S.D.S.P Memorial College for women, Rayya (ASR)

Affiliated to GNDU

PROGRAM OUTCOMES (2020-21)

COURSE	OUTCOMES
M.Sc (CS)	• The Computing Technology of the programme will be used to provide the computing solution to the various needs within the institution. • The postgraduates of the programme will be equipped with the sound technical knowledge of hardware and software in the field of information technology. This appealing ability will make them to get lucrative jobs in the country and the Globe.
PGDCA	• The post graduate diploma in computer application enhances the skills among the students and they will come eligible for the jobs in the Offices, such as banks, Post-Office, Hospitals, School, and Colleges etc. • The Post Graduate diploma enables the students to polish their skills in the computer literacy and make them competent enough to stand on their feet and become self dependent and self riable.
BA	• The students will attain the knowledge in fields of social sciences and language and literature. The programme of Humanities makes the students more thoughtful for developing their sensitivities and sensibilities to the surrounding and day to day activities of life. • The BA Graduates will become familiar with the historical economical and political ideologies and concepts. They develop their critical thinking eventually. • The Humanities branch of education inculcated knowledge of human values in the students with the help of which they will pave their way to strong character building. • The Graduates of this programme will become eligible to appear for the competitive exams or they can opt B.Ed and other Post Graduate programmes of their own choice. • The students of this programme will acquire comprehensive knowledge in the fields of Arts, Culture, Fine Arts, and Literature. Therefore they will have a wide horizon of thinking logically and acting effectively with innovation. • The programme connects the students with the Community and this belongingness makes them socially awaken, morally strong, emotionally balanced and constructive citizens of the country.
B.Sc (Economics)	• The Programme will develop the scientific temperament in the students and empower them with the skills of analyzing the various issues critically. • The B.Sc Graduates will become more efficient to understand tahe

	economical status of the economy. They will have sound knowledge of the terms like Demand Supply, Utility of the commodities Budgeting etc. Thus knowledge stimulates them to work in the financial institutions, Banking sectors etc. • The B.Sc Graduates will be eligible to appear for the competitive exams and also pursue higher education in the post graduation programme.
BCA	• The programme facilitates the students to develop their scientific temperament in the specified field. • The programme will make the students capable enough to apply the current technical concepts of information technology and practice in the core Computer application. • PO3.Logical way to analyze the computer application related programme and design the solution in the scientific manner. • The Graduates of the programme will empower with the sound knowledge of Technical aspects of the computer application and become eligible to Crack the competitive exams or may choose the postgraduate programme. • The students learn the skills of communication in the interdisciplinary ambience and work as a team to accomplish the project work to demonstrate scientific leadership in academics and lndustry. • The avenues of the professional growth are always opened for the BCA Graduates.
B.Com	• The B.Com Graduates will attain the fundamental knowledge of consumerism and commercialization in the fast changing world. • The Students will be empowered with the knowledge of mathematical techniques relating to corporate law and Company law. • The programme enables the students to acquire the know income tax financial accounting, cost accounting, management accounting, corporate accounting, banking and insurance Transaction. • The B.com Graduates will become eligible for the competitive exams and also pursue higher education in post graduation. They can choose the profession of own choice such as CA, CS etc. • The Graduates would acquire the knowledge of the business activities. The job avenues for them will always be accessible in the various highlighting domains.
DCA	• Students will attain an ability to use current techniques, skills, and tools necessary for computing practice. • Students will attain an ability to apply knowledge of computing appropriate to the discipline

SPECIFIC PROGRAM OUTCOMES

M.Sc (Computer science)

SEMESTER I

Paper- Advanced Data Structures

- Basic ability to analyze algorithms and to determine algorithm correctness and time efficiency class.
- Master a variety of advanced abstract data type (ADT) and data structures and their implementations.
- Master different algorithm design techniques
- Ability to apply and implement learned algorithm design techniques and data structures to solve problems.

Paper- Advanced Computer Architecture

- Interpret the performance of a processor based on metrics such as execution time, cycles per instruction (CPI), Instruction count etc
- Predict the challenges of realizing different kinds of parallelism (such as instruction, data, thread, core level) and leverage them for performance advancement
- Apply the concept of memory hierarchy for efficient memory design and virtual memory to overcome the memory wall
- Explore emerging computing trends, computing platforms, and design trade-offs

Paper- Network Design & Performance Analysis

- The student will be able to identify the major issues in analyzing the performance of a computer system, protocol, or algorithm.
- The student will be able to list common mistakes in performance evaluation.
- The student will be able to mathematically model a system, protocol, or an algorithm.

Paper- Discrete Structures

- To gain knowledge about Sets, Relations Functions, Matrices, Mathematical logic, and Group theory.
- Understand the basic concepts of Sets, Relations Functions, Matrices, Mathematical logic, and Group theory.
- To develop understanding of Logic Sets and Functions.

- To use mathematical reasoning techniques including induction and recursion
- To understand and apply counting techniques to the representation and characterization of relational concepts.
- To develop an understanding of how graph and tree concepts are used to solve problems arising in the computer science.
- To communicate the solutions of technical problems to other professionals.

Paper- Soft Computing

- Develop intelligent systems leveraging the paradigm of soft computing techniques.
- Implement, evaluate and compare solutions by various soft computing approaches for finding the optimal solutions.
- Recognize the feasibility of applying a soft computing methodology for a particular problem
- Design the methodology to solve optimization problems using fuzzy logic, genetic algorithms and neural networks.
- Design hybrid system to revise the principles of soft computing in various applications
- Students will understand the fundamental theory and concepts of neural networks, neuron modeling, several neural network paradigms and its applications.

Paper- Programming Laboratory-I (Based on Advanced Data Structures)

- Develop programs for sorting.
- Develop programs for implementing trees and their traversal operations.
- Implement graph traversal algorithms.

- Ability to understand a systematic approach to organizing, writing and debugging C programs

- Ability to implement linear and non-linear data structure operations using C programs

- Ability to solve problems implementing appropriate data structures

- Ability to implement sorting and searching algorithms using relevant data structures.

SEMESTER II

Paper- Theory of Computation

- The students will be able to know about grammar its different types, language of a grammar and design a FA
- The students will be able to understand which problems can be solved and time complexity and which cannot be solved by a computer.
- The students will be able to construct regular expressions (RE), regular set, conversion from regular , FA for RE, FA for regular grammar and expressions, regular set vice versa.
- The students will be able to design CFG, know ambiguity in grammar, simplify CFG and design pushdown automata.

Paper- Image Processing

- Review the fundamental concepts of a digital image processing system.
- Analyze images in the frequency domain using various transforms.
- Evaluate the techniques for image enhancement and image restoration.
- Categorize various compression techniques.
- Interpret Image compression standards.
- Interpret image segmentation and representation technique

Paper- Design & Analysis of Algorithms

- Explain the major graph algorithms and their analyses.

- Analyze worst-case running times of algorithms using asymptotic analysis.
- Describe the divide-and-conquer paradigm and explain when an algorithmic design situation calls for it. Recite algorithms that employ this paradigm. Synthesize divide-and-conquer algorithms. Derive and solve recurrences describing the performance of divide-and-conquer algorithms.
- Explain the different ways to analyze randomized algorithms (expected running time, probability of error).
- Student will understand the techniques used for designing of different graph algorithms.

Paper- Cloud Computing

- Explain the core concepts of the cloud computing paradigm: how and why this paradigm shift came about, the characteristics, advantages and challenges brought about by the various models and services in cloud computing.
- Apply the fundamental concepts in datacenters to understand the tradeoffs in power, efficiency and cost.

- Identify resource management fundamentals, i.e. resource abstraction, sharing and sandboxing and outline their role in managing infrastructure in cloud computing.
- Analyze various cloud programming models and apply them to solve problems on the cloud.

Paper- Distributed Database Systems

- Fragment a database both horizontally and vertically for optimal performance.
- Discuss how current database products implement database distribution including query optimization.
- Optimize queries for optimal performance across a distributed database.
- Students will understand how to store, manipulate and maintain the data if it is distributed over multiple sites at time.

Paper- Programming Laboratory–II (Design & Analysis of Algorithm and Distributed Database Systems)

- Analyze worst-case running times of algorithms using asymptotic analysis.
- Argue the correctness of algorithms using inductive proofs and invariants.
- Analyze worst-case running times of algorithms using asymptotic analysis.

SEMESTER III

Paper- Advanced Software Engineering

- Critically analyze and evaluate the implications of software reuse.
- Understand full life-cycle design, implementation and testing of appliations built using the service-oriented methodology.
- Present software engineering concepts in a concise manner to an audience.
- Perform in depended research on a topic and present it to the audience.

Paper- System Software

- To understand the relationship between system software and machine architecture.
- To understand the processing of an HLL program for execution on a computer.
- To understand the process of scanning and parsing.
- To know the design and implementation of assemblers, macro processor, linker and compiler.
- To have an understanding of loader, system software tools.
- To understand and know the working of device drivers.

Paper- Data Mining and Warehousing

- Understand the functionality of the various data mining and data warehousing component Knowledge.
- Appreciate the strengths and limitations of various data mining and data warehousing models.
- Explain the analyzing techniques of various data.
- Describe different methodologies used in data mining and data ware housing.
- Compare different approaches of data ware housing and data mining with various technologies.

