



**ख्वाजा मुईनुद्दीन चिश्ती भाषा विश्वविद्यालय, लखनऊ, उत्तर प्रदेश (भारत)**  
**Khwaja Moinuddin Chishti Language University, Lucknow, U.P. (India)**  
U.P. STATE GOVERNMENT UNIVERSITY,  
(Recognised Under Section 2(f) & 12(B) of the UGC Act, 1956 & B.Tech. Approved by (AICTE))

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# **SEMESTER WISE STRUCTURE AND CURRICULUM**

## **BBA SEMESTER -I**



## BBA SEMESTER –I

SEMESTER-I						
S.No.	Course Code**	Course title	L	T	P	Credit
1	CC 101	Principles and Practices of Management	3	1	0	4
2	AEC 101	Business Communication –I	1	1	0	2
3	CC 102	Financial Accounting	3	1	0	4
4	CC 103	Business Statistics and Logic	3	1	0	4
5	AEC 102	General English	1	1	0	2
6	MDE 101	Indian Knowledge System ^	2	0	0	2
7	VAC 101	Environmental Science and Sustainability	2	0	0	2
8	AEC103	Additional Course- Indian or Foreign Language 1-1-0) [Optional Course]*	3	1	0	0*
<b>Total</b>						<b>20</b>

### Note:

^Indian Knowledge System: Indian Culture and Civilization Indian Vision for Human Society  
Indian Science Indian Town Planning and Architecture Indian Mathematics and Astronomy  
Indian Aesthetics Indian Health, Wellness

**\*Indian Languages:** Sanskrit/Hindi/Urdu

**Foreign Languages:** French/Arabic/Persian/English

### \*\*Course Code Definitions

L: Lecture

T: Tutorial

P: Practical

CC: Core Courses

AEC: Ability Enhancement Courses

MDE: Multi-Disciplinary Elective course

VAC: Value added Courses

SEC: Skill Enhancement courses

DSE: Discipline Specific Elective

OE: Open Elective



## Principles and Practices of Management

CC101	Principles and Practices of Management	4L:0T:0P	4 Credits
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### Course Description:

This course introduces the student to the key aspects of management planning, organizing, leading, and controlling by integrating both classical and contemporary management practices. Through case studies, interactive sessions, and practical exercises, students will learn to apply these principles to real-world scenarios that will prepare them for leadership roles in diverse organizational settings. The goal is to equip students with the tools and insights necessary to manage effectively and drive organizational success.

### Course Objectives:

1. To understand the basic concepts, principles, and theories of management.
2. To examine the essential functions of managers.
3. To analyze the impact of globalization, diversity, and ethics on management.
4. To develop skills in strategic planning, decision-making, and leadership.

### Course Content:

#### Unit 1: Introduction to Management

Definition, nature, and significance of management, principles of management, management and administration, levels of management, role of managers and managerial skills; Evolution of management thought: Classical, Behavioral, Quantitative, Systems, Contingency and Modern approaches; Management as a science and an art; Functions of management: Planning, organizing, leading, and controlling.

#### Unit 2: Planning, Organizing and Staffing

Nature, Importance and Purpose of planning in management; Types of plans: Strategic, tactical, operational; Planning process and techniques; Decision-making- Importance and steps, decision-making models and tools; Organizational structure and design; types of organizational



structures: Functional, divisional, matrix; Authority, responsibility, and delegation, Centralization Vs Decentralization of authority and responsibility – Span of Control; Coordination and integration, MBO and MBE; Nature and Importance of staffing – Process of selection and recruitment.

### **Unit 3: Leading, Directing and Controlling:**

Meaning and nature of directing, Leadership theories (trait, behavioral, contingency, participative, charismatic, transformational, level-5 leader), Motivation theories and practices (Maslow, Herzberg two factor, McGregor's theory x & theory y), Hawthorne effect, Communication (meaning and importance) in management, Team building and group dynamics; Controlling-meaning and steps in controlling, control process and systems, essentials of sound control system, methods of establishing control, types of control; Performance measurement and management.

