Palus Shikshan Prasarak Mandal's ARTS, COMMERCE AND SCIENCE COLLEGE, PALUS PROGRAM OUTCOMES

SR. NO.	PROGRAMME	PROGRAM OUTCOMES
		After the completion of the B. A. Programme, the students will be able:
		1. To develop capabilities of communication skills
		2. To understand knowledge in the field of humanities.
1	B.A.	3. To be cultured and good citizen of India
		4. To get employment
		5. To use soft skills
		6. To be social and culturally aware
		7. To make all round personality development of the learners
		8. To develop conscious leaders and problem solvers.
		After the completion of the B. Com. Programme, the students will be
		able:
2	B.COM.	1. To understand the principal and areas of management.
		2. To acquire entrepreneurship qualities and skills.
		3. To understand basic accounting knowledge as applicable to business.
		4. To accept the changing role of business in the process of Globalization.
		5. To understand basic knowledge of statistical techniques applicable to
		business.
		6. To understand the concepts in Insurance, Banking, Marketing and e-
		commerce,

		Δft	er the completion of the B. Sc. programme, the students will be able to:
		1.	develop inquiring minds and curiosity about science and the natural
			world
		2.	acquire knowledge, conceptual understanding and skills to solve
			problems and make informed decisions in scientific and other contexts
		3.	develop skills of scientific inquiry to design and carry out scientific
			investigations and evaluate scientific evidence to draw conclusions
		4.	communicate scientific ideas, arguments and practical experiences
	B.Sc.		accurately in a variety of ways
3		5.	think analytically, critically and creatively to solve problems, judge
			arguments and make decisions in scientific and other contexts
		6.	appreciate the benefits and limitations of science and its application in
			technological developments
		7.	understand the international nature of Science and the interdependence
			of science, technology and society, including the benefits, limitations
			and implications imposed by social, economic, political, environmental,
			cultural and ethical factors
		8.	demonstrate attitudes and develop values of honesty and respect for
			themselves, others, and their shared environment.

PROGRAM SPECIFIC OUTCOMES AND COURSE OUTCOMES

SD		
NO.	PROGRAM SPECIFIC	PROGRAM SPECIFIC OUTCOMES
		1. To understand importance of language in day to day like
		2. To understand appreciate Marathi literature
1	MARATHI	3. To learn various forms of Marathi literature
		4. To get interest in reading Marathi literature.
		5. To understand to creative process and nature of literature
		6. To be teacher/professor/translator/writer/reporter/interpreter/editor
		7. To know difference formal and internal use of language.
		1. To prerogative Hindi as national language.
2	HINDI	2. To make use of Hindi in day-to-day life
_		3. To know Hindi literature and its various forms.
		4. To know the difference between formal and informal use of language
		5. To develop communication skill in Hindi
		6. To be teacher in specific language

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			After completion of this course, students would be able to:
		1.	Enhance their linguistic competence.
3	ENGLISH	2.	Describes object, people and places.
		3.	Improve writing and speaking skills.
		4.	Improved literary competence through short stories, poems and essays.
		5.	Understand the process the creative writings in English
		1.	To get acquainted with the history of Maratha
		2.	To study the comprehensive history of Chhatrapati Shivaji
		3.	To understand events of freedom movement of India & the contribution
			of the freedom fighters.
		4.	To comprehend the history of world revolution.
4	HISTORY	5.	To understand the role of social reformer.
		6.	To understand the history of ancient India.
		7.	To comprehend modern history of Maharashtra.
		8.	To study of history various countries in the world.
		9.	To understand the change & impact of revolutionary movement.
		1.	To acquaint the students with distinct dimensions of India.
		2.	To understand the physical setup of the country.
5	GEOGRAPHY	3.	To focus the climate of India and mechanism of monsoon of India.
		4.	To get information about soils in India.
		5.	To get information about vegetation in India.
		1.	To introduce the students to the Indian economy.
		2.	To develop an understanding of challenges facing the Indian economy.
		3.	To acquaint the students with structure of the Indian economy and
6			changes taking place there in.
	ECONOMICS	4.	To acquaint the students with the policies and performance of major
			sectors in Indian Economy.
		5.	To explain the economic reforms introduced in India since 1991.
			1
		After o	completion of this course, students would be able to
		1.	Understand the political theories
		2.	Understand thoughts and biographies of great political thinkers
		3.	Understand structures, functions and the working of political institutes
			in India
7	POLITICAL SCIENCE	4.	Understand the structure of constitution of India
		5.	Pursue Master courses in Political Science, Education and Social Work.

PROGRAM SPECIFIC OUTCOMES (PSO) (B.COM.)

NO. NAME	PROGRAM SPECIFIC OUTCOMES
INSURANCE	 To Impart the knowledge of the principles of Life Insurance and their importance. To give exposure to the provisions of fire and Marine Insurance and their increasing importance. To provide skill and knowledge to become an insurance Agent. To understand various rules and regulations required for insurance business
3 ACCOUNTANCY	 Student will demonstrate progressive effective domain development of values, the role of accounting in society and business. Student will learn relevant financial accounting carrier skill, applying both quantitative and qualitative knowledge to their future carrier in business. Student will learn relevant management accounting carrier skill, applying both quantitative and qualitative knowledge to their future carrier in business. Student will learn relevant management accounting carrier skill, applying both quantitative and qualitative knowledge to their future carrier in business. Student will be able to demonstrate progressive learning of various tax issue various tax form s relating to individual student will able to demonstrate knowledge in setting up a computerized set of accountancy books. Learners will gain through systematic and subject skill within various disciplines of commerce, business, accounting, economics, finance, auditing, banking and marketing. Learners will be able to prove proficiency with the ability to engage in conformed to critical decision making. Learners will able to prove proficiency with the ability to engage in competitive exams like CA, ICWA, CS, and other courses. Learners will acquire the skill like effective communication, decision making, problem solving in day to day business affairs. Learners will involve in various co-curricular activities to demonstrate relevancy of fundamental and theoretical knowledge of their academic major and to gain practical. Learners will be able to do higher education and advance research in the critical supporting services.

		1.	To understand business Economics —Meaning nature etc. basic concept
			in Business economics
		2.	To understand Various important issues in business Economics
4	BUSINESS	3.	To understand business concepts — values of money, theories of values
	ECONOMICS		of money etc.
		4.	To understand various issues in macro- economies.
		5.	Knowing about Indian Economy
		6.	Knowing about basic concept in world economic environment
		7.	To understand basic Banking concepts

		1.	To acquaint the students with banking law and practice in relation to the banking system in India
		2	To develop the capability of students for knowing banking system
		2.	regulatory framework banker- customer relationship and banking
			services
		3	To understand the legal aspects of banking transactions and its
		5.	implications as banker and customer.
		4.	To develop the capability of students for knowing bank
	BANKING		nationalization, financial and business performance of banks, central
			banking and financial markets.
5		5.	To acquaint the students with banking law and practice in relation to
			the banking system in India
		6.	To develop the capability of students for knowing negotiable
			instruments loans and advances and electronic banking.
		7.	To understand the legal aspects of banking transactions and its
			implications as banker and customer
		8.	To acquaint the students with banks and financial institutions.
		9.	To develop the capability of students for knowing financial
			institutions, development banks non-banking financial intermediaries
			and international banking.
		1.	Knowledge of accounting cycle.
		2.	Knowledge of sophisticated financial accounting topics siich as
			business combinations, governmental accounting, partnership
			accounting, etc.
	FINANCIAL	3.	Knowledge of International Accounting Principles and the impact of
6	ACCOUNTING		global issues.
		4.	Ability to evaluate financial results.
		5.	Ability to prépare a federal individual tax return. 6.Knowledge of
			auditing principles and techniques.
		6.	7.knowledge of CPA exam education requirements, parts of the exam
			and topics
		7.	included.
		1.	Demonstrate critical and innovative thinking.
		2.	Display competence in oral, written, and visual communication.
	BUSINESS	3.	Apply communication theories.
7	COMMUNICATION	4.	Show understanding opportunities in the field of communication.
		5.	Respond effectively to cultural communication differences.
		6. 7	Communicate ethically.
		7.	Demonstrate positive group communication exchanges.

		1. Communicate the major concepts in the functional areas of
		accounting, marketing, finance, information technology, and
		management.
8	MANAGEMENT IN	2. Describe the legal, social, ethical, and economic environments of
	BUSINESS SERVICES	business in a global content.
		3. Solve organization problems, individually and/or in teams, using
		quantitative, qualitative, and technology-enhanced approaches.
		4. Demonstrate professional communication and behavior.
		5. Apply knowledge of business concepts and functions in an integrated
		manner.
		1. Critically analyze and provide recommendations to improve the
		operations of organizations through the application of management
		accounting techniques.
		2. Demonstrate mastery of costing systems, cost management systems,
		budgeting systems and performance measurement systems.
9		3. Demonstrate the need for a balance between financial and non-
	MANAGEMENT	financial information in decision making, control and performance
	ACCOUNTING	evaluation applications of management accounting.
		4. Evaluate the costs and benefits of different conventional and
		contemporary costing systems.
		5. Learn independently and to demonstrate high level personal
		autonomy and accountability.
		6. Learn within teams - to co-operate with team members, to assume
		leadership and
		7. Mortgage differences and conflicts.
		1. Exhibit good communication skills in the management of personnel
	PRODUCTION	and business relationships:
10	MANAGEMENT	2. Establish procedures for overseeing a production budget;
		3. Coordinate the crewing and casting of a production flow;
		4. Manage a production schedule
		5. Identify the role of supply and demand in a market economy.
		6. Identify the necessary conditions for market economies to function
		well.
		7. Discuss market system advantages and pricing.
		8. Understanding of the economic role of government policy and the
11	BUSINESS	Federal Reserve
	ECONOMICS	9. Define and analyze economic problems using algebraic and statistical
	(MACRO)	methods.
		10. Identify the benefits and costs of a global economy.
		11. Identify the role of supply and demand in a market economy.
		12. Identify policy options and their effectiveness.
		13. Understanding importance of international relations to trade and
		finance.

