

**RCS-2026**

## **NEHRU ARTS AND SCIENCE COLLEGE**

(An Autonomous Institution affiliated to Bharathiar University)  
(Reaccredited with “A+” Grade by NAAC, ISO 9001:2015 & 14001:2004 Certified  
Recognized by UGC with 2(f) & 12(B), Under Star College Scheme by DBT, Govt. of India)  
Nehru Gardens, Thirumalayampalayam, Coimbatore - 641 105, Tamil Nadu.

## **BACHELOR OF BUSINESS ADMINISTRATION**

### **B. B. A. LOGISTICS**



**EFFECTIVE FROM 2026 – 2027**

# CURRICULUM



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## SCHOOL OF MANAGEMENT

### B. B. A. LOGISTICS

#### PROGRAMME EDUCATIONAL OBJECTIVES

|              |                                                                                                                                                                                                                                        |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PEO 1</b> | Demonstrate competency across business and logistics disciplines by applying core business principles, analytical tools, and digital technologies to analyze problems and design effective solutions in dynamic business environments. |
| <b>PEO 2</b> | Exhibit a high level of professionalism, communication, teamwork, and leadership skills while applying research-based knowledge to address real-world business and logistics challenges through industry–institute collaboration.      |
| <b>PEO 3</b> | Apply ethical values, interpersonal skills, and social responsibility in professional practice, contributing to society through research, sustainable practices, and responsible decision-making.                                      |
| <b>PEO 4</b> | Utilize critical thinking and analytical reasoning to evaluate evidence, apply appropriate models, and generate innovative and entrepreneurial solutions for effective decision-making in a global context.                            |
| <b>PEO 5</b> | Engage in lifelong learning and demonstrate adaptability to technological advancements, global trends, and multicultural environments to enhance career growth and professional excellence.                                            |



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## SCHOOL OF MANAGEMENT

### B. B. A. LOGISTICS

BATCH 2026 – 2029

### PROGRAMME OUTCOMES

|      |                                                                                                                                                                                                                                     |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 1 | <b>Disciplinary Knowledge and Research Competence:</b> Apply comprehensive knowledge of business disciplines along with domain-specific understanding and research skills to analyze and solve business problems effectively.       |
| PO 2 | <b>Critical Thinking, Creativity and Problem Solving:</b> Demonstrate critical thinking and analytical ability to evaluate situations, generate innovative ideas, and develop practical solutions in dynamic business environments. |
| PO 3 | <b>Digital and Technical Proficiency:</b> Utilize appropriate digital technologies, information systems, and analytical tools to enhance decision-making and business operations.                                                   |
| PO 4 | <b>Communication Skills:</b> Communicate effectively in oral, written, and digital forms with diverse stakeholders in professional and global contexts.                                                                             |
| PO 5 | <b>Teamwork, Collaboration and Leadership:</b> Work collaboratively in teams and demonstrate leadership skills to achieve organizational goals in multidisciplinary and multicultural environments.                                 |
| PO 6 | <b>Ethics and Social Responsibility:</b> Apply ethical principles and demonstrate social responsibility in professional practices, contributing to sustainable development and societal well-being.                                 |
| PO 7 | <b>Global Perspective and Entrepreneurial Skills:</b> Analyze business issues from a global perspective and demonstrate entrepreneurial mindset, innovation, and adaptability in diverse business contexts.                         |
| PO 8 | <b>Lifelong Learning and Adaptability:</b> Engage in continuous learning and adapt to changing business environments, technological advancements, and global trends for professional growth.                                        |

### PROGRAMME SPECIFIC OUTCOMES (PSOs)

|       |                                                                                                                         |
|-------|-------------------------------------------------------------------------------------------------------------------------|
| PSO 1 | Apply logistics and supply chain management concepts to optimize transportation, warehousing, and distribution systems. |
| PSO 2 | Analyze and manage supply chain operations using appropriate analytical tools and technologies.                         |
| PSO 3 | Demonstrate knowledge of global logistics, trade regulations, and inventory management practices.                       |
| PSO 4 | Apply problem-solving and decision-making skills to improve efficiency and effectiveness in logistics operations.       |
| PSO 5 | Adapt to emerging trends in logistics such as digital supply chains, sustainability, and global trade dynamics.         |

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## **SCHEME**

### **SEMESTER I**

#### **B. B. A. LOGISTICS**



**EFFECTIVE FROM 2026 – 2027**



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## LOCF - Scheme of Examination

**Programme: B. B. A. Logistics**

**Programme Code: UBL**

(Applicable to the students admitted during the Academic year 2026-2027 onwards)

| Semester | Part | Sub. Code                                               | Name of the Subject                                                                                          | Instruction hours / Week | Duration of Examination | Examination Marks |     |            | Credits   |
|----------|------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|-------------------|-----|------------|-----------|
|          |      |                                                         |                                                                                                              |                          |                         | CIA               | ESE | Total      |           |
| I        | I    | 26U1TAM101/<br>26U1HIN101/<br>26U1MAL101/<br>26U1FRN101 | <b>AEC I:</b> Elanthamizh /<br>Rachnathmak Hindi/<br>Kadha, Samskaaram, Vivarthanam/<br>Français general – I | 4                        | 3                       | 20                | 55  | 75         | 3         |
|          | II   | 26U2ENG101                                              | <b>AEC II:</b> Professional English – I                                                                      | 4                        | 3                       | 20                | 55  | 75         | 3         |
|          | III  | 26U3BMC101                                              | <b>DSC I:</b> Principles of Management                                                                       | 5                        | 3                       | 25                | 75  | 100        | 4         |
|          |      | 26U3BLC102                                              | <b>DSC II:</b> Fundamentals of Logistics                                                                     | 4                        | 3                       | 25                | 75  | 100        | 4         |
|          |      | 26U3BMP103                                              | <b>DSC III:</b> Office Automation Practical                                                                  | 5                        | 3                       | 40                | 60  | 100        | 4         |
|          |      | 26U3MDA101/<br>26U3MDA102                               | <b>GEC I:</b>                                                                                                | 5                        | 3                       | 20                | 55  | 75         | 3         |
|          | IV   | 26U4ENV101                                              | <b>AEC III:</b> Environmental Studies                                                                        | 1                        | 3                       | 50                | -   | 50         | 2         |
|          |      | 26U4BCS102                                              | <b>AEC IV:</b> Introduction to Cyber Security                                                                | 1                        | 2                       | 25                | -   | 25         | 1         |
|          |      | 26U4HVV201                                              | <b>VAC I:</b> Human Values and Yoga Practice                                                                 | 1                        | -                       | -                 | -   | -          | -         |
|          |      |                                                         |                                                                                                              | <b>30</b>                |                         |                   |     | <b>600</b> | <b>24</b> |

### Generic Elective Course (GEC)

| Elective Paper | Course Code | Group | Subject                        |
|----------------|-------------|-------|--------------------------------|
| GEC I          | 26U3MDA101  | A     | Mathematics for Management – I |
|                | 26U3MDA102  | B     | Managerial Mathematics – I     |

  
**BoS Chairman**

**Dr. T. SUDHA**  
**BoS Chairman**

Department of Business Administration  
Nehru Arts and Science College (Autonomous)  
Thirumalayampalayam, Coimbatore - 641 105.



  
**Principal**

**PRINCIPAL**

**NEHRU ARTS AND SCIENCE COLLEGE**  
(Autonomous)  
Nehru Gardens, Thirumalayampalayam,  
Coimbatore - 641 105, India - 641 105.

# **SYLLABUS**

| Course Code                                                              |                                                                                                                                                                                                                    | Title                                                                                        |                                |                    |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------|--------------------|
| 26U1TAM101                                                               |                                                                                                                                                                                                                    | AEC I : Elanthamizh - இளந்தமிழ்                                                              |                                |                    |
| Semester : I                                                             |                                                                                                                                                                                                                    | Credits : 3                                                                                  | CIA : 20 Marks                 | ESE : 55 Marks     |
| (Common to All UG Programmes)                                            |                                                                                                                                                                                                                    |                                                                                              |                                |                    |
| Course Objective                                                         |                                                                                                                                                                                                                    | மொழி இலக்கியத்தின் வாயிலாக அறம்சார் பண்பு மற்றும் ஆளுமை மிக்க மாணவர்களை உருவாக்குதல்.        |                                |                    |
| Course Category                                                          |                                                                                                                                                                                                                    | Skill Development (மாணவர்களின் மொழித்திறனை ஊக்குவித்தல்)                                     |                                |                    |
| Development Needs                                                        |                                                                                                                                                                                                                    | Regional ( உலக அளவில் தமிழ் மொழியின் அவசியத்தை உணர்த்துதல்)                                  |                                |                    |
| Course Description                                                       |                                                                                                                                                                                                                    | மாணவர்களின் மொழித்திறனை ஊக்குவித்தல் மற்றும் உலக அளவில் தமிழ் மொழியின் அவசியத்தை உணர்த்துதல் |                                |                    |
| Course Outcomes                                                          |                                                                                                                                                                                                                    |                                                                                              | BTL                            | Assessment Methods |
| CO1                                                                      | மாணவர்களின் மொழித்திறனை ஊக்குவித்தல் மற்றும் உலக அளவில் தமிழ் மொழியின் அவசியத்தை உணர்த்துதல்                                                                                                                       |                                                                                              | K3                             | Assignment         |
| CO2                                                                      | சங்க இலக்கியங்கள் வாயிலாக சமூகச் சீர்திருத்தச் சிந்தனைகள் பெறப்படும்.                                                                                                                                              |                                                                                              | K4                             |                    |
| CO3                                                                      | அற இலக்கியங்களின் வழி தமிழர்களின் வாழ்வியல் பண்புகளைக் கற்று அறிதல்                                                                                                                                                |                                                                                              | K3                             | Group Project      |
| CO4                                                                      | பெண்ணியக் கவிஞர்களின் படைப்புத் திறனை மாணவர்களுக்கு உணர்த்துதல்                                                                                                                                                    |                                                                                              | K3                             | Quiz               |
| CO5                                                                      | மாணவர்களின் மொழித்திறனை ஊக்குவித்தல் மற்றும் உலக அளவில் தமிழ் மொழியின் அவசியத்தை உணர்த்துதல்                                                                                                                       |                                                                                              | K4                             |                    |
| Offered by : தமிழ்த்துறை                                                 |                                                                                                                                                                                                                    |                                                                                              | SDG : 3,4, 5                   |                    |
| Course Content                                                           |                                                                                                                                                                                                                    |                                                                                              | Instructional Hours / Week : 4 |                    |
| Unit                                                                     | Description                                                                                                                                                                                                        |                                                                                              | Text Book                      | Chapters           |
| I<br>புதுக்கவிதை                                                         | 1. அப்துல் ரகுமான் - உழவர்களைப் பாடுவோம்<br>2. மு.மேத்தா - தேசப்பிதாவுக்கு ஒரு தெருப் பாடகனின் அஞ்சலி!<br>3. சிற்பி - ஓடும் வரலாறு<br>4. வைரமுத்து - அம்மா<br>5. பழனி பாரதி - காடு                                 |                                                                                              | 1                              | 1 - 5              |
| Instructional Hours                                                      |                                                                                                                                                                                                                    |                                                                                              | 12                             |                    |
| Learning Activity : மாணவர்களுக்கு புதுக்கவிதை எழுதும் திறனை ஊக்குவித்தல் |                                                                                                                                                                                                                    |                                                                                              |                                |                    |
| II<br>அற இலக்கியம்                                                       | 1. அறன் வலியுறுத்தல் - 31- 40 குறட்பாக்கள்<br>2. புகழ் - 231 - 240 குறட்பாக்கள்<br>3. வாய்மை - 291 - 300 குறட்பாக்கள்<br>4. நாலடியார் - பொருட்பால் - (கூடா நட்பு 1-10)<br>5. நான்மணிக்கடிகை - முதல் ஐந்து பாடல்கள் |                                                                                              | 1                              | 6 - 10             |
| Instructional Hours                                                      |                                                                                                                                                                                                                    |                                                                                              | 12                             |                    |
| Learning Activity : கலந்துரையாடல்                                        |                                                                                                                                                                                                                    |                                                                                              |                                |                    |

