO 1 | of Business Management. | 85 |
| | CO 2 | and analyse practical aspects of management to become skilled manager in a corporate business | 80 |

COUSRE NAME: MANAGERIAL ECONOMICS **COURSE CODE:**BBA 1 C01

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|--|-------------|
| | CO 1 | To acquaint the students with the economic concepts and principles relevant for business decisions | 75 |
| | CO 2 | To enable the students to apply the economic principles in managerial decisions | 80 |

SECOND SEMESTER:

COURSE NAME: FINANCIAL ACCOUNTING **COURSE CODE:** BBA 2 B02

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|--|-------------|
| | CO 1 | for preparing books of accounts of business organisation | 78 |

| | | | |
|--|------|--|----|
| | CO 2 | the financial statements of proprietary organisations. | 85 |
| | CO 3 | students in respect of accounting of issue of securities, accounting for hirepurchase transactions and | 80 |

COURSE NAME: MARKETING MANAGEMENT COURSE CODE: BBA 2 B03

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|--|-------------|
| | CO 1 | marketing principles | 86 |
| | CO 2 | the process of marketing in modern business firm | 89 |

THIRD SEMESTER:

COURSE NAME: BUSINESS REGULATORY COURSE CODE: BB 3 B03

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|---|-------------|
| | CO 1 | Legal Concepts and the Indian Legal Environment in which | 84 |
| | CO 2 | understand the emerging legal issues in a digital networked | 81 |

COURSE NAME: MANAGEMENT COURSE CODE: BB 6 B 13

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|---|-------------|
| | CO 1 | understanding of human resource practices in organizations. | 89 |

COURSE NAME: GENERAL INFORMATICS COURSE CODE: BB 3 A12

| CO ID | CO CODE | CO | ATTAINMENTS |
|--------------|----------------|---|--------------------|
| | CO 1 | Informatics skills of the students. | 89 |
| | CO 2 | utilize the digital knowledge resources for their study | 88 |

COURSE NAME: BASIC NUMERICAL SKILLS COURSE CODE: BB 3 A11

| CO ID | CO CODE | CO | ATTAINMENTS |
|--------------|----------------|---|--------------------|
| | CO 1 | knowledge of Mathematics and Statistics | 75 |
| | CO 2 | understood set operations, matrix and Mathematics of finance, | 85 |

COURSE NAME: TECHNIQUES FOR BUSINESS COURSE CODE: BB 3 C03

| CO ID | CO CODE | CO | ATTAINMENTS |
|--------------|----------------|--|--------------------|
| | CO 1 | quantitative techniques in managerial decision making. | 79 |

FOURTH SEMESTER:

COURSE NAME: BANKING AND INSURANCE COURSE CODE: BB 4 A13

| CO ID | CO CODE | CO | ATTAINMENTS |
|--------------|----------------|--|--------------------|
| | CO 1 | knowledge about basics of Banking and Insurance. | 85 |
| | CO 2 | modern trends in banking. | 88 |

COURSE NAME: DEVELOPMENT COURSE CODE: BB 4 A14

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|--|-------------|
| | CO 1 | concept of entrepreneurship. | 86 |
| | CO 2 | entrepreneurial talents of the | 90 |
| | CO3 | ideas in the emerging industrial scenario. | 95 |

COURSE NAME: MARKETING MANAGEMENT COURSE CODE: BB 4 B05

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|------------------------------------|-------------|
| | CO 1 | marketing principles and practices | 90 |
| | CO 2 | marketing in a business firm. | 87 |

COURSE NAME: FINANCIAL MANAGEMENT COURSE CODE: BB 4 B06

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|--|-------------|
| | CO 1 | the concepts, tools and practices of financial management. | 86 |
| | CO 2 | processes of financial management in a business firm. | 79 |

COURSE NAME: MANAGEMENT SCIENCE COURSE CODE: BB 4 C04

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|---|-------------|
| | CO 1 | about Operations research | 85 |
| | CO 2 | common operations Research Tools for various Business | 76 |

FIFTH SEMESTER:

COURSE NAME: MANAGEMENT COURSE CODE: BB 5 B07

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|---|-------------|
| | CO 1 | understand the concept and relevance of management | 90 |
| | CO 2 | understanding about the use of accounting and costing data for planning ,control and decision | 85 |

COURSE NAME:

METHODS

COURSE CODE: BB 5 B08

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|---|-------------|
| | CO 1 | basic knowledge in business research methods and to develop basic skills in them to conduct | 88 |

COURSE NAME:

MANAGEMENT

COURSE CODE: BB 5 B09

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|--|-------------|
| | CO 1 | emerging trends of new management concepts. | 89 |
| | CO 2 | significance of the integration of information technology as the platform for the application of | 79 |

COURSE NAME:

INDIAN FINANCIAL SYSTEM COURSE CODE: BB 5 B10

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|----|-------------|
|-------|---------|----|-------------|

| | | | |
|--|------|---|----|
| | CO 1 | Indian financial system and its broad components. | 80 |
|--|------|---|----|

COURSE NAME:

MANAGEMENT

COURSE CODE: BB 5 B11

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|--|-------------|
| | CO 1 | different investment avenues available in financial markets and prepare them with basic skills and | 79 |

COURSE NAME:

COURSE)

COURSE CODE: BB 5 D 1 E

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|--|-------------|
| | CO 1 | To understand the importance of database systems for business management | 84 |
| | CO 2 | database development and maintenance. | 75 |

SIXTH SEMESTER:

COURSE NAME:

INCOME TAX

COURSE CODE: BB 6 B 14

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|--|-------------|
| | CO 1 | equip students with application of principles and provisions of income tax Act ,1961 amended up- | 83 |

COURSE NAME: BEHAVIOR COURSE CODE: BB 3 BO4

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|---|-------------|
| | CO 1 | the basic concepts of the organizational behavior | 77 |
| | CO 2 | the interaction between the individuals and the organizations | 79 |

COURSE NAME: MANAGEMENT COURSE CODE: BB 6 B15

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|---|-------------|
| | CO 1 | importance of adequate working capital. | 78 |
| | CO 2 | manage working capital of SMEs. | 86 |

COURSE NAME: MANAGEMENT COURSE CODE: BB 6 B12

| CO ID | CO CODE | CO | ATTAINMENTS |
|-------|---------|--|-------------|
| | CO 1 | the concepts, tools and practices of operations management | 79 |
| | CO 2 | processes of operations management in a business firm. | 86 |

**PG DEPARTMENT OF COMPUTER SCIENCE
BACHELER OF COMPUTER APPLICATION(BCA)**

FIRST SEMESTER:

COURSE NAME:COMPUTER FUNDAMENTALS AND HTML COURSE CODE:BCA1BO1

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----|------------|
|-------|---------|----|------------|

| | | | |
|--|-----|---|--|
| | CO1 | fundamentals of Computer | |
| | CO2 | organization | |
| | CO3 | algorithm and draw flow chart for solving simple problems | |
| | CO4 | webpage design | |

COURSE NAME:MATHEMATICAL FOUNDATIONS FOR

COURSE CODE:BCA1C01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | linear algebra and vectors. | |
| | CO2 | differential and integral Calculus | |
| | CO3 | modeling using ordinary and partial differential equations | |

COURSE NAME:DISCRETE MATHEMATICS

COURSE CODE:BCA1C02

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|-----------------|------------|
| | CO1 | Boolean Algebra | |

SECOND SEMESTER:

COURSE NAME:PROBLEM SOLVING USING C

COURSE CODE:BCA2B02

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | fundamental principles of Problem Solving aspects. To learn the | |
| | CO2 | To study C language | |
| | CO3 | programs for solving simple computing problems | |

COURSE NAME:PROGRAMMING LABORATORY 1

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | programming environments. | |
| | CO2 | programming concepts. | |
| | CO3 | solve mathematical or scientific problems using C | |
| | CO4 | designing. | |

COURSE NAME:OPERATIONS RESEARCH**COURSE CODE:BCA2C04**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | in solving linear programming problems. | |
| | CO2 | network analysis technique. | |
| | CO3 | different mathematical models | |

FINANCIAL AND MANAGEMENT ACCOUNTING**COURSE CODE:BCA2C03**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | accounting and general applications. | |
| | CO2 | tools for financial statement analysis. | |
| | CO3 | accounting procedures upto the preperation of various financial | |
| | CO4 | the important tools for managerial decision making. | |

THIRD SEMESTER:**COURSE NAME:DATA STRUCTURES USING C****COURSE CODE:BCA3B04**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|-----------------------------|------------|
| | CO1 | structures | |
| | CO2 | various data structures | |
| | CO3 | fundamental data structures | |

COURSE NAME:COMPUTER ORIENTED NUMERICAL**COURSE CODE:BCA3C05**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | arithmetic To learn how to solve linear equations | |
| | CO2 | differentiation and integration To learn basics of statistics, | |

