



KG COLLEGE OF ARTS AND SCIENCE
 Autonomous Institution | Affiliated to Bharathiar University
 Accredited with A++ Grade by NAAC
 ISO 9001:2015 Certified Institution
 KGiSL Campus, Saravanampatti, Coimbatore - 641 035

Regulations 2024-25 for Undergraduate Programme

**Learning Outcomes Based Curriculum Framework - (LOCF) Model with
 Choice Based Credit System (CBCS)**

**Programme: B.B.A. with Computer Applications
 (B.B.A.CA)**

Programme Code: BBC

(Applicable for the Students Admitted During the Academic Year 2024-25 onwards)

Eligibility

The student should have passed Higher Secondary Examination.
 (As per the eligibility conditions given by Bharathiar University Ref. BU/R/B3-B4/ Eligibility Condition/2024/9206 dated 24/05/2024).

Program Learning Outcomes (PLOs)

The successful completion of the B.B.A. CA Programme shall enable the students to:

| | |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PLO1 | Develop proficiency in critical analysis and problem-solving across Production, Finance, Human Resources, Marketing, and Systems for the contemporary business world. |
| PLO2 | Equip students with a diverse skill set, including decision-making, leadership, research, innovative thinking, and teamwork, to effectively utilise Business Management tools in both industry and entrepreneurial ventures. |
| PLO3 | Apply and effectively communicate business strategies, and make ethical decisions, complying social responsibility. |
| PLO4 | Graduates will possess robust skills through lifelong learning for ever-changing Business Environment. |
| PLO5 | Graduates will possess strong skills in using computer applications and information technology tools relevant to business operations. |

B.B.A. with Computer Applications
Distribution of Credits and Hours for all the Semesters

| Part | Course Category | No. of Courses | Hours | | Credits | | Total Credits | Semester |
|-----------------------|--------------------------------------------------------------------|----------------|-------|------------|---------|------------|---------------|------------|
| | | | | | | | | |
| I | Language-I | 4 | 4 X 4 | 16 | 4 X 3 | 12 | 12 | 1 – 4 |
| II | Language-II | 4 | 4 X 4 | 16 | 4 X 3 | 12 | 12 | 1 - 4 |
| III | Core Theory (6 hrs./week) | 7 | 7 X 6 | 42 | 7 X 4 | 28 | 100 | 2, 3, 5, 6 |
| | Core Theory (5 hrs./week) | 6 | 6 X 5 | 30 | 6 X 4 | 24 | | 1, 4, 5, 6 |
| | Core Theory (4 hrs./week) | 3 | 3 X 4 | 12 | 3 X 3 | 9 | | 2, 5 |
| | Core Lab (4 hrs./week) | 4 | 4 X 4 | 16 | 4 X 2 | 8 | | 1, 2, 3, 4 |
| | Allied Theory (4 hrs./week) | 4 | 4 X 4 | 16 | 4 X 3 | 12 | | 1, 2, 3, 4 |
| | Electives | 2 | 2 X 5 | 10 | 2 X 3 | 6 | | 5, 6 |
| | Project | 1 | 1 X 6 | 6 | 1 X 5 | 5 | | 6 |
| | Skill Enhancement (SEC) | 3 | 3 X 2 | 6 | 3 X 2 | 6 | | 3, 4, 6 |
| SEC : Internship (IT) | 1 | - | - | 1 X 2 | 2 | 5 | | |
| IV | Foundation Course (FC) | 2 | 2 X 2 | 4 | 2 X 2 | 4 | 14 | 1, 2 |
| | Foundation Course (FC) | 1 | - | - | 1 X 2 | 2 | | 3 |
| | Ability Enhancement Compulsory Course (AECC) | 3 | 3 X 2 | 6 | 3 X 2 | 6 | | 1, 2, 4 |
| | Ability Enhancement Compulsory Course(AECC) - Online Course - MOOC | 1 | - | - | 1 X 2 | 2 | | 3 |
| V | Liberal Arts (Extra-Curricular & Co-Curricular) | - | - | - | 2 | 2 | 2 | 4 |
| Total | | 46 | | 180 | | 140 | 140 | - |

**Consolidated Semester wise and Component wise
Hours and Credits Distribution**

| Semester | Part I | | Part II | | Part III | | Part IV | | Part V | | Total | |
|--------------|-----------|-----------|-----------|-----------|------------|------------|-----------|-----------|----------|----------|------------|------------|
| | Hours | Credits | Hours | Credits | Hours | Credits | Hours | Credits | Hours | Credits | Hours | Credits |
| 1 | 4 | 3 | 4 | 3 | 18 | 13 | 4 | 4 | - | - | 30 | 23 |
| 2 | 4 | 3 | 4 | 3 | 18 | 12 | 4 | 4 | - | - | 30 | 22 |
| 3 | 4 | 3 | 4 | 3 | 22 | 15 | - | 4 | - | - | 30 | 25 |
| 4 | 4 | 3 | 4 | 3 | 20 | 14 | 2 | 2 | - | 2 | 30 | 24 |
| 5 | - | - | - | - | 30 | 24 | - | - | - | - | 30 | 24 |
| 6 | - | - | - | - | 30 | 22 | - | - | - | - | 30 | 22 |
| Total | 16 | 12 | 16 | 12 | 138 | 100 | 10 | 14 | - | 2 | 180 | 140 |

Curriculum
B.B.A. with Computer Applications

| Semester - 1 | | | | | | | | | |
|---------------------|------|-----------------|-----------------------------------------|------------|--------------------|------------|-----|------------|-----------|
| Course Code | Part | Course Category | Course Name | Hours/Week | Examination | | | Credits | |
| | | | | | Duration in Hours. | Max. Marks | | | |
| | | | | | | CIA | ESE | | Total |
| 24TAM11L | I | Language - I | Tamil – I | 4 | 3 | 25 | 75 | 100 | 3 |
| 24HIN11L | | | Hindi – I | | | | | | |
| 24MAL11L | | | Malayalam - I | | | | | | |
| 24FRE11L | | | French – I | | | | | | |
| 24ENG12L | II | English - I | English – I | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC13C | III | Core - I | Principles of Management | 5 | 3 | 25 | 75 | 100 | 4 |
| 24BBC14C | III | Core - II | Accounting for Managers - I | 5 | 3 | 25 | 75 | 100 | 4 |
| 24BBC15P | III | Core Lab - I | Advanced Excel and Financial Modelling | 4 | 3 | 40 | 60 | 100 | 2 |
| 24BBC16A | III | Allied - I | Mathematics and Statistics for Business | 4 | 3 | 25 | 75 | 100 | 3 |
| 24ENV1FC | IV | FC - I | Environmental Studies | 2 | 2 | 50 | - | 50 | 2 |
| 24QUA1AE | IV | AECC - I | Quantitative Aptitude | 2 | 2 | - | 50 | 50 | 2 |
| Total | | | | 30 | | | | 700 | 23 |

| Semester - 2 | | | | | | | | | |
|--------------|------|-----------------|----------------------------|------------|-------------------|------------|-----|------------|-----------|
| Course Code | Part | Course Category | Course Name | Hours/Week | Examination | | | Credits | |
| | | | | | Duration in Hours | Max. Marks | | | |
| | | | | | | CIA | ESE | | Total |
| 24TAM21L | I | Language - II | Tamil - II | 4 | 3 | 25 | 75 | 100 | 3 |
| 24HIN21L | | | Hindi - II | | | | | | |
| 24MAL21L | | | Malayalam - II | | | | | | |
| 24FRE21L | | | French - II | | | | | | |
| 24ENG22L | II | English - II | English - II | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC23C | III | Core - III | Organisational Behaviour | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC24C | III | Core - IV | Business Environment | 6 | 3 | 25 | 75 | 100 | 4 |
| 24BBC25P | III | Core Lab - II | Data Analytics in Business | 4 | 3 | 40 | 60 | 100 | 2 |
| 24BBC26A | III | Allied - II | Economics for Executives | 4 | 3 | 25 | 75 | 100 | 3 |
| 24HUM2FC | IV | FC - II | Human Rights | 2 | 2 | 50 | - | 50 | 2 |
| 24SOF2AE | IV | AECC - II | Soft Skills | 2 | 2 | - | 50 | 50 | 2 |
| Total | | | | 30 | | | | 700 | 22 |

| Semester – 3 | | | | | | | | | |
|--------------|------|-----------------|-----------------------------------------|------------|-------------------|------------|-----|------------|-----------|
| Course Code | Part | Course Category | Course Name | Hours/Week | Examination | | | Credits | |
| | | | | | Duration in Hours | Max. Marks | | | |
| | | | | | | CIA | ESE | | Total |
| 24TAM31L | I | Language - I | Tamil - III | 4 | 3 | 25 | 75 | 100 | 3 |
| 24HIN31L | | | Hindi - III | | | | | | |
| 24MAL31L | | | Malayalam - III | | | | | | |
| 24FRE31L | | | French - III | | | | | | |
| 24ENG32L | II | Language - II | English - III | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC33C | III | Core - V | Marketing Management | 6 | 3 | 25 | 75 | 100 | 4 |
| 24BBC34C | III | Core - VI | Operations and Materials Management | 6 | 3 | 25 | 75 | 100 | 4 |
| 24BBC35P | III | Core Lab - III | Business Intelligence and Reporting Lab | 4 | 3 | 40 | 60 | 100 | 2 |
| 24BBC36A | III | Allied - III | Business Regulatory Framework | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC37P | III | SEC - I | Banking Procedure | 2 | 3 | 40 | 60 | 100 | 2 |
| 24BAT3FC/ | IV | FC - III | Basic Tamil / | - | 2 | 50 | - | 50 | 2 |
| 24ADT3FC/ | | | Advanced Tamil | | | | | | |
| 24IKS3FC | | | Indian Knowledge Systems (IKS)* | | | | | | |
| 24MOO3AE | IV | AECC - III | Online Course - MOOC | - | - | 50 | - | 50 | 2 |
| Total | | | | 30 | | | | 800 | 25 |

| Semester – 4 | | | | | | | | | |
|--------------|------|------------------------------------|------------------------------------------------------|------------|-------------------|------------|-----|------------|-----------|
| Course Code | Part | Course Category | Course Name | Hours/Week | Examination | | | Credits | |
| | | | | | Duration in Hours | Max. Marks | | | |
| | | | | | | CIA | ESE | | Total |
| 24TAM41L | I | Language - I | Tamil - IV | 4 | 3 | 25 | 75 | 100 | 3 |
| 24HIN41L | | | Hindi - IV | | | | | | |
| 24MAL41L | | | Malayalam - IV | | | | | | |
| 24FRE41L | | | French - IV | | | | | | |
| 24ENG42L | II | Language - II | English - IV | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC43C | III | Core – VII | Human Resource Management | 6 | 3 | 25 | 75 | 100 | 4 |
| 24BBC44C | III | Core - VIII | Financial Management | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC45P | III | Core Lab - IV | Advanced Data Analytics for Business Decisions - Lab | 4 | 3 | 40 | 60 | 100 | 2 |
| 24BBC46A | III | Allied - IV | Quantitative Techniques for Management | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC47P | III | SEC - II | Retail Management-Lab | 2 | 3 | 40 | 60 | 100 | 2 |
| 24IDT4AE/ | IV | AECC - IV | Innovation and Design Thinking/ | 2 | 2 | - | 50 | 50 | 2 |
| 24IPR4AE/ | | | Intellectual Property Rights/ | | | | | | |
| 24END4AE | | | Entrepreneurship Development | | | | | | |
| 24EXC4LA | V | Extra-curricular and Co-curricular | Liberal Arts | - | - | 50 | - | 50 | 2 |
| Total | | | | 30 | | | | 800 | 24 |