**Verified by Chairman**

| Course Code                         |                                                                                                                                                                                                                                            | Title                                                      |                               |                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------|--------------------|
| 26U1HIN101                          |                                                                                                                                                                                                                                            | AEC I : Rachnathmak Hindi (रचनात्मक हिंदी)                 |                               |                    |
| Semester : I                        |                                                                                                                                                                                                                                            | Credits : 3                                                | CIA : 20 Marks                | ESE : 55 Marks     |
| (Common to all UG Programmes)       |                                                                                                                                                                                                                                            |                                                            |                               |                    |
| Course Objective                    |                                                                                                                                                                                                                                            | हिंदी भाषा का अच्छा ज्ञान प्राप्त करने के लिए।             |                               |                    |
| Course Category                     |                                                                                                                                                                                                                                            | Skill Development                                          |                               |                    |
| Development Needs                   |                                                                                                                                                                                                                                            | Regional                                                   |                               |                    |
| Course Description                  |                                                                                                                                                                                                                                            | Improves Accuracy & Quality, Improves Communication Skills |                               |                    |
| Course Outcomes                     |                                                                                                                                                                                                                                            |                                                            | BTL                           | Assessment Methods |
| CO 1                                | कविता से रचनात्मकता का विकास होता है। यह हमारे आसपास की दुनिया को समझने में भी मदद करता है।                                                                                                                                                |                                                            | K3                            | Assignment         |
| CO 2                                | कहानियां छात्रों की कल्पना और जिज्ञासा को जगाने में मदद करती हैं।                                                                                                                                                                          |                                                            | K3                            |                    |
| CO 3                                | लोकोक्तियाँ और मुहावरे सीखने से सांस्कृतिक, ऐतिहासिक ज्ञान और अभिव्यक्ति में निखार आ जाता है। शब्द युग्म और भिन्नार्थक शब्दों की चयन करने से उच्चारण का महत्व बढ़ते हैं और संदर्भ के अनुसार सही शब्द चयन करने से कई क्षमता विकसित होती हैं |                                                            | K3                            | Seminar            |
| CO 4                                | व्याकरण हिंदी भाषा को सही ढंग से बोलने, लिखने और समझने में मदद करता है। विज्ञापन लेखन और कहानी लेखन छात्रों को उनके रचनात्मक लेखन और कल्पना शक्ति को विकसित करने में मदद                                                                   |                                                            | K4                            | Quiz               |
| CO 5                                | अनुवाद सभी लोगों के बीच प्रभावी संचार को सक्षम बनाता है।                                                                                                                                                                                   |                                                            | K3                            |                    |
| Offered by: Hindi                   |                                                                                                                                                                                                                                            |                                                            | SDG: 3,4,5                    |                    |
| Course Content                      |                                                                                                                                                                                                                                            |                                                            | Instructional Hours / Week: 4 |                    |
| Unit                                | Description                                                                                                                                                                                                                                |                                                            | Text Book                     | Chapters           |
| I                                   | कविताएँ: अज्ञेय: मैंने कहा, पेड़<br>अनामिका: बेजगह<br>जयप्रकाश कर्दन: मेरी अधिकार कहाँ हैं ?                                                                                                                                               |                                                            | 1                             | 3                  |
| Instructional Hours                 |                                                                                                                                                                                                                                            |                                                            |                               | 12                 |
| Learning Activity : Visual Learning |                                                                                                                                                                                                                                            |                                                            |                               |                    |
| II                                  | कहानियाँ: मृदुला गर्ग: हरी बिंदी<br>जयशंकर प्रसाद: छोटा जादूगर<br>महादेवी वर्मा: बिंदा                                                                                                                                                     |                                                            | 1                             | 3                  |
| Instructional Hours                 |                                                                                                                                                                                                                                            |                                                            |                               | 12                 |
| Learning Activity : Visual Learning |                                                                                                                                                                                                                                            |                                                            |                               |                    |

|                                           |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       |     |                      |      |      |      |      |      |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|---------|------|-------|-----|----------------------|------|------|------|------|------|
| III                                       | 1. लोकोक्तियाँ और मुहावरे<br>2. शब्दयुग्म और भिन्नार्थक शब्दों की चयन                                                                                                                                                                                                                                                                                                        |         |            |         |      | 1     | 2   |                      |      |      |      |      |      |
| Instructional Hours                       |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       | 12  |                      |      |      |      |      |      |
| Learning Activity : Comprehensive writing |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       |     |                      |      |      |      |      |      |
| IV                                        | 1. अनुप्रयुक्त व्याकरण - संज्ञा, सर्वनाम, क्रिया और विशेषण की पहचान करना।<br>2. विज्ञापन लेखन।<br>3. दिए गए संकेतों से कहानी लेखन।                                                                                                                                                                                                                                           |         |            |         |      | 3     | 2   |                      |      |      |      |      |      |
| Instructional Hours                       |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       | 12  |                      |      |      |      |      |      |
| Learning Activity : Auditory, Visual      |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       |     |                      |      |      |      |      |      |
| V                                         | अनुवाद : अंग्रेज़ी से हिंदी ( अनुवाद अभ्यास - 3) 1 – 10 अनुच्छेद।                                                                                                                                                                                                                                                                                                            |         |            |         |      | 5     | 2   |                      |      |      |      |      |      |
| Instructional Hours                       |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       | 12  |                      |      |      |      |      |      |
| Learning Activity : Comprehensive writing |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       |     |                      |      |      |      |      |      |
| Total Hours                               |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       | 60  |                      |      |      |      |      |      |
| Text Books                                | 1. दुनिया के बाजार में, गूंगा नहीं था मैं, अरी ओ करुणा प्रभामय(काव्य संग्रह)<br>2. (स्मृति की रेखाएँ) संस्मरण संग्रह, इंद्रजाल, हरी बिंदी(कहानी संग्रह)<br>3. अनुवाद अभ्यास - 3 दक्षिण भारत हिंदी प्रचार सभा, चेन्नई - 17<br>4. हिन्दी मुहावरे और लोकक्ति कोश-बद्रीनाथ कपूर, सरस्वती मानक हिंदी व्याकरण सरस्वती (हाउस)<br>5. हिंदी अंग्रेज़ी विशेषज्ञ अनुवादक - एस सी गुप्ता |         |            |         |      |       |     |                      |      |      |      |      |      |
| Reference Books                           | 1. अज्ञेय- कवि और काव्य - डॉ. राजेंद्रप्रसाद, 75 कवितार्यें अनामिका – रेखा सेट्टी, नई किताब प्रकाशन, विषाक्त हवाओं के बीच - जयप्रकाश कर्दन<br>2. कहानीसंग्रह - मृदुलागर्ग: हरी बिंदी सामयिक प्रकाशन, नईदिल्ली, स्मृति की रेखाएँ, जयशंकर प्रसाद ग्रंथावली<br>3. सत्य प्रकाश सिंह -लोकोक्तियाँ एवं मुहावरे                                                                     |         |            |         |      |       |     |                      |      |      |      |      |      |
| Web. URLs                                 | हिन्दी साहित्य मंच हिन्दी साहित्य का समर्पित मंच -                                                                                                                                                                                                                                                                                                                           |         |            |         |      |       |     |                      |      |      |      |      |      |
| Tools for Assessment (20 Marks)           |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       |     |                      |      |      |      |      |      |
| CIA I                                     | CIA II                                                                                                                                                                                                                                                                                                                                                                       | CIA III | Assignment | Seminar | Quiz | Total |     |                      |      |      |      |      |      |
| 4                                         | 4                                                                                                                                                                                                                                                                                                                                                                            | 5       | 2          | 2       | 3    | 20    |     |                      |      |      |      |      |      |
| Mapping                                   |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       |     |                      |      |      |      |      |      |
| CO / PO                                   | PO1                                                                                                                                                                                                                                                                                                                                                                          | PO2     | PO3        | PO4     | PO5  | PO6   | PO7 | PO8                  | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
| CO1                                       | H                                                                                                                                                                                                                                                                                                                                                                            | M       | H          | M       | M    | M     | H   | H                    |      |      |      |      |      |
| CO2                                       | M                                                                                                                                                                                                                                                                                                                                                                            | M       | H          | L       | M    | H     | M   | M                    |      |      |      |      |      |
| CO3                                       | H                                                                                                                                                                                                                                                                                                                                                                            | M       | M          | M       | M    | H     | M   | H                    |      |      |      |      |      |
| CO4                                       | M                                                                                                                                                                                                                                                                                                                                                                            | M       | M          | M       | H    | L     | H   | H                    |      |      |      |      |      |
| CO5                                       | H                                                                                                                                                                                                                                                                                                                                                                            | H       | M          | M       | H    | M     | M   | M                    |      |      |      |      |      |
| H-High; M-Medium; L-Low                   |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       |     |                      |      |      |      |      |      |
| Course designed by                        |                                                                                                                                                                                                                                                                                                                                                                              |         |            |         |      |       |     | Verified by Chairman |      |      |      |      |      |

| Course Code                          |                                                                 | Title                                                                         |                                |                    |
|--------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|--------------------|
| 26U1MAL101                           |                                                                 | AEC I : Katha, Samskaram, Vivarthanam (കഥ,സംസ്കാരം,വിവർത്തനം)                 |                                |                    |
| Semester : I                         |                                                                 | Credits : 3                                                                   | CIA : 20 Marks                 | ESE : 55 Marks     |
| (Common to All UG Programmes)        |                                                                 |                                                                               |                                |                    |
| Course Objective                     |                                                                 | ആധുനികകാലത്തെ മലയാളകഥകളെ കുറിച്ചും സംസ്കാരത്തെ കുറിച്ചും അവബോധം ഉണ്ടാക്കുന്നു |                                |                    |
| Course Category                      |                                                                 | Skill Development                                                             |                                |                    |
| Development Needs                    |                                                                 | Regional                                                                      |                                |                    |
| Course Description                   |                                                                 | Narrative Techniques, Critical appreciation, Language accuracy                |                                |                    |
| Course Outcomes                      |                                                                 |                                                                               | BTL                            | Assessment Methods |
| CO 1                                 | കഥയുടെ സംവേദനം ആസ്വാദകന്റെ അഭിരുചിയെ പൂർത്തിയാക്കുന്നു          |                                                                               | K3                             | Assignment         |
| CO 2                                 | ജീവിതത്തെ മഹത്വവൽക്കരിക്കുന്ന കഥാപരിസരങ്ങൾ                      |                                                                               | K3                             |                    |
| CO 3                                 | സംസ്കാരത്തെകുറിച്ചുള്ള അവബോധം, സ്വാഭിമാനം                       |                                                                               | K3                             | Seminar            |
| CO 4                                 | വിവർത്തനപരിശീലനത്തിൽ അഭിരുചി                                    |                                                                               | K4                             | Quiz               |
| CO 5                                 | ഭാഷാ സാഹിത്യവിശകലനം                                             |                                                                               | K4                             |                    |
| Offered by : Malayalam               |                                                                 |                                                                               | SDG : 3,4,5                    |                    |
| Course Content :                     |                                                                 |                                                                               | Instructional Hours / Week : 4 |                    |
| Unit                                 | Description                                                     |                                                                               | Text Book                      | Chapters           |
| I                                    | തിരഞ്ഞെടുത്ത കഥകൾ നഷ്ടപ്പെട്ട നീലാംബരി (മാധവിക്കുട്ടി)          |                                                                               | 1                              | 1,2,3 & 4          |
| Instructional Hours                  |                                                                 |                                                                               | 12                             |                    |
| Learning Activity : Visual Learning  |                                                                 |                                                                               |                                |                    |
| II                                   | തിരഞ്ഞെടുത്ത കഥകൾ നഷ്ടപ്പെട്ട നീലാംബരി(മാധവിക്കുട്ടി)           |                                                                               | 1                              | 5,6,7 & 8          |
| Instructional Hours                  |                                                                 |                                                                               | 12                             |                    |
| Learning Activity : Visual Learning  |                                                                 |                                                                               |                                |                    |
| III                                  | തിരഞ്ഞെടുത്ത കഥകൾ നഷ്ടപ്പെട്ട നീലാംബരി(മാധവിക്കുട്ടി)           |                                                                               | 2                              | 9,10,11,12,13      |
| Instructional Hours                  |                                                                 |                                                                               | 12                             |                    |
| Learning Activity : Auditory, Visual |                                                                 |                                                                               |                                |                    |
| IV                                   | തിരഞ്ഞെടുത്ത ലേഖനങ്ങൾ സാഹിത്യവും സംസ്കാരപഠനവും(ഇ. വി രാമകൃഷ്ണൻ) |                                                                               | 2                              | 1                  |
| Instructional Hours                  |                                                                 |                                                                               | 12                             |                    |
| Learning Activity : Auditory, Visual |                                                                 |                                                                               |                                |                    |