COURSE NAME:THEORY OF COMPUTATION**COURSE CODE:BCA3C06**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | Theory of computer science | |
| | CO2 | different languages, grammar, automata | |

FOURTH SEMESTER**COURSE NAME:DATABASE MANAGEMENT SYSTEM &****COURSE CODE:BCA4B05**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | database and database design To learn the basics of RDBMS | |

| | | | |
|--|-----|--|--|
| | CO2 | manipulation SQL To study PL/SQL language | |
|--|-----|--|--|

COURSE NAME:PROGRAMMING LABORATORY II:DATA

COURSE CODE:BCA4B06

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | solve mathematical or scientific problems using C To learn how to implement various data structures. | |
| | CO2 | to use data structures to solve real life problems | |

COURSE NAME:ECOMMERCE

COURSE CODE:BCA4C07

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | Electronic Commerce framework .To get a general understanding on | |
| | CO2 | Internal information systems. To get a general understanding on the | |

COURSE NAME:COMPUTER GRAPHICS

COURSE CODE:BCA4C08

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----------|------------|
| | CO1 | Graphics | |

FIFTH SEMESTER

COURSE NAME:JAVA PROGRAMMING

COURSE CODE:BCA5B07

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | To review on concept of OOP. | |
| | CO2 | Environments. To practice programming in Java. | |

COURSE NAME:COMPUTER ORGANIZATION

COURSE CODE:BCA5B08

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | circuits and sequential circuits To learn basics of computer | |

COURSE NAME:WEB PROGRAMMING USING PHP

COURSE CODE:BCA5B09

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | To review on concept of OOP. | |
| | CO2 | Environments. To practice programming in Java. | |

COURSE NAME:PRINCIPLES OF SOFTWARE ENGINEERING

COURSE CODE:BCA5B10

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|-----------------------|------------|
| | CO1 | Software Development. | |

COURSE NAME:INTRODUCTION TO COMPUTERS &OFFICE

COURSE CODE:BCA5D01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | office automation packages To get a general introduction to Internet | |

SIXTH SEMESTER**COURSE NAME:ANDROID PROGRAMMING****COURSE CODE:BCA6B11**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | Android programming. To learn Android Programming | |
| | CO2 | Android. | |

COURSE NAME:OPERATING SYSTEMS**COURSE CODE:BCA6B12**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|------------------------|------------|
| | CO1 | Computer Networks. | |
| | CO2 | Network Administration | |

COURSE NAME:COMPUTER NETWORKS**COURSE CODE:BCA6B13**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--------------------|------------|
| | CO1 | Computer Networks. | |
| | CO2 | Communication. | |
| | CO3 | Administration | |

COURSE NAME:PROGRAMMING LABORATORY III:LAB**COURSE CODE:BCA6B14**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | To practice Java programming. | |
| | CO2 | side scripting. To practice PHP Programming. | |
| | CO3 | websites. | |
| | CO4 | databases through PHP. | |

COURSE NAME:PROGRAMMING LABORATOY IV:ANDROID COURSE CODE:BCA6B15

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | To practice Android programming. | |
| | CO2 | applications. To develop mobile application. | |
| | CO3 | To practice shell programming | |

COURSE NAME:PROJECT WORK COURSE CODE:BCA6B16

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|------------------------------|------------|
| | CO1 | software development process | |

COURSE NAME:SYSTEM SOFTWARE COURSE CODE:BCA617d

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | in system software To learn functions of various system | |
| | CO2 | process of a program | |

**PG DEPARTMENT OF COMPUTER SCIENCE
BACHELER OF COMPUTER SCIENCE(BSC CS)**

FIRST SEMESTER:**COURSE NAME:COMPUTER FUNDAMENTALS AND HTML COURSE CODE:BCS1BO1**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--------------------------|------------|
| | CO1 | fundamentals of Computer | |
| | CO2 | organization | |

| | | | |
|--|-----|---|--|
| | CO3 | algorithm and draw flow chart for solving simple problems | |
| | CO4 | webpage design | |

SECOND SEMESTER:

COURSE NAME:PROBLEM SOLVING USING C

COURSE CODE:BCS2B02

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | fundamental principles of Problem Solving aspects. To learn the | |
| | CO2 | To study C language | |
| | CO3 | programs for solving simple computing problems | |

COURSE NAME:PROGRAMMING LABORATORY 1

COURSE CODE:BCS2B03

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | programming environments. | |
| | CO2 | programming concepts. | |
| | CO3 | solve mathematical or scientific problems using C To learn how to implement various data structures. | |
| | CO4 | to use data structures to solve real life problems. | |

THIRD SEMESTER:

COURSE NAME:DATA STRUCTURES USING C

COURSE CODE:BCS3B04

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|-----------------------------|------------|
| | CO1 | structures | |
| | CO2 | various data structures | |
| | CO3 | fundamental data structures | |
| | | | |

FOURTH SEMESTER

COURSE NAME:DATABASE MANAGEMENT SYSTEM &

COURSE CODE:BCS4B05

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | database and database design To learn the basics of RDBMS | |
| | CO2 | manipulation SQL To study PL/SQL language | |

COURSE NAME:PROGRAMMING LABORATORY II:DATA

COURSE CODE:BCS4B06

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | solve mathematical or scientific problems using C To learn how to implement various data structures. | |
| | CO2 | to use data structures to solve real life problems | |

FIFTH SEMESTER

COURSE NAME:COMPUTER ORGANIZATION**COURSE CODE:BCS5B07**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | circuits and sequential circuits To learn basics of computer | |

COURSE NAME:JAVA PROGRAMMING**COURSE CODE:BCS5B08**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | To review on concept of OOP. | |
| | CO2 | Environments. To practice programming in Java. | |

COURSE NAME:WEB PROGRAMMING USING PHP**COURSE CODE:BCS5B09**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | To review on concept of OOP. | |
| | CO2 | Environments. To practice programming in Java. | |

COURSE NAME:PRINCIPLES OF SOFTWARE ENGINEERING**COURSE CODE:BCA5B10**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|-----------------------|------------|
| | CO1 | Software Development. | |
| | | | |

COURSE NAME:INTRODUCTION TO COMPUTERS &OFFICE**COURSE CODE:BCA5D01**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | office automation packages To get a general introduction to Internet | |

SIXTH SEMESTER

COURSE NAME:ANDROID PROGRAMMING

COURSE CODE:BCS6B11

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | Android programming. To learn Android Programming | |
| | CO2 | Android. | |

COURSE NAME:OPERATING SYSTEMS

COURSE CODE:BCS6B12

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|------------------------|------------|
| | CO1 | Computer Networks. | |
| | CO2 | Network Administration | |

COURSE NAME:COMPUTER NETWORKS

COURSE CODE:BCS6B13

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--------------------|------------|
| | CO1 | Computer Networks. | |
| | CO2 | Communication. | |
| | CO3 | Administration | |
| | | | |

COURSE NAME:PROGRAMMING LABORATORY III:LAB

COURSE CODE:BCS6B14

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | To practice Java programming. | |
| | CO2 | side scripting. To practice PHP Programming. | |
| | CO3 | websites. | |
| | CO4 | databases through PHP. | |

COURSE NAME:PROGRAMMING LABORATOY IV:ANDROID

COURSE CODE:BCS6B15

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | To practice Android programming. | |
| | CO2 | applications. To develop mobile application. | |
| | CO3 | To practice shell programming | |

COURSE NAME:PROJECT WORK

COURSE CODE:BCA6B17

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|------------------------------|------------|
| | CO1 | software development process | |

COURSE NAME:COMPUTER GRAPHICS

COURSE CODE:BCAB16d

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | foundation of the concepts of computer graphics. | |
| | CO2 | animation,parametric curves and surfaces. | |

PG DEPARTMENT OF COMPUTER SCIENCE
MSC COMPUTER SCIENCE

First Semester

Course Name: DISCRETE MATHEMATICAL STRUCTURES Course code: CSS1C01

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | concepts necessary to understand basic foundation of Computer | |

Course Name: – ADVANCED DATA STRUCTURES Course code: CSS1C02

| CO ID | CO Code | CO | Attainments |
|-------|---------|--|-------------|
| | C01 | data structures dealing with algorithm development and | |

Course Name: THEORY OF COMPUTATION ; Course code: CSS1C03

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | understanding of basic concepts in the theory of computation. | |

Course Name: THE ART OF PROGRAMMING METHODOLOGY Course code: CSS1C04

| CO ID | CO Code | CO | Attainments |
|-------|---------|----------------------------|-------------|
| | C01 | algorithms and flowcharts. | |

| | | | |
|--|-----|---|--|
| | C02 | algorithmic approach for solving real-life problems. | |
| | C03 | design and coding of computer programs. | |
| | C04 | To learn designing programs with advanced features of C | |