Paper- Concept of Core and Advanced Java

- It develops advanced Java programming skills that are required to fully utilize the capabilities of this object-oriented, general-purpose programming language.
- Explore Applets and HTML.
- Explore Exception Handling.
- Work with Streams and File Input/Output.

Paper- Network Programming

- Identify interfaces and frameworks for developing network applications. Solve the socket functions for data communication.
- Design TCP echo client server program.
- Develop UDP Client Server programs using socket functions.
- Analyze the difference between broadcast and multicast programs.
- Students will understand how to transmit data over network.

Paper- Programming Laboratory-III (Based on Advanced Java and Network Programming)

- Create TCP Sockets for client server communication.
- Create UDP Sockets for client server communication.
- Apply I/O multiplexing programs to handle multiple clients.
- learn the Internet Programming, using Java Applets.
- Create dynamic web pages, using Servlets and JSP.

SEMESTER IV

Paper-Advanced Web Technologies using ASP.NET

- Analyze a web page and identify its elements and attributes. Create web pages using XHTML and Cascading Style Sheets.
- Build dynamic web pages using javascript (Client side programming).
- Create XML documents and Schemas.
- Develop a dynamic web pages using javascript (client side programming).

Paper-Microprocessor and Its Applications

- Compare accepted standards and guidelines to select appropriate Microprocessor (8085 & 8086) and Microcontroller to meet specified performance requirements.
- Describe the functioning of different peripheral ics.
- Describe the Intel 8085/8086 architecture with explanation of internal organization of some popular.

Paper-Object Oriented Modeling, Analysis and Design

- Design and implement projects using OO concepts.
- Explain and implement the SW development Methodologies.
- Explain and apply basic OOPS concepts

Paper-Programming Laboratory–IV (Based on Advanced Web Technologies using ASP.NET)

- Create user interactive web pages using ASP.Net.
- Create simple data binding applications using ADO.Net connectivity.
- Performing Database operations for Windows Form and web applications.

Paper-Project Work

- Learn the basic concepts of Project & Project Management.
- Understand basics of IT Project management
- Plan, schedule and execute a project considering the risk management and apply quality attributes in software development life cycle.

PGDCA

SEMESTER I

Paper-I PC Computing-I (MS Office) 2003

- Understand the basic terminology of computers
- Understand the practical concepts of MS Word, MS Excel, MS PowerPoint, and MS Access.

Paper-II PC Computing-II (Professional DTP)

- Appreciate the role of operating system as System software.
- Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components
- Understand the difference between an operating system and an application program, and what each is used for in a computer
- Describe some examples of computers and state the effect that the use of computer technology has had on some common products
- Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems.

Paper-III Fundamentals of Computer & Operating Systems

- Appreciate the role of operating system as System software.
- Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components
- Understand the difference between an operating system and an application program, and what each is used for in a computer
- Describe some examples of computers and state the effect that the use of computer technology has had on some common products
- Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems.

Paper-IV Database Management System through Oracle-10g & System Analysis & Design

- Knowledge & Understanding : Databases and their design & development
- Intellectual Cognitive/ analytical skills: Normalization of Databases.

- Practical Skills: Using SQL and PL/SQL.
- Transferable skills: Usage of DBMS design and administration.
- Gather data to analyze and specify the requirements of a system.

SEMESTER II

Paper-I Network Concepts and Management (Hardware, Software, setting in LINUX/UNIX/NT environment)

- The cell structure and various layers of ATM.
- Various classes of IP Addressing
- Data Compression Techniques
- Cryptography
- Creating, renaming, deleting, disabling user account in Windows NT

PAPER II (PROGRAMMING IN C)

- Understand the fundamentals of C programming.
- Students will acquire knowledge and skills of programming.
- Students will be able to develop logics which will help them to create programs, applications in C.
- Also by learning the basic programming constructs they can easily switch over to any other language in future.

PAPER III (Introduction to Scripting Languages, Web Designing & Uses of Internet)

- Students will develop an understanding of the formalistic (aesthetic) aspects of design and visual communication.
- Students will demonstrate cross-platform (web, mobile, broadcast, print) storytelling skills.
- Students will demonstrate a consideration of audience and/or users in their production work.
- Students will become familiar with graphic.

PAPER IV (E-Commerce / Business)

- Demonstrate an understanding of the foundations and importance of E-commerce.

- Describe Internet trading relationships including Business to Consumer, Business-to Business, Intra-organizational.
- Describe the infrastructure for E-commerce.
- Discuss legal issues and privacy in E-Commerce.
- Recognize and discuss global E-commerce issues.

BA (Bachelor of Arts)

Department of English (Compulsory English):

SEMESTER I,II:

The students of English will see the world through the glasses of literature. Honing the skills in English language and literature will make the students competent and interactive in the global language. The literature is comprised of novel, Poetry and Drama which enable students to inculcate the skills if reading and writing. Reading of novel, drama and poetry appeal to the faculties of the students and equip them with the sagacity of interpersonal and interpersonal skills. The continuous flow of ideas makes the students obsessed with the novelty and unfamiliarisation. The characters in the drama are the mouthpiece of the emotions which resonate with the readers this connectivity inspire the students to develop their speaking skills in English language. The reading of poetry will make the students to create the imagination and visualise the picarsque and pastoral poetry .The literature will make the students to develop the ideas and confront the day to day situation. It enriches the vocabulary and lexical resource that will make the students to improve their expression and fluency in the language. The grammatical skills will enable the students to understand the technicality of the English language in the classroom teaching. English the global language and which connect us with the whole world and by learning the language students will be fascinated to read the books of the great personalities across the glove. The learning of English language will help the students to streamline their thought process, rectify their behaviour pattern learn public speaking through the medium of group discussion, debate, extempore and speech Competition. The Graduates will learn the creative writing skills through the literature read by them and improve speaking skills through story telling and interactive sessions. In the modern scenario of information technology the communication has become vital part of ICT. The students can choose this specific subject for their profession. Eventually the scope of English language and subject is comprehensive and its impact is global.

SEMESTER III,IV

The students of English will see the world through the glasses of literature. Honing the skills in English language and literature will make the students competent and interactive in the global language. The literature is comprised of novel, Poetry and Drama which enable students to inculcate the skills if reading and writing. Reading of novel, drama and poetry appeal to the faculties of the students and equip them with the sagacity of interpersonal and interpersonal skills. The continuous flow of ideas makes the students obsessed with the novelty and unfamiliarisation. The characters in the drama are the mouthpiece of the emotions which resonate with the readers this connectivity inspire the students to develop their speaking skills in English language. The reading of poetry will make the students to create the imagination and visualise the picarsque and pastoral poetry .The literature will make the students to

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SEMESTER V,VI:

The students of English will see the world through the glasses of literature. Honing the skills in English language and literature will make the students competent and interactive in the global language. The literature is comprised of novel, Poetry and Drama which enable students to inculcate the skills if reading and writing. Reading of novel, drama and poetry appeal to the faculties of the students and equip them with the sagacity of interpersonal and interpersonal skills. The continuous flow of ideas makes the students obsessed with the novelty and unfamiliarisation. The characters in the drama are the mouthpiece of the emotions which resonate with the readers this connectivity inspire the students to develop their speaking skills in English language. The reading of poetry will make the students to create the imagination and visualise the picarsque and pastoral poetry .The literature will make the students to develop the ideas and confront the day to day situation. It enriches the vocabulary and lexical resource that will make the students to improve their expression and fluency in the language. The grammatical skills will enable the students to understand the technicality of the English language in the classroom teaching. English the global language and which connect us with the whole world and by learning the language students will be fascinated to read the books of the great personalities across the glove. The learning of English language will help the students to streamline their thought process, rectify their behaviour pattern learn public speaking through the medium of group discussion, debate, extempore and speech Competition. The Graduates will learn the creative writing skills through the literature read by them and improve speaking skills through story telling and interactive sessions. In the modern scenario of information technology the communication has become vital part of ICT. The students can choose this specific subject for their profession. Eventually the scope of English language and subject is comprehensive and its impact is global.

Elective English:

SEMESTER I,II,III,IV,V,VI:
The students of Elective English understand the linguistic concepts and technicality of the literature all over the world. The programme makes the students to develop a literary and deep thinking about the Society issues. The Thoughtfulness that they acquire from reading the Novel, Drama and Poetry help them the change their Perspective from the surface level to the deep literary level. The Novelty of idea from the Novels, characterization and skills of speaking drama and the imagination from the poetry are the outcome that make the students enable to shift their level if thinking from the superficial to profound. The students of Elective English can join

the post graduation programme in English literature and may go for B.Ed. Moreover the sound knowledge of English provides the students an opportunity to teach English in the Schools and Colleges.

Department of Punjabi (Compulsory Punjabi):

SEMESTER I

1. Do Rang (Poetry section)

2. Punjab De Mahan Klakar
    'Do Rang'is poetry book which introduces to students different parts of life with its poems.