### **Unit 4: Strategic Management, Ethics and Social Responsibility:**

Overview of strategic management, SWOT analysis and strategic formulation, Implementing and evaluating strategies. Ethical issues in management, corporate social responsibility (CSR), Sustainable management practices.

### **Text Books (Latest Editions):**

1. Rao, V. S. P. Management Principles and Applications. Taxmann Publications.
2. Bright, D. et al. Principles of Management. Open Stax Textbooks, Houston
3. Kapoor, Premvir, Principles of Management, Khanna Book Publishing.
4. Jones, G.R., and George, J.M. Essentials of contemporary management. New York, NY: Mc Graw-Hill Education.
5. Robbins, S.P. & Coulter, M. A. Management. Pearson.

### **References:**

1. Indian Business Rising: The Contemporary Indian Way of Conducting Business-And How It Can Help You Improve Your Business | Harvard Business Review Press|5813BC-PDF-ENG| <https://hbsp.harvard.edu/product/5813BC-PDF-ENG>



### Reflective Exercises and Cases:

1. Entrepreneurial Leadership in Forming High Tech Enclaves: Lessons from the Government of Andhra | F. Warren Mc Farlan, Espen Andersen, Ramiro Montealegre| Harvard Business School | 308079-PDF-ENG| <https://hbsp.harvard.edu/product/308079-PDF-ENG?>
2. ATH Technologies by Robert Simons and Jennifer Packard  
<https://www.hbs.edu/faculty/Pages/item.aspx?num=52711>
3. Article review and discussion: Application of Ancient Indian Philosophy in Modern Management ([http://www.irdindia.in/journal\\_ijrdmr/pdf/vol5\\_iss4/8.pdf](http://www.irdindia.in/journal_ijrdmr/pdf/vol5_iss4/8.pdf))
4. Review of Lincoln Electric Co. by Norman Berg.
5. Review of Hawthorne case.
6. Leadership Lessons from India| Peter Cappelli, Harbir Singh, Jitendra V. Singh, Michael U seem | Harvard Business Review |R1003G-PDF-ENG  
<https://hbsp.harvard.edu/product/R1003G-PDF-ENG?>
7. Traditional Way of Learning Ayurveda and Practicing It: A Dialogue with Vaidya Bhaskar bhai Hardikar| Mukund Dixit, Sanjay Verma / IIM Ahmedabad|A00135-PDF-ENG|<https://hbsp.harvard.edu/product/A00135-PDF-ENG?>
8. Forest Essentials: Demystifying India's Luxury Ayurveda Brand | Veena Vohra, Seema Khanvilkar | Ivey Publishing|W28410-PDF-ENG  
<https://hbsp.harvard.edu/product/W28410-PDF-ENG?>
9. Ati jeevan Foundation: Transforming Scars into Strength | Shubham Sharma,Satyendra C Pandey|Ivey Publishing| W36939-PDF-ENG|  
<https://hbsp.harvard.edu/product/W36939-PDF-ENG?>
10. How Do Great Leaders Overcome Adversity? By Mayo (2024)  
<https://hbswk.hbs.edu/item/cold-call-how-do-great-leaders-overcome-adversity>
11. Leadership principles from Hindu scriptures (<https://blog.hua.edu/blog/leadership-principles-from-hindu-scriptures>)
12. Principles of Purposeful Leadership | Hubert Joly | Harvard Business Review | H06YSB-PDF-ENG | <https://hbsp.harvard.edu/product/H06YSB-PDF-ENG?>



13. Bharti Airtel (A) | C.K. Prahalad , M.S. Krishnan, Sheel Mohnot |

WDIPublishing|W88C34-PDF-ENG| [https://hbsp.harvard.edu/product/W88C34-PDF-ENG?http://www.ibscdc.org/Case\\_Studies/Leadership/Leadership%2COrganizationalChangeandCEOs/LDS0028.htm](https://hbsp.harvard.edu/product/W88C34-PDF-ENG?http://www.ibscdc.org/Case_Studies/Leadership/Leadership%2COrganizationalChangeandCEOs/LDS0028.htm)

