**SEMESTER III**

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI   
BACHELOR OF BUSINESS ADMINISTRATION (BBA)**

**BBA 201: Business Laws**

**L-4, T -0** **Credits-4**

**Objective:** The objective of the course is to impart understanding of legal environment of business and familiarize with legal agreements to understand the process of establishing legal relationships

**Course Outcomes:**

CO1: Examine various aspects of contract and implications of various types of contract.

CO2: Interpret the regulation concerning the Contract of Sale of Goods Act, 1930.

CO3: Understand and analyse Companies Act 2013 with latest amendments.

CO4: Examine the concepts of Negotiable Instrument Act, 1881.

CO5: Comprehend the concepts of valid contract regarding business transactions.

**Course Content**

**Unit I**

**The Indian Contract Act, 1872:** Nature of Contract and its essentials, Void, Valid and Voidable Contracts, Consent, Consideration and its’ impact on Contract, Agreements in restraint of Trade, Performance, Breach of Contract and remedies, revocation and termination of Contract, Agency and Bailment Contracts, Contract of Indemnity, Contract of Guarantee and Pledge. **(14 Hours)**

**Unit** **II**

**The Sale of Goods Act, 1930:**  Objective, Definition of Contract of sale, Sale and Agreement to Sell,

Definition of Goods, Conditions and Warranties, Implied Conditions and Implied Warranties,

Performance of Contract of Sale and Right of unpaid seller, rights of sellers and buyers, transfer of

property. Unpaid seller and rights of unpaid seller.

**Indian Partnership Act 1932:** Definition of Partnership, Registration of Partnership Firm, Rights and duties of Partners, Dissolution of Partnership and Partnership firm.

**Limited Liability Partnership Act, 2008:** Formation and Incorporation of LLP, Partners and their

relations, Financial Disclosures, Conversion into LLP, Foreign LLP. **(18 Hours)**

**Unit III**

**The Companies Act 2013 with up-to-date Amendments:** Essential characteristics of a Company, Types of Companies, Memorandum and Articles of Association, Prospectus, Essential conditions for a valid Meeting, Kinds of Meetings and Resolutions; Directors and Remuneration, Directors, Managing Directors-their Appointment, Qualifications, Powers and Limits on their Remuneration, Introduction to Lifting of corporate veil, conceptual framework of formation of company, Doctrine of Ultra Vires and Doctrine of Indoor Management, Winding up of Companies. **(14 Hours)**

**Unit IV**

**Negotiable Instruments Act:** Meaning and types of Negotiable Instruments- Cheques, Promissory Notes, Bills of Exchange, Holder and Holder in due course, Types of Endorsements, Types of Crossing of Cheques, Dishonor of Cheques and Consequences. **(10 Hours)**

***Note: Case Studies are to be covered relevant to the concepts.***

**Suggested** **Readings: (Latest Editions)**

1. Kuchhal, M.C and Kuchhal, Vivek, Business Law, Vikas Publishing House, New Delhi.
2. Pathak A, Legal Aspect of Business, McGraw Hill Education Company.

3. Maheshwari, S.K & Maheshwari S.N , A Manual of Business Law ,Himalayan Publishing House.

4. Singh, Avtar, Business Law, Eastern Book Company, Lucknow.

5. Kapoor N.D, Business Law, Sultan Chand, New Delhi.

6. Bulchandani K. R, Business Law for Management, Himalaya Publishing House, New Delhi.

CO-PO MAPPING

**BBA 201 Business Laws**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO 7 | PO 8 |
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| AVG | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI   
BACHELOR OF BUSINESS ADMINISTRATION (BBA)   
BBA-203: Marketing Management**

**L-4 /T-0 Credits-4**

**Objective:** To provide understanding of the marketing concepts and to familiarize with the emerging trends in marketing.

**Course Outcomes:**

CO1: Explore the concepts of Marketing Management.

CO2: Appraise in New Product Development, product Line and width and also product pricing.

CO3: Understand the role and relevance of Place and Intermediaries.

CO4: Acquire skills to understand the factors which influence the promotional mix.

CO5: Understand the concept and importance of Direct Marketing, Public Relations and Digital Marketing.