- 'Punjab De Mahan Klakar' book gives us priceless information about of life stars of Punjab like Sobha Singh, K.L.Sehgil, Prithvi Raj Kapoor, Bade Gulam Ali Khan etc.
- Grammer portion of syllabus gives knowledge of language and its importance and introduce principles of language.

SEMESTER II

1. Do Rang (Story section)
2. Punjab De Mahan Klakar

- Do Rang book is a story book and introduce students how to face problems in real life.
- Punjab De Mahan Klakar gives information about the life of great personalities like Surinder Kaur ,Balraj Sahani,Thakur Singh,Gurcharan Singh.
- Grammer portion introduce students about word structure and its categories.

SEMESTER III

1. Kav Kirti (Kav Sangreh)
2. Aadunik Ikangi (Ikangi Sangreh)
- `Kav Kirati' is the book of modern poetry with modern thinking and thoughts.
- Aadunik Ikangi Sangreh have lots of knowledge about social, political and daily life experiences of human life.

SEMESTER IV

1.Kav Kirti (Navgati part)
2.Aadunik Ikangi

- Kav Kirti book is modern poetry book with new thoughts and ideas modern poets.
- Aadunik Ikangi is one act play book which introduce students various problems and solutions in real life.

SEMESTER V

      1. Jaggbiti Huddbiti (Kahani Sanghreh)

      2.Gadh Parvah(Niband Sanghreh)

-   Jaggbiti Hadhbiti is kahani sanghreh with lots of life experiences of human life
-   Gadh Parvah is the nibandh sangreh have various problems and solutions of human life.

SEMESTER VI

      1. Jaggbiti Hudbiti

      2. Gad Parwah

- Jaggbiti Hudbiti introduces realistic life and how to face problems of life.
- Gad Parwah is a essay portion which introduce to student various problems and solutions of human life.
- Grammer portion give basic information of verbphrase and factors.

ELECTICVE PUNJABI

SEMESTER I

      1. Sukhan De Suraj (kav sangreh 2. Pavitter Pappi (Novel)

- 'Sukhan De Suraj' is the poetry book about modern poety with lots of thoughts and experiences of society.
- 'Pavitter Pappi' is the novel of the great novelist Nanak Singh which introduce that we should not right to hurt anyone knowingly or unknowingly, you should not forgive yourself whole life.

SEMESTER II

      1. Punjabi Sahit Da Itihaas (1901-1995)   2. Sahit De Roop

      Punjabi Sahit Da Itihaas introduces to students about the litreture from 1901 to 1995.

-   Sahit Da Itihaas gives knowledge about various parts of litreture like novel,story,play, one act play.

SEMESTER III

1. Madhkali Punjabi Kav (Kav Sangreh   2. Parvasi Punjabi Kahani (Kahani Sanghreh)

- Madhkali Punjabi Kav Sanghreh is the medieval poetry literature like Kissa sahit ,Vaar sahit, jangnanma ,Gurmat sahit etc.
- Parvasi Punjabi is the story book written by parvasi writers about the problems of parvasi Punjabi people.

SEMESTER IV

1. Punjabi Sahit Da Itihaas (1701-1900)
  2. Sahit De Roop
- Punjabi Sahit Da Itihaas book introduce to students about literature from 1701 to 1900.
- Sahit Da Itihaas gives knowledge about various parts of literature like vaar,jangnama,kissa,kaffi.
- Grammer portion of the syllabus give basic information about Punjabi language and Gurmukhi lippi.

SEMESTER V

1. Punjabi Kav Sanghreh (till 1700

2. Zindagi Di Raas (Gurbaksh Singh Pritladi)
3. Chandan De Ohle (Play-Pali Bhupinder)

- Punjabi kav sanghreh is the book of starting stage of Punjabi poetry near about eighth ninth century.
- Zindagi Di Raas is written Gurbaksh Singh Preetladi with modern thinking and thoughts.He said that it is the greatful event to meet another human being.
- Chandan De Ohle is the play written by Pali Bhupinder with the problems of those people whose children want to settle in Abroad.

SEMESTER VI

1. Punjabi Sahit Da Itihaas (till 1700AD)

- Punjabi Sahit Da Itihaas introduces litreture till 1700 AD.
- Literature and other disciplines have introduce literature and personality,literature and society and factors of literature.

Department of Economics:

SEMESTER 1(MICRO-ECONOMICS)

- This is the basic and important branch of Economics. In this , students study different laws which are also applicable in their daily life.
- Students study about different markets and how the prices are determined in various markets .

SEMESTER 2(MACRO ECONOMICS)

- Students study about the formulation of policies and how do the economy functions.
- Different phases of an economy are studied through trade cycles and Monetary policy, Fiscal policy and functioning of the banking sector help the students to understand the working of the government.

SEMESTER 3 (INDIAN ECONOMY)

- The study of Indian economy helps the students to know the current situation of the economy with regards to various social and economic problems.
- The detail study of the agriculture sector and Industrial sector help the students to know the previous and present changes.
- Indian Economy provides the students an opportunity to understand various concepts like foreign trade, Privatization, Balance of payments and helps the students to prepare competitive exams like UPSC, PCS and other administrative jobs.

SEMESTER 4 (INTERNATIONAL TRADE AND PUBLIC FINANCE)

- Through this paper, the students can compare the pattern of trade between nation and how trade promotes economic development.
- Public finance deals with the income and expenditure behavior of the govt. students come to know about the tax policies, kinds of taxes and how do govt. spend to promote welfare.

SEMESTER 5 (ECONOMICS OF DEVELOPMENT)

- In these paper different developments theories and models help the students to study the development pattern of different countries.
- Students learn about old and latest theories to compare the development behavior of developed and under developed countries.

SEMESTER-6 (QUANTITATIVE METHODS)

- In this paper, Economics application of different concepts helps the students in research   work and in higher studies.
- The quantitative tools help the students to interpret the results of different findings.
- The students use these results in research projects.

Department of Political Science:

BA SEM 1 (Principles of political science)

IT helps raise good citizens and good leaders. It provides knowledge about the state's constitution, law and duties. It helps people understand the significance of political institutions.

BA SEM 2 (Modern political theory)

It helps bureaucrats, politicians, government officers to interpret the laws and constitution. It also helps in understanding the problems of society and explores the ways to solve them.

BA SEM 3 (Indian Constitution)

It covers the fundamental rights and duties of citizens, structures, powers and duties of all government institutions. This subject also tells the students that it is the principle governing document of the country.

BA SEM 4 (Indian political system)

With the help of Indian political system students understand the meaning of political system .A political system means the type of political organization that can be recognized, observed or declared by a state. It defines the process for making official government decisions.

BA SEM 5 (Comparative political system)

The study of comparative politics offers insights into how different political systems work. It provides a theoretical framework for understanding and comparing the structure, process and outcome of different political systems.

BA SEM 6 (International politics)

Studying international politics not only provides a comprehensive understanding of global issues and foreign policy but also enhance critical thinking and analytical issues .students learn how to identify biases and perspectives, evaluate evidence and construct sound arguments.

Department of Physical Education:

SEMESTER I

Book Name - HEALTH PHYSICAL EDUCATION AND SPORTS

- Physical aspect of development emotional aspect of development social aspect of development Intellectual aspect of development. Aim of physical education is the whole same development of personality of an individual which means making an individual

physical fit mental alert emotionally balanced, socially well adjusted morally arue and spiritually uplifted. Physical training and coaching

- Relationship of education and physical education
- Relationship of physical training and coaching
- Pre independence and post independence sport skim in India
- Olympic common wealth and Asian game

SEMESTER II

Health education book Introduction to students about human body disease and health education

1. Skeleton system   2. Muscular system   3.Nuttrition 4.competition diet, 5.doping sports 6.Communication disease 7.Effect of alcohol and smoking health 8.communicable disease 9.During Competition Diet 10.Health Education 11.Air And Water Pollution 12. First Aid

PRACTICAL WORK

Volleyball, CRICKET   History, fundamental, rules, dimension and regulations

SEMESTER III, IV

Book Name -Health Physical Education and Sports

- It reveals the progress made by the athlete pursuant to this effort. If the learning curve indicates slow initial start, it may serve caution to the physical education teacher to analyze the factor circumstances which are hampering the proper initial starts
- Meaning of learning nature of skill learning and law of learning
- Learning curve theory lies in ability to provide valueable in sightsinto the relationship between experience skills acquisition productivity and effectiveness
- Sports psychology sports training, sports theory and practice of team sports, skill, and technique of individual sports, sports and performance psychology etc.

SEMESTER V

Book name- Health physical education and sports

- Recreation
- Endolosis and training method
- specifications of athletic
- Posture and training
- History of games
- Sports award (national and international awards trophy)
- Physical education health tournament training
- Bio -mechanic

- Competition and tournament
- Practical work for students

SEMESTER VI

- Posture deformities and causes and cractive exercise
- Common sports injuries tournament
- Competition organization compass and qualifications and responsibility of coach
- Kinesiology bio mechanics components of physical fitness
- Training method
- History of fundamental on rules and dimension
- Practical work for students

Department of Music:

SEMESTER I, II (Theory&Practical)

- The Students will able to analyze the gradual development of Indian classical music during Vedic Period and history of our instrument(Sitar) .
- The Students will able to acquire basic knowledge of various musical terms like – Sangeet, Swar, Saptak, Aroh-Avroh etc.
- Kalyan, Bilawal, Bhopali, Bhairav, Kafi and Khamaaj.
- The Students will able to play Ten Alankars of Bilawal & Bhairav Thaat on sitar.
- The Student s will able to recognize teen taal,dadra taal and rupak taal and also recite them on hand with Ekgun and Dugun layakaries
- The Students will able to read and write Gat in various notation systems enabling them to acquire vital details of the ragas**.**
- Practicability of this subject is very wide.

