



Programme Structure

School of Management Studies and
Commerce
BBA (Hons.)

Program Code: SOMC0701

Batch: 2024-2028

BBA (Hons.)-Business Analytics/Digital Marketing

TITLE: Four Year Program Structure for Management Studies Discipline BBA (Hons.)Business Analytics /Digital Marketing

DURATION OF THE COURSE: 4 Years

Total Credits- 162

Total credit of the 04 year UG Programme for year wise	01st Year	42
	02nd Year	40
	03rd Year	40
	04th Year	40

Minimum credit required for multiple entry and exit:

Award on Exit after 2 Semesters: Undergraduate Certificate 40 credits + Two months Course 10 credits [Vocational (4) + Internship (6)] =50 Credits.

Award on Exit after 4 Semesters: Undergraduate Diploma 80 credits + Two months Course 10 credits [Vocational (4) + Internship (6)] = 90 Credits.

Vision of the University

To be recognized as an Institution of excellence, facilitating learning, fostering

creativity, knowledge creation, innovations, consultancy and leadership in multiple areas to build a conscious community that will positively impact living beings for a sustainable future.

Mission of the University

1. To Create conducive environment for an interactive and application oriented experiential learning making the Institute a preferred destination for work and study.
2. To Foster creativity, research and innovation orientation in students and Faculty in basic and applied areas in all of its disciplines, provide cost effective solutions and nurture entrepreneurial capabilities to accelerate growth.
3. To act as a catalyst in social change by developing academic, social, political, technological, scientific, industrial and business leadership in the spirit "Think Globally and Act Locally"; by providing ample opportunities to develop team spirit, sportsmanship and love for culture and national heritage.

Core Values

1. Integrity
2. Honesty
3. Transparency
4. Empathy

School of Management Studies and Commerce

Vision of School

To be a globally recognized center of excellence in management and commerce education, fostering innovation, ethical leadership, and entrepreneurial spirit to drive sustainable economic and social development.

Mission of School

- Create a conducive atmosphere for interactive and experiential learning, making the School of Management Studies and Commerce a preferred destination for students and faculty seeking a dynamic and application-oriented education.
- Promote a culture of creativity, research, and innovation among students and faculty. Focus on both basic and applied areas within management and commerce to provide cost-effective solutions and nurture entrepreneurial capabilities for accelerated growth.
- Act as a catalyst for social change by developing leadership in academic, social, political, technological, scientific, industrial, and business spheres. Embrace the philosophy of “Think Globally and Act Locally” by providing ample opportunities for students to develop team spirit, sportsmanship, and an appreciation for culture and national heritage.
- Build robust partnerships with industry leaders, professional bodies, and community organizations to ensure our programs remain relevant and our graduates are well-prepared to meet the demands of the workforce.
- Pursue excellence through continuous assessment and improvement of our curriculum, teaching methods, and administrative processes, ensuring the School of Management and Commerce remains at the forefront of educational innovation.

Core Values

- Excellence in teaching -learning process as reflected in results
- Contribution to the existing knowledge through research
- Service to the society through extension activities

Program Educational Objectives (PEO's)

BBA-Business Analytics (Hons./ Hons. With Research)- Program Education Objectives: PEO1: Imparting knowledge of the fundamentals of Management theory and its applications in problem solving.

PEO2: Developing expertise in the areas of leadership, interpersonal skills, entrepreneurship, finance, and marketing.

PEO3: Enhancing professional competency in meeting the challenges of a globalized world of business.

PEO4: Developing ethical, social and environmental consciousness.

PEO5: Inculcating fundamental concepts and skills of research in various fields of business.

Programme Outcomes (PO's):

PO1: Critical Thinking: By the end of the program students are expected to act intellectually such that they are able to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions from different perspectives.

PO2: Effective Communication: By the end of the program students are expected to possess good communication skills that are the cornerstone of any successful verbal and written communication required for higher studies and jobs.