CO6: Acquire skills to handle marketing related business and research issues.

**Course Content**

**Unit I**

**Introduction:** Marketing - Meaning, Scope and Importance; Concepts, Philosophies of Marketing; Marketing Environment: Macro and Micro environmental factors. Consumer Decision Making Process; Market Segmentation- Levels and Bases of Segmenting Consumer Markets, Market Targeting- concept and criteria, Product Positioning – concept and bases. **(14 Hours)**

**Unit II**

**Marketing Mix Decision –Product and Pricing:** Product Decisions: Concept and classification; Levels of Product. Product strategies; Branding decisions; New Product Development; Product life cycle; Pricing Decisions: Objectives; Factors affecting pricing; Pricing methods; Pricing strategies. **(14 Hours)**

**Unit III**

**Marketing Mix Decisions -Promotion and Distribution:** Distribution Decisions: Channels of distribution- types and functions. Delivering value- factors affecting choice of distribution channel; Channel Management; Promotion Decisions: Communication process; Decision about Promotion mix tools: advertising, personal selling, sales promotion, public relations, publicity and direct marketing; Integrated Marketing Communication approach. **(14 Hours)**

**Unit IV**

**Introduction to Emerging Trends in Marketing:** Relationship Marketing, Sustainable Marketing, Green Marketing, Social marketing, Digital Marketing, Social Media Marketing, Role of AI and Robotics in Marketing, Ethical issues in Marketing. **(14 Hours)**

***Note: Case Studies are to be covered relevant to the concepts.***

**Suggested Readings: (Latest Editions)**

1. Kotler, P., Keller, K.L. , Marketing Management, Pearson Education.
2. Ramaswamy, V.S and Namakumari, S., Marketing Management: A Strategic Decision Making Approach Global Perspective Indian Context, McGraw Hill Education Company.
3. Lamb, C.W, Hair, J.F, Sharma, D. &Mc Daniel C., Marketing- A South Asian Perspective Edition, South-Western Cengage Learning.
4. Baines, P., Fill, C., Page, K., Sinha, P.K., Marketing (Asian Edition), Oxford University Press, New Delhi.
5. Walker 0. C., Mullins J. & Boyd Jr. H. W., Marketing Strategy: A Decision Focused Approach, McGraw Hill Education Company.
6. Saxena, R., Marketing Management, McGraw Hill Education Company.

CO-PO MAPPING

**BBA 203 Marketing Management**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO 7 | PO 8 |
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| AVG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI   
BACHELOR OF BUSINESS ADMINISTRATION (BBA)**

**BBA 205: Human Resource Management**

**L-4, T-0 Credits: 04**

**Objective:** To develop an understanding of the concepts, techniques and principles to manage human resources of an organization.

**Course Outcomes:**

CO1: Examine the concepts and relevance of HRM.

CO2: Explore the various dimensions of Human resource Planning.

CO3: Analyze the needs, methods and designing of training and development programmes.

CO4: Exhibit the career planning and career development.

CO5: Acquire skills for employees performance appraisal and to understand the relevance of employee maintenance and Industrial Relations.

**Course Content**

**Unit I**

**Introduction to Human Resource Management:** Functions of HR Manager; Policies related to Human Resource Management; Emerging challenges of human resource management - Workforce diversity, welfare, health, safety, social security, empowerment, downsizing, VRS, work life balance. Employee code of conduct, Human Resource Information System (HRIS) and e-HRM.  **(14 Hours)**

**Unit II**

**Acquisition of Human Resource:** Human resource planning- Quantitative and qualitative dimensions; Job analysis – Job description and job specification; Recruitment –sources, process; Selection – process, techniques and tools; induction and orientation; Retention. **(14 Hours)**

**Unit III**

**Training and Development:** Concept and importance; Role specific and competency-based training; Training and development techniques and programs – Apprenticeship, understudy, Job rotation, vestibule training, case study, role playing, sensitivity training, In- basket, management games, conferences and seminars, coaching and mentoring, management development programmes; Training process outsourcing, Cultural Shock. **(14 Hours)**