SEMESTER III, IV (Theory&Practical)

- The Students will able to analyze the gradual development of Indian classical music during 12th to 18th century
- The Students will understand about 'Naad' and formation of 484 ragas in thata.
- The Students will able to learn about tuning of our sitar instrument and also apply various technique on it.
- Student will able to learn and perform proficiency the ragas on instrument with different kind of gat.
- The Students will able to know about the contribution of various musical personalities towards Indian classical music.
- Student will able to learn and recite ektal on table as well as merital song with harmonium.

- Practicability of this subject is very wide.

SEMESTER V, VI

- The Students will able to analyze the Historical development of Indian classical music during modern period.
- The Students will able to acquire the knowledge about folk music if Punjab and how inter relate folk and classical music to each other.
- The Students will able to play Ten Alankars of Asawari & Bhairavi Thaat on sitar
- The Student s will able to recognize Tilwara taal, Dhammar taal and Jhumra taal and also recite them on hand with Ekgun and Dugun layakaries
- The Student s will able to describe the term gurmat sangeet and kirtan chowkies.
- The Students will able to know about the importance of time in music as well as its relation with season and time.
- Practicability of this subject is very wide.

Department of History:

B.A I Sem. - Ancient History of India

- The Study of ancient history tells us how, when and where people developed the earliest cultures in India, how they began undertaking agriculture and stock raising which life secure and settled.
- It tells us about our ancient culture, how, when, and where it developed.
- It also gets information about the origin and development of language and script.

B.A II Sem. - Medieval history of India (1000-1750)

- The Medieval period in India saw a strong control of Islamic rulers in the county.
- They Provides information about prominent rulers governed and Administered
- It tells about the greatest contribution in the fields of art, culture, literature and architecture were made them during this period.

B.A III Sem. - Modern history of India (1707-1966)

- The History of modern India is testament of the making of a nation.
- It tells about the story of how people came together and achieved a goal that was seemingly impossible.
- History is important because it is a record of human effort and progress.

B.A IV Sem. - History of Punjab (1469-1799)

- Punjab is one of the most ancient civilizations of the world with a distinguished culture.

- This land of ethnic and religious diversity; it birthplace of Hindu, Jainism, Buddhism, and Sikh religious.
- History of Punjab tell about the Ten Guru of Sikhs, Banda Singh Bahadur , Dal Khalsa and 12 Misals.

B.A V Sem. - World History (1500-1956)

- Better understanding of the world
- Teach about the past mistakes
- Buildup critical thinking
- It also tells about the world wars
-

B.A VI Sem. - History of the Punjab (1799-1966)

- History of Punjab delineates about the Sikh rule of Maharaja Ranjit Singh.
- A decade after Maharaja Ranjit Singh's death in 1839, the empire was taken over by Britishers.
- It informs about the partition of Punjab and the moment of Punjabi Suba.

DEPARTMENT OF FASHION DESIGNING:

B.A. 1st sem and B.A. 2nd sem

- Students of 1st and 2nd sem learn about basic concept of fashion and study of fashion market .
- After doing basic of stitching they learn construction of kids garments.
- Learning of sketching helps them to explain their designs. Basics of embroideries(hand stitches) improve skills to decorate surface of garments.

B.A.3rd sem and B.A.4th sem

- In B.A. 3rd and 4th sem students of fashion designing learn importance of textiles by studying fundamental of textiles (different types of fibres and yarns, weaving, knitting felting, bonding etc).
- Learning of pattern making helps all the students to create different designing in the form of female bodice block with dart manipulation, skirts, sleeves and collars.
- Dyeing , different types of printing method are helpful in creating designs. Learning of traditional embroideries like phulkari, kasuti,kantha and chikenkari improve their handwork embroidery skills.

B.A.5th and 6 th sem

- Students of 5th and 6th sem learn about traditional costumes and textiles of different states of India which help to open boutique (which based on fancy dress theme).
- Students learn basic of draping which help them to open draped dresses boutique particularly.

- Pattern cutting of different garments also help them to get cutter-master job. Learning to stitch the night suit, trousers, evening gown, jacket etc. unable them to work in showrooms as a designer.
- Students also get job in garment factories after completing graduation.

Department of Computer Applications (Vocational)

Semester 1(Computer Fundamentals & Pc Software (Theory)

- Demonstrate basic understanding of computer hardware and software.
- Apply skills and concepts for basic use of a computer.
- Identify appropriate tool of MS office to prepare basic documents, charts, spreadsheets and presentations.
- . Create personal, academic and business documents using MS office
- Create spreadsheets, charts and presentations.
- Analyze data using charts and spread sheets.

Semester 2(Programming In C)

- Understand the fundamentals of C programming.
- Students will acquire knowledge and skills of programming.
- Students will be able to develop logics which will help them to create programs, applications in C.
- Also by learning the basic programming constructs they can easily switch over to any other language in future.

Semester 3(Operating System)

- Appreciate the role of operating system as System software.
- Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components
- Understand the difference between an operating system and an application program, and what each is used for in a computer.

Semester 4(Relational Data Base Management Systems & Oracle)

- Knowledge & Understanding: Databases and their design & development.
- Intellectual Cognitive/ analytical skills: Normalization of Databases.
- Practical Skills: Using SQL and PL/SQL.

- Transferable skills: Usage of DBMS design and administration.
- Gather data to analyze and specify the requirements of a system.

Semester 5(Internet and Web Designing)

- Analyze a web page and identify its elements and attributes.
- Create web pages using X HTML and Cascading Style Sheets.
- Build dynamic web pages using JavaScript (Client side programming).
- Create XML documents and Schema.
- To develop the ability to logically plan and develop web pages.

Semester 6 (Business Data Processing)

- Describe an understanding of complete end to end business data analysis process.
- Apply analytical skills for implementation of business data processing using Business Intelligence and Reporting tools.
- Understand the practical concepts of MS-Excel.
- Understand the fundamental concepts of file processing operations and storage structures
- Analyze the sequential and indexing file accessing techniques with appropriate data structures.

Department of Drug abuse: (Ist sem)

Meaning of drug abuse

- management of drug abuse
- Prevention of drug abuse
- Controlling, drug abuse book introduce to student meaning, nature and extent of drug abuse.
- From the management of drug abuse between students learn management of the drug abuse
- preventing and controlling of drug abuse how to control drug abuse

Specific program outcome (Environmental studies)

Environmental science is a multidisciplinary academic field which systematical studies human interaction with the environment. It helps students understand how their decisions and actions change the environment; strengthen knowledge and skills needed to address complex environmental issues.

B.A- Sem III

Scope of Environmental studies

- Environmental initiatives and awareness programmes help students in clearing their doubts and building their knowledge on important issues such as climate change and sustainable living.

- Environmental issues like global warming, depletion of ozone layer, dwindling forest, energy resources, loss of global biodiversity etc. were discussed.

B.Sc ECONOMICS

Department of English (Compulsory English):

SEMESTER I,II:

The students of English will see the world through the glasses of literature. Honing the skills in English language and literature will make the students competent and interactive in the global language. The literature is comprised of novel, Poetry and Drama which enable students to inculcate the skills if reading and writing. Reading of novel, drama and poetry appeal to the faculties of the students and equip them with the sagacity of interpersonal and interpersonal skills. The continuous flow of ideas makes the students obsessed with the novelty and unfamiliarisation. The characters in the drama are the mouthpiece of the emotions which resonate with the readers this connectivity inspire the students to develop their speaking skills in English language. The reading of poetry will make the students to create the imagination and visualise the picarsque and pastoral poetry .The literature will make the students to develop the ideas and confront the day to day situation. It enriches the vocabulary and lexical resource that will make the students to improve their expression and fluency in the language. The grammatical skills will enable the students to understand the technicality of the English language in the classroom teaching. English the global language and which connect us with the whole world and by learning the language students will be fascinated to read the books of the great personalities across the glove. The learning of English language will help the students to streamline their thought process, rectify their behaviour pattern learn public speaking through the medium of group discussion, debate, extempore and speech Competition. The Graduates will learn the creative writing skills through the literature read by them and improve speaking skills through story telling and interactive sessions. In the modern scenario of information technology the communication has become vital part of ICT. The students can choose this specific subject for their profession. Eventually the scope of English language and subject is comprehensive and its impact is global.