Course Name: – COMPUTER ORGANIZATION & ARCHITECTUR Course code: CSS1C05

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | fundamentals, computer organization, computer | |

Course Name: PRACTICAL I

Course code: CSS1L01

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | theory portions covered in The Art of Programming Methodology (CSS1C04) and Advanced Data | |

Course Name: INTRODUCTION TO RESEARCH (ABILITY ENHANCEMENT AUDIT COURSE)

Course code: CSS1A01

| CO ID | CO Code | CO | Attainments |
|-------|---------|---------------------------------|-------------|
| | C01 | Understand research terminology | |
| | C02 | of research | |
| | C03 | literature review process | |
| | C04 | research | |
| | C05 | the field of computer Science | |

Second Semester**Course Name: DESIGN AND ANALYSIS OF ALGORITHMS****Course code: CSS2C06**

| CO ID | CO Code | CO | Attainments |
|-------|---------|--|-------------|
| | C01 | algorithmic approach for solving real-life problems. | |
| | C02 | techniques of computational complexity. | |
| | C03 | algorithms and related techniques. | |

Course Name: OPERATING SYSTEM CONCEPTS**Course code: CSS2C07**

| CO ID | CO Code | CO | Attainments |
|-------|---------|--|-------------|
| | C01 | of an operating system. | |
| | C02 | virtual memory and resource management concepts. | |
| | C03 | commercially available operating | |

Course Name: COMPUTER NETWORKS**Course code: CSS2C08**

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | down approach of networking starting from the application layer. | |
| | C02 | to introduce computer networking in the back drop of Internet protocol stack. | |

Course Name: COMPUTATIONAL INTELLIGENCE**Course code: CSS2C09**

| CO ID | CO Code | CO | Attainments |
|-------|---------|----|-------------|
|-------|---------|----|-------------|

| | | | |
|--|-----|------------------------------------|--|
| | C01 | Intelligence and Machine Learning. | |
| | | | |

Course Name: PRINCIPLES OF SOFTWARE ENGINEERING

Course code: CSS2C10

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | software engineering principles and practices. | |
| | C02 | the process of product/literature survey, techniques of problem definition, and methods of report | |

Course Name: – PRACTICAL II

Course code: CSS2L02

| CO ID | CO Code | CO | Attainments |
|-------|---------|--|-------------|
| | C01 | theory portions covered in the courses Operating System Concepts (CSS2C07) and | |
| | C02 | knowledge acquired through course The Art of Programming | |

Course Name: TERM PAPER (PROFESSIONAL COMPETENCY AI) Course code: CSS2A02

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | techniques of literature survey. | |
| | C02 | process of presenting his/her work through seminars and technical | |

| | | | |
|--|-----|--|--|
| | C03 | extensive literature survey and analysis in an area related to | |
|--|-----|--|--|

Third Semester

Course Name: Advanced Database Management System

Course code: CSS3C01

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | model, and know how to translate requirements captured in an Entity-Relationship diagram into a | |
| | C02 | relational schema. | |
| | C03 | schemas, and the decomposition process by which normal forms are | |
| | C04 | statements. | |
| | C05 | of database technologies. | |

Course Name: Principles of Compilers ;

Course code: CSS3C02

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | concepts and various phases of compiler design. | |

Course Name: Object Oriented Programming Concepts

Course code: CSS3C03

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | and programming concepts and methodologies and to learn its | |

Course Name: PRACTICAL III Course code: CSS3P06

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | theoretical aspects covered in Advanced Database Management System (CSS3C01) and Object | |
| | C02 | knowledge acquired through The Art of Programming Methodology (CSS1C04) to encompass object | |

Course Name: Data Warehousing and Data Mining

Course code: CSS3E04f

| CO ID | CO Code | CO | Attainments |
|-------|---------|--|-------------|
| | C01 | information retrieval and data mining techniques | |
| | C02 | textual document indexing, relevance ranking, web usage mining, text analytics, as well as | |
| | C03 | fundamentals of Data Analytics. | |

Course Name:Data Compression

Course code: CSS3E05a

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | significance of some basic concepts of information theory including entropy, average mutual | |
| | C02 | codes including Huffman codes and arithmetic coding. | |
| | C03 | lossless compression schemes. | |

| | | | |
|--|-----|---|--|
| | C04 | popular lossy compression schemes including delta modulation, differential pulse code | |
|--|-----|---|--|

Fourth Semester

Course Name: Principles of Software Engineering

Course code: CSS4C01

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | To develop familiarity with software engineering principles and practices. | |
| | C02 | the process of product/literature survey, techniques of problem definition, and methods of report | |

Course Name: Project Work Course code: CSS4C02

| CO ID | CO Code | CO | Attainments |
|-------|---------|---|-------------|
| | C01 | process of software development life cycle. | |
| | C02 | solution by following the software engineering principles and | |
| | C03 | Students are also encouraged to take up a research oriented work to formulate a research problem and produce results based on it. | |

Course Name: Digital Image Processing

Course code: CSS3E01a

| CO ID | CO Code | CO | Attainments |
|-------|---------|----|-------------|
|-------|---------|----|-------------|

| | | | |
|--|-----|---|--|
| | C01 | the images, recognition of the pattern and their applications | |
|--|-----|---|--|

**PG DEPARTMENT OF ENGLISH AND LITERATURE
BA ENGLISH**

COURSE OUTCOMES:-

**COURSE NAME:TRANSACTIONS:ESENTIAL ENGLISH
LANGUAGE SKILLS**

COURSE CODE:ENG1A01

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | their feelings,opinions,ideas and thoughts fluently and accurately in a variety of personal and | |
| | CO2 | of the stylistic variations of English and how they are used in | |
| | CO3 | deeper pursuit and acquisition of advanced level of skills in English | |
| | CO4 | to participate in discussions and make seminar presentations with special focus on specific | |

COURSE NAME:WAYS WITH WORDS:LITERATURES IN

COURSE CODE:ENG1A02

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|----|------------|
|------|---------|----|------------|

| | | | |
|--|-----|---|--|
| | CO1 | the ability to read, appreciate and discuss literature | |
| | CO2 | unravel various meanings of a text by understanding the linguistic | |
| | CO3 | the different genres of literature and will be able to analyse them | |

COURSE NAME:INTRODUCING LITERATURE

COURSE CODE:ENG1B01

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | meaning-making devices, verb phrases, collocations, linkers, sense groups and their functions in the | |
| | CO2 | the linguistic structures of poetic texts: symbols, metaphors and other tropes and equip them in poetic | |
| | CO3 | literary texts closely, beyond the literal | |
| | CO4 | various points of view within a single text | |

COURSE NAME:WRITING FOR ACADEMIC AND PROFESSIONAL SUCCESS

COURSE CODE:ENG2A03

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|----|------------|
|------|---------|----|------------|

| | | | |
|--|-----|--|--|
| | CO1 | writing and thought and apply the conventions of academic writing | |
| | CO2 | sense of format,syntax,grammar,punctuatio | |
| | CO3 | concepts,principles and vocabulary of reasoning and argumentation and use analysis,synthesis and | |
| | CO4 | understanding of discourse conventions ranging from structure | |

COURSE NAME:ZEITGEIST:READINGS ON CONTEMPORARY CULTURE **COURSE CODE:ENG2A04**

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | concepts such as conversation,sustainability and the life of the marginalised and their | |
| | CO2 | the diverse problems faced by womenand the sexual minorities and to promote a culture of | |
| | CO3 | multicultural and plural understanding of rights | |
| | CO4 | enshrined in the constitution of India and will receive an insight into the secular framework of the | |

COURSE NAME:APPRECIATING POETRY**COURSE CODE:ENG2B02**

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | elements of poetry,including the stylistic and rhetorical devices employed in poetry,and to various | |
| | CO2 | various perspectives in reading poetry like | |
| | CO3 | various forms of poetry written in British and American literature | |
| | CO4 | the different forms and themes of poetry produced across the globe | |

COURSE NAME:SIGNATURES:EXPRESSING THE SELF**COURSE CODE:ENG4A05**

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | critically appreciate the different genres of expressing the self | |
| | CO2 | appreciate the fluid and flexible narratives of self-expression that transcend the conventions of | |
| | CO3 | distinction between fact and fiction blur in personal narrative | |
| | CO4 | personal narratives intersect with the larger social realities | |

COURSE NAME:READING DRAMA**COURSE CODE:ENG3B01**

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | critical understanding of drama and various kinds of theatre and a range of grammatical skills and | |
| | CO2 | confidence and self-esteem I their relationships with others and also | |
| | CO3 | of involvement which motivates and encourages them to learn | |
| | CO4 | cultural diversities of the world | |