|                                           |                             |                                                                                                                                                                                                                                                                                |     |         |     |            |     |                      |      |      |      |                     |      |    |  |
|-------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|-----|------------|-----|----------------------|------|------|------|---------------------|------|----|--|
| V                                         | വിവർത്തനം പ്രായോഗികപരിശീലനം |                                                                                                                                                                                                                                                                                |     |         |     |            |     |                      |      |      | 3    |                     | 1    |    |  |
|                                           |                             |                                                                                                                                                                                                                                                                                |     |         |     |            |     |                      |      |      |      | Instructional Hours |      | 12 |  |
| Learning Activity : Comprehensive writing |                             |                                                                                                                                                                                                                                                                                |     |         |     |            |     |                      |      |      |      |                     |      |    |  |
|                                           |                             |                                                                                                                                                                                                                                                                                |     |         |     |            |     |                      |      |      |      | Total Hours         |      | 60 |  |
| Text Books                                |                             | 1. നഷ്ടപ്പെട്ട നീലാംബരി(മാധവിക്കുട്ടി)<br>2. സാഹിത്യവും സംസ്കാരപഠനവും( ഇ. വി രാമകൃഷ്ണൻ)<br>3. തർജ്ജമ സിദ്ധാന്തവും പ്രയോഗവും( ജയ സുകുമാരൻ)                                                                                                                                      |     |         |     |            |     |                      |      |      |      |                     |      |    |  |
| Reference Books                           |                             | 1. എംആച്ചുതൻ . - ചെറുകഥ ഇന്നലെ ഇന്ന് - ഡി ബുക്സ്.സി. കോട്ടയം<br>2. ചെറുകഥയുടെ ഛന്ദസ്സാജകൃഷ്ണൻ മാതൃഭൂമി ബുക്സ് .വി - കോഴിക്കോട്<br>3. പുതിയ കഥ പുതിയ വായന - എഡി ഷീബാ ദിവാകരൻ.ഡോ : പുസ്തകലോകം പ്രസദ്ധീകരണം കോഴിക്കോട്<br>4. കേരള സംസ്കാരം ശ്രീധര മേനോൻ. എ - നാഷണൽ ബുക്സ് കോട്ടയം |     |         |     |            |     |                      |      |      |      |                     |      |    |  |
| Web. URLs                                 |                             | https://sde.uoc.ac.in/sites/default/files/sde_videos/MAL3E03.pdf                                                                                                                                                                                                               |     |         |     |            |     |                      |      |      |      |                     |      |    |  |
| Tools for Assessment (20 Marks)           |                             |                                                                                                                                                                                                                                                                                |     |         |     |            |     |                      |      |      |      |                     |      |    |  |
| CIA I                                     |                             | CIA II                                                                                                                                                                                                                                                                         |     | CIA III |     | Assignment |     | Seminar              |      | Quiz |      | Total               |      |    |  |
| 4                                         |                             | 4                                                                                                                                                                                                                                                                              |     | 5       |     | 2          |     | 2                    |      | 3    |      | 20                  |      |    |  |
| Mapping                                   |                             |                                                                                                                                                                                                                                                                                |     |         |     |            |     |                      |      |      |      |                     |      |    |  |
| CO / PO                                   | PO1                         | PO2                                                                                                                                                                                                                                                                            | PO3 | PO4     | PO5 | PO6        | PO7 | PO8                  | PSO1 | PSO2 | PSO3 | PSO4                | PSO5 |    |  |
| CO1                                       | H                           | L                                                                                                                                                                                                                                                                              | H   | M       | H   | H          |     |                      |      |      |      |                     |      |    |  |
| CO2                                       | M                           | H                                                                                                                                                                                                                                                                              | H   | L       | H   | M          |     |                      |      |      |      |                     |      |    |  |
| CO3                                       | H                           | M                                                                                                                                                                                                                                                                              | H   | M       | M   | H          |     |                      |      |      |      |                     |      |    |  |
| CO4                                       | H                           | M                                                                                                                                                                                                                                                                              | L   | M       | L   | H          |     |                      |      |      |      |                     |      |    |  |
| CO5                                       | N                           | H                                                                                                                                                                                                                                                                              | L   | H       | H   | M          |     |                      |      |      |      |                     |      |    |  |
| H-High; M-Medium; L-Low                   |                             |                                                                                                                                                                                                                                                                                |     |         |     |            |     |                      |      |      |      |                     |      |    |  |
| Course designed by                        |                             |                                                                                                                                                                                                                                                                                |     |         |     |            |     | Verified by Chairman |      |      |      |                     |      |    |  |
|                                           |                             |                                                                                                                                                                                                                                                                                |     |         |     |            |     |                      |      |      |      |                     |      |    |  |

| Course Code                               |                                                              | Title                                                                                                                                                                                                                                                       |                                |                    |
|-------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------|
| 26U1FRN101                                |                                                              | AEC I : Français général - I                                                                                                                                                                                                                                |                                |                    |
| Semester : I                              |                                                              | Credits : 3                                                                                                                                                                                                                                                 | CIA : 20 Marks                 | ESE : 55 Marks     |
| (Common to All UG Programmes)             |                                                              |                                                                                                                                                                                                                                                             |                                |                    |
| Course Objective                          |                                                              | To equip learners with fundamental French language skills in listening, speaking, reading, and writing, along with basic grammar, vocabulary, pronunciation, and cultural awareness, enabling them to communicate Effectively in simple everyday situations |                                |                    |
| Course Category                           |                                                              | Skill Development                                                                                                                                                                                                                                           |                                |                    |
| Development Needs                         |                                                              | Global                                                                                                                                                                                                                                                      |                                |                    |
| Course Description                        |                                                              | Improved accuracy & quality, improved communication                                                                                                                                                                                                         |                                |                    |
| Course Outcomes                           |                                                              |                                                                                                                                                                                                                                                             | BTL                            | Assessment Methods |
| CO1                                       | Recognize basic French words, greetings, and expressions.    |                                                                                                                                                                                                                                                             | K3                             | Assignment         |
| CO2                                       | Understand simple self-introductions and personal details.   |                                                                                                                                                                                                                                                             | K4                             |                    |
| CO3                                       | Use basic vocabulary and present tense in simple sentences.  |                                                                                                                                                                                                                                                             | K3                             | Seminar            |
| CO4                                       | Examine basic sentence patterns in French.                   |                                                                                                                                                                                                                                                             | K3                             |                    |
| CO5                                       | Develop basic writing and reading skills.                    |                                                                                                                                                                                                                                                             | K4                             | Quiz               |
| Offered by                                |                                                              | Department of FrenchSDG : 4, 10                                                                                                                                                                                                                             |                                |                    |
| Course Content                            |                                                              |                                                                                                                                                                                                                                                             | Instructional Hours / Week : 4 |                    |
| Unit                                      | Description                                                  |                                                                                                                                                                                                                                                             | Text Book                      | Chapters           |
| I                                         | BIENVENUE (pg 10 - 17)<br>Grammaire: (pg 122 - 124)          |                                                                                                                                                                                                                                                             | 1                              | 1                  |
| Instructional Hours                       |                                                              |                                                                                                                                                                                                                                                             |                                | 12                 |
| Learning Activity : Worksheet             |                                                              |                                                                                                                                                                                                                                                             |                                |                    |
| II                                        | CONTACTS (pg 18 - 28)<br>Grammaire: (pg 125 - 128)           |                                                                                                                                                                                                                                                             | 1                              | 2                  |
| Instructional Hours                       |                                                              |                                                                                                                                                                                                                                                             |                                | 12                 |
| Learning Activity : Kahoot Quiz           |                                                              |                                                                                                                                                                                                                                                             |                                |                    |
| III                                       | COMMUNICATION (pg 29 - 33)<br>Grammaire: (pg 129 - 130)      |                                                                                                                                                                                                                                                             | 1                              | 3                  |
| Instructional Hours                       |                                                              |                                                                                                                                                                                                                                                             |                                | 12                 |
| Learning Activity : Audio & Visual        |                                                              |                                                                                                                                                                                                                                                             |                                |                    |
| IV                                        | QU'EST-CEQU'ILFONT (pg 34 - 44)<br>Grammaire: (pg 131 - 136) |                                                                                                                                                                                                                                                             | 1                              | 4                  |
| Instructional Hours                       |                                                              |                                                                                                                                                                                                                                                             |                                | 12                 |
| Learning Activity : Comprehensive Writing |                                                              |                                                                                                                                                                                                                                                             |                                |                    |

|                                 |                                                         |                             |     |        |     |            |     |                      |      |      |      |             |      |
|---------------------------------|---------------------------------------------------------|-----------------------------|-----|--------|-----|------------|-----|----------------------|------|------|------|-------------|------|
| V                               | COMMUNICATION (pg 45 - 49)<br>Grammaire: (pg 137 - 139) |                             |     |        |     |            |     |                      |      |      | 1    | 5           |      |
|                                 | Instructional Hours                                     |                             |     |        |     |            |     |                      |      |      |      | 12          |      |
|                                 | Learning Activity : Translating Exercises               |                             |     |        |     |            |     |                      |      |      |      |             |      |
|                                 | UNITÉ 1, UNITÉ 2 (Pg 10 - 49)                           |                             |     |        |     |            |     |                      |      |      |      | Total Hours | 60   |
| Text Books                      |                                                         | Nouvelle Génération A1      |     |        |     |            |     |                      |      |      |      |             |      |
| Reference Books                 |                                                         | Alter Ego                   |     |        |     |            |     |                      |      |      |      |             |      |
| Web. URLs                       |                                                         | Duolingo App, SWAYAM, NPTEL |     |        |     |            |     |                      |      |      |      |             |      |
| Tools for Assessment (20 Marks) |                                                         |                             |     |        |     |            |     |                      |      |      |      |             |      |
| CIAI                            |                                                         | CIAII                       |     | CIAIII |     | Assignment |     | Seminar              |      | Quiz |      | Total       |      |
| 4                               |                                                         | 4                           |     | 5      |     | 2          |     | 2                    |      | 3    |      | 20          |      |
| Mapping                         |                                                         |                             |     |        |     |            |     |                      |      |      |      |             |      |
| CO\PO                           | PO1                                                     | PO2                         | PO3 | PO4    | PO5 | PO6        | PO7 | PO8                  | PSO1 | PSO2 | PSO3 | PSO4        | PSO5 |
| CO1                             | -                                                       | -                           | H   | H      | H   | H          | -   | -                    | -    | -    | -    | -           | -    |
| CO2                             | -                                                       | -                           | H   | M      | H   | M          | -   | -                    | -    | -    | -    | -           | -    |
| CO3                             | -                                                       | -                           | M   | M      | M   | H          | -   | -                    | -    | -    | -    | -           | -    |
| CO4                             | -                                                       | -                           | L   | H      | L   | H          | -   | -                    | -    | -    | -    | -           | -    |
| CO5                             | -                                                       | -                           | L   | M      | H   | H          | -   | -                    | -    | -    | -    | -           | -    |
| H-High; M-Medium; L-Low         |                                                         |                             |     |        |     |            |     |                      |      |      |      |             |      |
| Course designed by              |                                                         |                             |     |        |     |            |     | Verified by Chairman |      |      |      |             |      |
|                                 |                                                         |                             |     |        |     |            |     |                      |      |      |      |             |      |