### **Course Outcomes:**

On having completed this course, students should be able to:

1. Demonstrate how management principles are used to solve practical business problems (Remember-K1, Understand-K2).
2. Compare and contrast different management theories and their effectiveness in various organizational contexts (Remember-K1, Understand-K2).
3. Design a management strategy for a hypothetical or real organization using a mix of management theories and practices (Remember-K1, Understand-K2).
4. Propose innovative management solutions to enhance efficiency and effectiveness in given business scenarios (Remember-K1, Understand-K2, Apply -K3).

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## Business Communication-I

AEC101	Business Communication-I	1L:1T:0P	2 Credits
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### Course Description:

This course focuses on bringing in perspective the importance of Business Communication for organizations and individual employees in the context of multi cultural work force in a digital world. The course will focus on instilling effective communication skills in students for organizational setup. The course will be taught using texts, cases and classroom exercises for improving both written and oral communication in students.

### Course Objectives:

1. To understand the concept, process, and importance of Business Communication.
2. To help students in understanding the basic principles and techniques of business communication.
3. To train students to acquire and master written communication for the corporate world.
4. To sensitize students to understand Business Communication in Global and Cross-Cultural context.

### Course Content:

#### Unit1: Introduction to Communication in Organizations:

Introduction to Business Environment and Communication, Models of Communication, Basics of Communication (types, channels and barriers), 7Cs of communication, Formal and informal communication, Listening Skills, communication on social media platforms.

#### Unit2: Written Communication:

Planning and executing different types of messages, emails, formal letters (Planning & Layout of Business Letter) and informal messages one-to-one, negative messages: indirect & direct negative messages; Persuasive messages, request letters to various stakeholders, Sales Letters, Complaint & Follow up Letters, Promotion Letters, Job application Letters, cover letters, resume, Resignation Letters.



### **Unit 3-Interpersonal Communication:**

Team communication, managing communication during online meeting, communication with virtual team, communication in gig-economy; Presentation skills (Verbal and non verbal); Power point presentation skills; Info-graphics, introduction to contemporary alternatives (such as-Prezi, Visme, Microsoft Sway, Zoho)

### **Unit 4-Digital Communication:**

Social media and individual, social media & organizations, Media Literacy; Strong Digital communication skills – email, instant messaging, video conferencing, Meetings, Digital collaboration, digital citizenship– digital etiquettes & responsibilities; introduction to personal and organizational websites.

### **Text Books (Latest Editions):**

1. AICTE’s Prescribed–Communication Skills in English, Khanna Book Publishing.
2. Lesikar, R.V. & M.E. Flatley, “Business Communication: Connecting in a Digital World”, Mc Graw-Hill Education.
3. Murphy, H. A., Hildebrandt, H. & Thomas, J.P., Effective Business Communication. Mc Graw Hill.
4. Mukerjee H.S., Business Communication: Connecting at Work. Oxford Publication
5. Boove, C.L., Thill, J.V. & Raina, R.L, Business Communication Today, Pearson.

### **References:**

1. Rao, M.T. (2023) Minor Hints: Lectures Delivered to H.H.the Maharaja Gaekwar, Sayaji Rao III. Gyan Publishing
2. Getting Ready for the Real World: HBR, 2020: The Science of Strong Business Writing. <https://hbr.org/2021/07/the-science-of-strong-business-writing>

### **Reflective Exercises and Cases:**

1. Review of Bharat Muni’s Natya Shastra (Rasa, Sahridayata & Sadharanikaran)
2. Preparing on curriculum vitae/ resume and cover letter
3. Reading of annual reports