SEMESTER III,IV

The students of English will see the world through the glasses of literature. Honing the skills in English language and literature will make the students competent and interactive in the global language. The literature is comprised of novel, Poetry and Drama which enable students to inculcate the skills if reading and writing. Reading of novel, drama and poetry appeal to the faculties of the students and equip them with the sagacity of interpersonal and interpersonal skills. The continuous flow of ideas makes the students obsessed with the novelty and unfamiliarisation. The characters in the drama are the mouthpiece of the emotions which resonate with the readers this connectivity inspire the students to develop their speaking skills in English language. The reading of poetry will make the students to create the imagination and

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SEMESTER V, VI:

The students of English will see the world through the glasses of literature. Honing the skills in English language and literature will make the students competent and interactive in the global language. The literature is comprised of novel, Poetry and Drama which enable students to inculcate the skills if reading and writing. Reading of novel, drama and poetry appeal to the faculties of the students and equip them with the sagacity of interpersonal and interpersonal skills. The continuous flow of ideas makes the students obsessed with the novelty and unfamiliarisation. The characters in the drama are the mouthpiece of the emotions which resonate with the readers this connectivity inspire the students to develop their speaking skills in English language. The reading of poetry will make the students to create the imagination and visualise the picarsque and pastoral poetry .The literature will make the students to develop the ideas and confront the day to day situation. It enriches the vocabulary and lexical resource that will make the students to improve their expression and fluency in the language. The grammatical skills will enable the students to understand the technicality of the English language in the classroom teaching. English the global language and which connect us with the whole world and by learning the language students will be fascinated to read the books of the great personalities across the glove. The learning of English language will help the students to streamline their thought process, rectify their behaviour pattern learn public speaking through the medium of group discussion, debate, extempore and speech Competition. The Graduates will learn the creative writing skills through the literature read by them and improve speaking skills through story telling and interactive sessions. In the modern scenario of information technology the communication has become vital part of ICT. The students can choose this specific subject for their profession. Eventually the scope of English language and subject is comprehensive and its impact is global.

Department of Punjabi (Compulsory Punjabi):

SEMESTER I

1. Do Rang (Poetry section)

2. Punjab De Mahan Klakar

- 'Do Rang'is poetry book which introduces to students different parts of life with its poems.
- 'Punjab De Mahan Klakar' book gives us priceless information about of life stars of Punjab like Sobha Singh, K.L.Sehgil, Prithvi Raj Kapoor, Bade Gulam Ali Khan etc.
- Grammer portion of syllabus gives knowledge of language and its importance and introduce principles of language.

SEMESTER II

1. Do Rang (Story section)
2. Punjab De Mahan Klakar

- Do Rang book is a story book and introduce students how to face problems in real life.
- Punjab De Mahan Klakar gives information about the life of great personalities like Surinder Kaur ,Balraj Sahani,Thakur Singh,Gurcharan Singh.
- Grammer portion introduce students about word structure and its categories.

SEMESTER III

1. Kav Kirti (Kav Sangreh)
2. Aadunik Ikangi (Ikangi Sangreh)

- `Kav Kirati' is the book of modern poetry with modern thinking and thoughts.
- Aadunik Ikangi Sangreh have lots of knowledge about social, political and daily life experiences of human life.

SEMESTER IV

1.Kav Kirti (Navgati part)
2.Aadunik Ikangi

- Kav Kirti book is modern poetry book with new thoughts and ideas modern poets.
- Aadunik Ikangi is one act play book which introduce students various problems and solutions in real life.

SEMESTER V

1. Jaggbiti Huddbiti (Kahani Sanghreh)
2. Gadh Parvah(Niband Sanghreh)

- Jaggbiti Hadhbiti is kahani sanghreh with lots of life experiences of human life
- Gadh Parvah is the nibandh sangreh have various problems and solutions of human life.

SEMESTER VI

1. Jaggbiti Hudbiti

2. Gad Parwah

- Jaggbiti Hudbiti introduces realistic life and how to face problems of life.
- Gad Parwah is a essay portion which introduce to student various problems and solutions of human life.
- Grammer portion give basic information of verbphrase and factors.

Department of Economics:

SEMESTER 1(MICRO-ECONOMICS)

- This is the basic and important branch of Economics. In this , students study different laws which are also applicable in their daily life.
- Students study about different markets and how the prices are determined in various markets .

SEMESTER 2(MACRO ECONOMICS)

- Students study about the formulation of policies and how do the economy functions.
- Different phases of an economy are studied through trade cycles and Monetary policy, Fiscal policy and functioning of the banking sector help the students to understand the working of the government.

SEMESTER 3(INDIAN ECONOMY)

- The study of Indian economy helps the students to know the current situation of the economy with regards to various social and economic problems.

- The detail study of the agriculture sector and Industrial sector help the students to know the previous and present changes.
- Indian Economy provides the students an opportunity to understand various concepts like foreign trade, Privatization ,Balance of payments and helps the students to prepare competitive exams like UPSC,PCS and other administrative jobs.

SEMESTER 4(INTERNATIONAL TRADE AND PUBLIC FINANCE)

- Through this paper, the students can compare the pattern of trade between nation and how trade promotes economic development.
- Public finance deals with the income and expenditure behavior of the govt. students come to know about the tax policies, kinds of taxes and how do govt. spend to promote welfare.

SEMESTER 5(ECONOMICS OF DEVELOPMENT)

- In these paper different developments theories and models help the students to study the development pattern of different countries.
- Students learn about old and latest theories to compare the development behavior of developed and under developed countries.

SEMESTER-6(QUANTITATIVE METHODS)

- In this paper, Economics application of different concepts helps the students in research work and in higher studies.
- The quantitative tools help the students to interpret the results of different findings.
- The students use these results in research projects.

Department of Mathematics:

B.sc Sem-I & II

Scope of Algebra

- The study of algebra helps in logical thinking and enables a person to break down a problem first and then find its solution.
- Real world applications of algebra can be found in wide range of sectors including engineering,science,sports,shopping etc.

Scope of Calculus and trigonometry

- It deals with the study of triangular sides and angles.
- It is branch of mathematics which keeps track of continuous change of values in variable

Scope of Calculus

- Understanding of calculus is essential for further study and the development confidence in solving practical engineering problems.
- It plays an essential role in predicting the weather , designing, buildings and bridges , to determining optimal prices for products and services.

Scope of Calculus and differential equations

- It is used for calculation of profit and loss with respect to business using graphs.
- It is used to calculate the rate of change of temperature.
- It is used to calculate the speed or distance covered such as miles per hour , kilometres per hour etc.

B.sc Sem-III & IV

Scope of Analysis

- It helps us think analytically and have better reasoning abilities.
- It helps us to solve real life problems effortlessly.

Scope of Analytical Geometry

- It is used in determining and analysing various coordinate structures such as straight lines,circles , parabolas,ellipse and hyperbolas.
- It is used in the field such as engineering and physics.

Scope of Statics and vector calculus

- It plays an important role in differential geometry and in the study of partial differential equations.
- It is used extensively in physics and engineering, especially in the description of electromagnetic fields, gravitational fields etc.

Scope of Solid Geometry

- The different types of shapes in geometry help us to understand the shapes day to day life.
- With the help of geometric concepts ,we can calculate the area, perimeter and volume of shapes.

B.sc Sem-V & VI

Scope of Vector calculus and Solid Geometry

- We can represent 3- dimensional space using vectors.
- We do 3D geometry completely using the properties of vectors.
- Any problem in science which has to deal with the direction component has to be done with the help of vectors.

Scope of Dynamics

- It helps us to establish a mathematical relation among the various terms such as Mass of the body, Force acting on it , its linear velocity.

- It helps us in observing and analyzing the motion of any physical object under the influence of force or when the object is at rest.

Scope of Linear Algebra

- For calculation of speed, distance or time.
- Used for projecting a three -dimensional view into a two -dimensional plane, handled by linear maps.

Scope of Numerical Analysis

- The general purpose of numerical analysis is to build and analyze procedures that provide approximate but correct solutions to difficult problems.
- With the help of numerical analysis, students can design algorithms and program codes to solve the real life problems.

Department Computer Applications (Vocational)

Semester 1(Computer Fundamentals & Pc Software (Theory)

Demonstrate basic understanding of computer hardware and software.

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- Identify appropriate tool of MS office to prepare basic documents, charts, spreadsheets and presentations.
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Semester 2(Programming In C)

- Understand the fundamentals of C programming.
- Students will acquire knowledge and skills of programming.
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- Knowledge & Understanding: Databases and their design & development.
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Semester 5(Internet and Web Designing)

- Analyze a web page and identify its elements and attributes.
- Create web pages using X HTML and Cascading Style Sheets.
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Semester 6 (Business Data Processing)

- Describe an understanding of complete end to end business data analysis process.
- Apply analytical skills for implementation of business data processing using Business Intelligence and Reporting tools.
- Understand the practical concepts of MS-Excel.
- Understand the fundamental concepts of file processing operations and storage structures
- Analyze the sequential and indexing file accessing techniques with appropriate data structures.

Department of Drug abuse: (Ist sem)

Meaning of drug abuse

- management of drug abuse
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- Controlling, drug abuse book introduce to student meaning, nature and extent of drug abuse.
- From the management of drug abuse between students learn management of the drug abuse
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Specific program outcome (Environmental studies)

Environmental science is a multidisciplinary academic field which systematical studies human interaction with the environment. It helps students understand how their decisions and actions change the environment; strengthen knowledge and skills needed to address complex environmental issues.