| Course Code                              |                                                                                                                                                                                                | Title                                                                                                                                                                                                                                    |                |                               |                    |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------|--------------------|
| 26U2ENG101                               |                                                                                                                                                                                                | AEC II : Professional English – I                                                                                                                                                                                                        |                |                               |                    |
| Semester : I                             |                                                                                                                                                                                                | Credits : 3                                                                                                                                                                                                                              | CIA : 20 Marks | ESE : 55 Marks                |                    |
| Course Objective                         |                                                                                                                                                                                                | To strengthen English language competence through literature-based learning, grammar instruction, vocabulary development, and communicative activities, enabling effective participation in academic, professional, and social contexts. |                |                               |                    |
| Course Category                          |                                                                                                                                                                                                | Skill Development                                                                                                                                                                                                                        |                |                               |                    |
| Development Needs                        |                                                                                                                                                                                                | Global / National / Regional                                                                                                                                                                                                             |                |                               |                    |
| Course Description                       |                                                                                                                                                                                                | This course enhances communication competence through literary studies, grammar practice, vocabulary enrichment, and writing skills for diverse contexts.                                                                                |                |                               |                    |
| Course Outcome                           |                                                                                                                                                                                                |                                                                                                                                                                                                                                          |                | BTL                           | Assessment Methods |
| CO 1                                     | Explain and interpret the themes, ideas, and language features of prose texts while applying parts of speech and sentence structures effectively in communication.                             |                                                                                                                                                                                                                                          |                | K3                            | Quiz               |
| CO 2                                     | Interpret poetic themes and literary devices and apply appropriate tenses, homonyms, and homophones in spoken and written communication.                                                       |                                                                                                                                                                                                                                          |                | K3                            |                    |
| CO 3                                     | Analyze characters, plot, and narrative techniques in short stories and demonstrate effective storytelling using appropriate sentence patterns and vocabulary.                                 |                                                                                                                                                                                                                                          |                | K3                            | Assignment         |
| CO 4                                     | Analyze dramatic elements in one-act plays and employ correct voice structures, idioms, and phrases in communicative contexts.                                                                 |                                                                                                                                                                                                                                          |                | K4                            | Group Project      |
| CO 5                                     | Develop professional writing skills using appropriate language conventions.                                                                                                                    |                                                                                                                                                                                                                                          |                | K4                            |                    |
| Offered by: English                      |                                                                                                                                                                                                |                                                                                                                                                                                                                                          |                | SDG: 4,8                      |                    |
| Course Content                           |                                                                                                                                                                                                |                                                                                                                                                                                                                                          |                | Instructional Hours / Week: 4 |                    |
| Unit                                     | Description                                                                                                                                                                                    |                                                                                                                                                                                                                                          |                | Text Book                     | Chapters           |
| I                                        | Prose:<br>Charles Lamb: Dream Children: A Reverie<br>Jesse Owens: My Greatest Olympic Prize<br>Grammar: Parts of Speech, Types of Sentence<br>Vocabulary: Word formation (prefixes & suffixes) |                                                                                                                                                                                                                                          |                | 1                             | 01 - 19            |
| Instructional Hours                      |                                                                                                                                                                                                |                                                                                                                                                                                                                                          |                |                               | 12                 |
| Learning Activity: Think–Pair–Share      |                                                                                                                                                                                                |                                                                                                                                                                                                                                          |                |                               |                    |
| II                                       | Poetry:<br>William Wordsworth – Solitary Reaper<br>W. B. Yeats - The Ballad of Father Gilligan<br>Grammar: Tenses<br>Vocabulary: Homonyms & Homophones                                         |                                                                                                                                                                                                                                          |                | 1                             | 20 - 32            |
| Instructional Hours                      |                                                                                                                                                                                                |                                                                                                                                                                                                                                          |                |                               | 12                 |
| Learning Activity: Visual Interpretation |                                                                                                                                                                                                |                                                                                                                                                                                                                                          |                |                               |                    |

|                                    |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      |         |      |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|-----|---------------|-----|----------------------|------|------|------|---------|------|
| III                                | Short Story<br>O. Henry – The Gift of Magi<br>R K Narayan – An Astrologer’s Day<br>Grammar: Sentence Patterns<br>Vocabulary: Single word Substitution |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      | 1    | 33 - 51 |      |
| Instructional Hours                |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      | 12      |      |
| Learning Activity: Story Narration |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      |         |      |
| IV                                 | One Act Play:<br>Saki – Villa for Sale<br>Percival Wilde – The Hour of Truth<br>Grammar: Voices<br>Vocabulary: Idioms & Phrases                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      | 1    | 52 - 79 |      |
| Instructional Hours                |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      | 12      |      |
| Learning Activity: Role Play       |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      |         |      |
| V                                  | Writing Skills<br>Letter Writing (Formal & Informal), Email Writing, Advertisement,<br>Report Writing and Hints Developing                            |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      | 1    | 80 - 87 |      |
| Instructional Hours                |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      | 12      |      |
| Learning Activity: Mock interview  |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      |         |      |
| Total Hours                        |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      | 60      |      |
| Text Books                         |                                                                                                                                                       | Professional English I – Compiled by the department of English, NASC                                                                                                                                                                                   |     |         |     |               |     |                      |      |      |      |         |      |
| Reference Books                    |                                                                                                                                                       | 1. English Grammar in Use Raymond Murphy, <i>English Grammar in Use</i> , 5th Edition, Cambridge University Press, Cambridge, 2019.<br>2. Practical English Usage Michael Swan, <i>Practical English Usage</i> , Oxford University Press, Oxford, 2016 |     |         |     |               |     |                      |      |      |      |         |      |
| Web. URLs                          |                                                                                                                                                       | 1. British Council Learn English: <a href="https://learnenglish.britishcouncil.org">https://learnenglish.britishcouncil.org</a><br>2. Cambridge English: <a href="https://www.cambridgeenglish.org">https://www.cambridgeenglish.org</a>               |     |         |     |               |     |                      |      |      |      |         |      |
| Tools for Assessment (20 Marks)    |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      |         |      |
| CIA I                              |                                                                                                                                                       | CIA II                                                                                                                                                                                                                                                 |     | CIA III |     | Group Project |     | Assignment           |      | Quiz |      | Total   |      |
| 4                                  |                                                                                                                                                       | 4                                                                                                                                                                                                                                                      |     | 5       |     | 2             |     | 2                    |      | 3    |      | 20      |      |
| Mapping                            |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      |         |      |
| CO / PO                            | PO1                                                                                                                                                   | PO2                                                                                                                                                                                                                                                    | PO3 | PO4     | PO5 | PO6           | PO7 | PO8                  | PSO1 | PSO2 | PSO3 | PSO4    | PSO5 |
| CO1                                | M                                                                                                                                                     | L                                                                                                                                                                                                                                                      | H   | L       | M   | M             | H   | M                    | H    | H    | M    | H       | M    |
| CO2                                | M                                                                                                                                                     | L                                                                                                                                                                                                                                                      | H   | L       | M   | M             | H   | M                    | H    | H    | M    | H       | M    |
| CO3                                | M                                                                                                                                                     | L                                                                                                                                                                                                                                                      | H   | L       | M   | M             | H   | M                    | H    | H    | M    | H       | M    |
| CO4                                | M                                                                                                                                                     | L                                                                                                                                                                                                                                                      | H   | L       | M   | M             | H   | M                    | H    | H    | M    | H       | M    |
| CO5                                | M                                                                                                                                                     | L                                                                                                                                                                                                                                                      | H   | L       | M   | M             | H   | M                    | H    | H    | M    | H       | M    |
| H-High; M-Medium; L-Low            |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      |         |      |
| Course designed by                 |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     | Verified by Chairman |      |      |      |         |      |
|                                    |                                                                                                                                                       |                                                                                                                                                                                                                                                        |     |         |     |               |     |                      |      |      |      |         |      |

| Course Code                                                                              | Title                                                                                                                                                                                                                                                                                                                                |                                |                    |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------|
| 26U3BMC101                                                                               | DSC I: Principles of Management                                                                                                                                                                                                                                                                                                      |                                |                    |
| Semester : I                                                                             | Credits : 4                                                                                                                                                                                                                                                                                                                          | CIA : 25 Marks                 | ESE : 75 Marks     |
| (Common to B. B. A. CA / IB / LOG / AV)                                                  |                                                                                                                                                                                                                                                                                                                                      |                                |                    |
| Course Objective                                                                         | To develop understanding of management principles, functions, and practices for effective organizational decision-making skills.                                                                                                                                                                                                     |                                |                    |
| Course Category                                                                          | Employability                                                                                                                                                                                                                                                                                                                        |                                |                    |
| Development Needs                                                                        | Local, Regional, National and Global                                                                                                                                                                                                                                                                                                 |                                |                    |
| Course Description                                                                       | Introduces fundamental management concepts, planning, organizing, staffing, directing, and controlling in modern business organizations.                                                                                                                                                                                             |                                |                    |
| Course Outcomes                                                                          |                                                                                                                                                                                                                                                                                                                                      | BTL                            | Assessment Methods |
| CO 1                                                                                     | Apply management concepts, functions, roles, and levels in organizational situations effectively.                                                                                                                                                                                                                                    | K3                             | Assignment         |
| CO 2                                                                                     | Apply planning processes and decision-making steps in business situations effectively.                                                                                                                                                                                                                                               | K3                             |                    |
| CO 3                                                                                     | Apply organizing principles, delegation, and authority relationships within organizational structures.                                                                                                                                                                                                                               | K3                             | Case Study         |
| CO 4                                                                                     | Analyze staffing processes, recruitment, training, and performance appraisal systems critically.                                                                                                                                                                                                                                     | K4                             |                    |
| CO 5                                                                                     | Analyze directing functions, leadership styles, coordination techniques, and controlling processes.                                                                                                                                                                                                                                  | K4                             | Quiz               |
| Offered by : Business Administration                                                     |                                                                                                                                                                                                                                                                                                                                      | SDG : 4, 8, 9, 12              |                    |
| Course Content                                                                           |                                                                                                                                                                                                                                                                                                                                      | Instructional Hours / Week : 5 |                    |
| Unit                                                                                     | Description                                                                                                                                                                                                                                                                                                                          | Text Book                      | Chapters           |
| I                                                                                        | <b>Fundamentals of Management:</b> Nature of Management, Management as a Science or Art or profession, Evolution of Management Thought: Contribution of F.W. Taylor, Henri Fayol and Peter F. Drucker. Functions of Management, Role, and function of Managers. Levels of Management. An overview of functional areas of Management. | 1                              | 1, 2 & 3           |
| Instructional Hours                                                                      |                                                                                                                                                                                                                                                                                                                                      |                                | 15                 |
| Learning Activity: Management Role Play, Concept Mapping                                 |                                                                                                                                                                                                                                                                                                                                      |                                |                    |
| II                                                                                       | <b>Planning and Decision Making:</b> Nature and purpose of Planning – Planning process – Types of Planning – Importance. Planning premises – Tools and Techniques of Planning. Forecasting and Decision Making. Decision Making - Steps and Process.                                                                                 | 1                              | 6 & 7              |
| Instructional Hours                                                                      |                                                                                                                                                                                                                                                                                                                                      |                                | 15                 |
| Learning Activity: Planning Exercises, Decision-Making Scenarios, Forecasting Practice   |                                                                                                                                                                                                                                                                                                                                      |                                |                    |
| III                                                                                      | <b>Organising and Delegation:</b> Types of Organisations – Organisational Structure. Span of Control – Use of Staff units and Committees. Authority and Responsibility relationships. Delegation and Centralization, Centralization and Decentralization.                                                                            | 2                              | 10 & 11            |
| Instructional Hours                                                                      |                                                                                                                                                                                                                                                                                                                                      |                                | 15                 |
| Learning Activity: Organizational Chart Design, Delegation Role Play, Structure Analysis |                                                                                                                                                                                                                                                                                                                                      |                                |                    |

|                                                                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      |       |             |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|-----|------------|-----|----------------------|------|------|------|-------|-------------|
| IV                                                                | Staffing and Training: Nature and Scope of Staffing, Recruitment - types. Selection process – Interview. Training – Types and Process. Performance Appraisal – Process.                             |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      | 2     | 12 & 13     |
| Instructional Hours                                               |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      |       | 15          |
| Learning Activity: Recruitment Exercises, Training Program Design |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      |       |             |
| V                                                                 | Directing and Controlling: Nature, Significance, and its principles. Leadership – Styles and Theories. Co-ordination, Techniques of Coordination. Controlling: Importance – Process of Controlling. |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      | 1     | 14, 15 & 16 |
| Instructional Hours                                               |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      |       | 15          |
| Learning Activity: Leadership Role Play, Control Process Analysis |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      |       |             |
| Total Hours                                                       |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      |       | 75          |
| Text Books                                                        |                                                                                                                                                                                                     | 1. Stephen P. Robbins, Mary A. Coulter, Management, Fifteenth Edition, Pearson Education, 2021.<br>2. Gareth R. Jones and Jennifer M. George, Contemporary Management, Thirteenth Edition, McGraw-Hill Education, 2024.                                                                                                          |     |         |     |            |     |                      |      |      |      |       |             |
| Reference Books                                                   |                                                                                                                                                                                                     | 1. Harold Koontz, Heinz Weihrich and Mark V. Cannice, Essentials of Management: An International, Innovation and Leadership Perspective, Eleventh Edition, Tata McGraw-Hill, 2023.<br>2. L. M. Prasad, Principles and Practice of Management, Eleventh Edition, Sultan Chand & Sons, 2024.                                       |     |         |     |            |     |                      |      |      |      |       |             |
| Web. URLs                                                         |                                                                                                                                                                                                     | 1. <a href="https://www.coursera.org/learn/principlesofmanagement">https://www.coursera.org/learn/principlesofmanagement</a><br>2. <a href="https://www.mygreatlearning.com/academy/learn-for-free/courses/principles-of-management">https://www.mygreatlearning.com/academy/learn-for-free/courses/principles-of-management</a> |     |         |     |            |     |                      |      |      |      |       |             |
| Tools for Assessment (25 Marks)                                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      |       |             |
| CIA I                                                             |                                                                                                                                                                                                     | CIA II                                                                                                                                                                                                                                                                                                                           |     | CIA III |     | Assignment |     | Case Study           |      | Quiz |      | Total |             |
| 5                                                                 |                                                                                                                                                                                                     | 5                                                                                                                                                                                                                                                                                                                                |     | 6       |     | 3          |     | 3                    |      | 3    |      | 25    |             |
| Mapping                                                           |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      |       |             |
| CO / PO                                                           | PO1                                                                                                                                                                                                 | PO2                                                                                                                                                                                                                                                                                                                              | PO3 | PO4     | PO5 | PO6        | PO7 | PO8                  | PSO1 | PSO2 | PSO3 | PSO4  | PSO5        |
| CO1                                                               | H                                                                                                                                                                                                   | L                                                                                                                                                                                                                                                                                                                                | M   | –       | M   | M          | L   | M                    | H    | M    | L    | –     | –           |
| CO2                                                               | H                                                                                                                                                                                                   | M                                                                                                                                                                                                                                                                                                                                | H   | L       | H   | M          | M   | M                    | H    | H    | M    | H     | L           |
| CO3                                                               | H                                                                                                                                                                                                   | L                                                                                                                                                                                                                                                                                                                                | H   | –       | H   | M          | H   | M                    | H    | H    | H    | H     | M           |
| CO4                                                               | H                                                                                                                                                                                                   | M                                                                                                                                                                                                                                                                                                                                | H   | L       | H   | H          | M   | M                    | H    | M    | H    | M     | H           |
| CO5                                                               | H                                                                                                                                                                                                   | M                                                                                                                                                                                                                                                                                                                                | H   | L       | H   | H          | H   | H                    | M    | M    | H    | M     | M           |
| H-High; M-Medium; L-Low                                           |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     |                      |      |      |      |       |             |
| Course designed by                                                |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     | Verified by Chairman |      |      |      |       |             |
| Dr. C. Hariharasudhan                                             |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                  |     |         |     |            |     | Dr. T. Sudha         |      |      |      |       |             |