**Unit IV Performance Appraisal and Compensation Management:** Performance appraisal- Nature, objectives, process, methods, Employee counselling; Job changes - Transfers and promotions. Compensation - Rules and policies, Base and supplementary compensation; Individual and group incentive plans; Fringe benefits; Performance linked compensation; Employee stock option; Pay band compensation system; HR Audit, Contemporary issues in human resource management. **(14 Hours)**

***Note: Case Studies are to be covered relevant to the concepts.***

**Suggested Readings: (Latest Editions)**

1. 1. Dessler, Gary, A Framework for Human Resource Management, Pearson Publishers.
2. David A. Decenzo, Stephen P. Robbins, Susan L. Verhulst, Human Resource Management, Wiley India Private Limited.
3. Bohlendar and Snell, Principles of Human Resource Management, Cengage Learning.
4. Aswathappa,K, Human Resource Management, McGraw Hill Education Company.
5. Robert L. Mathis and Jackson, J., Human Resource Management, South-Western College Publishing.
6. Rao, V. S. P., Human Resource Management: Text and Cases, Excel Books, Delhi

CO-PO MAPPING

**BBA 205 Human Resource Management**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO 7 | PO 8 |
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| AVG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI   
BACHELOR OF BUSINESS ADMINISTRATION (BBA)   
BBA 207: Management Accounting**

**L-4, T•0 Credits —4**

**Objective:** The objective of the course is to familiarize the learners with the basic management accounting concepts and their applications in managerial decision making.

**Course Outcomes**:

CO1: Understand the nature and scope of Management Accounting.

CO2: Analyse and interpret the accounting financial statements of a company and its limitations.

CO3: Executing skills to prepare various Budgets.

CO4: Examining the impact of different ratios on the financial performance of a company.

CO5: Compute cash flow analysis and its likely impact on the company

**Course Contents**

**Unit I:**

**Introduction:** Meaning, Objectives, and Scope of management accounting; Difference between financial accounting, cost accounting and management accounting; Comparative financial statements, common size financial statements, trend analysis, Ratio analysis, cash flow statement. **(14 Hours)**

**Unit II:**

**Budgetary Control and Variances:** Concept and types of budgeting and budgetary control; meaning, objectives, merits, and limitations of budgetary control; budget administration; Functional budgets including cash budget; Fixed and flexible budgets: meaning and preparation; Zero-based budgeting; Performance budgeting, difference between performance & traditional budgeting. Meaning of Variance and Variance Analysis – Material, Labour, Overheads and Sales Variances, Disposition of Variances, Control Ratios. **(14 Hours)**

**Unit III:**

**Costing and Profit Planning:** Meaning of Variable Costing, Absorption Costing and Marginal Costing; uses of Marginal costing; Cost-Volume-Profit Analysis, Profit/Volume ratio, Break-Even Analysis - Algebraic And Graphic Methods, Angle of Incidence and Margin of Safety. **(14 Hours)**

**Unit IV:**

**Managerial Decision Making:**Decision making based on Marginal Cost Analysis - profitable product mix, Make or Buy, Addition or Elimination of a product line, sell or process further, operate or shut down

Managerial Decision-making using spreadsheets. **(14 Hours)**

**Suggested Readings: (Latest Editions)**

1. Maheshwari, S.N., Principles of Management Accounting, Sultan Chand & Sons.
2. Khan, M.Y, Management Accounting, McGraw Hill Education Company.
3. Arora, M.N., Cost Accounting, Vikas Publishing House.
4. Lal, Jawahar and Srivastava, Seema, Cost Accounting, McGraw Hill Education Company.
5. Bhattacharya, Management Accounting, Pearson Education.
6. Hilton R.W., Managerial Accounting, McGraw Hill Education Company.

CO-PO MAPPING

**BBA 207 Management Accounting**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO 7 | PO 8 |
| CO1 | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 1 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 |
| CO4 | 3 | 2 | 3 | 1 | 3 | 1 | 1 | 1 |
| CO5 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 1 |
| AVG | 3 | 2.4 | 3 | 2.4 | 3 | 1.8 | 1 | 1.8 |

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI   
BACHELOR OF BUSINESS ADMINISTRATION (BBA)**

**BBA 209: Production and Operations Management**

**L-3/ T-0 Credits —3**

**Objective:** To develop basic understanding of concepts, theories and techniques of production process and operations management.