COURSE NAME:READING FICTION**COURSE CODE:ENG3B02**

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | fiction critically | |
| | CO2 | the cultural diversity of the world and extend various perspective | |
| | CO3 | meaningful context for acquiring and memorizing new language and | |
| | CO4 | involvement which motivates and encourages them to learn through | |

COURSE NAME:SPECTRUM:LITERATURE AND CONTEMPORARY ISSUES**COURSE CODE:ENG4A06**

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | humanistic dimensions of literature and media in the contemporary | |
| | CO2 | like globalisation,commercialisation and Intellectual Property Rights | |
| | CO3 | universal brotherhood by presnting critiques of race,xenophobia,war | |
| | CO4 | the rights of minorities such as children,animals the disabled and thus create positive change in their | |

COURSE NAME:MODERN ENGLISH LITERATURE

COURSE CODE:ENG4B01

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | political,religious,cultural and social trends of the Modernist and | |
| | CO2 | read,understand and respond to a wide variety of texts of the period | |
| | CO3 | the ways in which the authors achieve their effects and they can develop skills necessary for | |
| | CO4 | construct and convey meaning in speech and writing | |

COURSE NAME:METHODOLOGY OF HUMANITIESCOURSE

CODE:ENG4B02

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | distinction between the methodologies of natural, social | |
| | CO2 | the questions concerning the relation between language and | |
| | CO3 | theories of textuality and reading both Western and Indian | |
| | CO4 | methodological issues that are specific to the disciplines | |

COURSE NAME: INDIAN WRITING IN ENGLISH

COURSE CODE: ENG5B01

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | about the various phases of the evolution of Indian Writing in | |
| | CO2 | discussions on the constraints and challenges encountered in | |
| | CO3 | pluralistic aspects of Indian culture and identity | |
| | CO4 | thematic concerns, genres and trends of Indian Writing in English | |

COURSE NAME: LANGUAGE AND LINGUISTICS

COURSE CODE: ENG5B02

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|----|------------|
|------|---------|----|------------|

| | | | |
|--|-----|--|--|
| | CO1 | understanding of the human mind,of human communicative action and relations through an | |
| | CO2 | key concepts of linguistics and latest trends of Language Study | |
| | CO3 | pronunciation in everyday conversation and in reading | |
| | CO4 | English grammar,idioms,syntax and usage. | |

COURSE NAME:METHODODOLOGY OF LITERATURE

COURSE CODE:ENG5B03

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | other media,popular literature and emerging trends | |
| | CO2 | broader sensibility regarding the literary discourses through a host of contemporary as well as | |
| | CO3 | insights into the socio-political dynamics,the dominant ideology and communal underpinnings that | |
| | CO4 | constitutive elementts and cultural specificity of literature along with the intricate process of canon | |

COURSE NAME:INFORMATICS

COURSE CODE:ENG5B04

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | thoroughgeneral awareness of Computer hardware and software | |
| | CO2 | different aspects of Information Technology and Computers | |
| | CO3 | in performing common basic tasks with the computer | |
| | CO4 | will help them to use and master technology | |

COURSE NAME:LITERARY CRITICISM AND THEORY

COURSE CODE:ENG6B01

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | the factors involved in criticism like | |
| | CO2 | knowledge about the basic texts in criticis,relating to various | |
| | CO3 | thinking by using various tools of criticism-analysis,comparison and | |
| | CO4 | disciplinary nature of contemporary criticism | |

**COURSE NAME:LITERATURES IN ENGLISH:AMERICAN AND
POSTCOLONIAL**

COURSECODE:ENG6B02

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | varied literatures in English | |
| | CO2 | Students will be exposed to diverse modes of experiences and cultures | |
| | CO3 | the concepts of Post Colonialism | |
| | CO4 | compare and contrast the indigenous literature and culture | |

COURSE NAME:WOMEN'S WRITING

COURSE CODE:ENG6B03

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | concepts of class,race and gender as social constructs and | |
| | CO2 | plurality of female experience | |
| | CO3 | analytical,critical and creative skills to interrogate the biases in construction of gender and | |
| | CO4 | issues like marginalisation and subjugation of women | |

COURSE NAME:WRITING FOR THE MEDIA

COURSE CODE:ENG6B04

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | the nature of news,the role of journalism,advertising in a democratic society and the ethical | |

| | | | |
|--|-----|---|--|
| | CO2 | writing and reporting basic skills for various media including news writing for print and broadcast | |
| | CO3 | competence in the mechanics of concise and clear writing through the use of acceptable | |
| | CO4 | critically about writing for the media like broadcast | |

COURSE NAME:REGIONAL LITERATURES IN TRANSLATIONS COURSE CODE:ENG6B05E02

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | the cultural,linguistic and social nuances of regional literature | |
| | CO2 | critical and analytical skills to respond to texts in various regional | |
| | CO3 | ivecome language barrier in the appreciation of good literature | |
| | CO4 | oneness as Indians while writing to assert one's own cultural identity | |

CORE COURSES.

COURSE NAME:BRITISH LITERATURE FROM THE AGE OF CHAUCER TO THE 18th CENTURY.

COURSE CODE: EN1CO1

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|----|------------|
|------|---------|----|------------|

| | | | |
|--|-----|---|--|
| | CO1 | these literary periods and the trends of each. | |
| | CO2 | English poetry; drama ; prose and fiction. | |
| | CO3 | critical awareness of diverse cultures and literary creations and thus to arrive at a broader vision of | |

COURSE NAME : BRITISH LITERATURE: THE 19th CENTURY. COURSE CODE: EN1CO2

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | the main writers and their works of the literary period. | |
| | CO2 | authors , works and their styles. | |
| | CO3 | analyzing these works. | |

COURSE NAME: TWENTIETH CENTURY LITERATURE UP TO WORLD WAR 11 COURSE CODE: EN2CO3

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | to analyse these works from the political, historical and | |
| | CO2 | socio-political dynamics, the structuring points of view, the dominant ideology ,hegemony,the prevailing common sense and | |

COURSE NAME: CRITICISM AND THEORY.

COURSE CODE : EN2CO4

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | basis. | |
| | CO2 | interpret literature based on the given topic. | |
| | CO3 | the studentsby introducing to thema bunch of literary and | |
| | CO4 | evolution of literary theories. | |

CORE COURSES.

COURSE NAME: TWENTIETH CENTURY BRITISH LITERATURE POST 1940

COURSE CODE: EN3CO5

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | of this period. | |
| | CO2 | drama of the period and to make them analysed in the light of the | |
| | CO3 | influence literary works and vice versa. | |

COURSE NAME : THE ENGLISH LANGUAGE HISTORY AND ST COURSE CODE: EN3CO6

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---------------------------------|------------|
| | CO1 | evolutions of English language. | |

| | | | |
|--|-----|---|--|
| | CO2 | made changes to English language from time to time. | |
|--|-----|---|--|

COURSE NAME: INDIAN ENGLISH LITERATURE

COURSE CODE: EN4CO7

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | various phases of the evolution of Indian Writing in English. | |
| | CO2 | thematic concerns, genres and trends of Indian Writing in | |
| | CO3 | pluralistic aspects of Indian culture and identity. | |

COURSE NAME: DISSERTATION

COURSE CODE : EN4CO8

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | To develop writing skills. | |
| | CO2 | thought and to apply the conventions of academic writing | |
| | CO3 | urge for research. | |

ELECTIVE COURSES

COURSE NAME: BRITISH AND CONTINENTAL DRAMA.

COURSE CODE: EN1EO2

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|----------------|------------|
| | CO1 | British plays. | |

| | | | |
|--|-----|---|--|
| | CO2 | by making the students to come to grips with universal problems | |
| | CO3 | universal are bthose dramas and how politically motivated are these | |

COURSE NAME : WORLD DRAMA

COURSE CODE: EN1EO3

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | best drama. | |
| | CO2 | by making the students to come to grips with universal problems and | |

COURSE NAME: AMERICAN LITERATURE

COURSE CODE: EN2E07

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | periods of American Literature. | |
| | CO2 | poems,plays and fiction written by American authors and make the students to know the trend of these | |

COURSE NAME: EUROPEAN FICTION IN TRANSLATION

COURSE CODE : EN2E10

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---|------------|
| | CO1 | Europe's best fictions in | |
| | CO2 | by making the students to come to grips with universal problems and | |

| | | | |
|--|-----|---|--|
| | CO3 | of excellent classics in translation in various genres by a judicious selection. It should instill in the | |
|--|-----|---|--|

ELECTIVE COURSES.