| Course Code                                                                             | Title                                                                                                                                                                                                                                                                                            |                                |                    |
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| 26U3BLC102                                                                              | DSC II: Fundamentals of Logistics                                                                                                                                                                                                                                                                |                                |                    |
| Semester : I                                                                            | Credits : 4                                                                                                                                                                                                                                                                                      | CIA : 25 Marks                 | ESE : 75 Marks     |
| (B. B. A. Logistics)                                                                    |                                                                                                                                                                                                                                                                                                  |                                |                    |
| Course Objective                                                                        | To introduce fundamentals of supply chain, logistics operations, and management for efficient business decision making.                                                                                                                                                                          |                                |                    |
| Course Category                                                                         | Employability                                                                                                                                                                                                                                                                                    |                                |                    |
| Development Needs                                                                       | Local, National and Global                                                                                                                                                                                                                                                                       |                                |                    |
| Course Description                                                                      | Introduces logistics, supply chain concepts, warehousing, transportation, costs, performance, and modern green logistics trends.                                                                                                                                                                 |                                |                    |
| Course Outcomes                                                                         |                                                                                                                                                                                                                                                                                                  | BTL                            | Assessment Methods |
| CO 1                                                                                    | Apply supply chain and logistics concepts, roles, and differences in business operations.                                                                                                                                                                                                        | K3                             | Assignment         |
| CO 2                                                                                    | Apply warehousing principles and material handling methods in logistics operations.                                                                                                                                                                                                              | K3                             |                    |
| CO 3                                                                                    | Use performance measurement tools and identify logistics cost components.                                                                                                                                                                                                                        | K3                             | Case Study         |
| CO 4                                                                                    | Analyze transportation systems and packaging strategies in logistics networks.                                                                                                                                                                                                                   | K4                             |                    |
| CO 5                                                                                    | Evaluate emerging logistics trends including green logistics and digital systems.                                                                                                                                                                                                                | K4                             | Quiz               |
| Offered by : Business Administration                                                    |                                                                                                                                                                                                                                                                                                  | SDG : 8, 9, 12, 13             |                    |
| Course Content                                                                          |                                                                                                                                                                                                                                                                                                  | Instructional Hours / Week : 4 |                    |
| Unit                                                                                    | Description                                                                                                                                                                                                                                                                                      | Text Book                      | Chapters           |
| I                                                                                       | <b>Supply Chain Management and Logistics:</b> Introduction to Supply Chain Management – Concept, Components and Difference between Logistics and Supply Chain Management. Introduction and Scope of Logistics – Functions and Objectives – Customer Value Chain – Service Phases and Attributes. | 1                              | 1 & 2              |
| Instructional Hours                                                                     |                                                                                                                                                                                                                                                                                                  |                                | 12                 |
| Learning Activity: Supply chain mapping exercises, value chain analysis                 |                                                                                                                                                                                                                                                                                                  |                                |                    |
| II                                                                                      | <b>Warehousing and Materials Handling:</b> Warehousing Functions – Types – Site Selection – Decision Model – Layout Design – Costing – Virtual Warehouse. Material Handling – Role and Basic Equipment used in Logistics Operations. Material Storage Systems – Principles – Benefits – Methods. | 2                              | 10 & 13            |
| Instructional Hours                                                                     |                                                                                                                                                                                                                                                                                                  |                                | 12                 |
| Learning Activity: Warehouse layout design, equipment identification exercises          |                                                                                                                                                                                                                                                                                                  |                                |                    |
| III                                                                                     | <b>Performance Measurement and Costs:</b> Performance Measurement – Need, System, Levels and Dimensions. Internal and External Performance Measurement. Logistics Cost – Basic Concepts, Identification and Time Frame.                                                                          | 2                              | 2 & 11             |
| Instructional Hours                                                                     |                                                                                                                                                                                                                                                                                                  |                                | 12                 |
| Learning Activity: logistics cost identification problems, performance evaluation cases |                                                                                                                                                                                                                                                                                                  |                                |                    |

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| IV                                                                                      | <b>Transportation and Packaging:</b> Transportation Systems - Evolution, Infrastructure and Networks. Freight Management – Route Planning – Containerization. Packaging– Design considerations, Material and Cost. Packaging as Unitization – Consumer and Industrial Packaging. |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            |                             |             |             | 2           | 5 & 13       |             |
| <b>Instructional Hours</b>                                                              |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            |                             |             |             |             | <b>12</b>    |             |
| <b>Learning Activity: transport mode comparison, packaging design case studies</b>      |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            |                             |             |             |             |              |             |
| V                                                                                       | <b>Emerging Trends in Logistics:</b> Logistics Information Systems – Need, Characteristics and Design. E-Logistics – Structure and Operation. Green Logistics – Concepts, Sustainable Transportation, Green Warehousing, Carbon Footprint, Reverse Logistics.                    |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            |                             |             |             | 1           | 14, 15 & 16  |             |
| <b>Instructional Hours</b>                                                              |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            |                             |             |             |             | <b>12</b>    |             |
| <b>Learning Activity: Green logistics case studies, digital logistics presentations</b> |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            |                             |             |             |             |              |             |
| <b>Total Hours</b>                                                                      |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            |                             |             |             |             | <b>60</b>    |             |
| <b>Text Books</b>                                                                       |                                                                                                                                                                                                                                                                                  | 1. Martin Christopher, Logistics and Supply Chain Management, Sixth Edition, Pearson Education, 2023.<br>2. Sunil Chopra and Peter Meindl, Supply Chain Management: Strategy, Planning and Operation, Eighth Edition, Pearson Education, 2024.                                                                           |            |                |            |                   |            |                             |             |             |             |              |             |
| <b>Reference Books</b>                                                                  |                                                                                                                                                                                                                                                                                  | 1. John Mangan, Agustina Calatayud and Chandra Lalwani, Global Logistics and Supply Chain Management, Fifth Edition, Wiley, 2025.<br>2. Alan Harrison and Remko van Hoek, Logistics Management and Strategy: Competing through the Supply Chain, Seventh Edition, Pearson Education, 2025.                               |            |                |            |                   |            |                             |             |             |             |              |             |
| <b>Web. URLs</b>                                                                        |                                                                                                                                                                                                                                                                                  | 1. <a href="https://www.coursera.org/learn/supply-chain-logistics">https://www.coursera.org/learn/supply-chain-logistics</a><br>2. <a href="https://www.mygreatlearning.com/academy/learn-for-free/courses/logistics-management">https://www.mygreatlearning.com/academy/learn-for-free/courses/logistics-management</a> |            |                |            |                   |            |                             |             |             |             |              |             |
| <b>Tools for Assessment (25 Marks)</b>                                                  |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            |                             |             |             |             |              |             |
| <b>CIA I</b>                                                                            |                                                                                                                                                                                                                                                                                  | <b>CIA II</b>                                                                                                                                                                                                                                                                                                            |            | <b>CIA III</b> |            | <b>Assignment</b> |            | <b>Case Study</b>           |             | <b>Quiz</b> |             | <b>Total</b> |             |
| <b>5</b>                                                                                |                                                                                                                                                                                                                                                                                  | <b>5</b>                                                                                                                                                                                                                                                                                                                 |            | <b>6</b>       |            | <b>3</b>          |            | <b>3</b>                    |             | <b>3</b>    |             | <b>25</b>    |             |
| <b>Mapping</b>                                                                          |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            |                             |             |             |             |              |             |
| <b>CO / PO</b>                                                                          | <b>PO1</b>                                                                                                                                                                                                                                                                       | <b>PO2</b>                                                                                                                                                                                                                                                                                                               | <b>PO3</b> | <b>PO4</b>     | <b>PO5</b> | <b>PO6</b>        | <b>PO7</b> | <b>PO8</b>                  | <b>PSO1</b> | <b>PSO2</b> | <b>PSO3</b> | <b>PSO4</b>  | <b>PSO5</b> |
| <b>CO1</b>                                                                              | H                                                                                                                                                                                                                                                                                | M                                                                                                                                                                                                                                                                                                                        | L          | –              | L          | –                 | –          | M                           | H           | M           | L           | –            | L           |
| <b>CO2</b>                                                                              | M                                                                                                                                                                                                                                                                                | M                                                                                                                                                                                                                                                                                                                        | H          | –              | M          | L                 | M          | –                           | M           | H           | M           | M            | M           |
| <b>CO3</b>                                                                              | H                                                                                                                                                                                                                                                                                | M                                                                                                                                                                                                                                                                                                                        | M          | L              | M          | –                 | M          | M                           | M           | H           | H           | H            | M           |
| <b>CO4</b>                                                                              | H                                                                                                                                                                                                                                                                                | M                                                                                                                                                                                                                                                                                                                        | H          | L              | M          | –                 | M          | M                           | M           | M           | H           | H            | M           |
| <b>CO5</b>                                                                              | M                                                                                                                                                                                                                                                                                | H                                                                                                                                                                                                                                                                                                                        | M          | H              | L          | M                 | M          | H                           | M           | M           | H           | M            | M           |
| H-High; M-Medium; L-Low                                                                 |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            |                             |             |             |             |              |             |
| <b>Course designed by</b>                                                               |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            | <b>Verified by Chairman</b> |             |             |             |              |             |
| Dr. C. Hariharasudhan                                                                   |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |            |                |            |                   |            | Dr. T. Sudha                |             |             |             |              |             |