PO3: Social Interaction: At the end of the program students are expected to have an insightful perspective towards their social and cultural context that includes sensitivity towards differences in gender, race, class, and disability and are able to interact with each social entity in the most amicable way.

PO4: Effective Citizenship: Community Engagement: By the end of the program students are expected to be continuously involved with their local community and contribute through their knowledge and skills towards the upliftment of the society and the country as a whole.

PO5: Ethics: At the end of the program students are expected to have high ethical standards in terms of their work, social structure, family, and their role responsibilities.

PO6: Environment and Sustainability: By the end of the program students are expected to be aware of environmental issues and contribute towards sustainable development of locality, society, and nation as a whole.

PO7: Self-directed and Life -long Learning: By the end of the program students are expected to be in a mental state such that they are able to cope up with the dynamic socio-technological changes and are motivated to learn and contribute towards self, social, and national development.

PO8: Teamwork: By the end of the program students are expected to have an outstanding team skill which is much needed to create synergy in society and at the workplace.

PO9: Employability: By the end of the program students are expected to possess the necessary skills to become highly employable in the industry of their choice.

PO10: Initiative and Leadership: By the end of the program students are expected to demonstrate initiative and leadership skill required for self, social, organization and nation's development.

PO11: Demonstrate Mastery in Analytics: Demonstrate the ability to identify a business situation from the stated information, assess the statistical techniques and the software applications required to model the same, and interpret the subsequent results to assist in effective decision making.

PO12: Sensitivity towards Global Perspective: Understand and imbibe information related to global business models, brands, strategies, and thereby assess global practices against localized customizations to better global presence within local settings and vice versa.

Programme Specific Outcomes (PSO):

PSO1: Students will acquire and demonstrate analytical and problem solving skills within various disciplines of Management, Business, Accounting, Human Resource, finance, marketing and Operations with the help of Business Analytics Tools.

PSO2: Students will attain proficiency in analysing the opportunities and challenges of global and dynamic business environment with special reference to Business Analysis.

PSO3: : Communicate in a business context in a clear, concise, coherent and professional manner.

PSO4: Ability to design, develop and apply Big data and Business Analytic models and strategies to address business problems of various stakeholders.

				L	T	P			Th	Pr	Total	Th	Pr	Total			
1	DC-1	B0701 24101	Management Perspective	3	0	0	3	3	50	0	50	50	0	50	40	100	
2	DC-2	B0701 24104	Financial Accounting	4	1	0	5	4	50	0	50	50	0	50	40	100	
3	DC-3	B0701 24103	Business Organization	3	0	0	3	3	50	0	50	50	0	50	40	100	
4	GE-1	B0701 24102	Managerial Economics	3	1	0	4	3	50	0	50	50	0	50	40	100	
5	AEC-1	BSGU AE240 4	Professional Communication	2	0	0	2	2	50	0	50	50	0	50	40	100	
6	SEC-1	BSGU SE241 9	Office Automation	1	0	4	5	3	0	60	60	0	40	40	40	100	
7	VAC-1	BSGU VA240 1	Environmental Education	3	0	0	3	3	50	0	50	50	0	50	40	100	
Total				19		4	25	21	300	60	360	300	40	340	280	700	
DC - Departmental Core Subject				OEC - Open Elective / Multidisciplinary					AEC - Ability Enhancement Course								
VAC - Value Added Course				SEC - Skill Enhancement Course													

Total Teaching Hours for Semester:45

No of Lecture Hours/Week:3

Max Marks:100

Credits:3

Course Objectives/Course Description

Course Description: This subject is a comprehensive learning on what management is all about and different schools of thoughts on management. It gives a clear understanding of management practices and the various functions of management and also gives away the principles of management developed by eminent management thinkers. The syllabus is structured to provide basic conceptual knowledge on the principles of planning, organizing, staffing, motivation, leadership, controlling and to offer orientation to the recent dynamics of managerial practice.

Course Objectives: This course attempts to introduce the basic concepts, functions and processes of management and it enables students to develop competencies and knowledge to become an effective manager.