COURSE NAME:FILM STUDIES

COURSE CODE: EN3E16

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | To introduce various film theories. | |
| | CO2 | the prescribed films from the perspectives the studied theories. | |
| | CO3 | of the theories. | |

COURSE NAME : WOMEN'S WRITING

COURSE CODE: EN3E19

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | concepts of class, race and gender as social construct and interrelated | |
| | CO2 | plurality of female experience in relation of these. | |
| | CO3 | critical and creative skills to interrogate the biases in the cinstruction of gender and | |

COURSE NAME: POST-COLONIAL POETRY

COURSE CODE: EN4E20

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|---------------------------------|------------|
| | CO1 | colonialism. | |
| | CO2 | literature based on the theory. | |

ELECTIVE COURSES.

COURSE NAME: AMERICAN ETHNIC WRITING

COURSE CODE: EN3E28

| COID | CO CODE | CO | ATTAINMENT |
|------|---------|--|------------|
| | CO1 | with the works of the 'voiceless people'. | |
| | CO2 | experience based. | |
| | CO3 | colonizer and how it has pushed the 'other' to the margin. | |
| | CO4 | oppression. | |

**DEPARTMENT OF MATHEMATICS
BSC MATHEMATICS**

SEMESTER 1

COURSE NAME: BASIC LOGIC AND NUMBER THEORY

COURSE CODE: MT1B01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | divisibility,greatest common divisor,least common multiple and | |
| | CO2 | of solutions of LDE. | |
| | CO3 | congruence and a few applications | |
| | CO4 | solve linear congruent equations. | |
| | CO5 | viz.wilson's theorem,fermat's little theorem,Euler's theorem and a few | |

SEMESTER 2**COURSE NAME: CALCULUS OF SINGLE VARIABLE-1****COURSE CODE:MT2B02**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | limit,continuity and differentiability | |
| | CO2 | differential calculus. | |
| | CO3 | applied in the problem of sketching of curves and in the solution of some optimization | |

SEMESTER 3**COURSE NAME: CALCULUS AND ANALYTICAL GEOMETRY****COURSE CODE:MAT3B03**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | equations of a plane, straight line, sphere, cone and cylinder | |
| | CO2 | logarithms, the exponential function, and log. | |
| | CO3 | types of series . | |
| | CO4 | divergent | |

SEMESTER 4**COURSE NAME: THEORY OF EQUATIONS, MATRICES AND VECTOR CALCULUS****COURSE CODE:MAT4B04**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----|------------|
|-------|---------|----|------------|

| | | | |
|--|-----|---|--|
| | CO1 | equations and methods of finding their algebraic solutions. | |
| | CO2 | learning process is to derive formulae for solution of third and | |
| | CO3 | other coordinate system such as polar, cylindrical and spherical. | |

COURSE NAME: VECTOR CALCULUS`

COURSE CODE:MAT5B05

| CO ID | CO code | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | appearance of multi variable function and then representation | |
| | CO2 | limit and continuity for functions of several variables. | |
| | CO3 | derivation their comutation and interpretation. | |
| | CO4 | derivatives its evaluation, interpretation and relationship | |
| | CO5 | a few of its properties applications and interpretations. | |

COURSE NAME: ABSTRACT ALGEBRA

COURSE CODE:MAT5B06

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | to sum of most fundamental algebraic structures encountered in | |

| | | | |
|--|-----|---|--|
| | CO2 | the notation of cyclic group, permutation groups various | |
| | CO3 | areas are also explored. | |

COURSE NAME: BASIC MATHEMATICAL ANALYSIS`

COURSE CODE:MAT5B07

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | many properties of real numbers and thus help to appreciate the beauty of logical arguments and | |
| | CO2 | algebraic,geometric and topological structures of real and | |
| | CO3 | between real and complex calculus | |
| | CO4 | a level of mathematical sophistication that will prepare them for further work in | |

COURSE NAME: DIFFERENTIAL EQUATIONS

COURSE CODE: MAT5B08

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | modelling process result in a differential equations. | |
| | CO2 | method of solving linear homogeneous and non | |

| | | | |
|--|-----|---|--|
| | CO3 | solving differential equations that has a wide range of applications in physics, chemistry, biology, medicine | |
|--|-----|---|--|

SEMESTER 6

COURSE NAME: REAL ANALYSIS

COURSE CODE: MAT6B09

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | fundamental result of continuous functions on intervals and | |
| | CO2 | examples/counter examples to prove or disprove the validity of several mathematical statements | |
| | CO3 | relationship among two important improper integrals namely beta and gamma functions that frequently | |

COURSE NAME: COMPLEX ANALYSIS

COURSE CODE: MAT6B10

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | differentiability and analyticity of a complex function. | |
| | CO2 | complex function | |
| | CO3 | basicity respect to the theory of complex calculus. | |
| | CO4 | to study about simple pole, residue | |

COURSE NAME: NUMERICAL METHODS

COURSE CODE: MAT6B11

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---------------------------------|------------|
| | CO1 | To solve a system of equations. | |
| | CO2 | transcendental equations. | |
| | CO3 | given set of values. | |
| | CO4 | various polynomials. | |
| | CO5 | differential equations. | |

COURSE NAME: NUMBER THEORY AND LINEAR ALGEBRA

COURSE CODE:MAT6B12

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | from integer division. | |
| | CO2 | backwards substitution. Understand the definitions of | |
| | CO3 | n,multiply integers and calculate powers,modulo n | |
| | CO4 | inverses,modulo n and use to solve linear congruences. | |

ELECTIVE COURSE

COURSE NAME: LINEAR PROGRAMMING

COURSE CODE: MAT6B14(E02)

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|------------------------|------------|
| | CO1 | problems geometrically | |
| | CO2 | geometric methods. | |

| | | | |
|--|-----|--|--|
| | CO3 | problems more effectively using simplex algorithm. | |
|--|-----|--|--|

OPEN COURSE

COURSE NAME: MATHEMATICS FOR NATURAL SCIENCE

COURSE CODE:MAT5D18

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|-----------------------|------------|
| | CO1 | median, and mode. | |
| | CO2 | notations. | |
| | CO3 | numbers. | |
| | CO4 | to solve the problem. | |

PROJECT VIVA

COURSE CODE: MAT6P14(PR)

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | area in mathematics through a project of one year duration. | |

COMPLEMENTARY COURSES

SEMESTER 1

COURSE NAME: MATHEMATICS-1

COURSE CODE: MT1C01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--------------------------|------------|
| | CO1 | limit and continuity. | |
| | CO2 | using different methods. | |

| | | | |
|--|-----|---|--|
| | CO3 | derivative of a function and differentiation rules. | |
| | CO4 | sums,definite integrals and to find area between curves,volume of | |

SEMESTER 2

COURSE NAME: MATHEMATICS-2

COURSE CODE: MT2C02

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | hyperbolic functions,improper | |
| | CO2 | and area of surface of revolution in cartesian as well as in polar | |
| | CO3 | sequences and series using | |
| | CO4 | eigen vectors of matrix | |
| | CO5 | eigen values and vectors. | |

SEMESTER 3

COURSE NAME: MATHEMATICS

COURSE CODE:MAT3C03

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | concepts of directional fields,seperable differential | |
| | CO2 | identify homogeneous and non homogeneous equations. | |
| | CO3 | characterstics vectors . | |

| | | | |
|--|-----|--|--|
| | CO4 | product and vector product, directional derivative,divergence of a vector field,curl of a vector | |
| | CO5 | integrals and surface integrals. | |

SEMESTER 4

COURSE NAME: MATHEMATICS

COURSE CODE : MAT4C04

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | equations of second and higher | |
| | CO2 | homogeneous equations. | |
| | CO3 | transform,inverse transform and integration of transform. | |
| | CO4 | to solve initial value problems for constant coefficient in linear | |

DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION
BA JOURNALISM AND MASS COMMUNICATION

Course name : Media Laws and Ethics

Course code: JOU6B12

| CO ID | CO No | CO | ATTAINMENT |
|-------|-------|--|------------|
| | CO1 | legal system and important media laws. | |
| | CO2 | freedom of speech and expression and perils of the restrictions on this | |
| | CO3 | the actual working of the media from an ethical perspective. | |
| | CO4 | responsibilities of journalists. | |

Course name: Online Journalism

Course code: JOU6B13

| CO ID | CO No | CO | ATTAINMENT |
|--------------|--------------|--|-------------------|
| | CO1 | Digital Medium. | |
| | CO2 | the role of Internet in the contemporary society. | |
| | CO3 | functional world of Internet in personal capacity. | |
| | CO4 | technology brought to journalism. | |

Course name: Introduction to Cinema

Course code: JOU6B14

| CO ID | CO No | CO | ATTAINMENT |
|--------------|--------------|--|-------------------|
| | CO1 | Prepare cinema literate students | |
| | CO2 | so that the students can have a better knowledge about the present | |
| | CO3 | application of the basic elements of film 'language'. | |
| | CO4 | entity and as an heterogeneous medium. | |