| Semester – 5 | | | | | | | | | |
|--------------|------|-----------------|----------------------------------------------|------------|-------------------|------------|-----|------------|-----------|
| Course Code | Part | Course Category | Course Name | Hours/Week | Examination | | | | Credits |
| | | | | | Duration in Hours | Max. Marks | | | |
| | | | | | | CIA | ESE | Total | |
| 24BBC51C | III | Core - IX | Accounting for Managers - II | 6 | 3 | 25 | 75 | 100 | 4 |
| 24BBC52C | III | Core - X | Advertising and Sales Promotion | 5 | 3 | 25 | 75 | 100 | 4 |
| 24BBC53C | III | Core - XI | Research Methods for Management | 5 | 3 | 25 | 75 | 100 | 4 |
| 24BBC54C | III | Core - XII | Services Marketing | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC55C | III | Core - XIII | Taxation Law and Practice | 5 | 3 | 25 | 75 | 100 | 4 |
| 24BBC5AE | III | Elective - I | Customer Relationship Management (Marketing) | 5 | 3 | 25 | 75 | 100 | 3 |
| 24BBC5BE | | | Industrial Relations (Human Resource) | | | | | | |
| 24BBC5CE | | | Insurance Principles and Practice (Finance) | | | | | | |
| 24BBC56I | III | Internship | Internship | - | 2 | 50 | - | 50 | 2 |
| Total | | | | 30 | | | | 650 | 24 |

| Semester – 6 | | | | | | | | | |
|---------------------|------|-----------------|------------------------------------------------|------------|-------------------|------------|-----|-------------|------------|
| Course Code | Part | Course Category | Course Name | Hours/Week | Examination | | | Credits | |
| | | | | | Duration in Hours | Max. Marks | | | |
| | | | | | | CIA | ESE | | Total |
| | III | Core - XIV | Entrepreneurship and Small Business Management | 6 | 3 | 25 | 75 | 100 | 4 |
| | III | Core - XV | Business Correspondence | 6 | 3 | 25 | 75 | 100 | 4 |
| | III | Core - XVI | E-Commerce | 5 | 3 | 25 | 75 | 100 | 4 |
| | III | Elective - II | Consumer Behaviour (Marketing) | 5 | 3 | 25 | 75 | 100 | 3 |
| | | | Organisational Development (Human Resource) | | | | | | |
| | | | Investment Analysis (Finance) | | | | | | |
| | III | SEC - IV | Internet and Web Page Design - Lab | 2 | 3 | 40 | 60 | 100 | 2 |
| | III | Core | Project Work | 6 | 3 | 40 | 60 | 100 | 5 |
| Total | | | | 30 | | | | 600 | 22 |
| Grand Total | | | | 180 | | | | 4250 | 140 |

Semester – 1

| Semester - 1 | | | | | | | | | |
|--------------|------|-----------------|-----------------------------------------|------------|-------------------|------------|-----|------------|-----------|
| Course Code | Part | Course Category | Course Name | Hours/Week | Examination | | | Credits | |
| | | | | | Duration in Hours | Max. Marks | | | |
| | | | | | | CIA | ESE | | Total |
| 24TAM11L | I | Language - I | Tamil – I | 4 | 3 | 25 | 75 | 100 | 3 |
| 24HIN11L | | | Hindi – I | | | | | | |
| 24MAL11L | | | Malayalam - I | | | | | | |
| 24FRE11L | | | French – I | | | | | | |
| 24ENG12L | II | English - I | English – I | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC13C | III | Core - I | Principles of Management | 5 | 3 | 25 | 75 | 100 | 4 |
| 24BBC14C | III | Core - II | Accounting for Managers - I | 5 | 3 | 25 | 75 | 100 | 4 |
| 24BBC15P | III | Core Lab - I | Advanced Excel and Financial Modelling | 4 | 3 | 40 | 60 | 100 | 2 |
| 24BBC16A | III | Allied - I | Mathematics and Statistics for Business | 4 | 3 | 25 | 75 | 100 | 3 |
| 24ENV1FC | IV | FC - I | Environmental Studies | 2 | 2 | 50 | - | 50 | 2 |
| 24QUA1AE | IV | AECC - I | Quantitative Aptitude | 2 | 2 | - | 50 | 50 | 2 |
| Total | | | | 30 | | | | 700 | 23 |

Part – I : Language I-Tamil-I

(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours/ Week | Credits |
|-------------|-------------|--------------|-------------|---------|
| 24TAM11L | Tamil – I | Language - I | 4 | 3 |

Course Objectives

The course intends to cover

- இலக்கிய வளர்ச்சியை அறிந்துகொள்ளுதல்
- இலக்கியம் படைக்கும் திறன்
- இலக்கிய இலக்கண உரைசெய்தல்
- திறனாய்வு முறையினைக் கற்றுத்தேர்தல்

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | புதுக்கவிதையின் மூலம் வாழ்வியல் விழுமியங்களை உணர்ந்து கொள்ளுதல். | K1, K2 |
| CLO2 | சிறந்த மற்றும் வாழும் கவிஞர்களை அறிந்துகொள்ளுதல். | K2, K3 |
| CLO3 | சிறந்த படைப்பாளர்களின் சிறுகதையில் வெளிப்படும் சமூகச்சிந்தனைகளை அறிந்து விழிப்புணர்வைப் பெறுதல். | K3 |
| CLO4 | தற்கால இலக்கியங்களான புதுக்கவிதை, சிறுகதை தோன்றி வளர்ந்த பின்புலத்தை அறிதல். | K1, K3 |
| CLO5 | மொழியைப் பிழையின்றி பேச, எழுத, கற்கத் தேவையான தமிழ் இலக்கணத்தின் இன்றியமையாமையை உணர்தல். நடைமுறை வாழ்வியலுக்குத் தேவைப்படும் ஆங்கிலக் கடிதத்தைத் தமிழாக்கம் செய்தலுக்கான பயிற்சி பெறுதல். | K2, K3 |
| K1 - Remember; K2 - Understand; K3 – Apply | | |

Part – I: Language-I-Tamil – I

| Unit | Content | No. of Hours |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | <p>(நாட்டுப்பற்று)</p> <ol style="list-style-type: none"> 1. உலகத்தை நோக்கி வினவுதல் - பாரதியார் 2. பாரதிதாசன் கவிதைகள் - பாரதிதாசன் <ul style="list-style-type: none"> • தமிழ்ப்பேறு 3. ஒற்றுமையே உயிர்நிலை - கவிமணி 4. தேவதேவன் கவிதைகள் - தேவதேவன் <ul style="list-style-type: none"> • சாலையும் மரங்களும் செருப்பும் • புதிய வீடு 5. ஆலாபனை - கவிக்கோ அப்துல் ரகுமான் <ul style="list-style-type: none"> • போட்டி • பாதை 6. புத்தகச் சந்தை - கவிஞர் வாலி | 14 |
| II | <p>(சமூகம்)</p> <ol style="list-style-type: none"> 1. எட்டாவது சீர்..... - ஈரோடு தமிழன்பன் 2. தொலைந்து போனேன் - கவிஞர் தாமரை 3. திருநங்கைகள் காகிதப் பூக்கள் - நா. காமராசன் 4. மரங்களைப் பாடுவேன் - வைரமுத்து 5. புள்ளிப் பூக்கள் (ஹைக்கூ) - அமுத பாரதி 6. நாட்டுப்புறப் பாடல்கள் <ul style="list-style-type: none"> • தாலாட்டுப் பாடல், தெம்மாங்கு பாடல், உழவுத்தொழில் | 14 |
| III | <p>(சிறுகதை)</p> <ol style="list-style-type: none"> 1. அகல்யை - புதுமைப்பித்தன் 2. சுமைதாங்கி - ஜெயகாந்தன் 3. அம்மா ஒரு கொலை செய்தாள் - அம்பை 4. சோற்றுக் கணக்கு - ஜெயமோகன் 5. தூரத்து உறவு - வைரமுத்து | 12 |

| Unit | Content | No. of Hours |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| IV | (இலக்கிய வரலாறு) 1. மரபுக்கவிதையின் தோற்றமும் வளர்ச்சியும் 2. புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் 3. ஹைக்கூ கவிதையின் தோற்றமும் வளர்ச்சியும் 4. சிறுகதையின் தோற்றமும் வளர்ச்சியும் | 10 |
| V | (இலக்கணம்) 1. எழுத்துக்கள் (முதல் எழுத்துக்கள், சார்பெழுத்துக்கள்) 2. எழுத்துக்களின் பிறப்பு 3. மாத்திரைகள் 4. பயிற்சிக்குரியன - மொழிப்பெயர்ப்பு (ஆங்கிலத்திலிருந்து தமிழுக்கு மொழிப்பெயர்த்தல்) | 10 |
| Total | | 60 |

Reference Books

| | |
|----|----------------------------------------------------------------------------------------------------------|
| 1 | பாரதி பாடல்கள் ஆய்வுப் பதிப்பு, பேரா. ம ரா போ குருசாமி,(2016) தமிழ்ப் பல்கலைக் கழகம், தஞ்சாவூர் |
| 2 | ஆலாபனை, அப்துல் ரகுமான்,(2000) கவிக்கோ பதிப்பகம் |
| 3 | தாமரை கவிதைகள், தாமரை, (2012) நியூ செஞ்சரி புக ஹவுஸ் |
| 4 | தமிழ் இலக்கிய வரலாறு, மு வரதராசனார், (2021) சாகித்திய அகாதெமி பதிப்பு |
| 5 | புதிய வெளிச்சத்தில் தமிழ் இலக்கிய வரலாறு, முனைவர் க பஞ்சாங்கம், (2017) அன்னம் வெளியீட்டு |
| 6 | தமிழ் இலக்கிய வரலாறு, முனைவர் கா கோ வேங்கடராமன்,(2008) கலையக வெளியீடு |
| 7 | நல்ல தமிழ் எழுத வேண்டுமா?, அ கி பரந்தாமனார் எம். ஏ., (2002)அல்லி நிலையம் |
| 8 | 100 சிறந்த சிறுகதைகள் (தொகுதி 1 & 2) தொகுப்பு: எஸ் ராமகிருஷ்ணன் (2006) பதிப்பகம்: தேசாந்திரி பதிப்பகம் |
| 9 | தமிழ் இலக்கணம் எளிய அறிமுகம் , கோ குமரன் (2010) சந்தியா பதிப்பகம் |
| 10 | நாட்டுப்புற இயல் ஆய்வு, சு சக்திவேல்,(2012) மணிவாசகர் பதிப்பகம் |

Part – II : Language II - English -I
(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-------------|--------------|--------------|---------|
| 24ENG12L | English - I | Language- II | 4 | 3 |

Course Objectives

The course intends to cover

- Various genres of literature.
- Active and passive vocabulary.
- Usage of Grammar and Communication.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Identify aesthetic sense and appreciate poetry, enhancing creativity and understanding relevant to professional environments. | K1 |
| CLO2 | Understand diverse styles of prose, facilitating versatility in writing and inculcating interpersonal skills. | K2 |
| CLO3 | Apply the characters and the narrative techniques in creative writing and content creation ethically. | K3 |
| CLO4 | Employ vocabulary and grammatical proficiency in communication to enhance clarity in workplace interactions. | K3 |
| CLO5 | Enhance overall communication competence. Practicing these skills in combination reinforces learning and provides students with opportunities to use the language in authentic contexts. | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