4. The Future of Internal Communication |Rita Linjuan Men,Shannon A.Bowen  
|Business Expert Press|BEP336-PDF-ENG| <https://hbsp.harvard.edu/product/BEP336-PDF-ENG>
5. Change Management and Internal Communication |Rita Linjuan Men, Shannon A. Bowen|  
Business ExpertPress|BEP334-PDF-ENG|<https://hbsp.harvard.edu/product/BEP334-PDF-ENG>
6. Lighting the Fire: Crafting and Delivering Broadly Inspiring Messages| Tsedal Neeley,  
Tom Ryder|Harvard Business School|416046-PDF-ENG|  
<https://hbsp.harvard.edu/product/416046-PDF-ENG?>
7. Bad Writing is Destroying Your Company’s Productivity (2016) by Josh Bernoff  
<https://hbr.org/2016/09/bad-writing-is-destroying-your-companys-productivity>
8. Students are expected to display proficiency in writing the following Business  
Communication (and be evaluated for internal assessment): Persuasive Letters, Promotion  
letters and cover Letters; Prepare Elevator Pitch

### Course Outcomes:

On having completed this course, students should be able to:

1. Apply the skills of effective letter writing and be able to create various kinds of Business letters (Apply-K3, Create-K6).
2. Understand various barriers to communication and apply pre-emptive measures, including feedback, to minimize the same (Remember-K1, Understand-K2).
3. Students shall be able to effectively analyze and evaluate various kinds of business correspondence and e-correspondence (Analyze-K4, Evaluate-K6)..
4. Able to present in front of audience with confidence and expertise (Apply-K3).

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## Financial Accounting

CC102	Financial Accounting	4L:0T:0P	4Credits
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### Course Description:

This course intends to introduce basic accounting principles and practices. The students will have knowledge about the fundamental accounting processes such as journalizing, ledger posting, preparation of trial balance and final accounts in sole trading and company form of business. It also deals with providing an overview of accounting standards on sustainability accounting as value creation for business.

### Course Objectives:

1. To provide an understanding of application of various principles and practice of Accounting.
2. To demonstrate the knowledge on the process of accounting cycle and basic steps involved in Accounting.
3. To apply the knowledge of systematic maintenance of books of accounts to real life business life.
4. To estimate Annual Financial statements of Sole proprietorship and Company form of business.

### Course Content:

#### Unit– I: Introduction to Accounting, Accounting system and process:

Meaning, Need for accounting and accounting information system, Stake holder using accounting information, Qualitative aspects of financial accounting, Accounting standards in India and International (outline), Branches of Accounting, Types of Business Organizations, Accounting taxonomy, Accounting concepts and conventions, Accounting concept to fin come and expenditure, Classification of capital and revenue-expenditure and income, accounting equation of assets equals capital and liabilities, accounting process, contingent assets and



liabilities, Fictitious assets.

**Unit-II: Recording transactions and Trial balance:**

Transactions-nature, Entry in Journal, Purchases, sales, Returns, Receivables, and payables, Inventory, Depreciation and amortizations, reserves, In tangible assets accounting, GST transactions, Entry in Ledger, Accounting accuracy through Trial balance, correction of errors.

**Unit-III: Final Accounts:**

Preparation of Trading and Profit and Loss account, cashbooks, and Balance Sheet of sole trading concerns, importance of disclosures in final accounts

**Unit-IV: Company Final Accounts:**

Introduction to company-kinds, share capital, issue of shares, schedules to accounts, Financial statements as per Companies Act-2013, Provisions as to Preparation of Financial Statements, Preparation of Income statement and Balance sheet (horizontal and Vertical). Green Accounting and Sustainable Reporting- Need and objectives, Sustainability reporting need and methods, data collection, analysis for sustainable reporting to improve value of business, IFRS Financial sustainability disclosure standards.