Course name: Economic and Business Reporting

Course code: JOU6B15

| CO ID | CO No | CO | ATTAINMENT |
|--------------|--------------|-----------|-------------------|
|--------------|--------------|-----------|-------------------|

| | | | |
|--|-----|--|--|
| | CO1 | the different concepts of economies | |
| | CO2 | of different business newspapers, magazines and channels | |
| | CO3 | status of Indian and Kerala economy. | |
| | CO4 | Business Journalism. | |

OPEN COURSE

Course name : Newspaper Journalism

Course code:JOU5D01

| CO ID | CO No | CO | ATTAINMENT |
|-------|-------|---|------------|
| | CO1 | about how to write a news story. | |
| | CO2 | reporting and editing and its principles. | |
| | CO3 | Develops media literacy skills. | |
| | CO4 | ideas of Newspaper Journalism. | |

PG DEPARTMENT OF PHYSICS

BSC PHYSICS

SEMESTER 1

COURSE NAME: METHODOLOGY OF SCIENCE AND BASIC M COURSE CODE: PHY1B01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | and limitations of science | |
| | CO2 | concepts of Newtonian Mechanics to physical system | |

| | | | |
|--|-----|---|--|
| | CO3 | idea of work-energy theorem to physical systems | |
| | CO4 | rotational dynamics of rigid bodies | |
| | CO5 | elasticity | |

SEMESTER 2

COURSE NAME: MECHANICS

CODE: PHY2B02

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | inertial systems and fictitious | |
| | CO2 | features of central forces with respect to planetary motion | |
| | CO3 | harmonic oscillations | |
| | CO4 | concepts of wave motion | |

SEMESTER 3

COURSE NAME: MECHANICS

COURSE CODE: PH3 B05

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | different types of frames of references and transformation | |
| | CO2 | energy and linear and angular momentum and apply them to | |
| | CO3 | fields, central forces and Kepler's laws | |
| | CO4 | Hamiltonian formulations of classical mechanics | |

| | | | |
|--|-----|---|--|
| | CO5 | theory of relativity such as length contraction and time dilation and | |
|--|-----|---|--|

SEMESTER 4

COURSE NAME: ELECTRODYNAMICS 1

COURSE CODE: PH4 B07

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | electrostatic properties of physical systems | |
| | CO2 | electric field in matter. | |
| | CO3 | magnetic properties of physical | |
| | CO4 | magnetic field in matter. | |

SEMESTER 5

COURSE NAME: ELECTRODYNAMICS II

COURSE CODE: PH5 B09

| CO ID | CO code | CO | ATTAINMENT |
|-------|---------|-------------------------------|------------|
| | CO1 | electrodynamics | |
| | CO2 | properties of electromagnetic | |
| | CO3 | transient currents | |
| | CO4 | circuits | |
| | CO5 | network theorems | |

COURSE NAME: QUANTUM MECHANICS

COURSE CODE: PH5 B10

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|------------------------------|------------|
| | CO1 | of electromagnetic radiation | |
| | CO2 | of the atom | |

| | | | |
|--|-----|---|--|
| | CO3 | properties of particles | |
| | CO4 | Schrödinger equation to simple physical systems | |
| | CO5 | mechanics to the Hydrogen atom | |

COURSE NAME: PHYSICAL OPTICS AND MODERN OPTICS

COURSE CODE: PH5 B11

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | Fermat's principles and geometrical optics | |
| | CO2 | ideas of interference of light | |
| | CO3 | ideas of diffraction of light | |
| | CO4 | polarization of light | |
| | CO5 | holography and fibre optics | |

COURSE NAME: ELECTRONICS-ANALOG AND DIGITAL

COURSE CODE: PH5 B12

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | rectifiers and dc power supplies | |
| | CO2 | transistor | |
| | CO3 | designing of transistor amplifiers and oscillators | |
| | CO4 | Op – Amp and its applications | |
| | CO5 | electronics | |

SEMESTER 6

COURSE NAME: THERMAL AND STATISTICAL PHYSICS

COURSE CODE: PH6 B16

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----|------------|
|-------|---------|----|------------|

| | | | |
|--|-----|--|--|
| | CO1 | of thermodynamics | |
| | CO2 | description of the ideal gas | |
| | CO3 | thermodynamics and its | |
| | CO4 | entropy | |
| | CO5 | thermodynamic potentials and phase transitions | |
| | CO6 | statistical physics and its applications | |

COURSE NAME: SOLID STATE PHYSICS,SPECTROSCOPY AN COURSE CODE: PH6 B17

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | crystallography in solid state physics | |
| | CO2 | spectroscopy | |
| | CO3 | microwave and infra red spectroscopy | |
| | CO4 | Understand basic ideas of LASER | |

COURSE NAME: NUCLEAR PHYSICS, PARTICLE

COURSE CODE: PH6 B18

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | nuclear structure and fundamentals of radioactivity | |
| | CO2 | nuclear reactions and their applications | |
| | CO3 | working of particle detectors | |
| | CO4 | of particle accelerators | |

| | | | |
|--|-----|----------------------------------|--|
| | CO5 | elementary particle physics | |
| | CO6 | Understant what is astro physics | |

COURSE NAME: COMPUTATIONAL PHYSICS

COURSE CODE: PH6 B19

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | programming | |
| | CO2 | Python modules | |
| | CO3 | numerical analysis | |
| | CO4 | computational techniques to physical problems | |

OPEN COURSE

COURSE NAME: NON CONVENTIONAL ENERGY SOURCES

COURSE CODE: PH5 D01(1)

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | conventional energy sources | |
| | CO2 | energy | |
| | CO3 | wind energy conversion | |
| | CO4 | geothermal and biomass energy and recognize their merits and | |
| | CO5 | oceans and chemical energy resources and recognize their | |

COMPLEMENTARY COURSES

SEMESTER 1

COURSE NAME: Properties of matter & Thermodynamics

COURSE CODE: PHY1C01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----|------------|
|-------|---------|----|------------|

| | | | |
|--|-----|-------------------------------------|--|
| | CO1 | elasticity | |
| | CO2 | tension | |
| | CO3 | Understand the aspects of viscosity | |
| | CO4 | thermodynamics | |

SEMESTER 2

COURSE NAME: Optics, Laser & Electronics

COURSE CODE: PHY2C02

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|------------------------------|------------|
| | CO1 | interference and diffraction | |
| | CO2 | polarization | |
| | CO3 | electronics | |
| | CO4 | principles of laser physics | |

SEMESTER 3

COURSE NAME: Optics , Laser , Electronics & communication

COURSE CODE: PH3 C05

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|------------------------------|------------|
| | CO1 | interference and diffraction | |
| | CO2 | polarization | |
| | CO3 | electronics | |
| | CO4 | principles of laser physics | |
| | CO5 | modulation,demodulation etc | |

SEMESTER 4

COURSE NAME: Electricity, Magnetism and Nuclear physics

COURSE CODE: PH4 C07

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|-------------------------|------------|
| | CO1 | and current electricity | |

| | | | |
|--|-----|----------------------------|--|
| | CO2 | magnetis | |
| | CO3 | of nuclear physics | |
| | CO4 | cosmic rays and elementary | |

MASTER OF PHYSICS(MSC PHYSICS)

FIRST SEMESTER

COURSE NAME: CLASSICAL MECHANICS

COURSE CODE: PHY1C01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | Hamiltonian approaches in classical mechanics. | |
| | CO2 | Quantum mechanics and get familiarized with Poisson brackets | |
| | CO3 | body in detail and ideas regarding Euler's equations of motion | |
| | CO4 | detail along with basis of Free vibrations | |
| | CO5 | equations and chaos. | |

COURSE NAME: MATHEMATICAL PHYSICS 1

COURSE CODE: PHY1C02

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | and Curl in orthogonal curvilinear and their typical applications in | |
| | CO2 | matrices that are relevant in physics and then learn about | |

| | | | |
|--|-----|--|--|
| | CO3 | functions like Gamma function, Beta function, Delta function, Dirac delta function, Bessel | |
| | CO4 | second order differential equations and familiarized with singular | |
| | CO5 | applications of Fourier series, Fourier and Laplace | |

COURSE NAME: ELECTRO DYNAMICS&PLASMA PHYSICS

COURSE CODE: PHY1C03

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | Maxwell's equations and electromagnetic boundary | |
| | CO2 | refraction are outcomes of electromagnetic boundary conditions. They will also be able design dielectric coatings which | |
| | CO3 | propagation through wave guides and transmission lines. | |
| | CO4 | special theory of relativity by including the relativistic | |
| | CO5 | physical phenomena observed in plasma | |