Part - II: Language-II-English - I

| Unit | Content | No. of Hours |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Poetry : Nature 1. I Wandered Lonely as a Cloud - William Wordsworth 2. The Sparrow - Paul Laurence Dunbar 3. Stopping by woods on a snowy Evening – Robert Frost | 12 |
| II | Prose : Friendship 1. The Man in Black - Oliver Goldsmith 2. Of Friendship - Francis Bacon 3. The Blessing of Friends - Sir John Lubbock | 12 |
| III | Short Stories: Morality 1. The Necklace – Guy de Maupassant 2. The Lottery - Shirley Jackson 3. The Monkey’s Paw - W. W. Jacobs | 12 |
| IV | Language Competency: Vocabulary 1. Vocabulary : Synonyms, Antonyms, Word Formation 2. Appropriate use of Articles and Parts of Speech 3. Error correction | 12 |
| V | English for Communication 1. Listening for General and Specific Information. 2. Self - Introduction, Introducing others, Greetings. 3. Reading a prose passage, Reading a poem and Reading a short story 4. Descriptive writing – writing a short descriptive essay of two to three paragraphs. | 12 |
| Total Hours | | 60 |
| Text Books | | |
| 1. | Zama, M. (2004). Poetry Down the Ages. Orient Blackswan. | |
| 2. | Goldsmith, O. (1869). The Works of Oliver Goldsmith. J. Dicks | |
| 3. | Bacon, F., & Montagu, B. (1857). The Works of Francis Bacon (Vol. 1). Parry & McMillan. | |
| Reference Books | | |
| 1. | Kumar, V. T. Bhavani, Durga.K. Srinivas.YL. (2018). English in Use - A Textbook for College Students. (English, Paperback). | |
| 2. | Swan, M. (2005). Practical english usage (Vol. 7). Oxford: Oxford university press. | |
| Web Resources (SWAYAM / NPTEL) | | |
| 1. | https://nptel.ac.in/courses/109105205 | |

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|--------------------------|----------|--------------|---------|
| 24BBC13C | Principles of Management | Core - I | 5 | 4 |

Course Objectives

The Course intends to cover

- Management principles, concepts and process.
- Motivation theories, leadership styles, communication methods and barriers.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Remember the fundamentals of management. | K1 |
| CLO2 | Interpret planning, decision-making, and MBO principles for effective management. | K2 |
| CLO3 | Identify organising, delegating, and staffing principles in organisational management. | K2 |
| CLO4 | Apply directing, motivation, leadership styles, and communication strategies. | K3 |
| CLO5 | Comprehend controlling process, techniques, system requisites, and its relationship with planning and coordination in management. | K2 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

CLO -PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------------------------------|------|-------------------------|------|------|
| CLO1 | 1 | 1 | 1 | 2 | - |
| CLO2 | 1 | 3 | 2 | 1 | 2 |
| CLO3 | 1 | 2 | - | 1 | 1 |
| CLO4 | 1 | 3 | 3 | 1 | 1 |
| CLO5 | 1 | 2 | - | 1 | 1 |
| 3 - Substantial (High) | 2 - Moderate (Medium) | | 1 - Slight (Low) | | |

Core - I: Principles of Management

| Unit | Content | No. of Hours |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Overview of Management: Definition - Nature and Scope of Management - Functions of Management - Importance - Roles, responsibilities, and Skills of managers - Levels of Management - Functional areas of Management. Management thoughts: Contribution of F.W.Taylor, Henri Fayol, Elton Mayo. | 15 |
| II | Planning: Definition - Nature and purpose - Planning process - Importance of planning - Types of plans - Limitations - Management By Objectives - Decision making - Definition - Steps, process, and Types of decisions. | 13 |
| III | Organising: Definition - Types of organisations - Organisational structure - Span of control - use of staff units and committees. Delegation: Delegation and Centralisation, Centralisation and Decentralisation. Staffing: Sources of Recruitment - Selection Process - Training - Need - Types. | 16 |
| IV | Directing: Nature and purpose of Directing – Principles. Motivation: Definition - Theories of Motivation (Maslow's, McGregor's, ERG Theory, Herzberg's two factor theory). Leadership: Definition - Styles - Theories. Communication: Definition - Importance of Communication - Methods of Communication -Types - Barriers. | 16 |
| V | Controlling: Meaning and importance of controlling - Control process - Budgetary and Non-Budgetary Control Techniques - Requisites of an effective control system - Relationship between planning and controlling. Coordination - Need for Coordination. | 15 |
| Total Hours | | 75 |
| Text Books | | |
| 1 | Dinkar Pagare (2018), Principles of Management (6 th ed.), Sultan Chand & Sons. | |
| 2 | Stephen P.Robbins & Mary Coulter (2011), Management (11 th ed.), Prentice Hall of India. | |
| Reference Books | | |
| 1 | Harold Koontz, Heinz Weihrich & Mark V.Cannice (2020), Essentials of Management: An International Innovation and Leadership Perspective (11 th ed.), Tata McGraw Hill. | |
| 2 | P.C.Tripathi, P.N.Reddy & A.Bajpai (2021), Principles of Management (7 th ed.), Tata McGraw Hill. | |
| 3 | V.S.P.Rao & V.Harikrishna (2009), Management: Text and Cases, Excel Books. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc20_mg58/preview | |
| 2 | https://www.nptelvideos.com/lecture.php?id=1028 | |

| Course Code | Course Name | Category | Hours/ Week | Credits |
|-------------|-----------------------------|-----------|-------------|---------|
| 24BBC14C | Accounting for Managers - I | Core - II | 5 | 4 |

Course Objectives

The Course intends to cover

- Accounting fundamentals and principles in financial recording and reporting.
- Preparation of bank reconciliation statements and methods of depreciation.
- Preparation of final accounts, with adjustment entries for trading and non-trading concerns.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Remember fundamental accounting concepts, principles, and procedures to record financial transactions. | K1 |
| CLO2 | Understand double entry accounting, practical bookkeeping methods, error identification and rectification. | K2 |
| CLO3 | Prepare final accounts, including trading, profit and loss account, balance sheet, with adjustment entries, to present financial data effectively. | K3 |
| CLO4 | Analyse bank reconciliation statement and depreciation methods for precise financial management. | K4 |
| CLO5 | Understand final accounts of non-trading concerns, including income and expenditure statement, payments, and receipts. | K2 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 3 | 1 | - | 1 | 2 |
| CLO2 | 1 | 1 | - | 1 | 2 |
| CLO3 | 2 | 2 | 2 | 1 | 2 |
| CLO4 | 1 | 2 | 2 | 1 | 2 |
| CLO5 | 2 | 2 | 2 | 1 | 2 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - II: Accounting for Managers - I

| Unit | Content | No. of Hours |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Accounting: Objectives, Scope, Principles, Branches of accounting, Uses & Limitations, Concepts & Conventions. Accounting Equations: Meaning of accounting equation, compensation of accounting, effects of transactions. Basic Accounting Procedure: Journal entry, rules of debit & credit, methods - Double entry system - its advantage, ledger, meaning, utility, posting entries. (Theory 40 % and Problems 60%). | 16 |
| II | Bookkeeping: Cashbook, types of cash book, Single column and double column entries, Trial Balance, Objective, preparation, errors & rectification. Suspense Accounting: Meaning, utility & preparation. Accounting Errors: Meaning and Types of errors, Rectification of errors. (Only Problems). | 14 |
| III | Final Accounts: Meaning, need & objectives, types - Manufacturing Account - Trading Account - Profit & Loss Account - Balance Sheet - Problems with Simple Adjustments. (Only Problems). | 15 |
| IV | Bank Reconciliation Statement (BRS): Meaning, causes of differences, need & importance, preparation & presentation of BRS. Depreciation: Meaning, Methods of charging depreciation. (Only Problems). | 13 |
| V | Accounting for Non-trading concerns: Characteristics of Non-trading concerns - Differences between Trading and Non-trading Institutions - Income & Expenditure Account - Receipts & Payments Account and Balance Sheet. (Theory 20 % and Problems 80%). | 17 |
| Total Hours | | 75 |
| Text Books | | |
| 1 | T.S.Reddy & A.Murthy (2012), Financial Accounting, Margham Publications. | |
| 2 | S.P.Jain (2021), Advanced Accountancy, Kalyani Publishers. | |
| Reference Books | | |
| 1 | R.L.Gupta & V.K.Gupta (2021), Financial Accounting, Sultan Chand & Sons. | |
| 2 | S.N.Maheshwari (2018), Financial Accounting (6 th ed.), Vikas Publishing House. | |
| 3 | M.C.Shukla, S.C.Gupta & T.S.Grewal (2019), Financial Accounting, S. Chand Publishing. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://swayam.gov.in/nd2_cec20_mg23/preview | |

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|----------------------------------------|--------------|--------------|---------|
| 24BBC15P | Advanced Excel and Financial Modelling | Core Lab - I | 4 | 3 |

Course Objectives

The course intends to cover

- Advanced features and functions of Microsoft Excel for data analysis and financial modelling.
- Basic finance concepts and their applications in Excel-based financial analysis and modeling.
- Use of Generative AI tools to enhance productivity and insights in Excel.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Demonstrate proficiency in using Advanced Excel features and functions for data analysis and manipulation. | K3 |
| CLO2 | Analyse and interpret financial data, perform sensitivity analysis, and make data-driven decisions using Excel. | K4 |
| CLO3 | Use Generative AI tools in Excel to automate tasks, gain insights, and enhance productivity. | K3 |
| CLO4 | Understand and apply basic finance concepts and terminology in the context of financial analysis. | K2 |
| CLO5 | Build basic financial models in Excel, incorporating assumptions, inputs, and forecasting techniques. | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 3 | 2 | 1 | 1 | 2 |
| CLO2 | 3 | 2 | 2 | 2 | 3 |
| CLO3 | 3 | 2 | 2 | 2 | 2 |
| CLO4 | 2 | 2 | 2 | 2 | 2 |
| CLO5 | 2 | 2 | 1 | 2 | 2 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core Lab - I: Advanced Excel and Financial Modelling

| Unit | Content | No. of Hours |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Introduction to Excel: Interface, Navigation, and Basic Functions - Data Types and Formatting - Formulas and Functions - Relative and Absolute Cell Referencing - Conditional Formatting - Data Validation - Charts and Graphs. Advanced Functions (VLOOKUP, HLOOKUP, INDEX, MATCH) | 13 |
| II | Advanced Excel: Data Manipulation (Sort, Filter, Subtotal, Pivot Tables) - Data Analysis (Goal Seek, Scenario Manager, Data Tables) - Excel Shortcuts and Productivity Tips. Array Formulas - Named Ranges and Dynamic Named Ranges - Excel Tables – Recording and Running Macros - Introduction to Excel VBA - User Forms and Controls - Excel Add-ins and Customization. | 15 |
| III | Generative AI Tools in Excel: Introduction to Generative AI - AI-powered Data Analysis and Insights - Automating Tasks with AI-driven Macros - Best Practices and Limitations of AI in Excel. Introduction to Finance: Basic Financial Concepts and Terminology - Understanding Financial Statements (Balance Sheet, Income Statement, Cash Flow Statement) - Ratios and Financial Analysis - Time Value of Money Concepts. | 12 |
| IV | Excel for Financial Analysis: Financial Functions (PV, FV, NPV, IRR) - Loan and Investment Calculations - Depreciation Schedules - Sensitivity Analysis (Goal Seek, Data Tables) | 10 |
| V | Basic Financial Modelling: Purpose and Structure of Financial Models - Building a Basic Financial Model in Excel - Assumptions and Inputs - Forecasting Techniques - Scenario Analysis and Sensitivity Testing. | 10 |
| Total Hours | | 60 |
| Text Books | | |
| 1 | Greg Harvey (2021), Excel 2021 All-in-One for Dummies, Wiley. | |
| 2 | Michael Alexander, John Walkenbach, Dick Kusleika & Caryn Cox (2018), Microsoft Excel 2019 Bible, Wiley. | |
| Reference Books | | |
| 1 | Wayne L.Winston (2019), Microsoft Excel Data Analysis and Business Modeling (6 th ed.), Microsoft Press. | |
| 2 | Timothy R.Mayes & Todd M.Shank (2020), Financial Analysis with Microsoft Excel (9 th ed.), Cengage Learning. | |
| 3 | Alastair Day (2012), Mastering Financial Modelling in Microsoft Excel: A Practitioner's Guide to Applied Corporate Finance (3 rd ed.), FT Press. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc22_mg35/preview | |