**Text Books (Latest Editions):**

1. Jain S.P., & Narang KL..Basic Financial Accounting I, New Delhi, Kalyani publishers.
2. Kimmel, Financial accounting, Wiley Publications
3. Gupta, A.. Financial Accounting for Management: An Analytical Perspective, Noida, Pearson Education.
4. S. N. Maheshwari, and .S.K. Maheshwari. Financial Accounting. Vikas Publishing House, New Delhi.
5. Ashish k Battacharya, Essentials of financial accounting Business Managers, Six, PHL learning.
6. Accounting for sustainability: [www.ifac.org](http://www.ifac.org)
7. Peter Bartelmus, E K Seifert, Green Accounting, London, Routledge Publications
8. IFRS sustainability standards: [www.ifrs.org](http://www.ifrs.org)



### **Suggested Cases**

1. Smokey Valley Café
2. Irrigation Equipment's Limited
3. Monarch Trading Company

### **Course Outcomes:**

On having completed this course, students should be able to:

1. Identify the application of various principles and practices of Accounting in preparation of accounting statements (Apply-K3, Evaluate-K5).
2. Demonstrate the knowledge on the process of accounting cycle (Remember-K1, Understand-K2).
3. Apply the knowledge of systematic maintenance of books of accounts to real life business (Apply-K3).
4. Estimate Annual Financial statements of Sole proprietorship and Company form of business (Evaluate-K5).

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## Business Statistics and Logic

CC103	Business Statistics and Logic	3L:1T:0P	4 Credits
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### Course Description:

Quantitative Aptitude tests have been one of the key components in all competitive exams across the globe in recent years. All tests include such aptitude problems to assess a candidate's arithmetic precision, conceptual numerical ability, analytical ability and rational thinking applicability. Hence this course on Business Statistics and Logic has been introduced as part of BBA programs.

Business Statistics helps us to make business decisions under uncertainties. Such decisions must be objective and unbiased and based on quantitative data. This necessitates an analysis of data using appropriate statistical tools and hence understanding of these techniques and models. With the business entities keen on making data-driven decisions it is essential for individuals working in this uncertain environment to possess such skills to make better decisions backed by data.

### Course Objectives:

1. To establish importance of logical reasoning in human inquiry.
2. To demonstrate data handling skills and summarize data with clarity.
3. To extend an understanding of application of relevant concepts of Statistics to a given business scenario.
4. To understand business problems and make decisions using appropriate statistical models and explain trends
5. To demonstrate the knowledge on the process of organizing a data and conduct Statistical treatment.

**Pedagogy:** This course could be dealt using multiple pedagogies like interactive lecture, students' discussions, case studies and experiential learning.



## **Course Content:**

### **Unit–I: Measures of Central Tendency, Dispersion, Measures of Skewness and Kurtosis:**

Classification and tabulation of data, frequency distribution, diagrams and graphs, measure of central tendency-arithmetic mean, weighted arithmetic mean, median, mode, geometric mean and harmonic mean (theory only ) and meaning of partition values-quartiles, deciles, percentiles, measures of dispersion range, quartile deviation, mean deviation from mean and median, standard deviation and coefficient of variation. Skewness- meaning, difference between dispersion and skewness, Karl-Pearson and Bowley's measures of skewness, concept of kurtosis, types of kurtosis and importance.

### **Unit–II: Correlation and Regression:**

Meaning, definition and use of correlation, covariance, scatter diagram, types of correlation, Karl Pearson's correlation coefficient, Spearman's Rank correlation coefficient, probable error. Regression-meaning and utility of regression analysis, comparison between correlation and regression, regression lines–xony, yonx, regression equations and regression coefficients. Meaning,

### **Unit–III: Probability and Probability distributions:**

Introduction to probability, basic concepts of probability- classical definition, addition and multiplication rules, probability distributions –binomial, poisson and normal distributions, expected value.

### **Unit–IV: Introduction to Logic:**

Number series, coding decoding and odd man out series, direction sense test, seating arrangements–linear and circular, blood relations, arithmetic and geometric progressions, Inductive and deductive reasoning.

### **Practical Component:**

Understanding basic concepts of statistics is possible by incorporating data sets from real life situations. In every unit one hour could be set aside to handle realistic data such as number of steps taken on a day, daily expenditures of students, air Quality index in various months in various cities, stock prices etc. using EXCEL and make their interpretations. Students may make short presentations of their analysis to add to the learning experience.