COURSE NAME: ELECTRONICS

COURSE CODE: PHY1C04

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|-----------------------------|------------|
| | CO1 | principles and applications | |

| | | | |
|--|-----|--|--|
| | CO2 | diode, photodetectors, solar cells etc and their working in detail | |
| | CO3 | characteristics, OPAMP parameters ,applications as | |
| | CO4 | logic gates and working of major digital devices like flip flops, | |
| | CO5 | and working of Microprocessor in detail. | |

SECOND SEMESTER

COURSE NAME: QUANTUM MECHANICS 1

COURSE CODE: PHY2C05

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | Hilbert space, concepts of basis and operators and bra and ket | |
| | CO2 | formulations of time development and their applications | |
| | CO3 | spin matrices, orbital angular momentum and ClebshGordan | |
| | CO4 | conservation laws, theory of identical particles | |
| | CO5 | calculation of scattering cross section, optical theorem ,Born and Elkonal approximation, partial | |

COURSE NAME: MATHEMATICAL PHYSICS II

COURSE CODE: PHY2C06

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----|------------|
|-------|---------|----|------------|

| | | | |
|--|-----|---|--|
| | CO1 | integration to evaluate definite integrals of varying complexity. | |
| | CO2 | theory to physics problems | |
| | CO3 | variations to diverse problems in physics | |
| | CO4 | method of Green's function to solve linear differential equations | |
| | CO5 | equations using different methods. | |

COURSE NAME: STATISTICAL MECHANICS

COURSE CODE: PHY2C07

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | and thermodynamics as logical consequences of the postulates of | |
| | CO2 | statistical mechanics to selected problems | |
| | CO3 | approach in statistical mechanics to a range of situations | |
| | CO4 | differences between classical and quantum statistics and learn about | |
| | CO5 | Bose systems and Fermi systems | |

COURSE NAME: COMPUTATIONAL PHYSICS

COURSE CODE: PHY2C08

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | language regarding different data type such as list,sets,dictionary etc. | |

| | | | |
|--|-----|--|--|
| | CO2 | modules like NUMPY, Matplotlibetc | |
| | CO3 | and enables data visualization | |
| | CO4 | numerical methods in computational Physics that can be used to solve many problems | |
| | CO5 | standing waves, central field motion, Kirchoffs law etc using | |

THIRD SEMESTER

COURSE NAME: QUANTUM MECHANICS II

COURSE CODE: PHY3C09

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | independent problems like the WKB approximation | |
| | CO2 | application to ground state of the hydrogen and Helium atom | |
| | CO3 | of an atom with the electromagnetic field | |
| | CO4 | using Dirac equation, Dirac matrices,. The Klein Gordon | |
| | CO5 | Schrödinger wave field for bosons and fermions | |

COURSE NAME: NUCLEAR AND PARTICLE PHYSICS

COURSE CODE: PHY3C10

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----|------------|
|-------|---------|----|------------|

| | | | |
|--|-----|--|--|
| | CO1 | size ,shape , bindingenergy.etc and also the characteristics of nuclear | |
| | CO2 | various nuclear models and potentials associated. | |
| | CO3 | decay processes and their outcomes. Have a wide understanding regarding beta and | |
| | CO4 | reactions, Fission and Fusion and their characteristics | |
| | CO5 | nature and classification of particles and study in detail | |

COURSE NAME: SOLID STATE PHYSICS

COURSE CODE: PHY3C11

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | systems and spatial symmetries ,- be able to account for how crystalline materials are studied | |
| | CO2 | able to perform estimates of their dispersive and thermal properties , be able to calculate thermal and | |
| | CO3 | energy bands are and know the fundamental principles of | |
| | CO4 | dielectric and ferroelectric propertiesof materials | |
| | CO5 | ferro magnetism | |
| | CO6 | superconductivity using BCS | |

COURSE NAME: EXPERIMENTAL TECHNIQUES**COURSE CODE: PHY3E05**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | of different vacuum pumps and the production and maintenance of vacuum systems and its uses and | |
| | CO2 | film preparation and production controlling techniques and the application of thin films in the | |
| | CO3 | Cryogenics technology and its applications | |
| | CO4 | various particle accelerators and its industrial uses. | |
| | CO5 | analysis techniques and applications. | |

FOURTH SEMESTER**COURSE NAME: ATOMIC AND MOLECULAR SPECTROSCOPY COURSE CODE: PHY4C12**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | and will be able to differentiate different atomic systems, different coupling schemes and their | |
| | CO2 | techniques of microwave and infrared spectroscopy to elucidate | |
| | CO3 | Raman spectroscopy and its applications in the different field | |

| | | | |
|--|-----|---|--|
| | CO4 | resonance spectroscopic techniques and its applications | |
| | CO5 | related different spectroscopic systems. | |

COURSE NAME: LASER SYSTEMS,OPTICAL FIBRES AND APP COURSE CODE: PHY4E13

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | coefficients,light amplification & line broadening mechanism | |
| | CO2 | systems,laser applications | |
| | CO3 | communication | |

COURSE NAME: MICROPROCESSORS,MICROCONTROLLER COURSE CODE: PHY4E20

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | internal architecture of the Intel | |
| | CO2 | programming and arithmetic | |
| | CO3 | different Data transfer schemes. | |
| | CO4 | I/O devices | |
| | CO5 | microprocessors like E Analog to Digital convert,7 segment LED displays,; Temperature | |

**PG DEPARTMENT OF PSYCHOLOGY
BSC PSYCHOLOGY**

SEMESTER 1

COURSE NAME: BASIC THEMES IN PSYCHOLOGY I

COURSE CODE:PSY1B01

| CO ID | CO CODE | To generate interest in Psychology | ATTAINMENT |
|-------|---------|------------------------------------|------------|
|-------|---------|------------------------------------|------------|

| | | | |
|--|-----|--|--|
| | CO1 | of the field of Psychology with an emphasis on applications of | |
| | CO2 | various theories in Psychology | |
| | CO3 | systems and processes like attention, learning and | |

SEMESTER 2

COURSE NAME: BASIC THEMES IN PSYCHOLOGY II

COURSE CODE:PSY2B01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | To generate interest in psychology | |
| | CO2 | of the field of psychology with an emphasis on the applications of | |
| | CO3 | various theories in psychology | |
| | CO4 | systems and processes like cognition, memory, motivation and | |

SEMESTER 3

COURSE NAME: PSYCHOLOGICAL MEASUREMENT AND TESTS

COURSE CODE:PSY3 B01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | psychological measurement and | |
| | CO2 | construction and to build up skills on developing psychometric test | |
| | CO3 | psychological tests | |
| | CO4 | principles in testing | |

SEMESTER 4

COURSE NAME: INDIVIDUAL DIFFERENCES**COURSE CODE:PSY4 B01**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | about systems and processes like intelligence and personality | |
| | CO2 | intelligence and personality testing | |
| | CO3 | various types of tests in | |

COURSE NAME: EXPERIMENTAL PSYCHOLOGY PRACTICAL COURSE CODE:PSY4 B02

| CO ID | CO code | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | understand himself/herself and other persons | |
| | CO2 | To develop the skills of testing and scientific reporting in psychology | |
| | CO3 | various psychological and assessment tools | |
| | CO4 | of the community with a psychological outlook | |

SEMESTER 5**COURSE NAME: ABNORMAL PSYCHOLOGY I****COURSE CODE:PSY5 B01**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | To enable students to understand the concepts of abnormal behavior | |

| | | | |
|--|-----|--|--|
| | CO2 | different types of anxiety and stress disorders | |
| | CO3 | different therapeutic techniques in management of anxiety and stress | |

COURSE NAME: SOCIAL PSYCHOLOGY

COURSE CODE:PSY5 B02

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | in social settings | |
| | CO2 | various social phenomena | |
| | CO3 | management of human behaviour in group settings | |

COURSE NAME: DEVELOPMENTAL PSYCHOLOGY I

COURSE CODE:PSY5 B03

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | Psychological perspectives | |
| | CO2 | psychological changes along with physical and cognitive | |

COURSE NAME: PSYCHOLOGICAL COUNSELLING

COURSE CODE:PSY5 B04

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | in the areas of psychological counselling | |

| | | | |
|--|-----|---------------------------------|--|
| | CO2 | counselling in various settings | |
| | CO3 | through role plays | |

COURSE NAME: HEALTH PSYCHOLOGY

COURSE CODE:PSY5 B05

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | psychological,behavioral and cultural factors contributing to | |
| | CO2 | different illnesses | |

OPEN COURSE

COURSE NAME: PSYCHOLOGY AND PERSONAL GROWTH

COURSE CODE: PSY5 D01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----------------------------|------------|
| | CO1 | in psychology | |
| | CO2 | aspects of personal growth | |