B.sc (Economics) - Sem III

Scope of Environmental studies

- Environmental study is helpful to understand the various factors of environment.
- Environmental study is helpful to understand the different food chains and food webs and the ecological balance.

BCA (Bachelor of Computer Application)

SEMESTER I

Paper–I Introduction to Programming C - I

- Analyze a given problem and develop an algorithm to solve the problem.
- Use the 'C' language constructs in the right way.
- Design, develop and test programs written in 'C'.
- Design programs involving decision structures, loops and functions.
- Understand the dynamics of memory by the use of pointers and Structures

Paper—II Introduction to Computers and Information Technology

- Familiar with parts of computer.
- Understand the input and output devices.
- Basic ideas of storage devices, computer Networks and Operating System
- Create and save files in Microsoft Word,Excel
- Format text in Microsoft Word clarity
- Use spell check and find and replace tools
- Create and format numbered and unnumbered lists
- Students will be able to practically work with MS- Office

Paper—III Applied & Discrete Mathematics

• Analyze logical propositions via truth tables.
• Prove mathematical theorems using mathematical induction.

• Understand sets and perform operations and algebra on sets.
• Determine properties of relations, identify equivalence and partial order relations, sketch relations.
• Identify functions and determine their properties.
• Define graphs, digraphs and trees, and identify their main properties.
• Evaluate combinations and permutations on sets.

Paper—IV Practical – I(MS-OFFICE 2010 and Basic C Programming)

- Understand the basic terminology used in computer programming.
- Write, compile and debug programs in Language.
- Create programs involving decision structures, loops, strings and functions.
- Design programs involving structures and pointers.
- Initiation into the process of writing business letters or job applications, tabulating data, preparing PPTs, etc. using MS-Office.
- Bridge the fundamental concepts of computer with the present level of knowledge of the students.

Paper—V Communication Skills in English – I

- Develop the student's ability to use English language accurately and effectively by enhancing their communication skills.
- Mastering the art of a professional business presentation.
- Distinguish different communication process and its practical application
- More effective written communication

Paper—VI Punjabi / Basic Punjabi (Mudhli Punjabi) (Compulsory)

- Understand and appreciate the cultural tradition includes Poetry, prose, traditional folk dance, Philosophy, film, music and meditation.
- Punjabi Course helps them understand society and make them aware of their rights and duties.
- Knowledge of modern standard Punjabi provides foundation for understanding the innumerable regional variants and various style of spoken Punjabi, which are found both within and outside the subcontinent.
- The Course enhances their critical thinking.
- Use Punjabi to communicate with others.

SEMESTER -II

Paper–I Introduction to Programming C ++

- To be able to develop C programs on compiler.

- Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.
- Develop confidence for self-education and ability for life-long learning needed for Computer language.
- Utilize the best of the inbuilt functions for various input and output operations.
- Implement the concept of arrays.
- Implement problem solving skills using pointer concept of the programming languages.
- Work efficiently with files using the programming languages.

Paper – II Principles of Digital Electronics

- To introduce the fundamentals of computers
- To introduce basic postulates of Boolean algebra and shows the correlation between Boolean expressions
- To outline the formal procedures for the analysis and design of combinational circuits and sequential circuits
- To introduce the concept of computer memories

Paper – III Numerical Methods & Statistical Techniques

- To learn how to perform error analysis for arithmetic operations.
- To demonstrate working of various numerical methods.
- To provide a basic understanding of the derivation and use of methods of interpolation and numerical integration.
- To impart knowledge of various statistical techniques.
- To develop students' understanding through laboratory activities to solve problems related to above stated concepts.
- Skill to choose and apply appropriate numerical methods to obtain approximate solutions to difficult mathematical problems. Central Tendency and Dispersion.
- Understanding of relationship between variables using the method of Correlation and Trend Fit Analysis.
- Skill to execute programs of various Numerical Methods and Statistical Techniques for

Paper – IV Practical – I (Advanced C++ Programming)

- To demonstrate working of various numerical methods using C Programming.
- To impart knowledge of various statistical techniques using C Programming.

- To develop students' understanding through laboratory activities to solve problems related to above stated concepts.

Paper – V Communication Skills in English – II (Th.35+Pr.15)

- The course prepares the students to meet the challenges of the modern competitive society.
- It makes them more confident to face interviews, group discussions and increases their capability of acquiring jobs in different fields.
- The practical work improves their communication and writing skills, and at the same time equips them with the use of the modern forms of communication.
- It also develops their overall confidence and personality.

Paper – VI Punjabi/Basic Punjabi (Mudhli Punjabi) (Compulsory)

- Access a rich and diverse cultural tradition developed over a long period of time.
- This tradition includes Poetry, Prose, traditional folk dance, philosophy, film, music and meditation.
- The Course enhances their critical thinking. Apply Punjabi to work, further study, translator job and also so many opportunities.

Paper—VII Drug Abuse: Problem Management and Prevention (Compulsory Paper)

- Describe the behavioral, psychological, physical health and social affects of psychoactive substances on the person using, and significant others.
- Provide culturally relevant formal and informal education programs that raise awareness and support substance abuse prevention and the recovery process.
- Describe factors that increase the likelihood for an individual, community or group to be at-risk for, or resilient to, psychoactive substance use disorders.
- Describe issues of cultural identity, ethnic background, age and gender in prevention, treatment and recovery.
- Describe warning sign, symptoms, and the course of substance use disorders. — Describe principles and philosophy of prevention, treatment and recovery.
- Describe current and evidenced-based approaches practiced in the field of addictions.

SEMESTER -III

Paper–I Computer Architecture

- Understood Computer Architecture.
- Understood processor design, control unit design
- Recognize and understand different Number systems, Logic Gates, Basics of Boolean Algebra.

- Design Combinational and Sequential Circuits, flip – flops etc.
- Describe the design and structure of Central Processing Unit and Memory.
- Compare the design of Modern processors, Memories and I/Os.

Paper–II Database Management System

- Understand the fundamental elements of Database Management System using basic concepts of data model, entity-relationship model, database design etc.
- Design ER-Models to represent simple database application scenarios and convert them into tables.
- Implement Normalization for the optimization of Database Design Use MS-Access package as Database Management software.
- Formulate, using SQL, solutions to a broad range of query and data update problems.

Paper–III Introduction to Python Programming

- Create your first program in Python IDLE.
- Implement OOPs concepts in your programming.
- Use Arrays, and Data structures.
- Create an application with the support of graphics in Python.
- Implement error handling.
- Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.

Paper–IV Programming Lab Python
- Write, Test and Debug Python Programs Create.
- Implement Conditionals and Loops for Python Programs
- Use functions and represent Compound data using Lists, Tuples and Dictionaries Apply
- Read and write data from & to files in Python.

Paper–V Programming Lab – Oracle

- Able to understand various queries and their execution
- Populate and query a database using SQL DML/DDL commands.
- Declare and enforce integrity constraints on a database Programming PL/SQL including stored procedures, stored functions, cursors, packages
- Able to design new database and modify existing ones for new applications and reason about the efficiency of the result

SEMESTER – IV:

Paper – I Data Structure & File Processing

- Apply appropriate constructs of Programming language, coding standards for application development
- Use appropriate data structures for problem solving and programming
- Use algorithmic foundations for solving problems and programming
- Apply appropriate searching and/or sorting techniques for application development.
- Develop programming logic and skills.

Paper – II Information Systems

- Define the basic concepts of Information Systems.
- Describe the types of information systems supporting the major functional areas of the business.
- Apply different technologies of MIS in the area of business.
- Distinguish the classical and contemporary models of managerial activities and roles.

Paper – III Internet Applications

- Understand, analyze and develop computer programs in the areas related to algorithm, web design and networking for efficient design of computer based system.
- Work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.
- Comprehensive knowledge of Internet and it's working. Ability to use services offered by internet
- Skill to develop websites using HTML and DHTML.

Paper – IV System Software

- Detailed knowledge of Compilation process of a program.
- Knowledge of internal working of macro processor.
- Familiarization with Assembly language.
- Understanding the working of linker and loaders – components used during the process● of program execution.

Paper – V Lab – Data Structures Implementation using C++

- Apply appropriate constructs of Programming language, coding standards for application development.
- Develop programming skills for solving problems.

- Apply appropriate searching and/or sorting techniques for application development

Paper – VI Lab – Web Designing and use of Internet

- Implement Static/Dynamic concepts of web designing.
- Develop ability to retrieve data from a database and present it in a web page.
- Design web pages that apply various dynamic effects on the web site.

Paper – VII Environmental Studies – II (Compulsory)

- After completion of the course, the student will Understand multidisciplinary nature of environmental studies.
- Understand the concept and types of natural resources and environmental pollution.
- Evaluate the anomalies created due to haphazard population growth and its impact on environment.
- Understand about the organizations, conventions and legislations working on mitigation of environmental issues

SEMESTER – V:

Paper – I Software Engineering

- Aware about the engineering approach to analysis, design and built the software
- Understand the phases and activities involved in the conventional software life cycle models
- Analyze problems, and identify and define the computing requirements appropriate to its solution.
- Apply design and development principles in the construction of software systems of varying complexity Apply current techniques, skills, and tools necessary for computing practice.