Core Lab - I: Advanced Excel and Financial Modelling

List of Practicals

1. Calculate total sales for a week using SUM, average daily sales using AVERAGE, and highest sales using MAX. Use formulas to calculate simple arithmetic operations. Include more complex functions like IF, COUNTIF, and nested functions.
2. Create a budget spreadsheet: use relative and absolute references to calculate total costs by applying discounts/taxes to different items. Include exercises on using named ranges and dynamic references in complex formulas.
3. Highlight cells in a sales report that meet certain criteria (e.g., sales > \$1000). Use colour scales and data bars to visually represent data trends. Set up data validation rules for a data entry form: restrict entries to certain dates, create drop-down lists, and validate numeric ranges.
4. Create a sales performance chart: use different types of charts (bar, line, pie) to represent data visually. Customize chart elements like titles, legends, and data labels. Create advanced chart types like combo charts and use Sparkline's for data visualization.
5. Use VLOOKUP to find prices of products in a list and HLOOKUP to retrieve student grades from a table based on different criteria.
6. Sort and filter a list of employees based on department and salary. Use subtotals to summarize data. Create pivot tables for detailed analysis. Include exercises on grouping data, creating calculated fields/items, and using slicers for interactive analysis.
7. Open Excel and navigate to the Power Query editor. Familiarize with the Power Query interface: ribbon, query pane, and data preview area. Import data from various sources such as an Excel file, CSV file, and a web page. Combine multiple data sources into a single query.

Data Cleaning and Transformation: Remove unnecessary columns and rows. Filter data based on specific criteria (e.g., date ranges, text values). Split columns by delimiter and merge columns.

Data Aggregation: Group data by specific columns and perform aggregation functions like sum, average, count, etc. Un-pivot data to transform it into a more suitable format for analysis. Merge queries to combine related data from different sources. Append queries to stack data from multiple tables or files.
8. Record and run macros to automate repetitive tasks. Introduction to VBA: create simple VBA scripts to enhance Excel functionality. Include exercises on using VBA to automate data cleaning, report generation, and interactive user forms.
9. Use financial functions (PV, FV, NPV, IRR) to perform loan and investment calculations. Create depreciation schedules and perform sensitivity analysis using Goal Seek and Data Tables. Include exercises on creating financial models and using Excel for financial forecasting.
10. Build a basic financial model in Excel: define assumptions, inputs, and outputs. Perform scenario analysis and sensitivity testing. Include exercises on creating dynamic models with linked inputs and automated summary reports.

| Course Code | Course Name | Category | Hours/ Week | Credits |
|-------------|-----------------------------------------|------------|-------------|---------|
| 24BBC16A | Mathematics and Statistics for Business | Allied - I | 4 | 3 |

Course Objectives

The Course intends to cover

- The applications of Mathematics and Statistical techniques in business decisions.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Remember the concepts of matrix and its types, operations to change pixel levels in multimedia. | K1 |
| CLO2 | Understand the concept of set theory and financial methods to calculate various types of interest. | K2 |
| CLO3 | Relate the various statistical measures to interpret data obtained from a sample or population. | K4 |
| CLO4 | Apply measures of variation to find fluctuation in stock prices. | K3 |
| CLO5 | Interpret weather conditions and measure the variations in inflation and cost of goods using index numbers. | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

CLO - PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 1 | 2 | 1 | 2 | 1 |
| CLO2 | 2 | 2 | 1 | 2 | 1 |
| CLO3 | 2 | 2 | 1 | 2 | - |
| CLO4 | 2 | 2 | 1 | 2 | 1 |
| CLO5 | 2 | 2 | 1 | 2 | 1 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Allied - I: Mathematics and Statistics for Business

| Unit | Content | No. of Hours |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Matrices: Fundamental ideas about Matrices and their operational rules - Rank of a Matrix - Inverse of a Matrix - Solving system of simultaneous linear equations. | 12 |
| II | Set theory: Introduction - Types of Sets - Set operation - Venn Diagrams - Mathematics of Finance - Simple and Compound Interest. | 12 |
| III | Statistics: Meaning and Definitions - Scope and Limitations. Collection of data: Primary data and Secondary data - Presentation of data by Diagrammatic and Graphical Method - Measures of Central tendency: Arithmetic Mean, Median and Mode. | 12 |
| IV | Measures of Variation: Standard deviation, Mean deviation and Quartile deviation - Coefficient of variation - Simple Correlation - Karl Pearson's Co-efficient of correlation - Spearman's Rank correlation. | 12 |
| V | Analysis of Time Series: Methods of Measuring Trends - Semi average method - Moving average method - Index number - Unweighted and Weighted indices - Tests of index numbers - Cost of living index number. | 12 |
| Total Hours | | 60 |

Text Books

| | |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | P.A. Navnitham(2005). Business Mathematics and Statistics, Jai Publishers. Unit I : Chapter 2 Page No. 147 - 200 Unit II : Chapter 1 Page No. 43 - 61 & 104 - 138 Unit III : Chapter 1 Page No. 1- 250 Unit IV : Chapter 2 Page No. 301 -368 Chapter 3 Page No. 503 - 522 Unit V : Chapter 4 Page No. 444 - 482 Chapter 5 Page No. 579 - 607 |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Reference Books

| | |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Sundaresan, Jayaseelan (2010), An Introduction to Business Mathematics, S.Chand & Company Ltd. |
| 2 | P.R.Vittal (2003), Business Mathematics, Margham Publications. |
| 3 | S.P. Rajagopalan, R.Sattanathan (2009), Business Statistics and Operation Research, Tata McGraw Hill Publishing Company Ltd., 2 nd edition. |
| 4 | Richard Levin., David Rubin (2008), Statistics for Management, Prentice Hall. |

Web Resources (SWAYAM / NPTEL)

| | |
|---|-------------------------------------------------------------------------------------------|
| 1 | https://nptel.ac.in/courses/111105124 |
|---|-------------------------------------------------------------------------------------------|

Components for Internal Assessment and Distribution of Marks for CIA and ESE (Theory)

| Max. Marks | Marks for | | Components for CIA | | | | | | | | | |
|------------|-----------|-----|--------------------|-----------|----------|-----------|------------------------|--------|-----------|------------|-------------------|-------|
| | CIA | ESE | CIA – I | | CIA – II | | Best of CIA-I & CIA-II | Model | | Attendance | Active Engagement | Total |
| 100 | 25 | 75 | Actual | Weightage | Actual | Weightage | Weightage | Actual | Weightage | 5 | 5 | 25 |
| | | | 50 | 5 | 50 | 5 | 5 | 75 | 10 | | | |

Question Paper Pattern

| Component | Duration in Hrs. | Section A | | | Section B | | | Section C | | | Total |
|-----------------|------------------|------------------|------------------|---------|------------------|------------------|--------|------------------|------------------|--------|-------|
| | | Type of question | No. of questions | Marks | Type of question | No. of questions | Marks | Type of question | No. of questions | Marks | |
| CIA – I & II | 2 | MCQ | 8 | 8x1=8 | Either or | 3 | 3x6=18 | Either or | 3 | 3x8=24 | 50 |
| Model Exam /ESE | 3 | MCQ | 10 | 10x1=10 | Either or | 5 | 5x5=25 | Either or | 5 | 5x8=40 | 75 |

Components for Internal Assessment and Distribution of Marks for CIA (Lab)

| Max. Marks | Marks for | | Components for CIA | | | | | | | |
|------------|-----------|-----|--------------------|-----------|-----------|-----------|--------|-----------|-------------|-------|
| | CIA | ESE | Test - I | | Test - II | | Model | | Observation | Total |
| 100 | 40 | 60 | Actual | Weightage | Actual | Weightage | Actual | Weightage | 5 | 40 |
| | | | 50 | 10 | 50 | 10 | 60 | 15 | | |

Examination Pattern

| Component | Duration in Hrs. | Marks | | | Weightage |
|-----------|------------------|-----------|--------|-------------|-----------|
| | | Practical | Record | Total Marks | |
| Test - I | 2 | 50 | - | 50 | 10 |
| Test - II | 2 | 50 | - | 50 | 10 |
| Model | 3 | 60 | - | 60 | 15 |
| ESE | 3 | 50 | 10 | 60 | - |

Part – IV : Foundation Course

(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-----------------------|----------|--------------|---------|
| 24ENV1FC | Environmental Studies | FC- I | 2 | 2 |

| Unit | Content |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I | The Multidisciplinary nature of environmental studies Definition; Scope and importance, Need for public awareness. |
| II | <p>Natural Resources: Renewable and non-renewable resources: Natural resources and associated problems.</p> <ul style="list-style-type: none"> - Forest resources: Use and Over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people. - Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams benefits and problems. - Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. - Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. - Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, Case studies. - Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. <p>Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles.</p> |
| III | <p>Ecosystems</p> <ul style="list-style-type: none"> - Concept of an ecosystem. - Structure and function of an ecosystem. - Producers, consumers and decomposers. - Energy flow in the ecosystem. - Ecological succession. - Food chains, food webs and ecological pyramids. - Introduction, types, characteristic features, structure and function of the following ecosystem: - <ol style="list-style-type: none"> a. Forest ecosystem b. Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries). |

| Unit | Content |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IV | <p style="text-align: center;">Biodiversity and its Conservation</p> <ul style="list-style-type: none"> - Introduction-Definition: genetic, species and ecosystem diversity. - Bio geographical classification of India. - Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values. - Biodiversity at global, National and local levels. - India as a mega-diversity nation. - Hot-spots of biodiversity. - Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts. - Endangered and endemic species of India. - Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. |
| V | <p>Environmental Pollution Definition</p> <ul style="list-style-type: none"> - Causes, effects and control measures of: - <ul style="list-style-type: none"> a. Air pollution b. Water pollution c. Soil pollution d. Marine pollution e. Noise pollution f. Thermal pollution g. Nuclear hazards - Solid waste Management: Causes, effects and control measures of urban and industrial wastes. - Role of an individual in prevention of pollution. - Pollution case studies. - Disaster management: floods, earthquake, cyclone and landslides. |
| VI | <p>Social Issues and the Environment</p> <ul style="list-style-type: none"> - From Unsustainable to Sustainable development. - Urban problems related to energy. - Water conservation, rain water harvesting, watershed management. - Resettlement and rehabilitation of people; its problems and concerns. Case studies. - Environmental ethics: Issues and possible solutions. - Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies. - Wasteland reclamation. - Consumerism and waste products. - Environment Protection Act. - Air (Prevention and Control of Pollution) Act. - Water (Prevention and Control of Pollution) Act. - Wildlife Protection Act. - Forest Conservation Act. - Issues involved in enforcement of environmental legislation. - Public awareness. |

| Unit | Content |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VII | <p>Human Population and the Environment</p> <ul style="list-style-type: none"> - Population growth, variation among nations. - Population explosion-Family welfare Programme. - Environment and human health. - Human Rights. - Value Education. - HIV/AIDS. - Women and Child Welfare. - Role of information Technology in Environment and human health. - Case Studies. |
| VIII | <p>Field Work (Practical).</p> <ul style="list-style-type: none"> - Visit to a local area to document environmental assets-river/forest/grassland/ hill/mountain. - Visit to a local polluted site-Urban/Rural/Industrial/Agricultural. - Study of common plants, insects, birds. - Study of simple ecosystems-pond, river, hill slopes, etc. |
| Total Hours. 30 | |