		1. Understand the basic development of entrepreneurship as a profession
		2 Understand business models
12	ENTREPRENEURSHIP	 Write a business plan describing a new business venture.
	DEVELOPMENT	4. Understand marketing strategies for small businesses.
		5. Identify capital resources for new ventures and small businesses.
		6. Monitor the performance of a new firm.
		7. Have a basic knowledge of human resource management for small
		business.
		8. Understand the social responsibilities of small business managers.
		After completion of this course, the student will be able to
		1. Explain the scope of statistics in business, perform
		classification and tabulation, and represent the data by means
		of simple diagrams and graphs.
		2. Explain and apply sampling techniques in real life.
		and dispersion.
13	BUSINESS	4. Explain the merits and demerits of various measures of central
	STATISTICS	tendency and dispersion.
		5. Perform analysis of bivariate data using simple correlation and simple linear regression.
		6. Compute unconditional and conditional probabilities and
		apply laws of probabilities.
		7. Identify the applications of Binomial and normal distributions.
		8. Measure trend and seasonal variations in time series data.
		9. Compute and interpret simple and weighted index numbers.
		10. Construct and apply variable and attribute control charts.
		1. Demonstrate understanding of the finance function
	FINANCIAL	2. Demonstrate understanding of the goals of the finance manager
14	MANAGEMENT	3. Identify the basic financial environment and institutions
		4. Perform analytical reviews of financial results, proposals, and plans
		5. Identify funding sources, instruments, and markets
		6. Demonstrate knowledge of the value of money over time and its uses
		7. Demonstrate knowledge of a basic financial vocabulary

		1.	Graduates will demonstrate the ability to communicate effectively
		2	both orally and in writing.
		۷.	Graduates will demonstrate knowledge of the legal and ethical
			environment impacting business organizations and exhibit an
15	DD ACTICE IN		desisions
15	PRACTICE IN MODEDN	2	decisions.
		5.	Graduates will demonstrate an understanding of and appreciation for the importance of the import of alchelization and diversity in modern
	MANAGEMENT		organizations.
		4.	Graduates will demonstrate an ability to engage in critical thinking by
			analyzing situations and constructing and selecting viable solutions to
			solve problems.
		5.	Graduates will demonstrate an ability to work effectively with others.
		1.	Students should understand a general definition of research design.
	RESEARCH	2.	Students should know why educational research is undertaken, and
16	METHODOLOGY		the audiences that profit from research studies.
		3.	Students should be able to identify the overall process of designing a
			research study from its inception to its report.
		1.	Information literacy skills in searching for information related to the
		2	theory and practice of management Professional business writing
		2. 3.	Interviewing skillsinterviewing a practicing manager and presenting
17	RECENT TRENDS IN		written and oral reports that integrate information literacy, analysis
1/	MARKETING		and synthesis of the manager's activities, critical thinking, and
			reflections.
		1.	Demonstrate understanding of the basic American Legal System
		2.	Demonstrate knowledge of basic court procedures
	FOUNDATION OF	3.	Demonstrate understanding of the nature of tort law, including business torts
18	BUSINESS LAW AND	4.	Demonstrate how criminal law relates to business
	TAX LAW	5.	Demonstrate recognition of intellectual property Identify how
			computer law affects business Analyze the nature and terminology of
			contract law
		6.	Demonstrate recognition of the requirements of the contract
			agreement
		7.	Demonstrate understanding of contract consideration and capacity
		8.	Demonstrate recognition of the genuineness of assent in contract
			formation.
		9.	Demonstrate understanding of legality and Statute of Frauds in
			contracts

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		1.	Create a budget, and develop money management, and problem
			solving skills.
	FOUNDATION OF	2.	Describe employment skills, strengths, and deficits.
19	HUMAN SKILL	3.	State educational goals.
		4.	Depict current contemporary issues regarding culture, ethnicity,
			health, sexuality, resiliency, coping, identity, self-esteem, and
			nutrition.
		5.	Locate and describe one community resource in the surrounding area.
		6.	Describe and visit one independent living setting.
		1.	Conduct an environmental scan to evaluate the impact pf world issues
			on an organization's international business opportunities.
		2.	Conduct, evaluate and present market research to support an
			organization's international business decision-making.
		3.	Manage the preparation of documents and the application of
20			procedures to support the movement of products and services in the
			organization's global supply chain.
		4.	Evaluate the impact of statutory and regulatory compliance on an
	INTERNATIONAL		organization's integrative trade initiatives.
	BUSINESS	5.	Develop and implement strategies to negotiate effectively within
			various cultural environments and to address the impact of cultural
			differences on on organization's integrative trade initiatives.
		6.	Develop and present an international marketing plan, and evaluate
			sales strategies that support an organization's integrative trade
			initiatives.
		7.	Identify and interpret relevant international financial documents, and
			evaluate financial strategies that support an organization's integrative
			trade initiatives.
		8.	Analyze the impact of an organization's integrative trade initiatives on
			its human resources management strategies, policies and practices.

PROGRAM SPECIFIC OUTCOMES-(B.Sc.)

SR.	PROGRAM SPECIFIC	
NO.	NAME	PROGRAM SPECIFIC OUTCOMES
		1. To promote understanding of basic facts and concepts in chemistry
		while retaining the excitement of chemistry.
		2. To make student capable of studying chemistry in academic and industrial course.
		3. To expose the students to various emerging new areas of chemistry and apprise
1		4. them with their prevalent in their future studies and their application irl various spheres of chemical service.
		5. To develop problem solving skill in students.
		6. To expose students to different processes used in industries and their applications.
	CHEMISRTY	7. To develop ability and to acquire the knowledge of terms, facts, concepts, processes, techniques and principles of subjects.
		 To develop ability to apply the knowledge of contents of principles of chemistry.
		9. To acquires new knowledge of chemistry and developments there in.
		10. To expose and to develop interest in the field of chemistry.
		11. To develop proper attitude towards the subject
		12. To develop the power of appreciation, achievement in chemistry and the role in nature and society.
		13. To develop skills required in chemistry such as proper handling of apparatus and chemicals.
		14. To acquaint properly with recent instrumental techniques used in industry.
		15. To build a personality of student as chemist.

		By the end of this course students are expected to be able:
		1. Appearing for MPSC, U PSI, M. SC. M.C.A. CDS etc. entrance test
		2. They can join in different industries like Mikron India, BSNL, MSEB
		TATA Power.
		3. Indian Air force
		4. Indian Navy
	PHYSICS	5. Indian Army
		6. Medical Representative
2		7. As scientist in Indian Institute of Tropical Metrology
		8. As Scientist in DRDO
		9. In Different Research and development institutes
		10. They can join as trainee in Kirloskar Oil and Thermax industries.
		11. Technician in wind mills.
		1. To impart the knowledge of animal science to the pupils.
		2. To make the pupils to use the knowledge in their daily life.
		3. To make the pupils aware of natural resources and environment.
		4. Application of knowledge in Zoology for nutrition, agriculture and live
		stock.
3	ZOOLOGY	5. To provide practical experiences which form a part of their learning
		processes
		6. To develop aptitude for scientific work & ability to pursue studies far
		beyond graduation.
		7. To encourage the pupils to take life science as a carrier which is the
		need now a days
		8. To make the pupils fit for the society.
		By the end of this course students are expected to be able:
		1. To compute various measure of central tendencies, dispersion,
		moments, skeweness, and kurtosis and to interpret them.
		2. To analyze data pertaining to attribute and interpret the results.
		3. To distinguish between random and non random experiments.
		4. To find the probabilities of various events.
4	STATISTICS	5. To compute correlation, coefficient, interpret its value and use in
	~	regression analysis.
		6 To understand concept of multivariate distributions
		7. To apply discrete probabilities distributions studied in this course in
		different situations
		8. To Distinguish between discrete variables and study their distributions
		9 To know some standard discrete probability distributions with real life
		situations
1	1	Situations.