Course Outcome

Course Outcomes: On having completed this course student should be able to:

- CO1 Identify the basic activities which any manager will conduct in the organization.
- CO2 Appreciate the role of general management for the success of an organization.
- CO3 Enhance their managerial ability and professional skills.
- CO4 Analyze the managerial issues they will have to tackle in the competitive environment.
- CO5 Explore the latest trends in the field of management.

Unit-1: INTRODUCTION TO MANAGEMENT

Definition – nature, process and significance of management –Role of managers – Managerial Skills and Roles - Evolution of Management Thought : Classical Management Approaches, Behavioural Management Approaches, Quantitative Management Approaches, Modern Management Approaches - Management as a Science or Art - Management as a profession- Administration and Management- Functions of Management – Functional Areas of Management.

Unit-2: PLANNING AND DECISION MAKING

Planning - Nature and Importance of Planning- Types of Plans - Levels of Planning - Steps in planning - Making Effective Plans- Objectives and Management By Objective (MBO) –Management By Exception (MBE) - Policy and Strategy- Forecasting and Decision Making - Nature of decision making - Types of decisions – Decision Making Process – Rational Perspectives and Behavioural Aspects of decision making.

Unit-3: ORGANIZING

Organizing - Nature and purpose - Principles of Organization - Types of Organization - Organisational Structure and Design – Line, Staff and functional authority – Conflict between Line and Staff – Overcoming the Line-Staff Conflict. Committees, Departmentation - Span of control – Authority, Responsibility and Accountability - Principles of Delegation - Steps - Centralization Vs Decentralization – Factors determining

the degree of Decentralization of authority.

Unit-4 :STAFFING & DIRECTING

Staffing - Nature and Purpose of staffing – Importance of staffing – Components of Staffing - Manpower planning - Recruitment and Selection - Training and Development – Performance Appraisal. Directing – Nature of Directing function - Principles – Importance of Effective Direction – Motivating people at work –

Motivation theories: Early theories, Contemporary theories – Morale Building – Job Satisfaction - Effective Communication skills for directing – Barriers of communication.