Web Resources

| | |
|----|---------------------------------------------------------------------------------------------------------------------------|
| 1. | https://www.ugc.gov.in/oldpdf/modelcurriculum/env.pdf |
|----|---------------------------------------------------------------------------------------------------------------------------|

**Components for Internal Assessment and
Distribution of Marks for CIA (Theory)**

| Max Marks | Marks for | | Components for CIA | | | | | | | |
|-----------|-----------|-----|--------------------|-----------|----------|-----------|------------------------|--------|-----------|----------------------|
| | CIA | ESE | CIA – I | | CIA – II | | Best of CIA-I & CIA-II | Model | | Total (Best + Model) |
| 50 | 50 | - | Actual | Weightage | Actual | Weightage | Weightage | Actual | Weightage | 50 |
| | | | 50 | 25 | 50 | 25 | 25 | 50 | 25 | |

Question Paper Pattern

| Duration in Hrs. | Mode of Exam | Type of Questions | No. of Questions | Marks |
|------------------|--------------|-------------------|------------------|-----------|
| 2 | Offline | Open Choice | 5 (Out of 8) | 5 x 10=50 |

Part – IV : Ability Enhancement Compulsory Courses

(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours | Credits |
|-------------|-----------------------|----------|-------|---------|
| 24QUA1AE | Quantitative Aptitude | AECC - I | 2 | 2 |

Course Objectives

The course intends to cover

- Basic concepts of numbers, time and work, interests, data representation and graphs
- Concepts of permutation, probability, discounts, percentage & profit loss.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Remember and Understand the concepts of numbers and average | K1, K2 |
| CLO2 | Understand about percentage and apply profit & loss related processing. | K2, K3 |
| CLO3 | To understand the concepts of time and work and interest calculations. | K2 |
| CLO4 | To understand about the concepts of permutation, combination and probability. | K2 |
| CLO5 | Understand , Apply and analyze the concept of problem solving involved in graphs and age. | K2,,K3,K4 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 -Analyze | | |

Ability Enhancement Compulsory Course - I: Quantitative Aptitude

| Unit | Content | No. of Hours |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Numbers - Simplification - BODMAS rule - Algebraic formulas - Decimal fractions - Square root and cube roots - Surds and indices - Divisibility rules - HCF and LCM - same remainder - different remainder - application problems – average – equation - mistaken value – replacement - including/excluding. | 6 |
| II | Percentage - increase/decrease – net change – salary – election – marks – consumption - population / machine - profit and loss - profit and loss % - finding cp and sp - profit=loss - same product cp and sp with percentage – discount - ratio and proportion - divided into parts - based on numbers - increase/decrease/ income / expenditure – coins – partnership. | 6 |
| III | Time-and-work - individual/combined - alternative days - remaining work - efficiency based - amount split - chain rule - group of male and female or boys - pipes and cistern - finding time - efficiency based – alternative - remaining part - capacity of the tank - simple interest - finding principal - rate of interest – amount -time period - doubles or triples - compound interest - finding rate - finding time, principal - doubles or triples - difference between SI and CI. | 6 |
| IV | Permutation - finding value - vowels come together - vowel never comes together - some letters come together - no two vowels come together - vowels in odd/even places - based on repetition - circular permutation – application – combination - finding value and application – probability – coins - dice-cards - balls and miscellaneous problems - odd man out and number series. | 6 |
| V | Clock - finding angle - reflex angle - gain or loss – calendars - finding particular day - data interpretation - bar chart - line chart - pie chart – table – combined – ages ratio - twice or thrice - addition /subtraction - family based - problems on numbers - equations. | 6 |
| Total Hours | | 30 |
| Text Book | | |
| 1. | R.S. Aggarwal , Quantitative Aptitude, S.Chand & Company Ltd., | |
| Reference Book | | |
| 1. | Ashish Arora, Quantitative Aptitude. | |
| Web Resources | | |
| 1. | https://www.javatpoint.com/aptitude/quantitative | |
| 2. | https://www.indiabix.com/aptitude/questions-and-answers/ | |

Components for and Distribution of Marks for ESE (Theory)

Ability Enhancement Compulsory Course(AECC)

| Duration in Hrs. | Mode of exam | Type of questions | No. of questions | Marks |
|------------------|--------------|-------------------|------------------|---------|
| 2 | Online | MCQ | 50 | 50x1=50 |



Semester – 2

| Semester - 2 | | | | | | | | | |
|--------------|------|-----------------|----------------------------|------------|-------------------|------------|-----|------------|-----------|
| Course Code | Part | Course Category | Course Name | Hours/Week | Examination | | | Credits | |
| | | | | | Duration in Hours | Max. Marks | | | |
| | | | | | | CIA | ESE | | Total |
| 24TAM21L | I | Language - II | Tamil - II | 4 | 3 | 25 | 75 | 100 | 3 |
| 24HIN21L | | | Hindi - II | | | | | | |
| 24MAL21L | | | Malayalam - II | | | | | | |
| 24FRE21L | | | French - II | | | | | | |
| 24ENG22L | II | English - II | English - II | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC23C | III | Core - III | Organisational Behaviour | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC24C | III | Core - IV | Business Environment | 6 | 3 | 25 | 75 | 100 | 4 |
| 24BBC25P | III | Core Lab - II | Data Analytics in Business | 4 | 3 | 40 | 60 | 100 | 2 |
| 24BBC26A | III | Allied - II | Economics for Executives | 4 | 3 | 25 | 75 | 100 | 3 |
| 24HUM2FC | IV | FC - II | Human Rights | 2 | 2 | 50 | - | 50 | 2 |
| 24SOF2AE | IV | AECC - II | Soft Skills | 2 | 2 | - | 50 | 50 | 2 |
| Total | | | | 30 | | | | 700 | 22 |

Part – I: Language-I-Tamil – II

(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|-------------|--------------|------------|---------|
| 24TAM21L | Tamil – II | Language - I | 4 | 3 |

Course Objectives

The Course intends to cover

- தமிழ் இலக்கியம் கற்பதன் மூலம் நாகரிகம் மற்றும் பண்பாட்டைப் புரிந்துகொள்ளுதல்.
- தனிப்பட்ட வளர்ச்சி, படைப்பாற்றல் திறனை வளர்த்தல்.
- வாழ்வியல் அறங்களைக் கற்றல் மற்றும் வாழ்வைச் செழுமையாக்க உதவும் நன்னெறிகளை அறிதல்.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|-----------------------------------------------------------------------------------|-----------------|
| CLO1 | அற இலக்கியங்கள் வழி வாழ்வியல் ஒழுக்கங்களைக் கற்றுத் தருதல். | K1, K2 |
| CLO2 | பக்தி இலக்கியங்கள் வழி பக்தி நெறிகளை உணர்த்துதல். | K2 |
| CLO3 | தமிழில் உரைநடை இலக்கியப் படைப்பாளர்களின் சிந்தனைகளை எடுத்துரைத்தல். | K3 |
| CLO4 | தமிழ் இலக்கிய வரலாற்றில் அற இலக்கியம் மற்றும் உரைநடையின் தாக்கம் குறித்து அறிதல். | K1, K3 |
| CLO5 | பிழையின்றி எழுத இலக்கணங்களைக் கற்றுத் தருதல். | K2, K3 |
| K1 - Remember; K2 - Understand; K3 – Apply | | |

Part – I: Language-I-Tamil – II

| Unit | Content | No. of Hours |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | (அறம்) 1. திருக்குறள் • புகழ் • வினை செயல்வகை • நெஞ்சொடு கிளத்தல் 2. திரிகடுகம்(தேர்ந்தெடுக்கப்பட்ட 10 பாடல்கள்) 3. பழமொழி நானூறு(தேர்ந்தெடுக்கப்பட்ட 10 பாடல்கள்) | 14 |
| II | (பக்தி) 1. அபிராமி அந்தாதி(10 பாடல்கள்) - அபிராமி பட்டர் 2. உமர்கயாம் பாடல்கள் (தனிப்பாடல்கள்) - கவிமணி தேசிய விநாயகம் பிள்ளை 3. முத்துக்குமாரசாமி பிள்ளைத்தமிழ்(தாலப் பருவம்) – குமரகுருபரர் 4. இயேசுகாவியம் - மலைப்பொழிவு - கண்ணதாசன் 5. சித்தர் பாடல்கள் - சிவவாக்கியர் பாடல் | 14 |
| III | (கலை மற்றும் பண்பாடு) 1. அறம் எனப்படுவது - அமுதன் 2. ஏட்டில் எழுதா இலக்கியம் - ஒளவை துரைச்சாமி 3. கீழடி - தொல்லியல் துறை, வெளியீடு 4. மனம் எனும் சொர்க்கவாசல் - டாக்டர் எம்.எஸ்.உதயமூர்த்தி 5. ஆளுமைத் திறன் - அறிவுக்கதிர் (அரசுப்பணி சிறப்பிதழ்) | 12 |
| IV | (இலக்கிய வரலாறு) 1. பதினெண் கீழ்க்கணக்கு நூல்கள் 2. உரைநடையின் தோற்றமும் வளர்ச்சியும் | 10 |
| V | (இலக்கணம்) 1. சொல்லின் வகைகள் 2. வேற்றுமைத் தொகைகள் 3. பயிற்சிக்குரியன:(விண்ணப்பங்கள், மடல்கள் எழுதச் செய்தல்) | 10 |
| Total Hours | | 60 |

Reference Books

| | |
|----|------------------------------------------------------------------------------------------|
| 1 | முத்துக்குமாரசாமி பிள்ளைத்தமிழ்,(2021) கமலா முருகன், சாரதா பதிப்பகம் |
| 2 | இயேசு காவியம், கவிஞர் கண்ணதாசன்,(2006) கலைக்காவிரி பதிப்பகம் |
| 3 | உரைகளும் உரையாசிரியர்களும்,(2013) தி சு நடராசன் நியூ செஞ்சுரி புக் ஹவுஸ் |
| 4 | அபிராமி அந்தாதி, முனைவர் சி சேதுராமன்,(2010) நியூ செஞ்சுரி புக் ஹவுஸ் |
| 5 | புதிய வெளிச்சத்தில் தமிழ் இலக்கிய வரலாறு, முனைவர் க பஞ்சாங்கம், (2017) அன்னம் வெளியீட்டு |
| 6 | தமிழ் இலக்கிய வரலாறு, மு வரதராசனார்,(2021) சாகித்ய அகாடமி பதிப்பு |
| 7 | தமிழ் உரைநடை வரலாறு, வி செல்வநாயகம்,(2003) அடையாளம் பதிப்பகம் |
| 8 | தமிழ் இலக்கிய வரலாறு, முனைவர் கா கோ வேங்கடராமன்,(2010) கலையக வெளியீடு |
| 9 | எண்ணங்கள் - டாக்டர் எம் எஸ் உதயமூர்த்தி,(2016) வெளியீடு: கங்கை புத்தக நிலையம், சென்னை |
| 10 | அடோன் தமிழ் இலக்கணம், புலவர் பொன்மணிமாறன்,(2011) அருண் பப்ளிஷிங் |

Part – II : Language-II-English - II
(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours/ Week | Credits |
|-------------|-------------|---------------|-------------|---------|
| 24ENG22L | English-II | Language - II | 4 | 3 |