**Course Outcomes:**

CO1: Interpret the basic concept and functions of production and operations management.

CO2: Able to understand the process of design and development of production systems.

CO3: Explore the various factors in deciding location and plant layout.

CO4: Articulate inventory management and JIT with quality management systems and TQM.

CO5: Identify critical factors for plant maintenance.

**Course Contents**

**Unit I**

**Introduction:** Definition. Objectives, Scope and Functions of Production & Operations Management, Types of Production Systems, Transformation Process Model, Systems Perspectives of Operations Management, and Relationship of Operations Management with Other Functional Areas.

Production Planning and Control: Objectives, Importance, Levels and Procedures of Production Planning and Control, Role of Production Planning and control in manufacturing Industry.

**Design of Production System:** Production Design, Factors Influencing Production Design, Process Planning and Process Design. **(12 Hours)**

**Unit II**

**Plant Location and Layout:** Defining Plant Location, Factors affecting initial selection of site location, criteria of site selection, Plant Location Methods- Factor Rating, Centre of Gravity Methods, Analytic Delphi Method, Objectives of Plant Layout, Factors affecting Plant Layout, Types of layouts-Process, Product and Fixed position layout, Problems in Facility Layout.

**Purchasing and Material Management:** Objectives and Importance of Material Management, Organisation of Material Management, Factors influencing Material Management, Steps in purchasing procedure, and Methods of Purchasing. **(10 Hours)**

**Unit III**

**Inventory Management & JIT**: Inventory Management and Analysis, Inventory Control, Essentials of a good Inventory Control System, Factors affecting Inventory Control Policy, Models / Methods of Inventory Control- EOQ, Re-order Level, ABC analysis, VED analysis, SDE analysis, HML analysis and FSN analysis. Just in Time Implementation Requirements.

**Quality Management Systems and TQM:** TQM, Defining quality assurance and quality control, Phases of Quality Control, Specification of Quality, Quality at Source, Zero Defects, Cost of Quality, Continuous Improvement, Benchmarking, Poka—Yoke, ISO (9000& 14000 Series), and Six Sigma.

**(10 Hours)**

**Unit IV**

**Plant Maintenance:** Importance of Maintenance Management, Types of Maintenance- Breakdown, Preventive, Predictive, Routine and Planned Maintenance.

**Emerging Concepts and Issues in Manufacturing Systems:** IT in Modern Production Management, Supply Chain Management, CAD / CAM Systems, ERP in Manufacturing Systems.

**(10 Hours)**

**Suggested Readings: (Latest Editions)**

1. Kale, S., Production and Operation Management, McGraw Hill Education.
2. Mahadevan, B., Operation Management: Theory and Practice, Pearson Education India.
3. Chary, S. N., Production and Operation Management, McGraw Hill Education.
4. Panneerselvam, R., Production and Operation Management, Prentice Hall.
5. Chase, R.B., Operations and Supply Chain Management, McGraw Hill Education.
6. Stevenson, W. J., Operations Management, McGraw Hill Education.

CO-PO MAPPING

**BBA 209 Production and Operations Management**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO 7 | PO 8 |
| CO1 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 1 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 1 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 1 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 |
| AVG | 3 | 3 | 3 | 3 | 3 | 1.4 | 1 | 1 |

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI   
BACHELOR OF BUSINESS ADMINISTRATION (BBA)**

**BBA-211: Business Research Methodology**

**L-3, T-0 Credits: 03**

**Objective:** The course aims to develop research aptitude skills among the learners and to enable them to prepare project report.

**Course Outcomes:**

CO1: Outline the significance of research and research methodology.

CO2: Understand the basic concepts and scope of Business research.

CO3: Formulate research process for solving the business related problems.

CO4: Examine the concept of measurement, sampling and hypotheses testing.

CO5: Prepare a research report.

**Course Contents**

**Unit I**

**Introduction:** Meaning of Research; Scope of Business Research; Purpose of Research, Types of Research, Criteria of Good Research, Steps in the Research Process, Unit of Analysis - Individual, Organization, Groups, and Data Series; Concept, Construct, Attributes, Variables, and Hypotheses.