Unit-5

CONTROLLING AND CONTEMPORARY ISSUES IN

MANAGEMENT

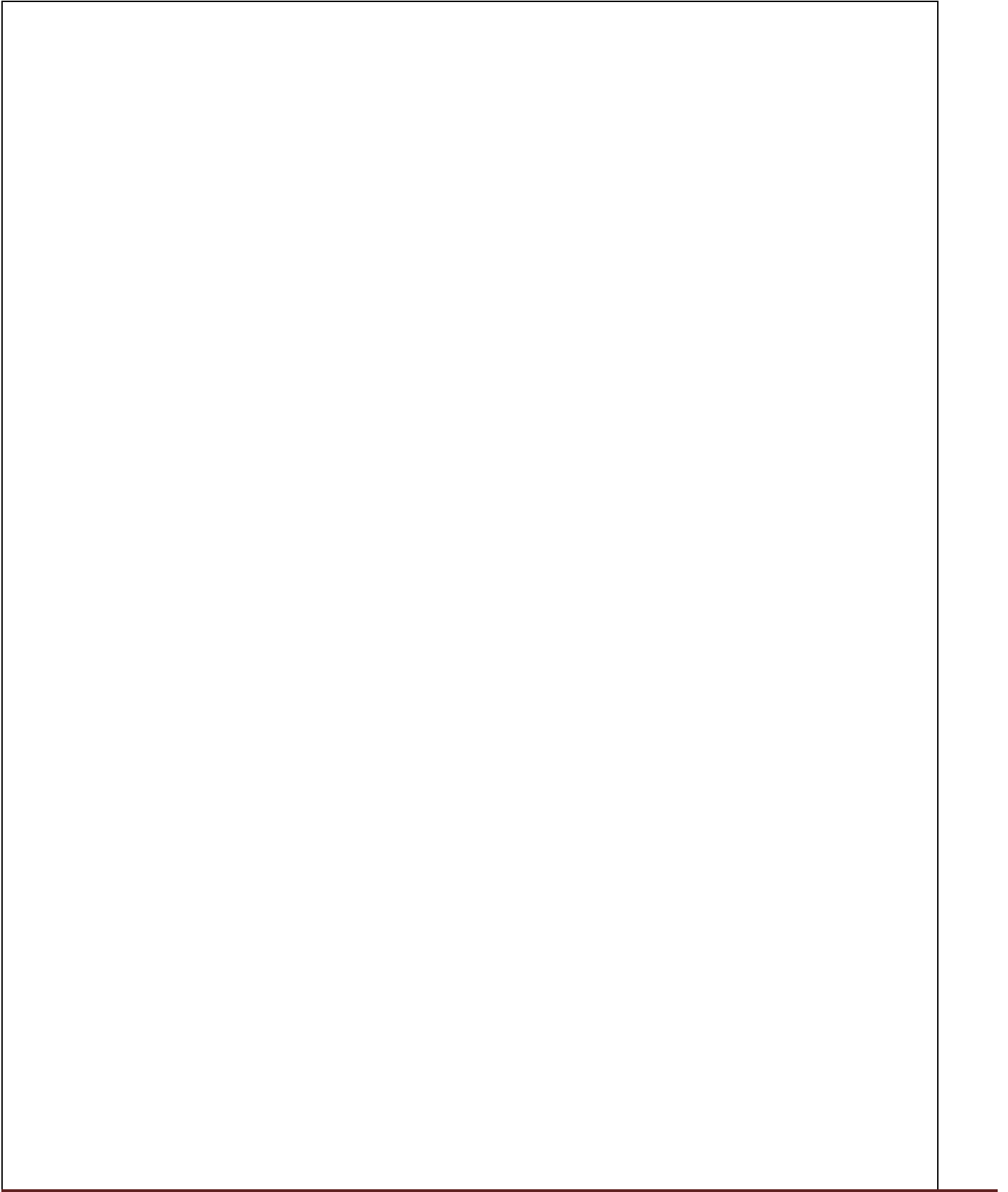
Controlling - Concept, Nature and Importance - Essentials of Control - Requirements of an Effective Control System – Behavioural Implications of Control – Techniques of Managerial control - Co-ordination – Need for co-ordination – Types of Co-ordination - Techniques of Coordination - Cooperation. Supervision – Position of a supervisor – Qualities of a good supervisor – Key Man – Man in the middle – Middle marginal man – Human relations specialist – Essential requirements of effective supervision. Leadership and change, Total quality management, Work force diversity, Globalization and innovation, Enterprise mobility, How to manage and control virtual teams, creating an ethical workplace.

Text Books And Reference Books:

Stoner, Freeman, Gilbert Jr. (2014). Management (6th edition), New Delhi: Prentice Hall India.

Essential Reading / Recommended Reading

1. Daft, R. L. (2009). Principles of Management (1st edition), Cengage Learning.
2. Gupta, R.S., Sharma, B.D., & Bhalla. N.S. (2011). Principles & Practices of Management (11th edition). New Delhi: Kalyani Publishers
3. Koontz, H., & Wehrich, H. Essentials of Management, McGraw Hill Publishers.
4. L M Prasad, (2007). Principles and Practices of Management, Himalaya Publishing House
5. Rao, P.S. (2009). Principles of Management, Himalaya Publishing Hous Moshal, B.S. Principles of Management, Ane Books.



Total Teaching Hours for Semester:45

Max Marks:100

Credits:3

Course Objectives

Course Objectives: This course aims to make students understand the basic concepts of economics with application to managerial decision making.

Course Outcome

Course Outcomes: On having completed this course student should be able to:

CO1 Understand the nature and scope of managerial economics and identify the role of economics in decision making..

CO2 Understand theory of demand, law of demand and cardinal utility analysis..

CO3 Understand theory of production, costs, and revenue function.

CO4 Analyze the managerial issues they will have to tackle in the competitive environment.