		1.	Students became aware of concepts in algebra like complex analysis, Matrices etc
		2	They can use these concepts in various examinations
		2.	Students learn the use of differentiation and applications Leibnitz's
		5.	rule and its applications
5	MATHEMATICS	4.	Students team concepts of sphere, polar co-ordinates
		5.	Students know the concepts of order, Degree of differential equations, Solutions of
		6.	first order, first degree
		7.	Students learn the various concepts like Jacobian, Extreme values,
			Vectors etc.
		8.	Students became aware of solutions of differential equations of
			homogeneous D.E., Second order D.E., Total D. E. etc.
		9.	Students practice the concept of double and triple integration, Beta and gamma
6.	COMPUTER SCIENCE	After	completing the B.Sc. (Computer Science) course the students would be
		able to):
		1.	Understand the multiple levels of detail and abstraction
		2.	Recognize the context in which a computer system make function,
			including its interaction with people and the physical world.
		3.	Communicate with, and learn from, expert from different domains
			throughout their careers.
		4.	Possess a solid foundation that allows and encourages them to maintain
			relevant skills as the field evolves.
		5.	To be able to manage their own career development and advancement,
			manage their own learning and development, including managing type,
			priorities, and progress.
		6.	Demonstrate understanding of the principles and working of the
			hardware and software aspects of computer systems.
		7.	Ability to understand the structure and development methodologies of
			software systems
		8.	Possess professional skills and knowledge of software design process.
			familiarity and practical competence with a broad range of
			programming language and open source platforms.

Palus Shikshan Prasarak Mandal's

ARTS, COMMERCE AND SCIENCE COLLEGE, PALUS

Name of Programme: **Bachelor of Business Administration (B. B. A.)**

The **<u>Programme Outcomes</u>** (PO) of the programme B. B. A. are as follows:

After completing the B. B. A. course the students would be able to:

1. Identify the different functional aspects of business world and recognize different opportunities of business.

2. Acquire the different skills necessary for the professional attitudes.

3. Demonstrate a global outlook with the ability to identify aspects of the global business and cross cultural understanding.

4. Identify the problems and challenges and inculcate the capability to cope with the spontaneous changes.

5. Analyze the importance of innovation and research, tackle the contemporary needs and accordingly grab the opportunities.

6. Develop effective and oral communication especially in business applications, with the use of appropriate technology.

Program Specific Outcomes (PSO) of the programme B. B. A. are as follows:

After completing the BBA course the students would be able to:

1. Acquire the managerial professional attributes and be capable of decision making by applying the knowledge of management discipline.

- 2. Explore the entrepreneurial quality and start new business venture with innovative ideas.
- 3. Prepare students to undertake post graduation management programme.

B.B.A Semester-I		
Sr. No	Name of the Course	Course Outcomes
1	Fundamentals of Business Management	 Students should be able to know, comprehend, apply, analyze, synthesize and evaluate the basic fundamentals of managing organizations. Students will complete specific activities, as identified in the syllabus, related to each of the four functions of management: planning, organizing, leading and controlling. Have developed a working knowledge of fundamental terminology and frameworks in the four functions of management: Planning, Organizing, Leading and Controlling.
		 management: Planning, Organizing, Leading and Controlling. 3. Be able to analyze organizational case situations in each of the functions of management; 4. Be able to identify and apply appropriate management techniques for managing contemporary organizations; and 5. Have an understanding of the skills, abilities, and tools needed to obtain a job on a management track in an organization of their choice
2	Principles of Marketing	 Understand the fundamentals of marketing. Aware of the 4P's & 4C's of marketing mix. Understand the consumer behavior and importance of market segmentation
3	Micro Economics	 Learners will be able to explain meaning and scope of business economics Learners will apply the concept and theories of demand and consumer behaviors' Learners will apply concepts of factor pricing and production function in business practices Learners will understand different markets and its pricing practices
4	Information Technology in Business	 Understand basics of computer technology. Identify software and networking technology for business.

P.O., P. S. O. and C. O.

	Management	3. Prepare documents, files and folders with the help of Ms-
		Words
		4. Prepare power point presentations.
		5. Analyze Business data using MS – Office.
5	Business	1. Understand business communication
	Communication,	2. Develop vocabulary
		3. Develop effective writing skills
		4. Develop effective reading skills
	В	. B. A I Semester-II
Sr. No.	Name of the Course	Course Outcomes
1	Accounting for	1. Understand the concepts in accountancy.
	Managers	2. Prepare ledger accounts, subsidiary books and trial
		balance.
		3. Demonstrate calculations of depreciation.
		4. Prepare statements of accounts.
2	Human Resource	1 Describe human resource planning process
	Management	2 Describe selection procedure in detail
		3 Describe the methods of management development
		4 Describe different methods of training
3	Macro Economics	1. Learners will be able to understand concepts of national
		income and demand of supply of money
		2. Learners will apply the principles and theories of inflation
		and business cycle
		3. Learners will understand different concepts of public
		finance
4	Management	1. Understand basics Information System.
	Information System	2. Understand working and applications of different
		information systems.
		3. Study system development lifecycle.
		4. Analyze the system requirement
5	Business	1. Understand the nature of effective oral communication
	Communication	2. Face the interview confidently and participate in the group
		discussion
		415(45510)1

4. Understand different modern office communication tools B. B. A II Semester-III Sr. No. Name of the Course Fundamentals of Entrepreneurship 1. Have a fair idea about aspects of entrepreneurship development 2. Understand the role of entrepreneurs, and the importance of entrepreneurship with the challenges and opportunities. 3. Get acquainted with different theories of entrepreneurship 2 Cost Accountancy 1. Describe concepts in Cost Accountancy 2 Analyze methods of Costing, Cost Levels and methods of pricing material issues, Inventory Control Techniques 3 Services marketing 1. Compare goods and services 3 Services marketing 1. Compare goods and services 2 Demonstrate 7 P's of service marketing 3. Application of 7 P's for various service organizations 4 Forms of Business Organization 1. Understand different forms of business. 5 Statistical techniques 1. Define descriptive Statistical techniques 5 Statistical techniques 1. Define descriptive Statistical techniques. 6 Statistical techniques 1. Define descriptive Statistical techniques. 7 Statistical techniques 1. Define descriptive Statistical formula and calculate result. 4 Forms of Business Organization 1. De			3. Develop presentation skills
B. B. A II Semester-III Sr. No. Name of the Course Fundamentals of Entrepreneurship 1. Have a fair idea about aspects of entrepreneurship development 1 Fundamentals of Entrepreneurship 1. Have a fair idea about aspects of entrepreneurship development 2. Understand the role of entrepreneurs, and the importance of entrepreneurship with the challenges and opportunities. 3. Get acquainted with different theories of entrepreneurship 2 Cost Accountancy 1. Describe concepts in Cost Accountancy 2. Analyze methods of Costing, Cost Levels and methods of pricing material issues, Inventory Control Techniques 3. Define application of Marginal Costing Technique in decision making 4. Discuss Cost Audit and Cost Control Technique. 3 Services marketing 3. Application of 7 P's of service marketing 3. Application of 7 P's of marketing for a service organizations 4. Develop 7 P's of marketing for a service organization. 5 Statistical techniques 5 Statistical techniques 6 Descriptive Statistical techniques. 7 Statistical techniques 8 A, - II Semester-IV			4. Understand different modern office communication tools
Sr. No. Name of the Course Fundamentals of Entrepreneurship I. Have a fair idea about aspects of entrepreneurship development 1 Fundamentals of Entrepreneurship 1. Have a fair idea about aspects of entrepreneurship development 2. Understand the role of entrepreneurs, and the importance of entrepreneurship with the challenges and opportunities. 3. Get acquainted with different theories of entrepreneurship 2 Cost Accountancy 1. Describe concepts in Cost Accountancy 2 Analyze methods of Costing, Cost Levels and methods of pricing material issues, Inventory Control Techniques 3 Services marketing 1. Compare goods and services 3 Services marketing 1. Understand different forms of business organization 4 Forms of Business Organization 1. Understand different forms of business organization. 5 Statistical techniques 1. Define descriptive Statistical techniques 5 Statistical techniques 1. Define descriptive Statistical techniques. 5 Statistical techniques 1. Define descriptive Statistical techniques. 5 Statistical techniques 1. Define descriptive Statistical techniques. 6 Understand new trends in management 1. Define descriptive Statistical techniques. <t< th=""><th></th><th>В.</th><th>B. A II Semester-III</th></t<>		В.	B. A II Semester-III
1 Fundamentals of Entrepreneurship 1. Have a fair idea about aspects of entrepreneurship development 2. Understand the role of entrepreneurs, and the importance of entrepreneurship with the challenges and opportunities. 3. Get acquainted with different theories of entrepreneurship 4. Understand the concept and role of woman entrepreneurship 2 Cost Accountancy 1. Describe concepts in Cost Accountancy 2. Analyze methods of Costing, Cost Levels and methods of pricing material issues, Inventory Control Techniques 3. Define application of Marginal Costing Technique in decision making 4. Discuss Cost Audit and Cost Control Technique. 3 Services marketing 1. Understand different forms of business Organization 4 Forms of Business Organization 5 Statistical techniques 5 Statistical techniques 5 Statistical techniques 4 Define descriptive Statistical techniques 3 I. Understand different combinations of business. 4. Understand new trends in management 5 Statistical techniques 6 Descriptive Statistical techniques 7 Describe applications of statistical techniques. 8. A, - II Semester-IV<	Sr. No.	Name of the Course	Course Outcomes
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4. Conclude degree of relationship of two variables and estimate unknown variable. B. B. A II Semester-IV			3. Apply suitable statistical formula and calculate result.
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B. B. A II Semester-IV			estimate unknown variable.
Su No. Nome of the Course	B. B. A II Semester-IV		
	Sr No	Name of the Course	Course Outcomes

P.O., P. S. O. and C. O.