**Readings: Textbooks (Latest Editions):**

1. Levin R.I. & Rubin D.S. *Statistics for Management*. Delhi: Pearson.
2. Pillai & Bagavathi. *Statistics, Theory and Practice*, S Chand Publishing
3. S P Gupta. *Statistical Methods*, Sultan Chand and Sons
4. S C Gupta. *Fundamentals of Statistics*, Himalaya Publishing House
5. Sharma, Gupta, *the Practice of Business Statistics*, Khanna Publishing House.
6. Sharma J.K. *Business Statistics*, Vikas Publishing House

**Reference Research Paper:**

- Fildes, R., & Goodwin, P.(2007). Against your better judgment? How organizations can improve their use of management judgment in forecasting. *Interfaces*, 37(6),570-576.
- Stanovich, K.E., & West, R. F. (2000). Individual differences in reasoning: Implications for the rationality debate? *Behavioral and Brain Sciences*, 23(5),645-665.

**Course Outcomes:**

On having completed this course, students should be able to:

1. Demonstrate data handling skills with clarity and logical reasoning (Remember-K1, Understand-K2).
2. Outline the relevant concepts of Statistics to a given context / business scenario (Remember-K1, Understand-K2).
3. Organize business data and conduct statistical treatment (Apply-K3, Analyze-K4).
4. Evaluate and interpret data using appropriate statistical techniques (Evaluate-K5).
5. Explain data trends using appropriate statistical models (Apply-K3, Understand-K2).

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## General English-I

AEC102	General English - I	1L:1T:0P	2 Credits
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### Course Objective:

1. To provide learning environment to practice listening, speaking, reading and writing skills.
2. To assist the students to carry on the tasks and activities through guided instructions and materials.
3. To effectively integrate English language learning with employability skills and training.
4. To provide hands- on experience through case-studies, mini-projects, group and individual presentations.

### Course Content:

#### Unit-I: Vocabulary Building:

The concept of Word Formation, Root words from foreign languages and their use in English, Acquaintance with prefixes and suffixes from foreign languages in English to form derivatives, Synonyms, antonyms, and standard abbreviations.

#### Unit-II: Basic Writing Skills:

Sentence Structures, Use of phrases and clauses in sentences, Importance of proper punctuation, Creating coherence, Organizing principles of paragraphs in documents, Techniques for writing precisely

#### Unit-III: Identifying Common Errors in Writing:

Subject-verb agreement, Noun-pronoun agreement, Misplaced modifiers, Articles, Prepositions, Redundancies

#### Unit-IV: Nature and Style of sensible Writing:

Describing, Defining, Classifying, providing examples or evidence, writing introduction and conclusion, Module V: Writing Practices, Comprehension, Précis Writing, Essay Writing

#### Unit-V: Oral Communication (This Module involves interactive practice sessions in Language Lab):





Listening Comprehension, Pronunciation, Intonation, Stress and Rhythm, Common Everyday Situations: Conversations and Dialogues, Communication at Workplace, Interviews, Formal Presentations.

**Unit- VI: Oral Communication (This Module involves interactive practice sessions in Language Lab)**

Listening Comprehension, Pronunciation, Intonation, Stress and Rhythm, Common Everyday Situations: Conversations and Dialogues, Communication at Workplace, Interviews, Formal Presentations

**Text/Reference Books (Latest Editions):**

1. AICTE's Prescribed Textbook: Communication Skills in English (with Lab Manual), Anjana Tiwari, Khanna Book Publishing Co.,
2. Effective Communication Skills. Kul Bhushan Kumar, Khanna Book Publishing,
3. Practical English Usage. Michael Swan. OUP.
4. Remedial English Grammar. F.T. Wood. Macmillan.
5. On Writing Well. William Zinsser. Harper Resource Book.
6. Study Writing. Liz Hamp-Lyons and Ben Heasley. Cambridge University Press.
7. Communication Skills. Sanjay Kumar and Pushp Lata. Oxford University Press.
8. Exercises in Spoken English. Parts.I-III. CIEFL, Hyderabad. Oxford University Press.