Course Objectives

The course intends to cover

- The literary elements in poetry.
- The critical contemplation and writing in styles of prose texts.
- The modernist techniques and ethics in the narratives of short stories.
- The interpersonal skills essential in the work environment.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Identify the common techniques underlying free verse and traditional forms of poetry for crafting poems. | K1 |
| CLO2 | Understand humour in prose texts psychologically to master the oratory skills. | K2 |
| CLO3 | Employ empathy and morale in diplomatic Day-to-day circumstances. | K3 |
| CLO4 | Strengthen the writing skills for documentation. | K3 |
| CLO5 | Persist flexibility and mobility in the sequel LSRW. | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

Part - II: Language-II-English - II

| Unit | Content | No. of Hours |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Poetry: Motherhood 1. My Grand Mother's House – Kamala Das 2. Of mother, among others things – A.K Ramanujan 3. Night of the Scorpion – Nissim Ezekiel | 12 |
| II | Prose: Humour 1. With The Photographer – Stephen Leacock 2. Travel by Train – J.B.Priestley 3. On Forgetting – Robert Lynd | 12 |
| III | Short Stories: Integrity 1. The taxi driver – K.S. Duggal 2. A Retrieved Reformation- O Henry 3. Kabuliwala - Rabindranath Tagore | 12 |
| IV | Language Competency: Vocabulary 1. Homonyms, Homophones, Homographs Portmanteau words 2. Verbs and Tenses, Subject Verb Agreement 3. Error correction Vocabulary : Synonyms, Antonyms, Word Formation | 12 |
| V | English for Communication 1. Listening with courtesy and adding ideas and giving opinions during the meeting and making concluding remarks 2. Participating in a meeting: face to face and online 3. Reading news and weather reports 4. Preparing first drafts of short assignments | 12 |
| Total Hours | | 60 |

Text Books

1. Ezekiel Nissim, 1989 .Collected Poems 1952-1988. Oxford University Press.
2. Hewings, M. (2000). Advanced English Grammar. Cambridge. University Press.

Reference Books

1. Bakshi, S.P. & Sharma, R. (2019). Descriptive English. Arihant Publications (India) Ltd.
2. Cameron S & Dempsey L. (2019). The Reading Book: A Complete Guide to Teaching Reading. S & L. Publishing.
3. Sherman B. (2014) Skimming and Scanning Techniques. Liberty University Press.

Web Resources (SWAYAM / NPTEL)

1. <https://nptel.ac.in/courses/109103020>

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|--------------------------|------------|--------------|---------|
| 24BBC23C | Organisational Behaviour | Core - III | 4 | 3 |

Course Objectives

The Course intends to cover:

- The importance and scope of organisational psychology, perception, motivation techniques, and transactional analysis.
- Morale, Attitude, Group dynamics, counseling, and their impact on employee productivity.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand organisational psychology principles, individual differences, applications of intelligence and personality tests. | K2 |
| CLO2 | Identify perception, motivation, Transactional Analysis, and brainstorming techniques for effective organisational dynamics. | K2 |
| CLO3 | Apply the concepts of job satisfaction, morale, employee attitudes, and job enrichment/enlargement for enhanced organisational productivity. | K3 |
| CLO4 | Understand group dynamics, conflict resolution, sociometry, norms, and supervision for enhanced team cohesion. | K2 |
| CLO5 | Interpret leadership and counseling concepts for organisational effectiveness. | K2 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

CLO - PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 3 | 1 | 1 | 1 | 1 |
| CLO2 | 2 | 2 | 1 | 1 | 1 |
| CLO3 | 2 | 2 | 1 | 1 | - |
| CLO4 | 2 | 2 | 1 | 1 | - |
| CLO5 | 2 | 3 | 1 | 1 | 1 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core: III - Organisational Behaviour

| Unit | Content | No. of Hours |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Organisational Behaviour: Introduction, importance and scope of organisational behaviour - Individual differences. Intelligence tests: Measurement of intelligence, types, and applications. Personality tests: nature, types and uses. | 12 |
| II | Perception: Perceptual process - Factors affecting perception. Motivation: financial and non-financial motivation - techniques of motivation - Transactional Analysis - Brain storming. | 12 |
| III | Job Satisfaction: Meaning - factors, Morale - importance - Employee attitude and behaviour and their significance to employee productivity - Job enrichment - Job enlargement. | 12 |
| IV | Hawthorne Experiment: Importance. Group Dynamics: Cohesiveness. Conflict: Types of Conflict - Resolution of conflict - Sociometry - Group norms - Supervision - style - Training for supervisors. | 12 |
| V | Leadership: Styles - types - theories - Trait, Managerial Grid, Fiedler's contingency. Counseling: Meaning - Importance of counselor - types of counseling - Merits of counseling. | 12 |
| Total Hours | | 60 |
| Text Books | | |
| 1 | L.M.Prasad (2019), Organisational Behaviour (6 th Revised ed.), Sultan Chand and Sons. | |
| 2 | S.S.Khanka (2020), Organisational Behaviour (Text and Cases) (4 th ed.), S. Chand. | |
| 3 | C.B.Gupta (2020), A Textbook of Organisational Behaviour, S.Chand and Company Limited. | |
| Reference Books | | |
| 1 | Stephen P.Robbins, Timothy A.Judge & Neharika Vohra (2022), Organisational behaviour (18 th ed.), Pearson Education. | |
| 2 | K.Aswathappa (2023), Organisational Behaviour (14 th ed.), Himalaya Publishing House. | |
| 3 | Fred Luthans, Brett C.Luthans & Kyle W.Luthans (2021), Organisational Behaviour: An Evidence Based Approach (14 th ed.), McGraw Hill Education. | |
| 4 | D.Prabha, K.Vishnupriya, P.Manonmani & S.Vaishnavi (2023), Organizational Behaviour (1 st ed.). REST Publishers. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.swayam2.ac.in/cec24_mg01/preview | |
| 2 | https://onlinecourses.swayam2.ac.in/imb24_mg48/preview | |

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|----------------------|-----------|--------------|---------|
| 24BBC24C | Business Environment | Core - IV | 6 | 4 |

Course Objectives

The Course intends to cover:

- The fundamental concepts, forms of business, economic systems, internal and external environment.
- Impact of LPG on business, trading blocks, and international environment.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Remember the nature of business, forms of business organisations, and environmental factors. | K1 |
| CLO2 | Analyse the impact of economic systems and economic factors on business. | K4 |
| CLO3 | Recognise the impact of political, legal and technological environment on business decisions. | K2 |
| CLO4 | Understand the importance of socio-cultural and international environment. | K2 |
| CLO5 | Examine the implications of LPG and trade blocks on businesses. | K4 |
| K1 - Remember; K2 – Understand; K3 - Apply; K4 - Analyse | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 2 | 1 | 1 | 2 | 1 |
| CLO2 | 2 | 1 | 1 | 1 | - |
| CLO3 | 1 | 1 | 1 | 1 | 2 |
| CLO4 | 1 | 1 | 1 | 1 | 1 |
| CLO5 | 1 | 2 | 1 | 2 | 1 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - IV: Business Environment

| Unit | Content | No. of Hours |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Business: Nature and Purpose of Business - Characteristics of Business - Types of Industry - Forms of Business Organisation. Business Environment: Concept, nature and significance, Internal and External environment. | 18 |
| II | Environmental Analysis: Need, techniques and limitations. Economic Environment: Economic systems and their impact on business - Components of economic environment - economic factors affecting business. | 17 |
| III | Political and Legal environment: Components - Political factors and legal factors influencing business. Technological environment: Meaning - Technological factors affecting business and its impact. | 17 |
| IV | Socio-Cultural environment: Meaning, Characteristics of Socio-cultural environment. International environment: Components and importance. | 18 |
| V | Impact of LPG: Liberalisation - Meaning - Privatisation - Benefits & pitfalls - Globalisation - Meaning & rationale for Globalisation - Impact of Globalisation on India, Role of WTO & GATT - Trading blocks - ASEAN (Association of Southeast Asian Nations), European Union(EU), South Asian Association for Regional Cooperation (SAARC), Brazil, Russia, India, China, and South Africa (BRICS). | 20 |
| Total Hours | | 90 |
| Text Books | | |
| 1 | Y.K.Bhushan (2005), Fundamentals of Business Organisation & Management (17 th ed.), Sultan Chand & Sons. | |
| 2 | Francis Cherunilam (2024), Business Environment: Text and Cases, (27 th Revised Edition) Eastern Book Company. | |
| Reference Books | | |
| 1 | K.Aswathappa (2023), Essentials of Business Environment, (16 th Revised Edition) Himalaya Publishing House. | |
| 2 | S.K.Mishra & V.K.Puri (2015), Indian Economy. (33 rd Edition) Himalaya Publishing House. | |
| 3 | M.A.Raajarajeswari, D.Prabha & P.Kowsalya (2021), Basics of Business Environment, (1 st Edition) Charulatha Publications. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.swayam2.ac.in/nou24_mg04/preview | |
| 2 | https://onlinecourses.swayam2.ac.in/imb24_mg33/preview? | |

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|----------------------------|---------------|--------------|---------|
| 24BBC25P | Data Analytics in Business | Core Lab - II | 4 | 3 |

Course Objectives

The course intends to cover

- Basics of Python programming and data manipulation techniques using libraries like NumPy and Pandas to preprocess, analyse, and visualise business datasets effectively.
- Exploratory Data Analysis (EDA) to identify patterns, trends, and insights from real-world business case studies and projects.
- Communication of data-driven findings and recommendations.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand basics of Python programming, including data types, variables, control structures, and functions. | K2 |
| CLO2 | Apply Python programming concepts, data structures, and libraries to efficiently manipulate and analyse business data sets. | K3 |
| CLO3 | Create various plots using Matplotlib and Seaborn, and gain proficiency in plotting with Pandas to effectively visualise data. | K3 |
| CLO4 | Perform exploratory data analysis (EDA) on real-world business datasets to identify patterns, trends, and insights that drive data-informed decision making. | K3 |
| CLO5 | Communicate data-driven findings, insights, and recommendations effectively to stakeholders. | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 2 | 3 | 1 | 1 | 2 |
| CLO2 | 1 | 2 | 1 | 2 | 2 |
| CLO3 | 2 | 2 | 3 | 2 | 3 |
| CLO4 | 1 | 3 | 3 | 2 | 3 |
| CLO5 | 1 | 3 | 3 | 2 | 3 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core Lab - II: Data Analytics in Business

| Unit | Content | No. of Hours |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Introduction to Data Analytics and Python: Overview of Data Analytics in Business - Importance of Data-Driven Decision Making - Introduction to Python Programming - Python Basics (Data Types, Variables, Control Structures, Functions). | 12 |
| II | Data Manipulation with Python: Introduction to NumPy and Pandas - Data Structures in Python (Lists, Tuples, Dictionaries) - Data Cleaning and Preprocessing - Data Transformation and Aggregation. | 10 |
| III | Data Visualization with Python: Introduction to Matplotlib and Seaborn - Basic Plotting Techniques (Line Plots, Bar Plots, Histograms, Scatter Plots) - Customizing Plots - Plotting with Pandas. | 11 |
| IV | Exploratory Data Analysis (EDA) with Python: Descriptive Statistics - Handling Missing Data - Identifying Patterns and Trends - Correlation Analysis - Feature Selection Techniques. | 12 |
| V | Communicating Insights and Reporting: Effective Data Storytelling - Creating Dashboards and Reports with Python - Presenting Findings to Stakeholders - Best Practices for Data-Driven Communication. | 15 |
| Total Hours | | 60 |
| Text Books | | |
| 1 | J.T.Smith (2023), Data Analytics in Business: A Comprehensive Introduction, Wiley. | |
| 2 | E.L.Miller (2022), Data Manipulation with NumPy and Pandas, Packt Publishing. | |
| Reference Books | | |
| 1 | B.J.Harris (2024), Data Visualization with Matplotlib and Seaborn, O'Reilly Media. | |
| 2 | L.K.Martin (2023), Descriptive Statistics: Concepts and Applications with Python, Routledge. | |
| 3 | T.M.Roberts(2022), Effective Data Storytelling: Strategies for Impactful Communication, Wiley. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc21_cs45/preview | |
| 2 | https://onlinecourses.nptel.ac.in/noc23_cs99/preview | |