1	Entrepreneurship	1. Understand the process of project identification
	and Project Management	2. have a fair idea about different institutions and schemes
		3. Understand different methods of project appraisal
		4. Understand the process of preparation of business plan
2	Management	1. Understand Management Accounting and Reporting to
	Accounting	management
		2. Understand tools and techniques of Management
		Accounting
		3. Understand Financial Statement Analysis
3	rural and retail	1. Develop understanding of concepts of rural and retail
	marketing	marketing.
		2. Understand the current situation of rural marketing.
		3. Analyze the marketing of agricultural inputs and products
		4. Understand retail formats, retail buying behavior and retail
		marketing mix
4	Research	1. Define various terms used in research process
	Methodology	2. Describe research design, sample design and sampling
		methods
		3. Apply appropriate methods for data collection for research
		work
		4. Use appropriate statistical tools for data analysis and
		interpretation
5	Statistics for	1. Define tools Statistics used for decision making
	decision making	2. Describe applications of statistics for decision making.
		3. Apply suitable statistical formula and estimate trend.
		4. Construct control charts
	B.	B. A III Semester-V
Sr. No.	Name of the Course	Course Outcomes
1	Fundamentals of	After Completion of the course students will be able to:
	Business laws (compl.)	1. Have a fair idea about aspects of different business
	(laws inIndia

	2. Understand the salient features and importance of	
	differentbusiness laws.	
	Get acquainted with different provisions of business laws.	
2 Human Skills (compl.)	3. After Completion of the course students will be able to:	
(1 Develop different human skills among students	
	2. Enhance quality behavior	
	3 To increase Emotional Quotient by learning values	
	4 Understand about conflict management and	
	stressmanagement	
	5. Denoficial to outivate professional skills among the	
	management students and make them persons with	
	empathy.	
	 Understand about Career Management and career opportunities in Management 	
3 Management	On Completion of this course students will be able to:	
Historians (compl.)	 Understand evolutionary phases of management approaches 	
	2. Understand contribution of management historians	
	3. Evaluate role of historian in developing	
	science of management	
4 Digital Marketing	At the end of the course the student should be able to:	
(Opt.)	1. Learn the applications of Digital Marketing	
	2. Analyze the different digital marketing avenues.	
	3. Examine digital marketing tools.	
	Build real life problems in the domain of digital marketing	
5 Financial Management (Opt.)	4. After Completion of the course students will be able	
	to:	
	1. To understand the basic concepts Financial Management	
	2. To know about components of Working	
	CapitalManagement	
	3 To understand Capital Structure Cost of	
	5. To understand Capital Structure, Cost of	

6	Human Resource	After completion of the course students will be able to :	
	Planning (opt.)	1. Understand the various functions of HRM.	
		2. Describe the Human Resource Planning Process.	
		3. Understand the Recruitment function in detail.	
		4. Describe the Selection process	
		5. Analyze the employee separation method.	
	В.	B. A III Semester-VI	
Sr. No.	Name of the Course	Course Outcome	
1	Fundamentals of Taxation (Compl.)	After Completion of the course students will be able to:	
		1. To understand the basic concepts in Taxation	
		2. To demonstrate the computation of income and tax liability	
		3. To understand concept of GST and its mechanism	
2	Business Ethics (Compl.)	After Completion of the course students will be able to:	
	(0000000)	1. Apply those skills to the real and current	
		challenges of Business and professions.	
		2. Differentiate between ethical and unethical	
		behavior of Managers, employers and employees.	
		3. Adopt ethical practices in their field of work and	
		life	
3.	Organizational	After Completion of the course students will be able to:	
	Behaviour (Compl.)	1. Understand the basic concepts of OB	
		2. Understand the principles of learning	
		3. Describe the importance of attitude and values	
		4. Implement the theories of Motivation and Personality.	
		5. Understand and implement causes of stress and	
		copingstrategies	
4.	International	After Completion of the course students will be	
	Marketing (opt.)	able to:1 .Understand basics of international	
		marketing.	
		2. To provide students with a perspective of	

P.O., P. S. O. and C. O.

		International Marketing management, its environment
		and complexities.
		3. Study international marketing strategies.
		4. Study functions of international trade.
5.	Business Finance	After Completion of the course students will be
	(Opt.)	able to:
		1.To understand the basic concepts Business
		Finance
		2. To recognize Financial Markets , Mutual Funds,
		PortfolioManagement and Micro Finance
		To understand Corporate Restructuring and its ways.
6.	Human Resource	After Completion of the course students will be able
	Development (Opt.)	to:
		1. Understand the difference between HRM & HRD
		Concepts.
		2. Understand the various subsystems involved in
		HumanResource development.
		3. Describe and differentiate Training &
		development function.
		4. Understand the methods of performance appraisal
		Analyze the career development techniques

Palus Shikshan Prasarak Mandal's ARTS, COMMERCE AND SCIENCE COLLEGE, PALUS.

Name of the programme:- BCA(Bachelor of Computer Application)

The **Programme Outcomes** (PO's) of the programme B.C.A are as follows:-

After completion of program Students / graduates will be able to:

PO1: Apply knowledge of ICT in solving business problems.

PO2: Learn various programming languages and custom software.

PO3: Design component, or processes to meet the needs within realistic constraints.

PO4: Identify, formulate, and solve problems using computational temperaments.

PO5: Comprehend professional and ethical responsibility in computing profession.

PO6: Express effective communication skills.

P07: Recognize the need for interdisciplinary, and an ability to engage in life-long learning.

PO8: **PO9**: Utilize the techniques, skills and modern tools, for actual development process.

Programme Specific Outcomes (PSO) of the programme B.C.A are as follows:- After Completing the BCA Course the

students would be able to:

1. Acquire the techniques, skills and modern tools, for actual development Process.

2. Prepare Students to undertake post graduation computer programme.

3. Explore Knowledge of contemporary issues and emerging developments in computing profession.

	BCA-	I Semester-I
Sr.No	Name of the course	Course Outcome
1	Course Code: CC 101 Fundamentals of Computer	 Course Outcomes After completion of these course students will be able to - 1. Understand basic concepts of computer. 2. Describe peripheral devices and number systems. 3. Understand operating environment 4. Demonstrate the use of Linux Operating system commands
2	Course Code: CC 102 Introduction to Programming using 'C	Course Outcomes after Completion of this course the student will be able to - 1. Able to implement the algorithms and draw flowcharts for solving Mathematical problem. 2. Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage. 3. Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures and file Handling. 4. Develop confidence for self education and ability for life-long learning needed for computer language.
3	Course Code: ACE 103 Principles of Management	Course Outcomes After completion of these course students will be able to - 1. Understand the influence of historical forces on current practice of management. 2. Understand frameworks in the four functions of management. 3. Understand leadership styles to anticipate the consequences of each leadership style 4. Be able to identify and apply appropriate management techniques for organizations; and 5. Understand social responsibility involved in business situations
4	Course Code: ACE 104 Business Communication	Course Outcomes After completion of this course students will be able to - 1. Communicate in English in written as well as oral

		mode
		2. Make presentations in English
		3. Do effective business correspondence
5	Course Code:	Course Outcomes After completion of this course
	AEC 105	students will be able to -
	Office Automation	1) Understand the components of office automation
		2) Perform operations using MS Word and
		PowerPoint
		3) Surf details through Internet
		4) Understand and discuss about the use of Office
		Package and
		internet in daily life
	RCA.	I Semester-II
1	Course Code:	Course Outcomes After completion of this course
1	COULSE COUE:	students will be able to -
	Database Management	1) Describe the basic concents of DRMS and
	Systom	yarious databases
	System	various utitabases
		2) Demonstrate the principles helpind systematic
		2) Demonstrate the principles bennu systematic
		database design
		approacnes.
		3) Design the database structure by applying the
		concepts of Entity-
		relational model and Normalization.
		4) Learn MS-Access for database creation and
		handling
		transactions
2	Course Code:	Course Outcomes After completion of this course
	CC202	students will be able to -
	Operating System	1) Describe the basic concepts of DBMS and
		various databases
		used in real applications
		2) Demonstrate the principles behind systematic
		database design
		approaches.
		3) Design the database structure by applying the
		concepts of Entity-
		relational model and Normalization.
		4) Learn MS-Access for database creation and
		handling

		transactions
3	Course Code: CC 203 Object Oriented Programming Using C++	 Course Outcomes After completion of this course students will able to - 1) Understand object-oriented programming and advanced C++ concept. 2) Apply the concepts of object, classes and constructor. 3) Design C++ Programs based on object, class, inheritance, abstraction, encapsulation, dynamic binding and polymorphism. 4) Implement concept of polymorphism in program.
4	Course Code: AEC 204 Financial Accounting with Tally	 Course Outcomes After completion of this course students will able to – 1. Use basic accounting terminology, procedures and systems of maintaining accounting records. 2. Understand financial statements 3. Learn to create company, enter accounting voucher entries and also print financial statements, etc. in Tally. 4. Demonstrate MIS reports in Tally ERP.
5	Course Code: AEC 205 Mathematical Foundations For Computer Applications	 Course Outcomes After completing this course, students should demonstrate competency in the following skills: 1) Basic knowledge of set theory, functions and relations concepts, matrix needed for designing and solving problems. 2) Construct simple mathematical proofs and possess the ability to verify them. 3) Write an argument using logical notation and determine if the argument is valid or is not valid. 4) Use graph algorithms to solve problems.