COURSE NAME: LIFESKILL APPLICATIONS

COURSE CODE:PSY5 D02

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--------------------------------|------------|
| | CO1 | To Promote lifeskill education | |
| | CO2 | and positive behavior | |
| | CO3 | self esteem | |

COURSE NAME: CHILD AND ADOLESCENT MENTAL HEALTH COURSE CODE:PSY5 D03

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | importance of mental health along with the physical health | |
| | CO2 | health issues during developmental years | |
| | CO3 | effectively handle the general mental health problems | |

SEMESTER 6

COURSE NAME: ABNORMAL PSYCHOLOGY II

COURSE CODE:PSY6 B01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | psychological disorders | |
| | CO2 | causes of major psychological disorders | |

COURSE NAME: APPLIED SOCIAL PSYCHOLOGY

COURSE CODE: PSY6 B02

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | concepts and research methods in applied psychology | |
| | CO2 | application of social psychology in different areas like clinical, | |
| | CO3 | issues in india | |

COURSE NAME: DEVELOPMENTAL PSYCHOLOGY II**COURSE CODE:PSY6 B03**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----------------------------------|------------|
| | CO1 | development of life span periods | |
| | CO2 | developments and adjustments in | |
| | CO3 | adulthood | |

COURSE NAME: LIFE SKILL EDUCATION: APPLICATIONS AN COURSE CODE : PSY6 B04

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----------------------------------|------------|
| | CO1 | To promomte life skill education | |
| | CO2 | and positive behavior | |
| | CO3 | self esteem | |

ELECTIVES**COURSE NAME: ELECTIVES****COURSE CODE:PSY6 B05**

| CO ID | CO CODE | NAME & CO | ATTAINMENT |
|-------|---------|--|------------|
| | B05-01 | BEHAVIOR- Familiarize the concept of human behavior in | |
| | B05-02 | BEHAVIOR- Mold youngsters with conceptual knowledge in | |
| | B05-03 | Understand the importance of wellbeing which allows people to understand what makes life worth | |
| | B05-04 | Provide ways and methods of teaching and classroom | |

| | | | |
|--|--------|--|--|
| | B05-05 | Create awareness about the current shading of the field of cognitive | |
|--|--------|--|--|

MSC CLINICAL PSYCHOLOGY

SEMESTER 1

COURSE NAME: PSYCHODYNAMICS AND COGNITION

COURSE CODE: CPY1 CO1

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | about cognitive psychology and its development | |
| | CO2 | approaches | |
| | CO3 | various theoretical perspectives put forth inn attention, perception and | |
| | CO4 | research work in the field of attention , perception and learning | |

COURSE NAME: PERSONALITY AND PERSONAL GROWTH

COURSE CODE:CPY1 CO2

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | understanding of Personality theories to explain uniqueness in | |
| | CO2 | personality | |
| | CO3 | ability of reflection and logical reasoning in understanding | |

COURSE NAME: PHYSIOLOGICAL PSYCHOLOGY

COURSE CODE: CPY1 CO3

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----|------------|
|-------|---------|----|------------|

| | | | |
|--|-----|--|--|
| | CO1 | about the physiological reason behind behavior | |
| | CO2 | behind mental illness | |
| | CO3 | endocrine reason behind stress | |

COURSE NAME: ADVANCED SOCIAL PSYCHOLOGY

COURSE CODE:CPY1 CO4

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | psychosocial reasons behind social issues and scientifically planand | |
| | CO2 | projects based on behavior to contribute for a positive social | |
| | CO3 | psychological findings can be used to bring about desired changes | |
| | CO4 | a social psychological phenomenon | |
| | CO5 | testing theories and testing interventions | |
| | CO6 | selected practical problems | |

COURSE NAME: CLINICAL PSYCHOLOGY I

COURSE CODE: CPY1 CO5

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | mental disorders and their causal factors | |

| | | | |
|--|-----|---|--|
| | CO2 | interventions exist to aid in alleviating the illnesses | |
|--|-----|---|--|

COURSE NAME: DIAGNOSTIC TESTING- PRACTICALS

COURSE CODE:CPY1 CO6

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | Select particular scientific tool for; | |
| | CO2 | interpret and prepare scientific | |
| | CO3 | assessment tools and demonstrate its usage in clinical setting | |
| | CO4 | assessment and evaluation of mental capacities | |

COURSE NAME: COMMUNITY EXTENSION WORK

COURSE CODE:CPY1 A01

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | of psychological services | |
| | CO2 | for psychological extension services and demonstrate skill in community services as per the | |
| | CO3 | skills | |

SEMESTER 2

COURSE NAME: NEUROPSYCHOLOGY

COURSE CODE:CPY2 CO7

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|----|------------|
|-------|---------|----|------------|

| | | | |
|--|-----|---------------------------|--|
| | CO1 | of behavior and disorders | |
| | CO2 | predictions on the basis | |
| | CO3 | cerebral asymmetry | |

COURSE NAME: RESEARCH METHODOLOGY

COURSE CODE:CPY2 CO8

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | research methods in psychology | |
| | CO2 | in psychology using scientific methods | |
| | CO3 | psychology to analyze methods, critically evaluate on the basis of the validity, reliability and | |

COURSE NAME: CLINICAL PSYCHOLOGY II

COURSE CODE:CPY2 CO9

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | diagnostic tools and classifications of psychopathology | |
| | CO2 | psychological disorders | |

COURSE NAME: PSYCHOTHERAPEUTICS I

COURSE CODE: CPY2 CO10

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---------------------|------------|
| | CO1 | psycho therapeutics | |

| | | | |
|--|-----|---|--|
| | CO2 | psychodiagnosis and explain etiological relation to the therapies | |
|--|-----|---|--|

COURSE NAME: EXPERIMENTAL PSYCHOLOGY- PRACTICAL COURSE CODE: CPY2 CO11

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | To do intelligence test, as per the need of the hour and prepare report | |
| | CO2 | tests and prepare report | |
| | CO3 | clinical psychologists, to conduct clinical assessments | |

COURSE NAME: SELF DEVELOPMENT TECHNIQUES

COURSE CODE: CPY2 AO2

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | meditation procedures for self and others, which will work for | |

SEMESTER 3

COURSE NAME: COUNSELLING PSYCHOLOGY

COURSE CODE: CPY3 CO12

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | students, parents, teachers, organisational personnel and | |
| | CO2 | of counselling with critical | |

COURSE NAME: PSYCHO THERAPEUTICS II**COURSE CODE: CPY3 C013**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | backing of psychotherapeutic | |
| | CO2 | diagnosis and work under licensed clinical psychologist | |

COURSE NAME: PSYCHO PATHOLOGY**COURSE CODE: CPY3 C014**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | symptom patterns of mental illnesses in depth | |

COURSE NAME: FIELD EXPERIMENTS**COURSE CODE: CPY3 C015**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | interviews,systematic observations and administer biofeedback | |
| | CO2 | psychology using qualitative | |
| | CO3 | of a matter,written or vocal | |
| | CO4 | psychological scales | |
| | CO5 | educational cases and conduct case studies | |

COURSE NAME: CLINICAL PRACTICUM**COURSE CODE: CPY3 CO16**

| CO ID | CO CODE | CO | ATTAINMENT |
|-------|---------|--|------------|
| | CO1 | licensed clinical psychologists in mental health centres and hospitals | |

ELECTIVES I**COURSE CODE:CP3E-01**

| CO ID | CO CODE | NAME & CO | ATTAINMENT |
|-------|---------|---|------------|
| | CPY3EO1 | utilize eastern and western theories to explain etiology of mental | |
| | | psychotherapy and explain the cultural and historic contributions | |
| | CPY3EO2 | consultant in health related behavior and work under a medical practitioner or in a hospital Conduct awareness programs in | |

SEMESTER 4**COURSE NAME: CURRENT TRENDS IN PSYCHOLOGY****COURSE CODE: CPY3CO17**

| CO ID | CO CODE | NAME AND CO | ATTAINMENT |
|-------|---------|---|------------|
| | CO1 | Understand the psychological basis of complex socio cultural behavior | |
| | CO2 | psychosocial interventions | |

COURSE NAME: ELECTIVES II**COURSE CODE: CPY4E-OII**

| CO ID | CO CODE | NAME AND CO | ATTAINMENT |
|-------|---------|--|------------|
| | CPY4EO3 | NEUROPSYCHOLOGY: Can work under the guidance of | |
| | CPY4EO4 | PSYCHOLOGY: Can practice in industrial context to support organizational effectiveness, to | |
| | CPY4EO5 | PSYCHOLOGY: Apply clinical psychology principles in forensic | |
| | CPY4EO6 | PSYCHOLOGY: To understand the role of rehabilitation | |
| | CPY4EO7 | CONSULTING PSYCHOLOGY: Work for the welfare of the diversity in the community and do | |