**Alternative NPTEL/ SWAYAM Course:**

S. No.	NPTEL/SWAYAM Course Name	Instructor	Host Institute
1	English language for competitive exams	Prof. Aysha iqbal	IIT MADRAS
2	Technical English for engineers	Prof. Aysha iqbal	IITM

**Course Outcomes:** On having completed this course, the students will acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills (Remember-K1, Understand-K2, Apply-K3).

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## Indian Knowledge System

MDE101	Indian Knowledge System	2L:0T:0P	2 Credits
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### Course Objective:

1. To sensitize the students about context in which they are embeded i.e. Indian culture and civilisation including its Knowledge System and Tradition.
2. To help student to understand the knowledge, art and creative practices, skills and values in ancient Indian system.
3. To help to study the enriched scientific Indian heritage.
4. To introduce the contribution from Ancient Indian system & tradition to modern science & Technology

### Course Content:

#### Unit-1

Indian Knowledge System, Indian Culture and Civilization

#### Unit-2

Indian vision for Human society, Indian Science

#### Unit-3

Indian Town Planning, Indian Architecture, Indian Astronomy

#### Unit-4

Indian Mathematics, Indian Aesthetics, Indian Health and Wellness

### Books & References:

1. Textbook on IKS by Prof. B Mahadevan, IIM Bengaluru
2. Kapur K and Singh A.K (Eds) 2005). Indian Knowledge Systems, Vol. 1. Indian Institute of Advanced Study, Shimla. Tatvabodh of sankaracharya, Central Chinmay mission trust, Bombay, 1995.
3. The Cultural Heritage of India. Vol.I. Kolkata: Ramakrishna Mission Publication, 1972.



4. Nair, Shantha N. Echoes of Ancient Indian Wisdom. New Delhi: Hindology Books, 2008.
5. Dr. R. C. Majumdar, H. C. Raychaudhuri and Kalikinkar Datta: An Advanced History of India (Second Edition) published by Macmillan & Co., Limited, London, 1953.
6. Rao, N. 1970. The Four Values in Indian Philosophy and Culture. Mysore: University of Mysore.
7. Avari, B. 2016. India: The Ancient Past: A History of the Indian Subcontinent from c. 7000 BCE to CE 1200. London: Routledge.
8. Knowledge traditions and practices of India (Part-1), CBSE Class XI

**Course Outcomes:**

On having completed this course, the students will:

1. Understand the Indian culture and civilisation including its Knowledge System and Tradition (Remember-K1, Understand-K2).
2. Understand the skills and values in ancient Indian system (Remember-K1, Understand-K2).
3. Understand the enriched scientific Indian heritage (Remember-K1, Understand-K2).
4. Understand the contribution of Ancient Indian system & tradition to modern science & Technology (Remember-K1, Understand-K2).

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## Environmental Science and Sustainability

VAC101	Environmental Science and Sustainability	2L:0T:0P	2 Credits
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### Course description:

This course aims to familiarize students with fundamental environmental concepts and their relevance to business operations, preparing them to address forth coming sustainability challenges. It is designed to equip students with the knowledge and skills needed to make decisions that account for environmental consequences, fostering environmentally sensitive and responsible future managers. The course content is divided into four comprehensive units. Unit 1 introduces basic environmental principles, the man-environment relationship, and sustainability issues. Unit 2 focuses on ecosystems, bio diversity, and sustainable practices. Unit 3 addresses environmental pollution, waste management, and sustainable development strategies. Finally, Unit 4 explores social issues, environmental legislation, and practical applications through hands-on field work. Through this holistic approach, students will gain a deep understanding of environmental processes, the importance of sustainable practices, and their role in promoting sustainability within business contexts.

### Course Objective(s):

1. This course aims to familiarize students with basic environmental concepts, the irrelevance to business operations, and forth coming sustainability challenges.
2. This course will equip students to make decisions that consider environmental consequences.
3. This course will enable future business graduates to be come environmentally sensitive and responsible managers.