	BCA-II Semester-III	
Sr.No	Name of the course	Course Outcome
1	Course code: CC 301 Web Technology	 Course Outcomes After completion of this course student should be able to- 1. Understand basics of website and web development life cycle. 2. Design website using HTML and CSS 3. Implement client side scripting for website development 4. Understand importance and working of HTML5
2	Course code: CC 302 Computer Network and Internet	 Course Outcomes After completion of this course student should be able to- 1. Understand the concept of computer network. 2. Identify different components required to build different networks. 3. Recognize the functions of network layers and different protocols. 4. Discuss the important features of the Internet and Web
3	Course code: CC 303 Data Structure using C	Course Outcomes After completion of this course student should be able to- 1. Use and implement appropriate data structure for the required problems using a programming language such as C. 2. Understand various searching & sorting techniques 3. Implementing various data structures viz. Stacks, Queues 4. Implementation of Linked Lists and Trees
4	Course code: AEC304 Elements of Statistics	 Course Outcomes After completion of this course student should be able to- 1) Explain various term used in Statistics. 2) Describe the Measures of Central Tendency and Dispersion 3) Understand Analysis of Bivariate data(Correlation and Regression) 4) Elaborate Sampling Techniques and Time Series Analysis.

	1	
5	Course code: AEC305	Course Outcomes After completion of this course student should be able to-
	Human Resource	1. Understand Human Resource Planning Process.
	Management and	2. Elaborate Performance Appraisal, Training and
	Management and Matorials Managomont	Development, Wage and salary
	Materials Management	Administration.
		3. Explain functions of material management
		4. Demonstrate 5 R in purchasing and Inventory
		control techniques.
	BCA-I	I Semester-IV
1	Course Code	Course Outcomes After completion of this course
1		student should be able to-
		1 Describe the fundamental elements of
	кириз	Relational Database Management
		Systems
		2. Explain various commands in data languages
		with example.
		3. Understand various subqueries & joins.
		4. Apply the control statements and stored
		procedures.
		•
2	Course code:	Course Outcomes After completion of this course
	CC 402	student should be able to-
	Software Engineering	1. Understand life cycle models, requirement
		elicitation techniques, understand the
		concept of analysis and design of software.
		2. Develop SRS document.
		3. Use of analysis and design tools for system
		development.
		4. Apply software engineering concepts in
		software development to develop quanty
		Soltware
3	Course code:	Course Outcomes After completion of this course
	CC 403	student should be able to-
	DOT NET Technology	1. Understand features of C# DOT NET
	201111100005J	2. Implement various server controls for website
		development
		3. Apply validation and state management for
		interactive website development
		4. Design and develop dynamic web application

		using ADO.Net
4	Course code: AEC 404 Entrepreneurship Development	 Course Outcomes After completion of this course student should be able to- 1. Define characteristics, function and types of entrepreneurs and know the role of Entrepreneurship in Economic Development. 2. Identify Business Opportunities and prepare business plan. 3. Know project finance agencies. 4. Understand New Opportunities and Challenges in digital entrepreneurship
5	Course Code: CCL405 PHP	 Course Outcomes After completion of this course student should be able to- 1. Understand the environment of PHP programming Language. 2. Develop web applications using PHP.

BCA-III Semester-V		
Sr.No	Name of the course	Course Outcome
1	Paper No. 501:	1. Critically analyse and provide
	Management Accounting	 recommendations to improve the operations of organisations through the application of management accounting techniques. 2. Demonstrate mastery of costing systems, cost management systems, budgeting systems and performance measurement systems.
		3. Demonstrate the need for a balance between financial and non-financial information in decision making, control and performance evaluation applications of management accounting.
		4. Evaluate the costs and benefits of different conventional and contemporary costing systems.
2	Paper No. 502: E-	1. Analyze the impact of E-commerce on business
	Commerce	models and strategy

		 Describe Internet trading relationships including Business to Consumer, Business-to- Business, Intra-organizational. Describe the infrastructure for E-commerce Describe the key features of Internet, Intranets and Extranets and explain how they relate to each other. Discuss legal issues and privacy in E-Commerce Assess electronic payment systems Recognize and discuss global E-commerce issues
3	Paper- 503 Computer	1.To understand the organization of computer
	Network	networks, factors influencing computer network
		development and the reasons for having variety
		of alferent types of networks.
		2. To design a network routing for in networks.
		connections.
		4. To explain how a collision occurs and how to
		solve it.
		5. To demonstrate proper placement of different
		layers of ISO model and illuminate its function.
		6.To learn Internet structure and can see how
		7 To determine properties are solved in that context.
		subnet mask and default gateway in a routed
		network.
		8.To understand internals of main protocols such as HTTP, FTP, SMTP, TCP, UDP, IP
		9.To analyze simple protocols and can
		independently study literature concerning
		computer networks.
4	Paper No. 504: RDBMS	1. Understand, appreciate and effectively explain
	with Oracle	the underlying concepts of database technologies
		2.Design and implement a database schema for a
		given problem-domain
		3.Normalize a database
		4.Populate and query a database using SQL

		DML/DDL commands.
		5.Declare and enforce integrity constraints on a database using a state-of-the-artRDBMS
		6.Programming PL/SQL including stored procedures, stored functions, cursors,packages.
		7.Design and build a GUI application using a 4GL
5	Paper No- 505 Visual Programming	 Design, document, code and test small C# console and GUI applications. Design, document, code and unit test class libraries as part of a larger project. Use an object browser and .NET documentation to examine C# and the .NET framework namespace contents. Use the Visual Studio IDE to create and debug application and class library solutions and projects. Interpret UML class diagrams to create C# classes and applications
	BCA-II	II Semester-VI
1	Paper No.601 Strategic Management	1. know, understand, and apply the strategic management process to analyze and improve organizational performance. 2.The complementary learning outcomes are to be able to conduct and draw conclusions from external analyzes of an organization's environment. 3.To able to conduct and draw conclusions from internal analyzes of an organization's capabilities, formulate realistic strategies. 4.Develop implementation plans to execute those strategies.
2	Paper No. 602 Data Mining and Data Warehousing	 Identify the scope and necessity of Data Mining & Warehousing for the society. Describe the designing of Data Warehousing so that it can be able to solve the root problems. To understand various tools of Data Mining and

		their techniques to solve the real time problems.
		4. To develop ability to design various algorithms
		based on data mining tools.
		5. To develop further interest in research and
		design of new Data Mining techniques.
		teoninqueor
3	Paper No - 603: Linux	1.Basic Networking Concepts
	Operating System	3.Basic Configuration of various server like Web
		Server, DNS Server, Mail Server and Cache Server
		4.Configuring and troubleshooting Host and Network Security in Linux System
		5.Installing, configuring Bandwidth Management
		tool
4	Paper No-604: Java	1. Create Java programs that solve simple
	Programming	business problems.
		3.Construct a Java class based on a UML class
		diagram.
		4.Perform a test plan to validate a Java program.
		5.Document a Java program.

Palus Shikshan Prasarak Mandal's

ARTS, COMMERCE AND SCIENCE COLLEGE, PALUS

Name of Programme: Bachelor of Computer Science Entire

The **<u>Programme Outcomes</u>** (PO) of the programme B.C.S. are as follows:

After completing the B.C.S. Course the students would be able to:

1. Understand the multiple levels of detail and abstraction

2. Recognize the context in which a computer system make function, including its interaction with people and the physical world.

3. Express effective communication skills.

4. Utilize the techniques, skills and modern tools, for actual development process.

5. Able to communicate with, and learn from, expert from different domains throughout their careers.

Program Specific Outcomes (PSO) of the programme B.C.S Are as follows:

After completing the B.C.S course the students would be able to:

1. Ability to understand the structure and development methodologies of software

Systems.

2. Possess professional skills and knowledge of software design process. Familiarity and

Practical competence with a broad range of programming language and open source

Platforms.