CO5 To describe National Income concept and types of Business Cycles

Unit-1: Managerial Economics:

Meaning, Nature and Scope. Objectives of the firm, Equilibrium, Utility, Opportunity cost, Marginal and Incremental Principles.

Unit-2: Theory of Demand:

Nature of demand for a product, individual demand, market demand, determinants of demand, Law of demand, Elasticity of demand and its determinants; Theory of Consumer Behavior: Cardinal utility analysis, Indifference curve analysis, applications of Indifference curves.

Unit-3: Theory of Production and Costs:

The concept of Production function, production with one and two variable inputs, theory of Cost in short run and long run, Revenue function.

Unit-4 : Theory of firm and market organization:

Pricing under Perfect Competition, Pricing under Monopoly, Price Discrimination, Pricing under Monopolistic Competition, Selling cost, Pricing under Oligopoly.

Unit-5 National Income and Business Cycles:

Definition, Measuring the National Income in India, Importance of National Income in India, Importance of National Income Analysis. Business cycles – Meaning, Types of Business cycles ,Characteristics of Business Cycles, Causes of Business Cycles and Phases of Business Cycles

Text Books And Reference Books:

D.M. Mithani, “Managerial Economics Theory & Applications” 2017,8th Ed, Himalaya Publishing House.

(2024-25 Batch)

No of Lecture

Total Teaching Hours for Semester:45

Hours/Week:3

Max Marks:100

Credits:3

Course Objectives/Course Description

Course Objectives: To acquaint the students with the fundamentals of managing business and to understand individual and group behavior at work place so as to improve the effectiveness of an organization. The course will use and focus on Indian experiences, approaches and cases.

Course Outcome

Course Outcomes: On having completed this course student should be able to:

CO1 An understanding of the nature, objectives and social responsibilities of business b) c) d) e)

CO2 An ability to describe the different forms of organizations

CO3 An understanding of the basic concepts of management

CO4 An understanding of different types of business

combinations

CO5 An understanding of functions of management.

Unit-1: Introduction to Business

Business: Meaning, Nature, Objectives, Social responsibility of Business, Essentials of successful business; Functional areas of business. Concept of Business Organization.

Unit-2: Forms of Business Organization

Sole proprietorship: Meaning, Features, Merits and Demerits. Partnership: Meaning, Features, Merits and Demerits. Joint Stock Company: Meaning, , Features, Merits and Demerits. Cooperatives: Meaning, Features, Merits and Demerits.

Unit-3: Public Enterprises

Government Departmental Undertakings: Meaning, Features, Merits and Demerits. Public Corporations: Meaning, Features, Merits and Demerits. Government Companies: Meaning, Features, Merits and Demerits

Unit-4 Business Combinations

Meaning, Reason, Types, Forms, merits and demerits of Business Combinations, Recent Trends in Business Combinations.

Unit-5 MANAGEMENT OF ORGANIZATIONS:

Management-Meaning, Definitions, Difference between Management and Administration, Levels of Management, Objectives of Management, Functions of management- planning, organizing, staffing, directing, coordinating, controlling, Principles of Management.

Text Books And Reference Books: 1 C B. Guptha - Business Organisation and Management, Sultan Chand & Sons.

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2. Dr. S. C. Saxena - Business Administration & Management, Sahitya Bhawan.

3. M. C. Shukla - Business Organisation and Management. S Chand & Company Pvt. Ltd.

4. S.A Sherlekar - Business Organization, Himalaya Publishing House.

5. Y.K. Bhushan. Fundamentals of Business Organisation and Management, Sultan Chand & Sons.

6. R.K. Sharma, Business Organisation & Management Kalyani Publishers

(2024-25 Batch)

No of Lecture

Total Teaching Hours for Semester:60

Hours/Week:5

Max Marks:100

Credits:4

Course Objectives/Course Description

Course Objectives: The course aims at to make students understand the basics of accounting and concepts of double entry system, details on recording of transactions and preparation of final accounting statements for business organizations.