Paper – II Web Technologies

- Understand, analyze and apply the role of languages like HTML, DHTML,CSS, XML, JavaScript, VBScript, ASP, PHP and protocols in the workings of the web and web applications.
- Analyze a web project and identify its elements and attributes in comparison to traditional projects. Understand, analyze and create web pages using HTML, DHTML and Cascading Styles Sheets. Understand, analyze and build dynamic web pages using JavaScript and VB Script (client side programming).
- Understand, analyze and build interactive web applications.

Paper – III Operating System

- Discuss the evaluation of operating systems.
- Explain different resource managements performed by operating system.
- Describe the architecture in terms of functions performed by different types of operating systems. Analyze the performance of different algorithms used in design of operating system components.

Paper – IV JAVA Programming Language

- Describe the fundamental concepts and features of Java Programming language.
- Implement Object Oriented Programming Concepts (class, constructor, overloading, inheritance, overriding) in java.
- Implement concepts of Multithreading and Exception Handling in Java.
- Create and Use Packages and Interfaces in a Java program and Develop Graphical User Interface applications and Web based applications in Java by importing applet, AWT
-

Paper – V Lab based on JAVA Programming Language

- Able to understand the use of OOPs concepts.
- Able to solve real (time) problems using OOP techniques.
- Able to understand the use of abstraction.
- Able to understand the use of Packages and Interface in java.
- Able to develop and understand exception handling, multithreaded applications with synchronization. Able to design GUI based applications and develop applets for web applications.
- Able to handle IOstreams

Paper-VI Lab based on ASP.NET

- Ability to develop web pages using HTML and Cascading Style Sheets.
- Skill to create XML documents and Schemas.
- Knowledge of client-side (JavaScript) and server-side scripting (PHP, ASP.NET)
- Languages to build dynamic web pages.
- Familiarization with Web Application Terminologies, Internet Tools, E – Commerce and other web services.
- Ability to develop database applications with MySQL.

SEMESTER – VI:

Paper – I Computer Graphics

- This course deals with two and three dimensional transformation, projection and graphical functions.
- It helps to have a better understanding of 2D and 3D technologies. Provide comprehensive introduction about computer graphics system.
- Design algorithms to generate the basic primitives.
- Familiar with techniques of clipping, three dimensional graphics and three dimensional transformations.
- Familiar with animations.

Paper – II Computer Networks

- Familiar with the different Network Models.
- Understand different network technologies and their application.
- Update with different advanced network technologies that can be used to connect different networks familiar with various hardware and software that can help run a smooth network

Paper – III Lab. Implementation of Applications of Computer Graphics in C++/C

- Apply the knowledge of mathematics, science and computing in the core information technologies. Identify, design, and analyze complex computer systems and implement and interpret the results from those systems.
- To understand the core information technologies involved in mathematics, science and computing.
- To prepare project reports in their respective subjects independently.

Paper – IV Project

- Formulate projects with clearly identified scope and requirements.
- Understand the practical implementation of Software Development Life Cycle.
- Implement programming theories, concepts and principles & use latest computing tools for Software Development.
- Develop team building capacity and work ethics for successful project development and management.

B.Com PASS and HONS.(Semester I)

Paper- English (Compulsory English):

SEMESTER I,II:

The students of English will see the world through the glasses of literature. Honing the skills in English language and literature will make the students competent and interactive in the global language. The literature is comprised of novel, Poetry and Drama which enable students to inculcate the skills if reading and writing. Reading of novel, drama and poetry appeal to the faculties of the students and equip them with the sagacity of interpersonal and interpersonal skills. The continuous flow of ideas makes the students obsessed with the novelty and unfamiliarisation. The characters in the drama are the mouthpiece of the emotions which resonate with the readers this connectivity inspire the students to develop their speaking skills in English language. The reading of poetry will make the students to create the imagination and visualise the picarsque and pastoral poetry .The literature will make the students to develop the ideas and confront the day to day situation. It enriches the vocabulary and lexical resource that will make the students to improve their expression and fluency in the language. The grammatical skills will enable the students to understand the technicality of the English language in the classroom teaching. English the global language and which connect us with the whole world and by learning the language students will be fascinated to read the books of the great personalities across the glove. The learning of English language will help the students to streamline their thought process, rectify their behaviour pattern learn public speaking through the medium of group discussion, debate, extempore and speech Competition. The Graduates will learn the creative writing skills through the literature read by them and improve speaking skills through story telling and interactive sessions. In the modern scenario of information technology the communication has become vital part of ICT. The students can choose this specific subject for their profession. Eventually the scope of English language and subject is comprehensive and its impact is global.

Paper- Punjabi (Compulsory Punjabi):

1. Do Rang (Poetry section)

2.PunjabDeMahanKlakar

- 'Do Rang'is poetry book which introduces to students different parts of life with its poems.
- 'Punjab De Mahan Klakar' book gives us priceless information about of life stars of Punjab like Sobha Singh, K.L.Sehgil, Prithvi Raj Kapoor, Bade Gulam Ali Khan etc.
- Grammer portion of syllabus gives knowledge of language and its importance and introduce principles of language.

- **1.FINANCIAL ACCOUNTING**
    1. It enables the student to conclude the financial statements and helps in providing financial data to business for making decision.
    2. The students will get thorough knowledge on the accounting practices prevailing partnership firms and other allied aspects.
    3. To encourage the students about maintain the books of accounts for further references.

- **BUSINESS ORGANIZATION**
    1. This subject describes how to organize the entire work of organization with optimum use of resources.
    2. To build up conceptual, analytical, technical and managerial skills of students regarding efficient office organization.
- **BUSINESS STATISTICS**
    1. It tells the students about various statistical tools and techniques of data collection.
    2. To understand the techniques and concepts and different types of index numbers.
- **Paper- BUSINESS COMMUNICATION**
1. The teaching learning pedagogies used in the programme will make the students capable enough to deliver and communicate information pertaining to business effectively.
2. Mastering the art of professional business presentation.
3. Communicate effectively in speech and writing.
4. Write personal correspondence and reports effectively.
5. Understand methods and channels of communication
- **Paper-COMPUTER FUNDAMENTAL**
1. Familiar with parts of computer.
2. Understanding the concept of input and output devices of Computers.
3. Learn the functional units and classify types of computers, how they process information and how individual computers interact with other computing systems and devices.
4. Understand an operating system and its working

SEMESTER II:

- # Paper- Punjabi (Compulsory Punjabi):
    1.Do Rang(Storysection)
    2. Punjab De Mahan Klakar
    1. Do Rang book is a story book and introduce students how to face problems in real life.
    2. Punjab De Mahan Klakar gives information about the life of great personalities like Surinder Kaur, Balraj Sahani,Thakur Singh,Gurcharan Singh.
    3. Grammer portion introduce students about word structure and its categories.

- **ADVANCE FINANCIAL ACCOUNTING**
  1. It develops student's ability to construct accounting reports and make decisions from accounting information.
  2. To enables the students to learn principles and concepts of accountancy.
  3. Students can use this knowledge for their own startups.

- **COMMERCIAL LAW**
  1. It provides various laws regarding trade to traders.
  2. Be acquainted about the legal aspects of trade between the companies.
  3. To familiarize with case law studies related to business laws.
- **BUSINESS ECONOMICS**
  1. It gives brief knowledge about macro and micro economics.
  2. Students get to know about national income concepts.
  3. It makes students to be capable of understanding economic policies.

- **FUNCTIONAL MANAGEMENT**
  1. It provides the management effective techniques to manage the resources.
  2. Students can hold the position of functional managers in the respective fields.
  3. This subject also encourages the students to take part in managerial decisions within the organizations.
- **SEMINAR**
  4. Students enable to learn various techniques, rules and regulation to make a project and enhance the knowledge about their subject.
  5. It encourages the students to give the paper and ppt. presentations in front the students and their tutors.

Paper- Drug abuse: (IInd sem)

Meaning of drug abuse

- management of drug abuse
- Prevention of drug abuse
- Controlling, drug abuse book introduce to student meaning, nature and extent of drug abuse.
- From the management of drug abuse between students learn management of the drug abuse
- preventing and controlling of drug abuse how to control drug abuse

SEMESTER III:
Paper- English Compulsary:(Semester III,IV)

The students of English will see the world through the glasses of literature. Honing the skills in English language and literature will make the students competent and interactive in the global language. The literature is comprised of novel, Poetry and Drama which enable students to

inculcate the skills if reading and writing. Reading of novel, drama and poetry appeal to the faculties of the students and equip them with the sagacity of interpersonal and interpersonal skills. The continuous flow of ideas makes the students obsessed with the novelty and unfamiliarisation. The characters in the drama are the mouthpiece of the emotions which resonate with the readers this connectivity inspire the students to develop their speaking skills in English language. The reading of poetry will make the students to create the imagination and visualise the picarsque and pastoral poetry .The literature will make the students to develop the ideas and confront the day to day situation. It enriches the vocabulary and lexical resource that will make the students to improve their expression and fluency in the language. The grammatical skills will enable the students to understand the technicality of the English language in the classroom teaching. English the global language and which connect us with the whole world and by learning the language students will be fascinated to read the books of the great personalities across the glove. The learning of English language will help the students to streamline their thought process, rectify their behaviour pattern learn public speaking through the medium of group discussion, debate, extempore and speech Competition. The Graduates will learn the creative writing skills through the literature read by them and improve speaking skills through story telling and interactive sessions. In the modern scenario of information technology the communication has become vital part of ICT. The students can choose this specific subject for their profession. Eventually the scope of English language and subject is comprehensive and its impact is global.