3. Explore Knowledge of contemporary issues and emerging developments in computing profession

B.C.S- I Semester-I		
Sr.No	Course Name	Course Outcomes
1	Discrete	1. Simplify & evaluate basic logic statement including
	MathematicsI	compoud, implicatrion, inerse & converse statement
		2. Understand the notation of mathematical thinging &
		proof.
		3. Write an argument using logical notation & detaremine
		valid or not valid argument
		4. To apprecitae the basic principles of boolean algebra
2	Electronics Devices	1. Apply the concept of basic electronic device
	and Circuits - I	2. Student should know basic electronic devices
		1. Students will learn to use and configure essential office
		applications including word processing, spreadsheets.
	Introdcution to	2. Students will learn essential operating systems skills
		including how to use, setup, configure, troubleshoot and
		maintain a current microcomputer operating system.
	Processing - I	3. Students will develop a basic understanding of
		technologies and protocols used on the Internet, and how to
3		effectively use Internet tools technologies including current
		web-based applications, e-mail, and social networking tools;
		developing searching strategies; and basic web authoring
		1. Students will develop and apply concepts of expressions,
		equations and inequalities to investigate and describe
		relationships and solve problems.
	Algebra	2. Understand the use of parameters and variables, including
4		appropriate replacement sets. [Identify which symbols
		represent parameters and which represent variables.
		Represent situations with polynomials or equations]

		Show procedural fluency with polynomial expressions,
		including basic factoring. [Perform flexibly operations of
		adding, subtracting, and multiplying on polynomials.
		Perform limited division. Understand and perform limited
		factoring, such as common factors and difference of
		squares.]
		3.Use equations, inequalities, and systems of equations &
		inequalities to represent situations, and find solutions via
		symbolic, numeric and graphic methods. [Solve linear
		equations and inequalities flexibly by multiple methods.
		4.Use systems of equations in two or three variables, and
		solve by multiple methods.]
		1. The basic concept of logical gates & digital circuit
		2. Student should maintain electronic & digital & analog
	Digital Electronics-II	device & circuit
5		3. Knowledge of fundamental digital design & systematic
		method of analysis & design degital electornics
		1. Identify the parts of the computer system.
		2. Adequately explain functioning of computer components.
		3. Explain the process of problem solving using computer
		4. Design an algorithmic solution for a given problem
	Introduction to	5. Write a maintainable C program for a given algorithm.
	Programming Using	6. Trace the given C program manually.
	"C" - I	7. Write C program for simple applications of real life using
6		structures and files.
		8. Explain role of Operating system in computer system and
		applications of computer
		networks.
		1.Recognize and apply the most appropriate probability
	Descriptive Statistics - I	techniques in particular circumstances.
		2. Understand, interpret, and communicate statistical
		reasoning from data using basic statistical
		terms, descriptive statistics, charts and graphs when

7		appropriate.		
		3.Recognize and evaluate the relationship between two		
		quantitative variables through simple linear		
		4.regression and correlation and be able to explain why		
		correlation does not imply causation.		
		5.Understand, analyze and interpret relationships in two-		
		way tables using chi-square tests.		
		1. Students should develop an appreciation of the need for		
		data to make good decisions		
		and an understanding of the dangers inherent in basing		
8	Probability and	decisions on anecdotal		
	Discrete Probability	evidence rather than on data.		
	Distributions	2. Construct and interpret graphical displays of distributions		
		of		
		univariate data.		
B.C.S- I Semester-II				
		Identify the parts of the computer system		
	Introduction to	2. Adequately explain functioning of computer components.		
	Computer and	3 Explain the process of problem solving using computer		
	Data Processing- II	of England the process of problem softing using computer		
1		4 Design an algorithmic solution for a given problem		
	Data Processing- II	4. Design an algorithmic solution for a given problem5. Write a maintainable C program for a given algorithm		
1	Data Troccssnig- II	 4. Design an algorithmic solution for a given problem 5. Write a maintainable C program for a given algorithm. 6. Trace the given C program manually 		
1	Data Trocessing- II	 4. Design an algorithmic solution for a given problem 5. Write a maintainable C program for a given algorithm. 6. Trace the given C program manually. 7. Write C program for simple applications of real life using 		
1	Data Trocessing- II	 4. Design an algorithmic solution for a given problem 5. Write a maintainable C program for a given algorithm. 6. Trace the given C program manually. 7. Write C program for simple applications of real life using structures and files 		
1	Data Trocessing- H	 4. Design an algorithmic solution for a given problem 5. Write a maintainable C program for a given algorithm. 6. Trace the given C program manually. 7. Write C program for simple applications of real life using structures and files. 8. Explain role of Operating system in computer system and 		
1	Data Trocessing- H	 4. Design an algorithmic solution for a given problem 5. Write a maintainable C program for a given algorithm. 6. Trace the given C program manually. 7. Write C program for simple applications of real life using structures and files. 8. Explain role of Operating system in computer system and applications of computer 		
1	Data Trocessing- H	 4. Design an algorithmic solution for a given problem 5. Write a maintainable C program for a given algorithm. 6. Trace the given C program manually. 7. Write C program for simple applications of real life using structures and files. 8. Explain role of Operating system in computer system and applications of computer potworks. 		
1		 4. Design an algorithmic solution for a given problem 5. Write a maintainable C program for a given algorithm. 6. Trace the given C program manually. 7. Write C program for simple applications of real life using structures and files. 8. Explain role of Operating system in computer system and applications of computer networks. 		
1	Introduction to	 4. Design an algorithmic solution for a given problem 5. Write a maintainable C program for a given algorithm. 6. Trace the given C program manually. 7. Write C program for simple applications of real life using structures and files. 8. Explain role of Operating system in computer system and applications of computer networks. Identify the parts of the computer system. 		
2	Introduction to Programming Using	 4. Design an algorithmic solution for a given problem 5. Write a maintainable C program for a given algorithm. 6. Trace the given C program manually. 7. Write C program for simple applications of real life using structures and files. 8. Explain role of Operating system in computer system and applications of computer networks. Identify the parts of the computer system. 2. Adequately explain functioning of computer components. 		
2	Introduction to Programming Using C - II	 4. Design an algorithmic solution for a given problem 5. Write a maintainable C program for a given algorithm. 6. Trace the given C program manually. 7. Write C program for simple applications of real life using structures and files. 8. Explain role of Operating system in computer system and applications of computer networks. Identify the parts of the computer system. 2. Adequately explain functioning of computer components. 3. Explain the process of problem solving using computer 		

		5. Write a maintainable C program for a given algorithm.
		6. Trace the given C program manually.
		7. Write C program for simple applications of real life using
		structures and files.
		8. Explain role of Operating system in computer system and
		applications of computer
		networks.
		1. Br familier with the defination & basic theory of grapg
3	Cranh Theory	2.To study different type of graph
5		3. To draw different types of graph 4. To use graph find the
		matices & equation
1	Calculus	1. Interprept a function form an algebric function2. To
4	Calculus	provide basic knowledge of differinal calculas
		1.Maintain digital and analog devices and circuits.
		2. Analyze components associated with digital and analog
	Electronics Devices	electronic systems.
5	and Circuits-II	3. Demonstrate proficiency in the use of electronic
		equipment and devices.
		4. Assist in the design, operation, and troubleshooting of
		electronic systems.
		The student will be able to:
		1. Tell the history and development of digital electronics.
		2. Describe and demonstrate the use digital test equipment
		and its operating characteristics.
	Digital	3. Examine purpose of 555 timer and digital integrated
6	Floctronics -II	circuits.
	Electromes -II	4. Identify and describe the six basic logic gates and
		combinational circuits in digital electronics.
		5. Recognize the number systems use in digital logic design
		and its conversion
		6. Identify and describe flip-flop circuits.
7	Descriptive	Recognize and apply the most appropriate probability
/	Statistics-II	techniques in particular circumstances.

P.O., P. S. O. and C. O

		Understand, interpret, and communicate statistical
		1.reasoning from data using basic statistical
		terms, descriptive statistics, charts and graphs when
		appropriate.
		2. Recognize and evaluate the relationship between two
		quantitative variables through simple linear
		regression and correlation and be able to explain why
		correlation does not imply causation.
		3. Understand, analyze and interpret relationships in two-
		way tables using chi-square tests.
		1. Students should develop an appreciation of the need for
		data to make good decisions
0	Continuous	and an understanding of the dangers inherent in basing
	Probability	decisions on anecdotal
0	Distributions and	evidence rather than on data.
	Testing of Hypothesis	2. Construct and interpret graphical displays of distributions
		of
		univariate data.
B.C.S- II Semester-III		
1		1 Analysis & evaluate the accuracy of common numerical
-		values
	Numerical Methods	2 Establishing the limitations advantages & disadvantages
		of the numerical method
		3. To find approximate accurate value of given problem
2		1. To understant input / output mechanism
_	Computer	2. Understand the various part of a system
	Organization	3. To interface digital circuit to microprecessor
3		1. Solve system of linear equation using multiple methods
C		2 Carry out matric operation including inverse &
	Linear Algebra	determineant
		3. Define the basic terms & concept of matrices & vectors

4		1. Apply concept of Automatic control, including
	Computer Instrumentation I	measurement
		2. Design & implement system utilizing nalog or digital
		control device
		3. Visualization in process control system.
5	Environment	1. To understand what is mean by actual environment .
	Environment	2. To devlop project with respect to environmentstudy
6	Course Code: DSC-	1. Improving skill about data operation.
	301: Computer	2. Ability to handle database.
	Science Paper-V	3. Ability to design & develop proper database.
	Course Title:	4. SQL/MY-SQL helps to get knowledge about data
	Relational Database	operations
	Management System	
7	Course Code: DSC-	The student should - Understand basic concepts of object
	302: Computer	oriented programming.¬ Able to use various control
	Science Paper-VI	structures to improve programming logic. Design classes
	Course Title: Object	and objects. \neg Able to use constructor and destructor. \neg
	Oriented	Utilize the OOP techniques like operator overloading,
	Programming using	inheritance, and polymorphism
	C++	
8	Course Code: DSC-	At the end of this course, student should be able understand
	401: Computer	the most basic aspects of data- structures including Stacks,
	Science Paper-VII	Queue, Linked list and Tree. Should able to understand
	Course Title: Data	different sorting and searching algorithms. ¬ Should able to
	structure using C++	understand implementations of linked list, stack and queue¬
9	Course Code: SEC-I	1. To understand why Python is a useful scripting language
	:Skill Enhancement	for developers.
	Course - I Course	2. To learn how to install Python, start the Python shell
	Title: Python	3. To define the structure and components of a Python
	Programming	program.
		4. To learn to perform basic calculations, print text on the
		screen and perform simple control flow operations using if
		statements and for loops 5. To learn how to use lists, tuples,