Course Outcome

Course Outcomes: On having completed this course student should be able to:

CO1 To recognize the mechanics of Systematic recording of books of accounts.

CO2 To review the concept of Recording the Transactions of Accounting.

CO3 To prepare subsidiary books and BRS.

CO4 To illustrate the basic skills in developing the financial Statements and Deprecation.

CO5 To apply the tools of Tally for preparation of accounts using computers.

Unit-1: Introduction to Accounting

Understanding the Meaning, nature, functions and usefulness of accounting, branches of accounting, accounting equation, accounting concepts and conventions Generally Accepted Accounting Principles. Recording of Transactions-Concept of double entry system. Understanding the Accounting cycle. Journal, ledger. (Simple problems).

Lab work: Introduction to accounting Software Tally, Features of software, creation of company, selection of company, alteration of company. Entering transaction: Voucher Entry Sales voucher-Purchase voucher-Receipt voucher-Payment voucher-Contra Voucher-Journal Voucher-Debit & Credit voucher- Editing and deleting Voucher.

Unit-2: Subsidiary Books

Meaning-needs-types of subsidiary books-Preparation of subsidiary books including purchase book, sales book, purchase returns book and sales return books (simple problems). Cash book, (single column cashbook, double column cashbook, triple column cashbook and petty cash book.) Lab work: Creation of Accounts-Cash book-Sales Register, Purchase register, Bank bookJournal

Unit-3: Bank Reconciliation Statements

Causes for difference in the pass book and cashbook. Procedure for preparation of bank reconciliation statement (favorable balance and overdraft situations) – simple problems. Lab Work: Preparation of BRS: Bank Reconciliation Statement

Unit-4 : Trial Balance & Final Accounts

Trial Balance-Meaning-Objectives-Preparation of Trial Balance (simple problems) Final Accounts- Meaning-Objectives-Preparation of Trading account, Profit and Loss account and Balance Sheet along with adjustments.(simple problems).

Lab work: Preparation of Trial balance, Trading and Profit & Loss account and Balance sheet

Unit-5 Depreciation Accounting

Meaning of Depreciation- Causes of depreciation; objects of providing for Depreciation – Factors Affecting Depreciation –Accounting treatment –Methods of providing

Depreciation – Straight-line method-Diminishing Balance method(Simple Numerical Problems on sale of two and three Assets)

Text Books And Reference Books:

1. Jain S.P., Narang K.L., Sharma M.K., Jain Romila, Khasa Satish Financial Accounting 1 st Edition, Kalyani Publishers ,2016.

Essential Reading / Recommended Reading

1. Maheshwari, S.N., Advanced Accountancy Volume-I, Ninth Edition, Vikas Publishing House Pvt. Ltd., 3rd Ed, 2005.
2. Financial Accounting BBA, 1st Edition, Kalyani Publishers, 2017.
3. Maheshwari, S.N., & Maheshwari S.K. Advanced Accountancy Volume-I, Ninth Edition, Vikas Publishing House Pvt. Ltd, 3rd Ed., 2005.
4. Grewal, T. S., Shukla, M .C, Advanced Accountancy, Sixteenth Edition, Sultan Chand and Sons, 2011.
5. Tulsian, P.C, Financial Accounting , Pearson Education, 2005.

BSGUAE2404—PROFESSIONAL COMMUNICATION (2024-25 Batch)

Total Teaching Hours for Semester:45

No of Lecture Hours/Week:3

Max Marks:100

Credits:3

Course Objectives/Course Description

Course Objectives: This course is designed to give you a comprehensive view of communication, its scope and importance in business and the role of communication in establishing a favourable outside the firm environment, as well as an effective internal communications program.