Core Lab - II: Data Analytics in Business**List of Practicals**

1. Write a simple Python script to calculate the average of a list of numbers. Use Python basics such as variables, loops, and functions to perform the calculation.
2. Write a Python script that checks whether a specified number is a prime number, utilizing control structures like if statements to assess divisibility.
3. Use NumPy to create array and perform basic operations. (e.g., addition, subtraction)
4. Use Pandas to read a CSV file containing sample data. Perform data cleaning by handling missing values and removing duplicates
5. Create basic plots (line, bar, histogram) using Matplotlib. Customize these plots with titles, labels, and legends.
6. Create a bar chart using Seaborn to compare the sales performance of different products. Use Pandas to prepare the data for plotting.
7. Calculate descriptive statistics (e.g., mean, median, standard deviation) for a dataset using Pandas.
8. Use Pandas to handle missing data in a dataset. Implement techniques such as imputation or deletion to address missing values.
9. Develop a Python-based dashboard using libraries like Plotly or Dash. Create reports that effectively communicate data insights.
10. Perform data storytelling by presenting findings to stakeholders. Create a comprehensive report including visualizations and key insights.

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|--------------------------|-------------|--------------|---------|
| 24BBC26A | Economics for Executives | Allied - II | 4 | 3 |

Course Objectives

This course intends to cover

- Nature and Scope of Economics, demand and supply analysis, Break-even analysis, cost-revenue curves, and production functions to make informed business decisions.
- Market classification, business cycle, inflation, deflation and measures to control them.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand business objectives, apply demand and supply analysis concepts, to interpret buying behavior and forecast market trends. | K2 |
| CLO2 | Interpret break-even analysis, cost-revenue curves, and production functions to optimise resource allocation. | K2 |
| CLO3 | Analyse market structures and its impact on pricing and competition. | K4 |
| CLO4 | Understand the concept of money, national income and business cycle. | K2 |
| CLO5 | Gain insights into inflation, business cycles, and deflation and measures to control them. | K2 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------------------------------|------|-------------------------|------|------|
| CLO1 | 3 | 2 | 1 | 1 | 2 |
| CLO2 | 2 | 2 | 1 | 1 | 1 |
| CLO3 | 1 | 2 | 1 | 1 | 1 |
| CLO4 | 1 | 1 | 1 | 1 | 1 |
| CLO5 | 1 | 1 | 1 | 1 | 1 |
| 3 - Substantial (High) | 2 - Moderate (Medium) | | 1 - Slight (Low) | | |

Allied - II: Economics for Executives

| Unit | Content | No. of Hours |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Business Economics: Nature, scope, and objectives. Firm - objectives - Demand and Supply analysis - Law of Demand - Law of Supply - Elasticity of demand - Types - Determinants - Measurement - Cross elasticity of demand. | 12 |
| II | Production function: Factors of production - Short run and Long run production function- Isoquants - types and properties. Cost- Concepts and Cost analysis - Revenue analysis - Break Even analysis. | 12 |
| III | Market Structure: Perfect Competition, Monopoly, Monopolistic Competition, Duopoly, Oligopoly - Features, Price determination, Price Discrimination. | 12 |
| IV | National income: Concepts and Measurement. Circular flow of income in four sector model. Business Cycle: Features - Phases - causes - effects - control of business cycle. Money: Definition, Kinds and Functions. | 12 |
| V | Inflation: Characteristics - Types of Inflation - Causes and Effects of inflation - Measures to control inflation. Monetary Policy: Meaning- Objectives - Instruments. Fiscal Policy: Meaning - Objectives - Instruments. Monetary Policy and Fiscal Policy mix to control inflation. Deflation: Meaning - Causes and Effects of Deflation. | 12 |
| Total Hours | | 60 |
| Text Books | | |
| 1 | S.Sankaran (2018), Managerial Economics (5 th ed.), Margham Publications. | |
| 2 | R.L.Varshney & K.L.Maheshwari (2010), Managerial Economics (20 th ed.), Sultan Chand & Sons. | |
| Reference Books | | |
| 1 | M.L.Jhingan & J.K.Stephen (2020), Managerial Economics (2 nd ed.), Vrinda Publications. | |
| 2 | H.L.Ahuja (2023), Managerial Economics (9 th ed.), S. Chand Publications. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc23_ec06/preview | |
| 2 | https://onlinecourses.nptel.ac.in/noc22_mg43/preview | |

**Components for Internal Assessment and
Distribution of Marks for CIA and ESE (Theory)**

| Max. Marks | Marks for | | Components for CIA | | | | | | | | | |
|------------|-----------|-----|--------------------|-----------|----------|-----------|------------------------|--------|-----------|------------|-------------------|-------|
| | CIA | ESE | CIA – I | | CIA – II | | Best of CIA-I & CIA-II | Model | | Attendance | Active Engagement | Total |
| 100 | 25 | 75 | Actual | Weightage | Actual | Weightage | Weightage | Actual | Weightage | 5 | 5 | 25 |
| | | | 50 | 5 | 50 | 5 | | 75 | 10 | | | |

Question Paper Pattern

| Component | Duration in Hrs. | Section A | | | Section B | | | Section C | | | Total |
|-----------------|------------------|------------------|------------------|---------|------------------|------------------|--------|------------------|------------------|--------|-------|
| | | Type of question | No. of questions | Marks | Type of question | No. of questions | Marks | Type of question | No. of questions | Marks | |
| CIA – I & II | 2 | MCQ | 8 | 8x1=8 | Either or | 3 | 3x6=18 | Either or | 3 | 3x8=24 | 50 |
| Model Exam /ESE | 3 | MCQ | 10 | 10x1=10 | Either or | 5 | 5x5=25 | Either or | 5 | 5x8=40 | 75 |

**Components for Internal Assessment and
Distribution of Marks for CIA (Lab)**

| Max. Marks | Marks for | | Components for CIA | | | | | | | |
|------------|-----------|-----|--------------------|-----------|-----------|-----------|--------|-----------|-------------|-------|
| | CIA | ESE | Test - I | | Test - II | | Model | | Observation | Total |
| 100 | 40 | 60 | Actual | Weightage | Actual | Weightage | Actual | Weightage | 5 | 40 |
| | | | 50 | 10 | 50 | 10 | 60 | 15 | | |

Examination Pattern

| Component | Duration in Hrs. | Marks | | | Weightage |
|-----------|------------------|-----------|--------|-------------|-----------|
| | | Practical | Record | Total Marks | |
| Test - I | 2 | 50 | - | 50 | 10 |
| Test - II | 2 | 50 | - | 50 | 10 |
| Model | 3 | 60 | - | 60 | 15 |
| ESE | 3 | 50 | 10 | 60 | - |

Part – IV : Foundation Courses

(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|--------------|----------|--------------|---------|
| 24HUM2FC | Human Rights | FC - II | 2 | 2 |

| Unit | Content |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I | <p>Concept of Human Values, Value Education Towards Personal Development Aim of Education and Value Education; Evolution of Value Oriented Education; Concept of Human Values; Types of Values; Components of Value Education.</p> <p>Personal Development: Self-analysis and Introspection; Sensitization towards Gender Equality, Physically Challenged, Intellectually Challenged. Respect to - Age, Experience, Maturity, Family Members, Neighbors, Co-workers.</p> <p>Character Formation towards Positive Personality: Truthfulness, Constructively, Sacrifice, Sincerity, Self-Control, Altruism, Tolerance, Scientific Vision.</p> |
| II | <p>Value Education Towards National and Global Development National and International Values: Constitutional or National Values - Democracy, Socialism, Secularism, Equality, Justice, Liberty, Freedom, and Fraternity. Social Values - Pity and Probity, Self-Control, Universal Brotherhood. Professional Values - Knowledge Thirst, Sincerity in Profession, Regularity, Punctuality, and Faith. Religious Values - Tolerance, Wisdom, Character. Aesthetic Values - Love and Appreciation of Literature and Fine Arts and Respect for the Same. National Integration and International Understanding.</p> |
| III | <p>Impact of Global Development on Ethics and Values Conflict of Cross-Cultural Influences, Mass Media, Cross-Border Education, Materialistic Values, Professional Challenges, and Compromise. Modern Challenges of Adolescent Emotions and Behavior; Sex and Spirituality: Comparison and Competition; Positive and Negative Thoughts. Adolescent Emotions, Arrogance, Anger, Sexual Instability, Selfishness, Defiance</p> |
| IV | <p>Therapeutic Measures Control of the Mind through</p> <ol style="list-style-type: none"> Simplified Physical Exercise Meditation – Objectives, Types, Effect on Body, Mind and Soul Yoga – Objectives, Types, Asanas Activities: <ol style="list-style-type: none"> Moralisation of Desires Neutralisation of Anger Eradication of Worries Benefits of Blessings |

| Unit | Content |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V | <p>Human Rights</p> <ol style="list-style-type: none"> 1. Concept of Human Rights – Indian and International Perspectives <ol style="list-style-type: none"> a. Evolution of Human Rights b. Definitions under Indian and International Documents 2. Broad Classification of Human Rights and Relevant Constitutional Provisions. <ol style="list-style-type: none"> a. Right to Life, Liberty and Dignity b. Right to Equality c. Right against Exploitation d. Cultural and Educational Rights e. Economic Rights f. Political Rights g. Social Rights 3. Human Rights of Women and Children <ol style="list-style-type: none"> a. Social Practice and Constitutional Safeguards <ol style="list-style-type: none"> (i) Female Feticide and Infanticide (ii) Physical Assault and harassment (iii) Domestic Violence (iv) Conditions of Working Women 4. Institutions for Implementation <ol style="list-style-type: none"> a. Human Rights Commission b. Judiciary 5. Violations and Redressal <ol style="list-style-type: none"> a. Violation by State b. Violation by Individuals c. Nuclear Weapons and terrorism d. Safeguards |

Web Resources

| | |
|----|-----------------------------------------------------------------------------------------------------------------|
| 1. | https://syllabus.b-u.ac.in/syl_college/ug_ve.pdf |
|----|-----------------------------------------------------------------------------------------------------------------|

**Components for Internal Assessment and
Distribution of Marks for CIA (Theory)**

| Max Marks | Marks for | | Components for CIA | | | | | | | |
|-----------|-----------|-----|--------------------|-----------|----------|-----------|------------------------|--------|-----------|----------------------|
| | CIA | ESE | CIA – I | | CIA – II | | Best of CIA-I & CIA-II | Model | | Total (Best + Model) |
| 50 | 50 | - | Actual | Weightage | Actual | Weightage | Weightage | Actual | Weightage | 50 |
| | | | 50 | 25 | 50 | 25 | 25 | 50 | 25 | |

Question Paper Pattern

| Duration in Hrs. | Mode of Exam | Type of Questions | No. of Questions | Marks |
|------------------|--------------|-------------------|------------------|-----------|
| 2 | Offline | Open Choice | 5 (Out of 8) | 5 x 10=50 |