B.C.S

		and dictionaries in Python programs 6. To learn how to
		reuse code with functions
	B	.C.S- II Semester-IV
1	Course Code: SEC-II	Students who complete this course should be able to: 1.
	:Skill Enhancement	Understand basic concept of HTML.
	Course - II Course	2. Learn how to use HTML tags.
	Title: HTML (Web	3. Understand relationship of HTML and CSS.
	Technology)	
2	Course Title: Cyber	Students who complete this course should be able to:
	Security Essentials	1. Understand importance of cyber security and security
		management.
		2. Learn different security threats.
		3. Understand cyber security laws and importance of
		security audit.
		4. Learn concept of wireless network security.
3		.To develop own algotithem for solving geometry problem
	Computational	2.Us e line point duality to develop efficient algorithm
	Geometry	3. Apply geometry technique to real world problem
4	Operation Research	1. Develop a report that describe the model
		2. Mathematical optimization technique
		3. Write computer program to implement algorith & solve
		problem
5	Microcontroller	1. The general construction of microcomputer system
		2. To desgin , build & test digital electronic circuit &
		microcontroler system.
		3. Develop software for microcontroller system susing
		high level prograaming language
6		1. Able to develop, understanding of contrction & working
	Computer	of different measuring instrument.
	Instrumentation II	2. To design a variety of electronic & computer based
		device .

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		3.Write simple computer programme for digital data
		acquistion & process control
7	Env.Science	To understand what is mean by actual environment .To
		devlop project with respect to envirnonmentstudy
	B	C.S- III Semester-V
1	Course Code:DSE-	After completion of this course student will be able to
	501: Computer	1.Implement Object oriented concepts using java
	Science Paper- IX	2. Develop Object oriented software application
		3.Develop multithreading applications
	Core Java	4.Handle exceptions while executing programs
2	Course Code:DSE-	: After completion of this course student will be able to
	502: Computer	1.Understand working of .Net Framework
	Science Paper-X	2.Demonstrate concept of object oriented programming
	C#programming	using C#
		3.Study importance and applications of exception handling
		4.Understand working of file handling in C#.
3	Course Code:DSE-	After completion of this course student will be able to
	503: Computer	1.Understand the problem domain to choose process models
	Science Paper- XI	correctly.
	Course Title:	2Choose software projects using appropriate design
	Software Engineering	notations.
		3. Measure the product and process performance using
		various metrics.
		4. Evaluate the system with various testing techniques and
		strategies
		5Able to analyze, design, verify, validate, implement, and
		maintain software systems.
4	Course Code:DSE-	After completion of this course student will be able to

	504: Computer	1. Develop an appreciation for what is involved in learning
	Science Paper-XII	models from data.
	Course Title:	2. Understand a wide variety of learning algorithms.
	Machine Learning	3.Understand how to evaluate models generated from data.
	Part- I	
5	Course Code:DSE-	After completion of this course student will be able to
	505: Computer	1.Identify key considerations in selecting various
	Science Paper-XII	transmission media in networks.
	Course Title: Data	2. Familiar with switching and routing techniques in
	Communication	networking.
		3. Understand different data communication modes.
		4.Understand OSI model and networking protocols.
6	Course Code:AECC-	After completion of this course student will be able to
	E English Paper-III	1.Identify key considerations in selecting various
	English for	transmission media in networks.
	communication-III	2Familiar with switching and routing techniques in
		networking.
		3.Understand different data communication modes.
		Understand OSI model and networking protocols
6	Course Code:DSE-	completion of this course student will be able to
	601 computer science	1.Develop GUI using Java
	paper-XIII	2.Handle Database connectivity using java
	Advanced Java	3.Develop dynamic web pages using servlet and JSP
		4.Develop client-server application
	B.	C.S- III Semester-VI
1	Course Code: DSE-	After completion of this course student will be able to
	602	1.Understand working of Asp.Net web application

	Computer Science	2.Demonstrate Asp.Net server controls.
	Paper- XIV	3.Study database operations using ADO.Net.
	ASP.NET	4. Understand importance and working of state management
2	Course Code:DSE-	After completion of this course student will be able to
	603 Computer Science	1.Implement the basics of Project Management.
	Paper- XV	2. Choose correct Scheduling Techniques as per the
	Software Project	software.
	Management	3. Develop Team Development skills and reduce conflicts.
		4.Implement various Software Quality Standards.
		5.Using CASE tools, Software Re-Engineering for creating
		efficient softwares.
3	Course Code:DSE-	After completion of this course student will be able to
	604 Computer Science	1. Understand complexity of Machine Learning algorithms
	Paper- XVI Machine	and their limitations;
	Lreaning Part-II	2. Understand modern notions in data analysis oriented
		computing;
		3. Apply common Machine Learning algorithms in practice
		and implementing their own;
		4. Perform distributed computations;.
4	Course Code:DSE-	After completion of this course student will be able to
	605 Computer	1.Familiar with network basics concepts like protocols,
	Science Paper- XV	topology etc
	Computer Networks	2.Familiar with OSI layered model services
		3.Understand with switching and routing concepts in
		networking technologies.
		4.Familiar with network security concepts
5	Course Code: AECC-	After completion of this course student will be able to
	F English Paper-IV	1.Comprehend the employment skills to have an effective

	English for	first impression
	Communication- IV	2. Construct effective technical reports and prepare effective presentations3. Use various interpersonal skills as per the need of
		situation and context
6	Course Code: SEC-II	After completion of this course student will be able to
	PHP Part- II	1.Create and call functions using PHP
		2. Create functions that take arguments and return values
		3. How error is handled using exception handling
		4.Display and handle HTML forms within a single PHP
		script

Palus Shikshan Prasarak Mandal's

ARTS, COMMERCE AND SCIENCE COLLEGE, PALUS

Name of Programme: Post Graduate Diploma in Computer Application.

<u>Programme Outcomes</u> (PO) of the programme P.G.D.C.A. are as follows:

After completing the P.G.D.C.A. course the students would be able to:

- 1) The main objective of the course is to impart adequate professional knowledge and computer skills so as to enable the candidates to take up careers in the field of Information Technology.
- 2) To equip with latest knowledge, skills pertaining to the tasks and responsibilities of Information Technology.

Program Specific Outcomes (PSO) of the programme P.G.D.C.A. are as follows:

After completing the PGDCA course the students would be able to:

- 1. Acquire the computer programming skills to take up careers in the field of Information Technology.
- 2. Prepare students to enhance skills pertaining to the tasks and responsibilities.

P.G.D.C.A.

P.G.D.C.A. Semester-I		
Sr. No	Name of the Course	Course Outcomes
1	Fundamentals of Computers	After Completion of the course students will be able to:1. Students should be able to know, basic fundamental concepts of computers.2. Have an understanding of the skills, abilities, and tools of computers.
2	E-Commerce and HTML	After Completion of the course students will be able to:1. Understand the fundamentals of Electronic Commerce.2. Understand Ecommerce Business.
3	Visual Programming Part-I	 After Completion of the course students will be able to: 1. Learners will be able to learn concepts of visual programming. 2. Learners will be able to design and develop applications using .net.

P.G.D.C.A.

4	Programming using 'C'	After Completion of the course students will be able to:1. Understand basics of C language.2. Understand how to make programs using C language.
5	RDBMS with Oracle Part- I	After Completion of the course students will be able to:1. Understand RDBMS Terminologies.2. Understands how to write queries in database.

P.G.D.C.A. Semester-II

Sr. No.	Name of the Course	Course Outcomes
1	Office Automation Tools	 After Completion of the course students will be able to: 1. Understand all office automation tools. 2. Understand how to work in word, excel and PowerPoint tools.
2	Web Designing with PHP and MySQL	After Completion of the course students will be able to:1. Understand how to design web applications using PHP.2. Understand how to work with MYSQL.
3	Visual Programming Part-II	After Completion of the course students will be able to:1. Learners will be able to understand concept of VB.net.2. Learners will apply the Concepts of VB.net practical approach.

P.G.D.C.A.

4	Advanced Programming using 'C'	After Completion of the course students will be able to:1. Understand advanced concepts of C Language.2. Implementation of C language Concepts in
		Programming.
5	RDBMS with Oracle Part-II	After Completion of the course students will be able to:1. Understand the advanced concepts of RDBMS.2. Implementation of RDBMS advanced concepts in database.
6	Practical	After Completion of the course students will be able to:1. Implementation of practical knowledge of academic programming subjects.2. Enhance Practical Knowledge.
7	Project Work	After Completion of the course students will be able to:1. To design and develop an academic project report.2. To experience project work regarding any organization.