Course Outcome

Course Outcomes: On having completed this course student should be able to:

- CO1 communicate effectively in a corporate setting and otherwise
- CO2 overcome the varied obstructions to communication and be an adept listener
- CO3 display effective interpersonal communication, maintaining the decorum of the settings
- CO4 have hands-on writing business letters and expertise in drafting technical documents
- CO5 deliver effective presentations in professional environment, tackle group discussions and face interviews

Unit-1: : NATURE OF COMMUNICATION

Definition, Need and importance of communication skills, Basic types of communication-ReadingWriting-ListeningSpeaking, Forms of communication-Verbal-Written-Oral-Non verbal, The Communication Process, Barriers of communication and ways in overcoming barriers.

Unit-2: Written Communication

The process of formal written Communication (deciding purpose, analyzing audience, designing a message, organizing, selecting, arranging ideas and preparing outlines, developing message) The qualities of good writing-clarity-

consciousness-conciseness-correctness-coherence-courteousness.

Unit-3: Business Correspondence In Organization Business Letters: page 14

Enquiry, letter of reply, letter of order, letter of execution, letter of complaint, letter of collection. Common errors in business communication Errors with pronouns, adjectives, verbs adverbs, participles, and prepositions

Unit-4 : REPORT WRITING

Principles report writing: Types of reports, structure of report, Presentation of report

Unit-5 Application of Communication Skills

Group Decision-Making - Conflict and Negotiations - Presentation and Interviews - Speeches - Customer Care/Customers Relations - Public Relations (Concept, Principles, Do's and Don'ts etc. to be studied for each type).

Text Books And Reference Books:

1) Business Communication-Urmil Rai , S. M. Rai –Himalayas Publishing House, Asha Kaul-Hall Of India

Essential Reading / Recommended Reading

1) Business Correspondence & Communication Skills-Kapoor (S. Chand & Co)

2) Effective Skills:-Ravi Agrawal –Sublime Publishing Jaipur

- 3) Developing Communication Skills-Mohan –Macmillan Publishing
- 4) Business Communication – Om P Juneja Aarati Mujumdar
- 5) Business Correspondence & Report Writing- R. C. Sharma & Krishna Mohan.



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SDGI GLOBAL UNIVERSITY
OFFICE AUTOMATION TOOLS LAB

(BSGUSE2407)

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Course Objective

This subject aims to cover the handling of whole field of word processing. It also involves various clerical tasks, such as organizing customer data or creating reports. It enables people with lower skill levels to perform higher-level tasks. In Today's commercial world, automation helps the users with a sophisticated set of commands to format, edit, and print text documents. It is used as valuable and important tools in the creation of application such as newsletters, brochures, charts, presentation, documents, drawings and other graphic images. This will make the students proficient in office automation applications

LEARNING OUTCOMES

After completing this course, students will be able to:

1. Use file managers, word processors, spread sheets, presentation software's
 2. Describe the features and functions of the categories of application software.
 3. Present conclusions effectively, orally and in writing.
 4. Understand the dynamics of an office environment.
 5. Demonstrate the ability to apply application software in an office environment.
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6. Use Google Suite for office data management tasks. Page 15

DETAILED CONTENTS

- 1 Tools to be used: Microsoft office/ Libre Office / Open Office / G Suite

PRACTICING MS WORD

- 2 Creating a document using different font, changing font size and colour, changing the appearance through

bold/italic/underline.

- 3 Creating a document using subscript and superscript, justification of the document.
- 4 Create a document using Bullets and Numbering.
- 5 Create a document using page number, header and footer.
- 6 Create a document using inserting page breaks and column break, line spacing.
- 7 How to use mail merge and macro in MS Word.
- 8 Creating table, formatting cells, use of different border styles, shading in tables, merging of cells, and partition of cells, inserting and deleting a row in a table in MS word document.
- 9 Apply spelling checker, grammar mistakes, thesaurus in a document.
- 10 Create a Boucher using templates, page setup and print preview, and then print that document.

PRACTICING MS EXCEL

- 11 Working on spread sheet like adding, deleting, merging cells, layout and style.
- 12 Create a table and perform operation using predefined function on it.
- 13 In MS Excel procedure to switching between different spread sheets and workbook.
- 14 Create a spread sheet and print selected as well as full workbook.
- 15 Create a spread sheet with LOOKUP/VLOOKUP features.
- 16 Create different charts in excel and implement formulas (automatic and use defined).