### Course Content:

#### Unit 1: Understanding Environment, Natural Resources, and Sustainability:

Fundamental environmental concepts and their relevance to business operations; Components



and segments of the environment, the man-environment relationship, and historical environmental movements. Concept of sustainability; Classification of natural resources, issues related to their overutilization, and strategies for their conservation. Sustainable practices in managing resources, including deforestation, water conservation, energy security, and food security issues. The conservation and equitable use of resources, considering both intergenerational and intergenerational equity, and the importance of public awareness and education

**Unit 2: Ecosystems, Biodiversity, and Sustainable Practices:**

Various natural Ecosystems, learning about their structure, functions, and ecological characteristics. The importance of biodiversity, the threats it faces, and the methods used for its conservation. Ecosystem resilience, homeostasis, and carrying capacity, emphasizing the need for sustainable ecosystem management. Strategies for in situ and ex situ conservation, nature reserves, and the significance of India as a mega diverse nation.

**Unit 3: Environmental Pollution, Waste Management, and Sustainable Development:**

Various types of environmental pollution, including air, water, noise, soil, and marine pollution, and their impacts on businesses and communities. Causes of pollution, such as global climate change, ozone layer depletion, the green house effect, and acid rain, with a particular focus on pollution episodes in India. Importance of adopting cleaner technologies; Solid waste management; Natural and man-made disasters, their management, and the role of businesses in mitigating disaster impacts.

**Unit 4: Social Issues, Legislation, and Practical Applications:**

Dynamic interactions between society and the environment, with a focus on sustainable development and environmental ethics. Role of businesses in achieving sustainable development goals and promoting responsible consumption. Overview of key environmental legislation and the judiciary's role in environmental protection, including the Water (Prevention and Control of Pollution) Act of 1974, the Environment (Protection) Act of 1986, and the Air (Prevention and Control of Pollution) Act of 1981. Environmental justice, environmental refugees, and their settlement and rehabilitation of affected populations; Ecological economics, human population growth, and demographic changes in India.



### Readings: Text Books (Latest Editions):

- Poonia , M.P. *Environmental Studies*, Khanna Book Publishing Co.
- Bharucha, E. *Textbook of Environmental Studies*, Orient Blackswan Private Ltd.
- Dave, D.,& Katewa, S.S. *Text Book of Environmental Studies*. Cengage Learning India Pvt Ltd.
- Rajagopalan, R. *Environmental studies: from crisis to cure*, Oxford University Press.
- Miller, G.T. & Spoolman S. *Living in the Environment*. Cengage.
- Basu, M., & Xavier Savarimuthu, S.J. *Fundamentals of environmental studies*. Cambridge University Press.
- Roy, M.G. *Sustainable Development: Environment, Energy and Water Resources* An eBooks.
- Pritwani K. *Sustainability of business in the context of environmental management*. CRC Press.
- Wright, R.T. & Boorse , D.F. *Environmental Science: Toward A Sustainable Future* (13<sup>th</sup> ed.). Pearson.

### References

#### Web links:

- <https://www.ourplanet.com>
- <https://www.undp.org/content/undp/en/home/sustainable-development-goals.html>
- [www.myfootprint.org](http://www.myfootprint.org)
- <https://www.globalchange.umich.edu/globalchange1/current/lectures/kling/ecosystem/ecosystem.html>

### Course Outcomes:

On having completed this course, students should be able to:

1. Explore the basic environmental concepts and issues relevant to the business and management field (Remember-K1, Understand-K2).
2. Recognize the inter dependence between environmental processes and socio-economic



- dynamics (Remember-K1, Understand-K2).
3. Determine the role of business decisions, policies, and actions in minimizing environmental degradation (Apply-K3, Understand-K2).
  4. Identify possible solutions to curb environmental problems caused by managerial actions (Analyze-K4, Understand-K2).
  5. Develop skills to address immediate environmental concerns through changes in business operations, policies, and decisions (Create-K6, Understand-K2).

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