Palus Shikshan Prasarak Mandal's

ARTS, COMMERCE AND SCIENCE COLLEGE, PALUS

Name of Programme: Master Of Computer Science(M.Sc(cs))

The **<u>Programme Outcomes</u>** (PO) of the programme M.Sc(cs) are as

follows: After completing the M.Sc course the students would be able to:

At the end of the Master of Science (Computer Science) Programme, graduating Students/graduates will be able to:

1. Communicate computer science concepts, designs, and solutions effectively and Professionally

2. Apply knowledge of computing to produce effective designs and solutions for specific Problems

3. Identify, analyse, and synthesize scholarly literature relating to the field of computer science Use software development tools, software systems, and modern computing platforms.

4. Prepare for academic roles through NET/SET/PhD

5. Apply design and development principles in the construction of software systems of varying complexity.

Program Specific Outcomes (PSO) of the programme M.Sc (cs) is as follows:

1. Demonstrate understanding of the principles and working of the hardware and Software aspects of computer systems.

2. Ability to understand the structure and development methodologies of software Systems.

3. Possess professional skills and knowledge of software design process. Familiarity and Practical competence with a broad range of programming language and open source Platforms.

4. Be acquainted with the contemporary issues, latest trends in technological development and thereby innovate new ideas and solutions to existing problems

M.Sc-I Semester-I		
Sr. No	Name of the Course	Course Outcomes
1	CC-101: Design	After Completion of the course students will be able to:
	and Analysis of	1. Analyse the asymptotic performance of algorithms.
	Algorithms	2. Demonstrate a familiarity with data structures and
		algorithms.
		3. Compare algorithms based on time & space complexity.
		4. Employ graphs to model real life problems, when
		appropriate. Develop algorithms that
		employ graph computations as key components, and analyse
		them.
		5. Mapping of data structures like Stack, Queue and Linked
		List to real life problems.
		6. Master the implementation of linked data structures such as
		linked lists and binary trees.
		7. Be familiar with advanced data structures such as balanced
		search trees, hash tables, Red-
		Black trees, Btrees.
		8. Understand Divide & Conquer approach, Greedy algorithm,
		Backtracking approach for
		algorithm design.
		9. Be familiar with Branch and Bound&Dynamic programming
2	CC-102: Python	After Completion of the course students will be able to:
P	Programming	1. Understand principles of Python
		2. Understand object oriented programming
		3. Demonstrate file handling techniques
		4. Understand how Python can be used for application
		development
		5. Design Real life problems and think creatively about
		solution of them
		6. Apply a solution clearly and accurately in a program
		using python

3	CC-103: Database	After Completion of the course students will be able to:
	Management System	1.Define the terminology, features, classifications, and
		characteristics embodied in
		database systems.
		2. Demonstrate an understanding of the relational data model.
		3. Transform an information model into a relational database
		schema and to use a data
		definition language and/or utilities to implement the schema
		using a DBMS.
		4. Formulate, using SQL, solutions to a broad range of query
		and data update problems.
		5. Demonstrate an understanding of normalization theory and
		apply such knowledge to
		the normalization of a database.
		6. Use an SQL interface of a multi-user relational DBMS
		package to create, secure,
		populate, maintain, and query a database.
		7. Use PL/SQL for handing data in a database as per the user's
		requirement using
		programming features.
		8. Define various cursors and its implementation along with
		procedure and functions.
4	OE-104: Cyber	1. Realize the need for Cyber Security
	Security	2. Understand the need for Security in day to day
		communications
		3. Understand the vulnerabilities in the Network and Computer
		System
		4. Understand the cyber law and Cyber Forensics
	Ν	I.Sc-I Semester-II
Sr. No	Name of the	Course Outcomes
	Course	

1	CC-201: Web	After Completion of this course the student would be able to;
	Technology	1.To familiarize a student with windows and web-based
		application 2.To provide a student with the solid foundation of
		the syntax and semantics of C# as well as architecture of the
		.NET framework 3.Debug and deploy ASP.NET web
		applications
		4. Discuss the insights of internet programming and implement
		complete application over the web
		5. To inculcate skills pertaining to data access technology
		geared to facilitate the development of disconnected systems
		using .NET platform.
		6. To familiarize the student with the development of windows-
		based application using C#
		7.To familiarize the student with the development of web-
		based application using ASP.NET
		8. Handle various toolkit like AJAX 9. Utilize the concepts of
		Java Scrint
		savaseript
2	CC-202: Advanced	1. The student will be able to develop distributed business
2	CC-202: Advanced Java	1. The student will be able to develop distributed business applications, develop web pages using advanced server-side
2	CC-202: Advanced Java	1. The student will be able to develop distributed businessapplications, develop web pages using advanced server-sideprogramming through servlets and Java server pages.
2	CC-202: Advanced Java	 The student will be able to develop distributed business applications, develop web pages using advanced server-side programming through servlets and Java server pages. Demonstrate approaches for performance and effective
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2	CC-202: Advanced Java	 The student will be able to develop distributed business applications, develop web pages using advanced server-side programming through servlets and Java server pages. Demonstrate approaches for performance and effective coding Develop Java client/server applications. Develop distributed applications using RMI Develop component-based Java software using JavaBeans Develop server side programs in the form of servlet Understand the multi-tier architecture of web-based enterprise applications using Enterprise JavaBeans (EJB) ,use
2	CC-202: Advanced Java	 The student will be able to develop distributed business applications, develop web pages using advanced server-side programming through servlets and Java server pages. Demonstrate approaches for performance and effective coding Develop Java client/server applications. Develop distributed applications using RMI Develop component-based Java software using JavaBeans Develop server side programs in the form of servlet Understand the multi-tier architecture of web-based enterprise applications using Enterprise JavaBeans (EJB) ,use Struts frameworks, which gives the opportunity to reuse the
2	CC-202: Advanced Java	 The student will be able to develop distributed business applications, develop web pages using advanced server-side programming through servlets and Java server pages. Demonstrate approaches for performance and effective coding Develop Java client/server applications. Develop distributed applications using RMI Develop component-based Java software using JavaBeans Develop server side programs in the form of servlet Understand the multi-tier architecture of web-based enterprise applications using Enterprise JavaBeans (EJB) ,use Struts frameworks, which gives the opportunity to reuse the codes for quick development and map Java classes and object
2	CC-202: Advanced Java	 The student will be able to develop distributed business applications, develop web pages using advanced server-side programming through servlets and Java server pages. Demonstrate approaches for performance and effective coding Develop Java client/server applications. Develop distributed applications using RMI Develop component-based Java software using JavaBeans Develop server side programs in the form of servlet Understand the multi-tier architecture of web-based enterprise applications using Enterprise JavaBeans (EJB) ,use Struts frameworks, which gives the opportunity to reuse the codes for quick development and map Java classes and object associations to relational database tables with Hibernate

3	CC-203: Android Fundamentals Development	1. Understand Android Studio Environment and application		
		structure.		
		2. Demonstrate different layouts, views, activities and intents		
		3. Testing and debugging of application.		
		4. Design good user interface for the application.		
		5. Able to store, retrieve and load data		
		6.Demonstrate background tasks & events		
		7. Understand publishing of app.		
4	Elective-I:CE-204 CE-	1. To understand Software Project Models and Software		
	204.1: Software Project Management	Management Concepts.		
	i roject ivianagement	2.To understand the various methods of Cost Estimation.		
		3. To Study about Software Quality Management.		
		4. To Study about Emerging Trends in Software Management.		
		5. To understand Project Evaluation.		
M.Sc-II Semester-III				
1	SWM 201. Artificial	1 Apply problem solving by intelligent search enpressed		
1	Intelligence	2. Represent knowledge using AL knowledge representation		
		2. Represent knowledge using AI knowledge representation		
		2 Design Machine Learning solution to real life problems		
		4. Derive solutions for problems with uncertainty using Eugra		
		4. Derive solutions for problems with uncertainty using Fuzzy		
		theory. 5. Define a NLP problem and find a suitable solution to		
		6. To develop a good understanding of all aspects of Natural		
		Language Processing (NLP) and Genetic algorithm		
2	2 CC-302: Advanced Web Technology	1. Students will be able to develop application using MVC		
		2. Students will be able to understand Entity Framework		
		3. Students will be able to understand Web API		
		4. Students will be able to understand and use azure services		
		5. Students will be able to understand the use bootstrap		
3	СС-303: РНР	1. Understand how server-side programming works on the		
		web.		
		2. PHP Basic syntax for variable types and calculations.		
		3. Creating conditional structures		

		4. Storing data in arrays
		5. Using PHP built-in functions and creating custom functions
		6. Write PHP scripts to handle HTML forms.
		7. Understanding POST and GET in form submission. 8. How
		to receive and process form submission data.
		9. Reading and writing cookies.
		10. Create PHP programs that use various PHP library
		functions, and that manipulate files and directories.
		11. Analyze and solve common Web application tasks by
		writing PHP programs.
		12. Prepares the students to undertake PHP projects
		independently.
4	Elective-II: CE-304.1:	1. Understand the basic tenets of software quality and quality
	Software Quality Assurance	factors.
		2. Be exposed to the Software Quality Assurance (SQA)
		architecture and the details of SQA components.
		3. Understand of how the SQA components can be integrated
		into the project life cycle.