PRACTICING MS POWERPOINT

- 17 Create a Power Point presentation using slide template.
 - 18 Create a Power Point presentation using animation.
 - 19 Create a Power Point presentation using transition
 - 20 Create a Power Point Presentation with Adding movie and sound.
 - 21 Create a Power Point Presentation with Adding tables and chart etc.
 - 22 Changing slide colour scheme in presentation.
 - 23 Viewing the presentation using slide navigator.
 - 24 Create, Save, Run and Print the Power Point Presentation.
 - 25 Create a database table using predefined template.
 - 26 Create a database form using form wizard. 27 Create and share files/folders in Google drive
 - 28 Create and share Google docs.
 - 29 Create and share Google sheets.
 - 30 Create and share Google Forms. And create and share Google slides.
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SGUVA2401 – Environmental Education-25 Batch)

Total Teaching Hours for Semester:30

No of Lecture Hours/Week:2

Max Marks:100

Credits:2

Course Objectives/Course Description

Course Objectives:

Course Outcome

Course Outcomes: On having completed this course student should be able to:

CO1 Gain in-depth knowledge on natural processes that sustain life, and govern economy.

CO2 Predict the consequences of human actions on the web of life, global economy and quality of human life.

CO3 Develop critical thinking for shaping strategies (scientific, social, economic and legal) for environment conservation of biodiversity, social equity and sustainable development.

CO4 Adopt sustainability as a practice in life, society and industry.

CO5 Acquire values and attitudes towards understanding complex environmental-economic-social challenges actively in solving current environmental problems and preventing the future ones.

Unit-1: Introduction to Environmental Studies

Teaching Hours:2

Multidisciplinary nature of environmental studies Scope and importance; Concept of sustainability and sustainable development

Unit-2: Ecosystem

Teaching Hours:8

Definition and concept of Ecosystem □ Structure of ecosystem (biotic and abiotic components); Functions of Ecosystem – Physical (energy flow), Biological (food chains, food web, ecological succession) and Biogeochemical (nutrient cycling) processes. Concepts of productivity, ecological pyramids and homeostasis □ Types of Ecosystem – Tundra, Forest, Grassland, Desert, Aquatic (ponds, streams, lakes, rivers, oceans, estuaries) – their importance and threats on them with relevant examples from India Ecosystem services (Provisioning, Regulating, Cultural and Supporting). Basics of Ecosystem restoration

Unit-3: Natural Resources

Teaching Hours:6

Land resources and land use change Land degradation, soil erosion and desertification Forest resources and causes of deforestation; impacts of mining and dam building on environment, forests, biodiversity and tribal populations Water resource: Use and over exploitation of surface and ground water, floods, drought conflicts over water (international & inter-state) Energy resources :Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs Case

studies: National Solar Mission, Cauvery river water conflict etc

Unit-4 : Biodiversity and Conservation

Teaching Hours:8

Definition of Biodiversity; Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India India as a mega-biodiversity nation; Endemic and endangered species of India; IUCN Red list; biodiversity hotspots Value of biodiversity: Ecological, economic, social, ethical, aesthetic and informational value of biodiversity with examples; sacred groves and their importance with example Current mass extinction crisis; Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasion with emphasis to Indian biodiversity

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Unit-5 Environmental pollution

Teaching Hours:8

Environmental pollution (Air, water, soil, thermal and noise): causes, effects and controls; Air and water quality standards Nuclear hazards and human health risks Solid waste management: Control measures of urban and industrial waste Pollution case studies: Ganga Action plan (GAP), Delhi air pollution and public health issues etc

Text Books And Reference Books:

1 AlexandareRojey, 2009. Energy and Climate, Wiley Publications, Great Britain

2. BharuchaErach, 2003. The Biodiversity of India, Ahmedabad: Mapin Publishing Pvt. Ltd. 3. Clark, R. S., Marine Pollution, Clarendon Press Oxford