| Course Code                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                               | Title                                                                                                                                   |                                |                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------|
| 26U3BMP103                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                               | DSE III: Office Automation Practical                                                                                                    |                                |                                          |
| Semester : I                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                               | Credits : 4                                                                                                                             | CIA : 40 Marks                 | ESE : 60 Marks                           |
| (Common to B. B. A. CA / IB / LOG / AV)                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                               |                                                                                                                                         |                                |                                          |
| Course Objective                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                               | To develop practical skills in office automation tools for business documentation, data management, presentations, and design.          |                                |                                          |
| Course Category                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                               | Skill Development                                                                                                                       |                                |                                          |
| Development Needs                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                               | Local, Regional, National, and Global                                                                                                   |                                |                                          |
| Course Description                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                               | This course introduces office automation applications including word processing, spreadsheets, presentations, forms, and visual design. |                                |                                          |
| Course Outcomes                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                               |                                                                                                                                         | BTL                            | Assessment Methods                       |
| CO1                                                                                                                                                                                                                                                                                                                                                                                                                 | Apply word processing features for creating professional business documents effectively.                      |                                                                                                                                         | K3                             | Document Preparation and Output Accuracy |
| CO2                                                                                                                                                                                                                                                                                                                                                                                                                 | Analyze spreadsheet data using formulas, functions, charts, and formatting tools effectively.                 |                                                                                                                                         | K4                             |                                          |
| CO3                                                                                                                                                                                                                                                                                                                                                                                                                 | Analyze presentation design elements for creating effective multimedia business presentations professionally. |                                                                                                                                         | K4                             | Design and Output Accuracy               |
| CO4                                                                                                                                                                                                                                                                                                                                                                                                                 | Evaluate online forms and survey responses for business research decision-making purposes.                    |                                                                                                                                         | K5                             |                                          |
| CO5                                                                                                                                                                                                                                                                                                                                                                                                                 | Evaluate visual communication elements for developing professional business promotional designs effectively.  |                                                                                                                                         | K5                             | Viva Voce                                |
| Offered by                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                               | Business Administration                                                                                                                 | SDG : 4, 8, 9                  |                                          |
| Course Content                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                               |                                                                                                                                         | Instructional Hours / Week : 5 |                                          |
| LIST OF PROGRAMS                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                               |                                                                                                                                         |                                |                                          |
| <b>Concept 01: Word Processing</b><br>Basic Level (K1/K2) : Create, save, open, and edit documents using MS Word.<br>Intermediate Level (K3/K4) : Apply page layout features such as margins, headers, footers, and page numbers, and perform text formatting using fonts, alignment, and spacing options.<br>Advanced Level ( K5/K6) : Design a professional business report using tables, images, and text boxes. |                                                                                                               |                                                                                                                                         |                                |                                          |
| <b>Concept 02: Spreadsheet Management</b><br>Basic Level (K1/K2) : Format data using sorting and filtering techniques in MS Excel.<br>Intermediate Level (K3/K4) : Apply formulas such as SUM, AVERAGE, COUNT, and IF functions.<br>Advanced Level ( K5/K6) : Develop business reports using Pivot Tables and charts.                                                                                               |                                                                                                               |                                                                                                                                         |                                |                                          |
| <b>Concept 03: Presentations Tools</b><br>Basic Level (K1/K2) : Create presentation slides and insert charts, tables, images, and videos using MS PowerPoint.<br>Intermediate Level (K3/K4) : Create presentations using SmartArt and multimedia tools.<br>Advanced Level ( K5/K6) : Develop a professional business presentation on a selected topic.                                                              |                                                                                                               |                                                                                                                                         |                                |                                          |

**Concept 04: Online Forms and Survey Tools**

Basic Level (K1/K2) : Create online forms using different question types such as MCQs and checkboxes in Google Forms.

Intermediate Level (K3/K4) : Apply response validation and quiz settings in Google Forms.

Advanced Level ( K5/K6) : Develop an online survey for market research purposes.

**Concept 05: Visual Communication and Design**

Basic Level (K1/K2) : Create Canva account and demonstrate the use of text, images, icons, and backgrounds in designs.

Intermediate Level (K3/K4) : Apply branding elements such as colors, fonts, and logos in designs.

Advanced Level ( K5/K6) : Design a professional business brochure.

**Total Hours | 75**

**Web. URLs**

1. <https://learn.microsoft.com/en-us/training/microsoft-365/>
2. <https://www.canva.com/designschool/>

**Tools for Assessment (40 Marks)**

| Laboratory Performance - Document Preparation and Output Accuracy | Laboratory Performance - Design and Output Accuracy | Laboratory Performance - Viva voce | Test 1 | Test 2 | Observation Note Book | Total |
|-------------------------------------------------------------------|-----------------------------------------------------|------------------------------------|--------|--------|-----------------------|-------|
| 5                                                                 | 5                                                   | 5                                  | 10     | 10     | 5                     | 40    |

**Mapping**

| CO / PO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| CO1     | M   | H   | M   | –   | M   | L   | –   | M   | H    | M    | M    | –    | M    |
| CO2     | M   | H   | M   | –   | H   | M   | –   | M   | H    | H    | H    | M    | H    |
| CO3     | M   | H   | H   | –   | M   | L   | M   | M   | M    | M    | H    | M    | –    |
| CO4     | H   | M   | M   | M   | M   | M   | M   | H   | M    | M    | H    | H    | M    |
| CO5     | M   | H   | H   | M   | M   | L   | M   | H   | M    | M    | M    | H    | –    |

H-High; M-Medium; L-Low

**Course designed by**

**Verified by Chairman**

Dr. C. Hariharasudhan

Dr. T. Sudha

| Course Code                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                     | Title                                                                                                                          |                                |                    |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------|
| 26U3MDA101                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                     | GEC I (A): Mathematics for Management – I                                                                                      |                                |                    |
| Semester : I                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                     | Credits : 3                                                                                                                    | CIA: 20 Marks                  | ESE: 55 Marks      |
| (Common to B. B. A. CA / IB / LOG / AV)                               |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |                                |                    |
| Course Objective                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                     | To develop knowledge of Mathematics and Statistics concepts and their analytical applications.                                 |                                |                    |
| Course Category                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                     | Skill Development                                                                                                              |                                |                    |
| Development Needs                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     | National                                                                                                                       |                                |                    |
| Course Description                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                     | This course introduces the fundamental concepts of Mathematics and Statistics, focusing on applications in real life problems. |                                |                    |
| Course Outcomes                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                | BTL                            | Assessment Methods |
| CO 1                                                                  | Solve financial problems involving Simple and Compound interest.                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                | K3                             | Seminar            |
| CO 2                                                                  | Identifying the properties of Matrices.                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                | K3                             | Assignment         |
| CO 3                                                                  | Apply the basic concepts of measures of central tendency and dispersion                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                | K3                             | Assignment         |
| CO 4                                                                  | Analyze the relationship between variables using Correlation and Regression                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                | K4                             | Seminar            |
| CO 5                                                                  | Analyze variations in data using Index numbers and Time series methods.                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                | K4                             | Quiz               |
| Offered by : Mathematics                                              |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                | SDG : 4                        |                    |
| Course Content                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                | Instructional Hours / Week : 5 |                    |
| Unit                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                | Text Boo                       | Chapte rs          |
| I                                                                     | Set Theory: Introduction – Types of Sets – Set Operations - Venn Diagrams - Number of Elements.<br>Financial Mathematics: Simple and Compound Interest. (Simple problems only)                                                                                                                                                                                                                                      |                                                                                                                                | 1                              | 2,3                |
| Instructional Hours                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |                                | 15                 |
| Learning Activity: Seminar on Matrices                                |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |                                |                    |
| II                                                                    | Matrices: Fundamental ideas about matrices and their operational rules – Matrix multiplication – Inversion of square matrices of not more than 3rd order – Solving system of simultaneous linear equations.                                                                                                                                                                                                         |                                                                                                                                | 1                              | 4                  |
| Instructional Hours                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |                                | 15                 |
| Learning Activity: Assignment in set Theory and Financial Mathematics |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |                                |                    |
| III                                                                   | Meaning and Definitions of Statistics: Scope and Limitations - Real life applications of statistics - Collection of data –Primary data and Secondary data – Classification and Tabulation of data – Formation of Frequency Distribution.<br>Measures of Central Tendency: Arithmetic Mean, Median and Mode.<br>Measures of Dispersion: Range - Quartile deviation - Standard Deviation – Co-efficient of Variation. |                                                                                                                                | 1                              | 1,3,5,7, 8         |
| Instructional Hours                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |                                | 15                 |
| Learning Activity: Assignment in Central Tendency and Dispersion      |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |                                |                    |

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            |         |      |       |     |                       |      |      |      |      |      |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|---------|------|-------|-----|-----------------------|------|------|------|------|------|
| IV                                                       | <b>Correlation:</b> Introduction- Types Of Correlation- Scatter Diagram – Karl Pearson’s Co-efficient of Correlation – Coefficient of Determination - Spearman’s Rank Correlation.<br><b>Regression:</b> Regression equation of variables – Linear Regression.                                                                                                                                                                                                                                                                                                                  | 1       | 12,13      |         |      |       |     |                       |      |      |      |      |      |
| Instructional Hours                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | 15         |         |      |       |     |                       |      |      |      |      |      |
| Learning Activity: Seminar on Correlation and Regression |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            |         |      |       |     |                       |      |      |      |      |      |
| V                                                        | <b>Index Numbers:</b> Concepts – Un weighted and Weighted indices – Tests of index numbers – Consumers price and cost of living indices.<br><b>Time Series:</b> Definition- Uses- Components – Secular trend – Method of least square – Seasonal fluctuation – Method of Simple Average, Method of moving Averages.                                                                                                                                                                                                                                                             | 1       | 10,14      |         |      |       |     |                       |      |      |      |      |      |
| Instructional Hours                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | 15         |         |      |       |     |                       |      |      |      |      |      |
| Learning Activity: Quiz on Index numbers and Time Series |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            |         |      |       |     |                       |      |      |      |      |      |
| Total Hours                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | 75         |         |      |       |     |                       |      |      |      |      |      |
| Text Books                                               | 1. PA. Navaneethan, Business Mathematics and Statistics (Part I & II), Jai Publishers, May 2016.<br><b>Unit I :</b> Chapter 2 - Page no 43 - 61, Chapter 3 - Page no 104 – 136<br><b>Unit II :</b> Chapter 4 - Page no 147 – 186<br><b>Unit III:</b> Chapter 1 -Page no 1 – 19, Chapter 3- 28-40, Chapter 5 – page no 60 – 97<br>Chapter 7 – Page no 159 – 250<br>Chapter 8 – Page no. 301 – 337, 360-362.<br><b>Unit IV:</b> Chapter 12 – Page no 503 – 508, 515 – 522, Chapter 13- 540-554<br><b>Unit V:</b> Chapter 10 – Page no 444 – 471<br>Chapter 14 – Page no 579 - 605 |         |            |         |      |       |     |                       |      |      |      |      |      |
| Reference Books                                          | 1. S.P. Gupta, Statistical Methods, Sultan Chand & Sons, 2014.<br>2. R.S.N. Pillai and V Bagavathi, Statistics, S. Chand & company Ltd., 2003<br>3. D.C. Sancheti and V.K. Kapoor, Statistics - Theory, Methods & Application, Sultan Chand & Sons, 1999.                                                                                                                                                                                                                                                                                                                       |         |            |         |      |       |     |                       |      |      |      |      |      |
| Web. URLs                                                | 1. <a href="https://www.youtube.com/watch?v=oaOm2pnKkyY">https://www.youtube.com/watch?v=oaOm2pnKkyY</a><br>2. <a href="https://www.youtube.com/watch?v=1MiT06JFNo4">https://www.youtube.com/watch?v=1MiT06JFNo4</a><br>3. <a href="https://www.youtube.com/watch?v=1lc9cs6WpJU">https://www.youtube.com/watch?v=1lc9cs6WpJU</a>                                                                                                                                                                                                                                                |         |            |         |      |       |     |                       |      |      |      |      |      |
| Tools for Assessment (20 Marks)                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            |         |      |       |     |                       |      |      |      |      |      |
| CIA I                                                    | CIA II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CIA III | Assignment | Seminar | Quiz | Total |     |                       |      |      |      |      |      |
| 4                                                        | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5       | 2          | 2       | 3    | 20    |     |                       |      |      |      |      |      |
| Mapping                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            |         |      |       |     |                       |      |      |      |      |      |
| CO / PO                                                  | PO1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PO2     | PO3        | PO4     | PO5  | PO6   | PO7 | PO8                   | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
| CO1                                                      | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | M       | M          | -       | -    | -     | L   | M                     | M    | M    | -    | -    | L    |
| CO2                                                      | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H       | M          | -       | -    | -     | -   | M                     | M    | H    | M    | -    | M    |
| CO3                                                      | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H       | H          | -       | -    | -     | -   | M                     | H    | H    | M    | -    | M    |
| CO4                                                      | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H       | H          | M       | -    | -     | M   | M                     | H    | H    | H    | M    | H    |
| CO5                                                      | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H       | H          | -       | -    | -     | H   | H                     | H    | H    | H    | M    | H    |
| H-High; M-Medium; L-Low                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            |         |      |       |     |                       |      |      |      |      |      |
| Course designed by                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            |         |      |       |     | Verified by Chairman  |      |      |      |      |      |
| S Indhumathi                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            |         |      |       |     | Dr. T. Chandrapushpam |      |      |      |      |      |