**(10 Hours)**

**Unit II**

**Data Collection:** Primary and Secondary sources of Data; Qualitative Vs Quantitative data; Methods of data collection.

**Research Methods-** Field Study, Laboratory Study, Survey Method, Observational Method, Existing Data Based Research, Longitudinal Studies, Panel Studies. **(8 Hours)**

**Unit III**

**Measurement:** Definition; Designing and writing items; Uni-dimensional and Multidimensional scales; Measurement Scales- Nominal, Ordinal, Interval, Ratio; Ratings and Ranking Scale, Thurston, Likert and Semantic Differential scaling, Paired Comparison, Questionnaire Design, Development and Testing, Reliability and Validity.

**Sampling** -Steps, Types, Sample Size Decision

**Hypothesis Formulation and Testing:** Tests concerning means and proportions;Regression, T Test, Z Test, ANOVA, Chi-square test. **(14 Hours)**

**Unit IV**

**Report Preparation:** Meaning, types and layout of research report; Steps in report writing ; Literature review and its significance, Citations Styles, Bibliography and Annexure in report, Essentials of good research report, presentation of a report, Ethics in Research, Plagiarism Check.

**(10 Hours)**

**Suggested Readings: (Latest Editions)**

1. Chawla , Deepak & Sondhi, Neena, Research Methodology-Concepts and Cases, Vikas Publishing House.
2. Cooper, Donald R. and Schindler, Pamela S., Business Research Methods, McGraw Hill Education Company.
3. Kumar, Ranjit, Methodology: A step by step Guide for Beginners, Pearson Education.
4. Kumar V., Marketing Research: A Global Outlook, Sage Publications.
5. Levin, Richard and Rubin, DS, Statistics for Management, Pearson Education.
6. Beri, G.C., Marketing Research, McGraw Hill Education Company.

CO-PO MAPPING

**BBA 211 Business Research Methodology**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO 7 | PO 8 |
| CO1 | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 3 |
| CO2 | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 3 |
| CO3 | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 3 |
| CO4 | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 3 |
| CO5 | 3 | 3 | 3 | 1 | 3 | 1 | 3 | 3 |
| AVG | 3 | 3 | 3 | 1 | 3 | 1 | 2.2 | 3 |

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI   
BACHELOR OF BUSINESS ADMINISTRATION (BBA)**

**BBA-213: Business Research Methodology Lab**

**L-0, P-4 Credits-2**

**Objective:** To enable the students about the various aspects of data analysis and interpretation in promoting quality research.

**Course Outcomes:**

CO1:Acquire skills to use software (Advance Excel/ SPSS).

CO2:Examine research tools for solving business problems.

CO3: Implement statistical tests for resolving an issue.

CO4: Demonstrate skills for decision making.

The Lab would be based on the Course: Business Research Methodology. The lab will cover various aspects of research, identification and use of various statistical tests using software tools available to a researcher such as Excel / SPSS / R / Python / any other analytical software.

CO-PO MAPPING

**BBA 213 Business Research Methodology Lab**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO 7 | PO 8 |
| CO1 | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 3 |
| CO2 | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 3 |
| CO3 | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 3 |
| CO4 | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 3 |
| AVG | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 3 |

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI   
BACHELOR OF BUSINESS ADMINISTRATION (BBA)**

**BBA-215: NSS/NCC/NSO/others as notified by the university (NUES)**

**L-2, T-0, Credits: 02**

NCC/NSS are offered so as to unable the students to opt for the same for ability enhancement. The student who has successfully completed the said programme as per guidelines shall be awarded two credits after the same is duly approved by the NSS/NCC Cell and recommended by the Controller of Examination to post two credits as per decision of the Board of Studies of the School.

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI   
BACHELOR OF BUSINESS ADMINISTRATION (BBA)**

**BBA-217: Environmental Studies**

**L-4, T-0, Credits: 4**

**Objective**: The course is designed to impart basic knowledge of the environment, its components and explore different approaches of conserving and protecting environment for the benefit of society. It also deals with the energy resources and current environmental problems faced by the world.

**Course Outcomes:**

CO1: Environmental Studies course will provide necessary information and knowledge about the various aspects of environment, ecosystems and related biodiversity.