- ## **Paper- Punjabi (Compulsory Punjabi):**

  1.KavKirti(KavSangreh)
  2. Aadunik Ikangi (Ikangi Sangreh)

- `Kav Kirati' is the book of modern poetry with modern thinking and thoughts.
- Aadunik Ikangi Sangreh have lots of knowledge about social, political and daily life experiences of human life.

- **CORPORATE ACCOUNTING**
  1. It provides advance knowledge of accounting to attain the better position in a corporate world.
  2. This subject gives the information to the students about various securities traded in the financial market.
  3. To impart knowledge about holding company account, amalgamation and reconstruction of companies.
- **COMPANY LAW**
  1. It provides rules and regulations information and registration of companies.
  2. To impart students with the knowledge of fundamentals of company law and provisions of the companies Act, 2013.

- **FINANCIAL MANAGEMENT**
    1. It enhances the knowledge of investor about stock market and money market in the economy.
    2. It gives detailed information about the operations and development of financial market in India.
    3. It also enables to students to trade in the money market of the country.

- **INTERNATIONAL BUSINESS**
    1. This subject helps in providing the knowledge of various government policies related to trade across the countries.
    2. It also helps the students in understanding international economies in a better way.
    3. Students get to know about new economic policy followed by Indian government i.e. LPG Regime.
- **BUSINESS ENVIRONMENT**
    1. This subject helps in providing the knowledge of various government policies related to business.
    2. To develop entrepreneurial awareness among students.
    3. To motivate students to make their mindset for adopting entrepreneurship as career option.

SEMESTER IV:
• Paper- Punjabi (Compulsory Punjabi):
    1. KavKirti(Navgatipart)
    2. Aadunik Ikangi
- Kav Kirti book is modern poetry book with new thoughts and ideas modern poets.
- Aadunik Ikangi is one act play book which introduce students various problems and solutions in real life.

Paper- Environmental Studies – II (Compulsory)

- Environmental studies help us understand the impact of environment on human life and the impact of human life on environment.
- Environmental study has directed the attention of the people towards the problem of population explosion, exhaustion of natural resources and has thrown light on the method of solving those problems.

- **1. GST**
    1. It guides the students about new indirect taxation system in the economy.
    2. It also describes the various tax slabs which are enforced by the government
    3. It enhances the business houses to run their business without the fear of double taxation policy.

- **INDUSTRIAL LAW**
    1. It helps the workers to protect their working rights and ensure their health in their working place.
    2. The students would be able to illustrate the role of trade union in the industrial setup.
    3. Students get to know about industrial dispute settlement procedure.

- **PRINCIPLES AND PRACTICES OF BANKING AND INSURANCE**
    a. It helps to identity the services available in banking and insurance sector.
    b. It helps to identity the risk surrounding the decisions that are taken by the manager in the firm.
    c. C .It encourages the students to know about various banking rules and regulations of commercial banks and central bank.
    d. Students get to know about various facilities which are offered by banking sector

- **COST ACCOUNTING**
1. It provides various techniques of controlling the cost.
2. It also enables the students to calculate fixed and variable cost of the output in the production process.
3. This subject encourages the students to learn about cost controlling techniques such as ABC and historical cost method.

    5. SEMINAR
    1. Students enable to learn various techniques, rules and regulation to make a project and enhance the knowledge about their subject
    2. It encourages the students to give the paper and ppt. presentations in front the students and their tutors.

SEMESTER V:

Paper English (Compulsory) SEMESTER V,VI:

The students of English will see the world through the glasses of literature. Honing the skills in English language and literature will make the students competent and interactive in the global language. The literature is comprised of novel, Poetry and Drama which enable students to inculcate the skills if reading and writing. Reading of novel, drama and poetry appeal to the faculties of the students and equip them with the sagacity of interpersonal and interpersonal skills. The continuous flow of ideas makes the students obsessed with the novelty and unfamiliarisation. The characters in the drama are the mouthpiece of the emotions which resonate with the readers this connectivity inspire the students to develop their speaking skills in English language. The reading of poetry will make the students to create the imagination and visualise the picarsque and pastoral poetry .The literature will make the students to develop the ideas and confront the day to day situation. It enriches the vocabulary and lexical resource that will make the students to improve their expression and fluency in the language. The grammatical

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- ## Paper- Punjabi (Compulsory Punjabi):

    1.Jaggbiti Huddbiti(KahaniSanghreh)
    2.Gadh Parvah(Niband Sanghreh)

- Jaggbiti Hadhbiti is kahani sanghreh with lots of life experiences of human life Gadh Parvah is the nibandh sangreh have various problems and solutions of human life.

- **MANAGEMENT ACCOUNTING**

    1. It provides the various management techniques to management to maintain the books of accounting.
    2. It also gives various principles and procedure to use the management accounting.
    3. Management accounting also helps in analyzing information related to capital expenditure decisions.

- **DIRCT TAX LAW**
    1. It gives the information to the students about tax filing and returns filing to the government.
    2. Students get to know about the structure followed by the government while filling the tax returns to the government.
    3. It enables the students to calculate their tax liability on their own.

- **BANKING SERVICES MANAGEMENT**
    1. This subject provides the information about the banking system and their services.
    2. It encourages the students to know about various banking rules and regulations of commercial banks and central bank.
    3. Students get to know about various facilities which are offered by banking sector.
- **INSURANCE SERVICES MANAGEMENT**
    1. This subject imparts the knowledge about number of insurance services to management.
    2. Graduates will be able to demonstrate knowledge of insurance contract and provisions.
    3. Students will be able to develop skills to facilitate insurance product cost and pricing,

marketing and distribution.

SEMESTER VI:

- ## Paper- Punjabi (Compulsory Punjabi):

    1. Jaggbiti Hudbiti

    2. Gad Parwah

- Jaggbiti Hudbiti introduces realistic life and how to face problems of life.
- Gad Parwah is a essay portion which introduce to student various problems and solutions of human life.
- Grammer portion give basic information of verbphrase and factors.

- ## OPERATIONS RESEARCH
    1. It helps the students to boost their cognitive skill.
    2. It helps management in taking various decisions related to industrial production.
    3. It also provides methods to minimize the transportation cost while transferring goods from one industry to another.

- ## CORPORATE GOVERNANCE
    1. It gives information about set of rules regarding governing the business within the organization.
    2. It fosters information among students regarding the various scams done in the past such as sat yam computers, worldwide scam etc.
    3. It enables the students to raise their voice against fraud activities within the firm.

- ## WORKSHOP (STOCK MARKET)
    1. It helps the students to improving their knowledge regarding the investment of funds in different securities market.
    2. It encourages the students to give the paper and ppt. presentations in front the students and their tutors.

- ## PORTFOLIO MANAGEMENT
    1. It guides the students about the portfolios of securities in which they can earn maximum profits with lower risks.
    2. It also enables to students to trade in the money market of the country.

    3. It helps students to be good investors in the future.

- **FINANCIAL SERVICES**
  1. It guides the student about the primary and secondary market of the economy.
  2. To motivate students to make their mindset for adopting entrepreneurship as career option.

DCA (Diploma Course in Computer Application (Full Time))

SEMESTER I

PAPER I (Information technology & OS)

- Familiarity with parts of computer
- Understand the input and output devices.
- Appreciate the role of operating system as system software.
- Understand the fundamental hardware component that makeup a computer"s hardware and the role of each of these components
- Understanding the difference between an operating system& application program. □ Basic ideas of storage devices, computer networks and programming languages.

PAPER II (PC-1)

- Understanding the concept of input and output devices of Computers
- Learn the functional units and classify types of computers, how they process information and how individual computers interact with other computing systems and devices.
- Understand an operating system and its working, and solve common problems related to operating systems
- Learn basic word processing, Spreadsheet and Presentation Graphics Software skills.
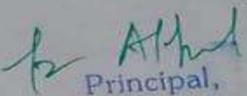
SEMESTER II
Paper–I Database Management System

- Understand the fundamental elements of Database Management System using basic concepts of data
  model, entity-relationship model, database design etc.
- Design ER-Models to represent simple database application scenarios and convert them into tables.
- Implement Normalization for the optimization of Database Design Use MS-Access package asDatabase Management software.Formulate, using SQL, solutions to a broad range of query and data update problems.

Paper–II PC Computing–II

- Create and format numbered and unnumbered lists
- Students able to work with MS-Excel
- Able to work with MS-Access
- Students able to create Excel sheets and Format it.

Principal,
S.D.S.P.M. College,
for Women, Rayya (Asr.)