| Course Code                                            |                                                                                                                                                                                                                  | Title                                                                                                                                         |                                |                    |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------|
| 26U3MDA102                                             |                                                                                                                                                                                                                  | GEC I (B): Managerial Mathematics – I                                                                                                         |                                |                    |
| Semester : I                                           |                                                                                                                                                                                                                  | Credits : 3                                                                                                                                   | CIA : 20 Marks                 | ESE : 55 Marks     |
| (Common to B. B. A. CA / IB / LOG / AV)                |                                                                                                                                                                                                                  |                                                                                                                                               |                                |                    |
| Course Objective                                       |                                                                                                                                                                                                                  | To provide knowledge of series, calculus, interpolation, and probability and develop their application in mathematical and economic concepts. |                                |                    |
| Course Category                                        |                                                                                                                                                                                                                  | Skill Development                                                                                                                             |                                |                    |
| Development Needs                                      |                                                                                                                                                                                                                  | National                                                                                                                                      |                                |                    |
| Course Description                                     |                                                                                                                                                                                                                  | This course covers sequences and series, algebraic functions, differentiation and integration, interpolation methods, and basic probability.  |                                |                    |
| Course Outcomes                                        |                                                                                                                                                                                                                  |                                                                                                                                               | BTL                            | Assessment Methods |
| CO 1                                                   | Develop arithmetical skills to find the sum of a series.                                                                                                                                                         |                                                                                                                                               | K3                             | Assignment         |
| CO 2                                                   | Compute derivatives of simple arithmetic functions                                                                                                                                                               |                                                                                                                                               | K3                             | Seminar            |
| CO 3                                                   | Implement the ideas of Integration in Business problems.                                                                                                                                                         |                                                                                                                                               | K3                             | Seminar            |
| CO 4                                                   | Predicting data using interpolation and extrapolation techniques.                                                                                                                                                |                                                                                                                                               | K4                             | Assignment         |
| CO 5                                                   | Application of addition and multiplication theorems on probability to solve simple problems.                                                                                                                     |                                                                                                                                               | K4                             | Quiz / Assignment  |
| Offered by : Mathematics                               |                                                                                                                                                                                                                  |                                                                                                                                               | SDG : 4, 8                     |                    |
| Course Content                                         |                                                                                                                                                                                                                  |                                                                                                                                               | Instructional Hours / Week : 5 |                    |
| Unit                                                   | Description                                                                                                                                                                                                      |                                                                                                                                               | Text Book                      | Chapters           |
| I                                                      | Series: Sequence and Series – Arithmetic Progression – Geometric Progression, Harmonic Progression                                                                                                               |                                                                                                                                               | 1                              | 1                  |
| Instructional Hours                                    |                                                                                                                                                                                                                  |                                                                                                                                               | 15                             |                    |
| Learning Activity: Assignment I n Progression          |                                                                                                                                                                                                                  |                                                                                                                                               |                                |                    |
|                                                        |                                                                                                                                                                                                                  |                                                                                                                                               |                                |                    |
| II                                                     | Variables, Constants and Functions: Limits of Algebraic Functions – Simple Differentiation of Algebraic Functions. Meaning of Derivations: Evaluation of First and Second order Derivatives – Maxima and Minima. |                                                                                                                                               | 1                              | 6                  |
| Instructional Hours                                    |                                                                                                                                                                                                                  |                                                                                                                                               | 15                             |                    |
| Learning Activity: Seminar on Second Order Derivatives |                                                                                                                                                                                                                  |                                                                                                                                               |                                |                    |
|                                                        |                                                                                                                                                                                                                  |                                                                                                                                               |                                |                    |
| III                                                    | Elementary Integral Calculus: Determining Indefinite and Definite Integrals of simple Functions – Integration by Parts- Uses in Economics- Consumers and Producers Surplus (Simple Problems Only).               |                                                                                                                                               | 1                              | 8                  |
| Instructional Hours                                    |                                                                                                                                                                                                                  |                                                                                                                                               | 15                             |                    |
| Learning Methods : Seminar on Integration by Parts     |                                                                                                                                                                                                                  |                                                                                                                                               |                                |                    |
|                                                        |                                                                                                                                                                                                                  |                                                                                                                                               |                                |                    |
| IV                                                     | Interpolation and Extrapolation – Graphical Method – Algebraic Method – Binomial Expansion method - Newton’s Forward and Backward Difference - Lagrange’s methods.                                               |                                                                                                                                               | 1                              | 15                 |
| Instructional Hours                                    |                                                                                                                                                                                                                  |                                                                                                                                               | 15                             |                    |
| Learning Methods: Assignment in Differences            |                                                                                                                                                                                                                  |                                                                                                                                               |                                |                    |

|                                                    |                                                                                                                                                                                                                                                                                                      |         |            |     |         |     |                       |       |      |      |      |      |      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|-----|---------|-----|-----------------------|-------|------|------|------|------|------|
| V                                                  | Probability – Concept and definition – Addition and Multiplication theorem of Probability (Statement only) – Simple problems based on Addition and Multiplication theorem only.                                                                                                                      |         |            |     |         | 1   | 16                    |       |      |      |      |      |      |
| Instructional Hours                                |                                                                                                                                                                                                                                                                                                      |         |            |     |         |     | 15                    |       |      |      |      |      |      |
| Learning Methods: Quiz / Assignment in Probability |                                                                                                                                                                                                                                                                                                      |         |            |     |         |     |                       |       |      |      |      |      |      |
| Total Hours                                        |                                                                                                                                                                                                                                                                                                      |         |            |     |         |     | 75                    |       |      |      |      |      |      |
| Text Books                                         | 1. Text Book(s): P. A. Navanitham, Business Mathematics & Statistics (Part –I &II), Jai Publishers, June 2008.<br>Unit I: Part I: Page No. 1-33<br>Unit II: Part I: Page No. 247-296<br>Unit III: Part I: Page No. 303-322<br>Unit IV: Part II: Page No. 622-643<br>Unit V:Part II: Page No. 654-680 |         |            |     |         |     |                       |       |      |      |      |      |      |
| Reference Books                                    | 1. S.P. Gupta, Statistical Methods, Sultan Chand & Sons, 2014.<br>2. D.C. Sanchetti and V.K. Kapoor, Business Mathematics, Sultan Chand Co Ltd., New Delhi, 1999<br>3. Kalavathy, Operations Research, Vikas Publishing House Pvt.Ltd.,2009                                                          |         |            |     |         |     |                       |       |      |      |      |      |      |
| Web. URLs                                          | 1. <a href="https://youtu.be/AdLAkD-r9Rs">https://youtu.be/AdLAkD-r9Rs</a><br>2. <a href="https://tinyurl.com/5btt3w49">https://tinyurl.com/5btt3w49</a><br>3. <a href="https://tinyurl.com/2mxj7f67">https://tinyurl.com/2mxj7f67</a>                                                               |         |            |     |         |     |                       |       |      |      |      |      |      |
| Tools for Assessment (20 Marks)                    |                                                                                                                                                                                                                                                                                                      |         |            |     |         |     |                       |       |      |      |      |      |      |
| CIA I                                              | CIA II                                                                                                                                                                                                                                                                                               | CIA III | Assignment |     | Seminar |     | Quiz                  | Total |      |      |      |      |      |
| 4                                                  | 4                                                                                                                                                                                                                                                                                                    | 5       | 2          |     | 2       |     | 3                     | 20    |      |      |      |      |      |
| Mapping                                            |                                                                                                                                                                                                                                                                                                      |         |            |     |         |     |                       |       |      |      |      |      |      |
| CO / PO                                            | PO1                                                                                                                                                                                                                                                                                                  | PO2     | PO3        | PO4 | PO5     | PO6 | PO7                   | PO8   | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
| CO1                                                | H                                                                                                                                                                                                                                                                                                    | M       | M          | -   | -       | -   | L                     | M     | M    | M    | -    | -    | L    |
| CO2                                                | H                                                                                                                                                                                                                                                                                                    | H       | M          | -   | -       | -   | -                     | M     | M    | H    | M    | -    | M    |
| CO3                                                | H                                                                                                                                                                                                                                                                                                    | H       | H          | -   | -       | -   | -                     | M     | H    | H    | M    | -    | M    |
| CO4                                                | H                                                                                                                                                                                                                                                                                                    | H       | H          | M   | -       | -   | M                     | M     | H    | H    | H    | M    | H    |
| CO5                                                | H                                                                                                                                                                                                                                                                                                    | H       | H          | -   | -       | -   | H                     | H     | H    | H    | H    | M    | H    |
| H-High; M-Medium; L-Low                            |                                                                                                                                                                                                                                                                                                      |         |            |     |         |     |                       |       |      |      |      |      |      |
| Course designed by                                 |                                                                                                                                                                                                                                                                                                      |         |            |     |         |     | Verified by Chairman  |       |      |      |      |      |      |
| Ms. S Indhumathi                                   |                                                                                                                                                                                                                                                                                                      |         |            |     |         |     | Dr. T. Chandrapushpam |       |      |      |      |      |      |

| Course Code                                           |                                                                                                                                                                                                                                                                                                                                      | Title                                                                                                                                                                                        |                               |                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------|
| 26U4ENV101                                            |                                                                                                                                                                                                                                                                                                                                      | AEC III - Environmental Studies                                                                                                                                                              |                               |                      |
| Semester : I                                          |                                                                                                                                                                                                                                                                                                                                      | Credits : 2                                                                                                                                                                                  | CIA : 50 Marks                |                      |
| (Common to all UG Programmes)                         |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                               |                      |
| Course Objective                                      |                                                                                                                                                                                                                                                                                                                                      | This course enables the students to recognize the interconnectedness of multiple factors in Environmental challenges and communicate clearly and competently matters of environment concern. |                               |                      |
| Course Category                                       |                                                                                                                                                                                                                                                                                                                                      | Employability                                                                                                                                                                                |                               |                      |
| Development Needs                                     |                                                                                                                                                                                                                                                                                                                                      | National & Global                                                                                                                                                                            |                               |                      |
| Course Outcomes                                       |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              | BTL                           | Assessment Methods   |
| CO 1                                                  | Understand key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions                                                                                                                                                                        |                                                                                                                                                                                              | K3                            | Album Preparation    |
| CO 2                                                  | Understand concepts and methods from ecological and physical sciences and their application in environmental problem solving.                                                                                                                                                                                                        |                                                                                                                                                                                              | K3                            | Album Preparation    |
| CO 3                                                  | Solve the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.                                                                                                                                                                                                   |                                                                                                                                                                                              | K3                            | Group Discussions    |
| CO 4                                                  | Demonstrate an understanding of environmental sustainability through Sustainable Development Goals, resource conservation, waste management, and community participation in addressing environmental issues                                                                                                                          |                                                                                                                                                                                              | K4                            | Group Discussions    |
| CO 5                                                  | Apply systems concepts and methodologies to analyse and understand interactions between social and environmental processes.                                                                                                                                                                                                          |                                                                                                                                                                                              | K4                            | Field visit & Report |
| SDG :13, 14, 15                                       |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                               |                      |
| Course Content                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              | Instructional Hour / Week : 1 |                      |
| Unit                                                  | Description                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              | Text Book                     | Chapters             |
| I                                                     | Natural Resources: Forest resources, Water resources, Mineral resources, Food resources, Energy resources and Land resources.                                                                                                                                                                                                        |                                                                                                                                                                                              | 1                             | 2                    |
| Instructional Hours                                   |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                               | 3                    |
| Learning Activity : Video lectures from In-house MOOC |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                               |                      |
| II                                                    | Ecosystems: Concept of an ecosystem, Structure and function; Introduction, types, characteristic features, structure and function of ecosystem - Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).<br>Activity: Prepare an album on types of Ecosystem |                                                                                                                                                                                              | 1                             | 3                    |
| Instructional Hours                                   |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                               | 3                    |
| Learning Activity : Video lectures from In-house MOOC |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                               |                      |
| III                                                   | Environmental Pollution: Definition Causes, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution and Noise pollution, Solid waste management.<br>Activity: Discuss the solutions for water pollution                                                                                     |                                                                                                                                                                                              | 1                             | 5                    |
| Instructional Hours                                   |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                               | 3                    |
| Learning Activity : Group Discussion                  |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                               |                      |