CO2: Students will be able to learn and understand about the availability and sustainable use of resources, environmental problems and their short term and long term impacts to humans

CO3: Course will help them to learn about environmental policies and protocols, social issues and role of human in conservation and protection of environment.

CO4: Overall, course will help students to develop skills and ability of understanding environment- human relationship

**Course Content**

**Unit I**

**Fundamentals:** The Multidisciplinary nature of environmental studies**:** Definition, components, scope and importance, need for public awareness; Ecosystems**:** Concept, Structure and function of an ecosystem, energy flow in ecosystems, food chain, food web, ecological pyramids, ecological succession; Introduction to types, characteristics features, structure and function of different ecosystems including forest, grassland, desert and aquatic ecosystem; Biodiversity**:** Introduction to biodiversity-definition, genetics, species, ecosystem diversity, biogeographical classification of India, value of biodiversity-consumptive uses, productive, social, ethical, aesthetic and option values, biodiversity at global, national and local level, India as a mega diversity nation, endangered and endemic species of India, hot spots of biodiversity, threats to biodiversity – habitat loss, poaching of wild life, man wildlife conflicts and conservation of biodiversity- in-situ and ex-situ conservation. **(18 hours)**

**Unit II**

**Renewable and Non-renewable Resources:** Energy resources, Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources-green fuel; Water Resources**:** Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems; Forest resources**:** Use and over-exploitation, deforestation, Timber extraction, mining, dams and their effects on forest and tribal people, case studies; Mineral resources**:** Use and exploitation, environmental effects of extracting and using mineral resources, case studies; Food resources**:** World food problems, changes caused by agriculture and over-grazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies; Land resources**:** Land as a resource, land degradation, man induced landslides, soil erosion and desertification; Role of individual in conservation of natural resources, Resource Management-Sustainable development.

**(12 Hours)**

**Unit III**

**Environmental Pollution:** Air Pollution**;** Types of pollutants, source, effects, sink & control of primary pollutants– CO, NOX, HC, SOx and particulates, effect of pollutants on man & environment: photochemical smog, acid rain and global warming, CO2 Sequestration. Water Pollution**;** Classification of Pollutants, their sources, waste water treatment (domestic and industrial). Soil Pollution; Composition of soil, classification and effects of solid pollutants and their control; Solid Waste Management**:** Classification, waste treatment and disposal methods; compositing, sanitary land filling, thermal processes, recycling and reuse methods.

Hazardous wastes**-**Classification, radioactive, biomedical & chemical, treatment and disposal- Physical, chemical and biological processes; Marine Pollution**:** Causes, effects and control of marine pollution, coastal zone management; Thermal pollution**-**Causes, effects and control of marine pollution, coastal zone management; Disaster Management-Floods, earth quake, cyclone and landslides. **(11 hours)**

**Unit IV**

**Environmental Policies, Human Population and Environment:** Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents, case studies; Some important Environmental laws, issues involved in enforcement of environment legislations, Green bench; carbon footprint, Montreal and Kyoto Protocol, conservation of Biological Diversity, The Chemical Weapons Convention, Environment Impact Assessment; population growth and variation among nations, Impacts on environment and human health, human right, Tribal people and rights, Human and wildlife conflicts in Indian context, Environmental ethics;Role of government and non government organizations in public awareness and environment improvement. **(15 hours)**

**Field work:**

**visit to local areas to document environmental assets, study of simple ecosystems, study and identification of common plants, birds and insects.**

**Suggested Readings: (Latest Editions)**

1. Gadi, R., Rattan, S., Mohaptra, S., A textbook of Environmental Studies, Kataria Publication.
2. P. Meenakshi, Elements of Environmental Sciences & Engineering, PHI Learning Pvt. Ltd.
3. Kaushik, A. & Kaushik, C.P., Basics of Environment and Ecology, New Age International Publishers.
4. Mishra, D.D., Fundamental Concepts in Environmental Studies, S Chand & Co. Ltd.
5. Bharucha, E., Textbook of Environmental Studies, University Press Pvt. Ltd.
6. Joseph, B., Environmental Studies, Tata McGraw-Hill Publishing Company Ltd.

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