|                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------|--------------|------------|------------|------------|--------------------|-------------|-------------|-------------|-------------|-------------|
| IV                                                                                                                                                                                                                                                                                      | <b>Social Issues and the Environment:</b> Water conservation, rain water harvesting, watershed management, Environmental ethics - Issue summits’ and possible solutions and Public awareness. Introduction to the Sustainable Development Goals - Resource conservation and waste management - Environmental awareness and community participation.<br><b>Activity: Identify and analyse a Social Issue and an Environment issue in your locality.</b> | 1                                                                                           | 6           |              |            |            |            |                    |             |             |             |             |             |
|                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4                                                                                           | 4,7,10,11   |              |            |            |            |                    |             |             |             |             |             |
| <b>Instructional Hours</b>                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             | <b>3</b>    |              |            |            |            |                    |             |             |             |             |             |
| <b>Learning Activity : Group Discussion</b>                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
| V                                                                                                                                                                                                                                                                                       | <b>Disaster Management:</b> Floods, Earthquakes, Cyclones, Landslides: From management to mitigation of disasters: Themain elements of a mitigation and measures of strategy: Floods, Earthquakes, Cyclones and Landslides                                                                                                                                                                                                                             | 3                                                                                           | 16          |              |            |            |            |                    |             |             |             |             |             |
| <b>Instructional Hours</b>                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             | <b>3</b>    |              |            |            |            |                    |             |             |             |             |             |
| <b>Learning Activity: Group Discussion</b>                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
| <b>Field Work:</b> Visit to local area to document Environmental assets (River / Forest / Grass land / Mountain), Visit to local polluted site (Urban / Rural /industrial / Agricultural), Study of common plants, insects, birds, Study of simple ecosystem: Pond, River, Hill slopes. |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
| <b>Total Hours</b>                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             | <b>15</b>   |              |            |            |            |                    |             |             |             |             |             |
| <b>Text Book(s)</b>                                                                                                                                                                                                                                                                     | 1. Shashi Chawla. A Text Book of Environmental Studies, Tata McGraw-Hill, 2012.                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
|                                                                                                                                                                                                                                                                                         | 2. In-house MOOC for ‘Environmental Studies’ developed by Nehru Arts and Science College and hosted through Moodle platform                                                                                                                                                                                                                                                                                                                            |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
|                                                                                                                                                                                                                                                                                         | 3. From UGC website: <a href="https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf">https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf</a>                                                                                                                                                                                                                                                                                                           |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
|                                                                                                                                                                                                                                                                                         | 4. Sustainable Economic Development & Environment, Raj Kumar Sen, Kartik C.Roy, Atlatic Publishers & Distributors Pvt Ltd,2021                                                                                                                                                                                                                                                                                                                         |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
| <b>Tools for Assessment (50 Marks)</b>                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
| <b>Ecosystem Album Preparation</b>                                                                                                                                                                                                                                                      | <b>Field visit and report submission</b>                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Group discussions about issues related to their locality / about Disaster Management</b> | <b>Quiz</b> | <b>Total</b> |            |            |            |                    |             |             |             |             |             |
| <b>10</b>                                                                                                                                                                                                                                                                               | <b>10</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>5</b>                                                                                    | <b>25</b>   | <b>50</b>    |            |            |            |                    |             |             |             |             |             |
| <b>Mapping</b>                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
| <b>CO \ PO</b>                                                                                                                                                                                                                                                                          | <b>PO1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>PO2</b>                                                                                  | <b>PO3</b>  | <b>PO4</b>   | <b>PO5</b> | <b>PO6</b> | <b>PO7</b> | <b>PO8</b>         | <b>PSO1</b> | <b>PSO2</b> | <b>PSO3</b> | <b>PSO4</b> | <b>PSO5</b> |
| <b>CO1</b>                                                                                                                                                                                                                                                                              | L                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                                                                           | L           | H            | H          | H          | H          | L                  | L           | -           | -           | -           | -           |
| <b>CO2</b>                                                                                                                                                                                                                                                                              | L                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                                                                           | L           | H            | H          | H          | H          | L                  | L           | -           | -           | -           | -           |
| <b>CO3</b>                                                                                                                                                                                                                                                                              | L                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                                                                           | L           | H            | H          | H          | H          | L                  | L           | -           | -           | -           | -           |
| <b>CO4</b>                                                                                                                                                                                                                                                                              | L                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                                                                           | L           | H            | H          | H          | H          | L                  | L           | -           | -           | -           | -           |
| <b>CO5</b>                                                                                                                                                                                                                                                                              | L                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                                                                           | L           | H            | H          | H          | H          | L                  | L           | -           | -           | -           | -           |
| H-High; M-Medium; L-Low                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |
| <b>Course designed by</b>                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |             |              |            |            |            | <b>Verified by</b> |             |             |             |             |             |
|                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |             |              |            |            |            |                    |             |             |             |             |             |

| Course Code                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                      | Title                                                                                                                                                                                                                                             |  |                                |                         |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|-------------------------|
| 26U4BCS102                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                      | AEC IV: Introduction to Cyber Security                                                                                                                                                                                                            |  |                                |                         |
| Semester : I                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                      | Credit : 1                                                                                                                                                                                                                                        |  | CIA : 25 Marks                 |                         |
| (Common to all UG Programmes)                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |  |                                |                         |
| Course Objective                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                      | To introduce the basic concepts of cybersecurity and create awareness about cyber threats, attacks, security mechanisms, legal aspects, and professional opportunities, enabling students to develop safe and responsible use of digital systems. |  |                                |                         |
| Course Category                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                      | Skill Development                                                                                                                                                                                                                                 |  |                                |                         |
| Development Needs                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                      | Global                                                                                                                                                                                                                                            |  |                                |                         |
| Course Description                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                      | To provide an introduction to cyber security concepts, cyber crimes, mobile and wireless security, cyber attack tools and techniques, and safe digital practices for secure use of digital systems.                                               |  |                                |                         |
| Course Outcomes                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |  | BTL                            | Assessment Methods      |
| CO 1                                                                                                                              | Understand the basic concepts of cybersecurity, issues and challenges associated with it.                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                   |  | K2                             | Quiz                    |
| CO 2                                                                                                                              | Understand the cyber crimes, their nature and legal remedies.                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                   |  | K2                             |                         |
| CO 3                                                                                                                              | Appreciate various privacy and security concerns on online Social media and understand the reporting procedure of inappropriate content.                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                   |  | K4                             | Practical Demonstration |
| CO 4                                                                                                                              | Familiar with various digital payment modes and related cyber security aspects, RBI guidelines and preventive measures against digital payment frauds.                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                   |  | K4                             |                         |
| CO 5                                                                                                                              | Understand the basic security aspects related to Computer and Mobiles                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                   |  | K3                             |                         |
| SDG : 4, 8,9                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |  |                                |                         |
| Course Content                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |  | Instructional Hours / Week : 1 |                         |
| Unit                                                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                   |  |                                |                         |
| I                                                                                                                                 | <b>Unit I : Basics of Cyber Security</b><br>Introduction to Cyber Security – Need for Cyber Security – Internet Infrastructure for data transfer and governance - Defining Cyber Space- Regulation for Cyber Space - Cyber Security terminology - The CIA Triads - Types of Cyber attackers - Issues and challenges in Cyber Security                                                                                                |                                                                                                                                                                                                                                                   |  |                                |                         |
|                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |  | Instructional Hours            | 3                       |
| Learning Activity: Case study discussion on recent cyberattacks                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |  |                                |                         |
| II                                                                                                                                | <b>UNIT II : Cyber Crime and Cyber law</b><br>Classification of cyber crimes- Common cyber crimes- cyber crime targeting computers and mobiles, cyber crime against women and children, financial frauds, social engineering attacks, malware and ransomware attacks, zero day and zero click attacks- Reporting of cyber crimes- Remedial and mitigation measures -Legal perspective of cyber crime IT Act 2000 and its amendments. |                                                                                                                                                                                                                                                   |  |                                |                         |
|                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |  | Instructional Hours            | 3                       |
| Learning Activity: Checklist for reporting cyber crime at Cyber crime Police Station, reporting online, Reporting phishing emails |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |  |                                |                         |

|                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            |                             |            |             |             |             |             |             |
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| III                                                                                                                                                                                      | <b>UNIT III : Social Media Overview and Security</b><br>Introduction to Social networks. Types of Social media, Social media platforms, Social media monitoring, Hashtag, Viral content, Social media marketing, Social media privacy, Challenges, opportunities and pitfalls in online social network, Security issues related to social media, Flagging and reporting of inappropriate content, Laws regarding posting of inappropriate content, Best practices for the use of Social media.     |            |            |            |            |            |                             |            |             |             |             |             |             |
|                                                                                                                                                                                          | <b>Instructional Hours</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |            |            |            |            |                             |            |             |             |             | <b>3</b>    |             |
| <b>Learning Activity: Basic checklist, privacy and security settings for popular Social media platforms, Reporting and redressal mechanism for violations and misuse of Social media</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            |                             |            |             |             |             |             |             |
| IV                                                                                                                                                                                       | <b>UNIT IV : E-Commerce and Digital Payments</b><br>Elements of E-Commerce security, E-Commerce threats, E-Commerce security best practices, Introduction to digital payments, Components of digital payment and stake holders, Modes of digital payments- Banking Cards, Unified Payment Interface (UPI), e-Wallets, Unstructured Supplementary Service Data (USSD), Aadhar enabled payments, Digital payments related common frauds and preventive measures. RBI guidelines on digital payments. |            |            |            |            |            |                             |            |             |             |             |             |             |
|                                                                                                                                                                                          | <b>Instructional Hours</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |            |            |            |            |                             |            |             |             |             | <b>3</b>    |             |
| <b>Learning Activity: Configuring security settings in Mobile Wallets and UPIs</b>                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            |                             |            |             |             |             |             |             |
| V                                                                                                                                                                                        | <b>UNIT V : Digital Devices Security, Tools and Technologies for Cyber Security.</b><br>End Point device and Mobile phone security, Password policy, Security patch management, Data backup, Downloading and management of third party software, Device security policy, Cyber Security best practices, Management of host firewall and Anti-virus, Wi-Fi security.                                                                                                                                |            |            |            |            |            |                             |            |             |             |             |             |             |
|                                                                                                                                                                                          | <b>Instructional Hours</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |            |            |            |            |                             |            |             |             |             | <b>3</b>    |             |
| <b>Learning Activity: Discuss and implement common cyber safety practices to be used in daily life.</b>                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            |                             |            |             |             |             |             |             |
| <b>Total Hours</b>                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            |                             |            |             |             | <b>15</b>   |             |             |
| <b>Reference Books</b>                                                                                                                                                                   | 1. Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives by Sumit Belapure and Nina Godbole, Wiley India Pvt. Ltd. (First Edition, 2011)                                                                                                                                                                                                                                                                                                                            |            |            |            |            |            |                             |            |             |             |             |             |             |
|                                                                                                                                                                                          | 2. Cyber Crime Impact in the New Millennium, by R. C Mishra , Auther Press. Edition 2010.                                                                                                                                                                                                                                                                                                                                                                                                          |            |            |            |            |            |                             |            |             |             |             |             |             |
|                                                                                                                                                                                          | 3. Security in the Digital Age: Social Media Security Threats and Vulnerabilities by Henry A. Oliver, Create Space Independent Publishing Platform. (Pearson , 13th November, 2001)                                                                                                                                                                                                                                                                                                                |            |            |            |            |            |                             |            |             |             |             |             |             |
|                                                                                                                                                                                          | 4. Electronic Commerce by Elias M. Awad, Prentice Hall of India Pvt Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                           |            |            |            |            |            |                             |            |             |             |             |             |             |
|                                                                                                                                                                                          | 5. Cyber Laws: Intellectual Property & E-Commerce Security by Kumar K, Dominant Publishers.                                                                                                                                                                                                                                                                                                                                                                                                        |            |            |            |            |            |                             |            |             |             |             |             |             |
|                                                                                                                                                                                          | 6. Network Security Bible, Eric Cole, Ronald Krutz, James W. Conley, 2nd Edition, Wiley India Pvt. Ltd.                                                                                                                                                                                                                                                                                                                                                                                            |            |            |            |            |            |                             |            |             |             |             |             |             |
|                                                                                                                                                                                          | 7. Fundamentals of Network Security by E. Maiwald, McGraw Hill.                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            |                             |            |             |             |             |             |             |
| <b>Assessment: Computer Based Test for 50 Marks to be converted to 25</b>                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            |                             |            |             |             |             |             |             |
| <b>Mapping</b>                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            |                             |            |             |             |             |             |             |
| <b>CO \ PO</b>                                                                                                                                                                           | <b>PO1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>PO2</b> | <b>PO3</b> | <b>PO4</b> | <b>PO5</b> | <b>PO6</b> | <b>PO7</b>                  | <b>PO8</b> | <b>PSO1</b> | <b>PSO2</b> | <b>PSO3</b> | <b>PSO4</b> | <b>PSO5</b> |
| <b>CO1</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | L          | H          |            |            | H          |                             | M          |             |             |             |             |             |
| <b>CO2</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | L          | H          |            |            | H          |                             | M          |             |             |             |             |             |
| <b>CO3</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | L          | H          |            |            | H          |                             | M          |             |             |             |             |             |
| <b>CO4</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | L          | H          |            |            | H          |                             | M          |             |             |             |             |             |
| <b>CO5</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | L          | H          |            |            | H          |                             | M          |             |             |             |             |             |
| H-High; M-Medium; L-Low                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            |                             |            |             |             |             |             |             |
| <b>Course designed by</b>                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            | <b>Verified by Chairman</b> |            |             |             |             |             |             |
|                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |            |            |            |                             |            |             |             |             |             |             |