Part – IV : Ability Enhancement Compulsory Courses (All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-------------|-----------|--------------|---------|
| 24SOF2AE | Soft Skills | AECC - II | 2 | 2 |

Course Objectives

The course intends to cover

The essential soft skills that is crucial for success in today's dynamic and interconnected workplace.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand the comprehensive skills to participate actively in conversation, writing short texts with expression | K1, K2, K3 |
| CLO2 | Infer the cohesive devices to describe and discuss any objects, pictures using compound, complex sentence forms. | K2, K3 |
| CLO3 | Comprehend the logic in the given situation to organize the ideas to write formal and informal letters. | K2, K3 |
| CLO4 | Understand the given material to organize it in a logical sequence to present a paragraph with main and supporting ideas with concluding sentences. | K3 |
| CLO5 | Present valuable ideas in conversation to emulate the main ideas and key points in short essays. | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; | | |

Ability Enhancement Compulsory Course - II : Soft Skills

| Unit | Content | No. of Hours |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | <p>Presentation Skills : Getting to Know You: Grammar: Introduction to Tenses; Listening: Fill in the blanks; Speaking: Self Introduction, Everyday English, Role-Play; Reading: Different ways of communication. My Day: Grammar: Present simple positive & negative / Adverbs of Frequency; Vocabulary & Speaking: Daily Activities; Listening: Observe and Answer / Telling the time; Reading & Writing: Describe where you live. Your World: Grammar: Possessive determiners; Vocabulary & Speaking: Talk about countries, nationalities; Listening: Positive & negative contractions; Reading & Writing: Personal profile. The World Of Work: Grammar: Yes/No & Wh Questions; Vocabulary & Speaking: Jobs; Listening: Recognize the schwa sound; Reading & Writing: Opening and closing an email. Places And Things: Grammar: There is / there are, articles; Vocabulary & Speaking: Talk about rooms & furniture; Listening: Directions; Reading & Writing: Imperatives. 24 Hours: Grammar: Likes & Dislikes; Vocabulary & Speaking: Speak about hobbies and interests; Listening: Observe & answer; Reading: Match the photos with descriptions; Writing: Write complete sentence using prompts;</p> | 6 |
| II | <p>Confidence : Clothes and Shopping: Grammar: Modal verbs / Adverbs of Frequency / Adjectives and Adverbs; Vocabulary & Speaking: Shopping; Listening: Observe and Answer; Reading & Writing: Product Review. Travel & Transport: Grammar: Past simple questions; Vocabulary & Speaking: Talk about holidays; Listening: At the train station; Reading & Writing: Email - A perfect holiday. Health & Fitness: Grammar: Past simple irregular verbs; Vocabulary & Speaking: Talk about a healthy lifestyle; Listening: Listen & Answer; Reading & Writing: Time sequencers. Music: Grammar: Present perfect simple; Vocabulary & Speaking: Survey about music; Listening: Listen two people talk about music; Reading: Use adjectives and create sentences. Let's go shopping: Grammar: Countable & Uncountable; Vocabulary & Speaking: Town Survey; Listening: Listen and answer; Reading & Writing: Read and match</p> | 6 |
| III | <p>Creativity :Cooking & Eating: Grammar: Some & Any, Quantifiers; Vocabulary & Speaking: Food & Drink; Listening: Kitchen conversation; Reading & Writing: Article reading & answering. Survival: Grammar: Comparison of adjectives; Vocabulary & Speaking: Describing people; Listening: Listen & Answer; Reading & Writing: Read and Answer. Working Together: Grammar: Verb + Noun phrases; Vocabulary & Speaking: Talk about technology; Listening: Listen & Answer; Reading & Writing: Notice. Music: Grammar: Present perfect simple; Vocabulary & Speaking: Survey about music; Listening: Listen two people talk about music; Reading: Use adjectives and create sentences. Culture and Arts: Grammar: Present perfect; Vocabulary & Speaking: Speak on the phone; Listening: Listen and answer; Reading & Writing: Review</p> | 6 |

| Unit | Content | No. of Hours |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| IV | Problem-Solving :Do’s and Don’ts: Grammar: Modal verbs; Vocabulary & Speaking: Role play; Listening: Holidays in January; Reading & Writing: Article reading & answering. Body: Grammar: First conditional; Vocabulary & Speaking: Personality & Appearance; Listening: Listen to conversations about personality; Reading & Writing: Read and Answer about your skills. Speed: Grammar: Present simple passive; Vocabulary & Speaking: Talk about relationships; Listening: Listen & Answer; Reading & Writing: Error spotting. Work: Grammar: Adverbs of manner; Vocabulary & Speaking: Talk about work advice; Listening: Observe & Answer; Reading: Read & check your ideas | 6 |
| V | Critical Thinking : Influence: Grammar: would / past habits; Listening: Sentence Correction; Speaking & Vocabulary: Your inspiration; Reading: Picture description; Writing: Rewrite the sentences. Money: Grammar: Second conditional; Listening: radio programme; Speaking & Vocabulary: Talk about games; Reading & Writing: Fill in the blanks. Things that changed the world: Grammar: articles; Speaking & Listening: Talk about chewing gum; Reading & Writing: Read and write a book review | 6 |
| Total Hours | | 30 |

**Components for and Distribution of Marks for ESE (Theory)
Ability Enhancement Compulsory Course(AECC)**

| Duration in Hrs. | Mode of Exam | Type of Questions | No. of Questions | Marks |
|------------------|--------------|-------------------|------------------|---------|
| 2 | Online | MCQ | 50 | 50x1=50 |



Semester 3

| Semester – 3 | | | | | | | | | |
|------------------------------------|------|-----------------|-------------------------------------|------------|-------------------|------------|-----|------------|-----------|
| Course Code | Part | Course Category | Course Name | Hours/Week | Examination | | | Credits | |
| | | | | | Duration in Hours | Max. Marks | | | |
| | | | | | | CIA | ESE | | Total |
| 24TAM31L | I | Language - I | Tamil - III | 4 | 3 | 25 | 75 | 100 | 3 |
| 24HIN31L | | | Hindi - III | | | | | | |
| 24MAL31L | | | Malayalam - III | | | | | | |
| 24FRE31L | | | French - III | | | | | | |
| 24ENG32L | II | Language - II | English - III | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC33C | III | Core - V | Marketing Management | 6 | 3 | 25 | 75 | 100 | 4 |
| 24BBC34C | III | Core - VI | Operations and Materials Management | 6 | 3 | 25 | 75 | 100 | 4 |
| 24BBC35P | III | Core Lab - III | Business Intelligence and Reporting | 4 | 3 | 40 | 60 | 100 | 2 |
| 24BBC36A | III | Allied - III | Business Regulatory Framework | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC37P | III | SEC - I | Banking Procedure | 2 | 3 | 40 | 60 | 100 | 2 |
| 24BAT3FC/ 24ADT3FC/ 24IKS3FC | IV | FC - III | Basic Tamil / | - | 2 | 50 | - | 50 | 2 |
| Advanced Tamil | | | | | | | | | |
| Indian Knowledge Systems (IKS)* | | | | | | | | | |
| 24MOO3AE | IV | AECC - III | Online Course – MOOC | - | - | 50 | - | 50 | 2 |
| Total | | | | 30 | | | | 800 | 25 |

Part –I : Tamil –III
(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-------------|--------------|--------------|---------|
| 24TAM31L | Tamil - III | Language - I | 4 | 3 |

Course Objectives

- தமிழரின் பிற துறை சார்ந்த சிந்தனைகளைக் கற்றுத் தேர்தல்
- இன்றைய அறிவியல் வளர்ச்சி மற்றும் கணினியின் பயன்பாட்டுத் தேவையை உணர்த்துதல்
- இயற்கை பாதுகாப்பு குறித்த விழிப்புணர்வை வளர்த்தல்

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|--------------------------------------------------------------------------------|-----------------|
| CLO1 | வணிகத் தமிழ் - கணினித் தமிழின் நுட்பங்கள் மற்றும் பயன்பாடுகளை அறிதல். | K1, K2 |
| CLO2 | ஊடகம் மற்றும் உளவியல் தன்மை குறித்த சிந்தனைகளை வளர்த்தல். | K2 |
| CLO3 | சுற்றுலா - சுற்றுச்சூழலியல் தேவை மற்றும் மீட்டுருவாக்கம் குறித்து உணர்த்துதல். | K3 |
| CLO4 | மேலாண்மை பற்றி அறிதல் மற்றும் சுயக்கற்றல் திறனை வளர்த்தல். | K1, K3 |
| CLO5 | கொங்கு ஆளுமைகள் குறித்து அறியச் செய்தல். | K2, K3 |
| K1 - Remember; K2 - Understand; K3 – Apply | | |

Part – I: Language-I-Tamil – III**பயன்பாட்டுத் தமிழ்**

| Unit | Content | No. of Hours |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | வணிகம் மற்றும் கணினித் தமிழ் தமிழரின் வணிகம் - வணிகக் கடிதங்கள் - உலகமயமாக்கல் - செயற்கை நுண்ணறிவு கற்றல் - இணைய நூலகம் - இணையத் தமிழ் பயன்பாடு | 12 |
| II | ஊடகம் மற்றும் உளவியல் தமிழ் ஊடகத்தின் இன்றியமையாமை - நிகழ்வுகளைச் செய்திகளாக வடிவமைத்தல் - ஊடகத் துறையில் மொழியின் பங்கு - உளவியல் வரையறை - உளவியல் பிரிவுகள் - வகுப்பறை உளவியல் (ஆசிரியர், மாணவர்) | 12 |
| III | சுற்றுச்சூழலியல் மற்றும் சுற்றுலாவியல் தமிழரின் சூழலியல் அறிவு - சுற்றுச்சூழல் மாசுபாடு - சுற்றுச்சூழல் பாதுகாப்பு - சுற்றுலா வகைகள் - உலகப் புகழ்பெற்ற சுற்றுலாத் தலங்கள் - சுற்றுலா வளர்ச்சி மற்றும் பயன்கள் | 12 |
| IV | மேலாண்மைத் தமிழ் மற்றும் மொழிப்பயிற்சி மேலாண்மையும் அணுகுமுறைகளும் - மேலாண்மை செயல்பாடுகள் மற்றும் வகைகள் - வகுப்பறை மேலாண்மை - நேர்காணல் - நூல் திறனாய்வு மற்றும் மதிப்பீடு - படிவங்கள் பூர்த்தி செய்தல் மற்றும் விண்ணப்பங்கள் | 12 |
| V | பன்முக ஆளுமைகள் ஜி.டி.நாயுடு(அறிவியல்) - பத்மஸ்ரீ டாக்டர் பக்தவத்சலம்(மருத்துவம்) - நா மகாலிங்கம்(தொழில்) - மயில்சாமி அண்ணாதுரை(விஞ்ஞானம்) - என் ஜி ராமசாமி(சமூகம்) - நம்மாழ்வார்(விவசாயம்). | 12 |
| Total Hours | | 60 |

Reference Books

| | |
|---|-------------------------------------------------------------------------------------------|
| 1 | சுந்தரம்.இல, (2022) கணினித் தமிழ், விகடன் பிரசுரம் |
| 2 | மணியரசன்.துரை, (2019), இணையமும் இனியத் தமிழும், இசை பதிப்பகம் |
| 3 | பொன்னவைக்கோ.மு, (2015) இணையத் தமிழ் வரலாறு, பாரதிதாசன் பல்கலைக் கழகம். |
| 4 | தங்கமணி இரா.ம, (2018) சுற்றுலாவியல், கொங்கு பதிப்பகம் |
| 5 | இலக்கியா க.வி, நந்தினி சா.சு,(2022), விடியல் பதிப்பகம் |
| 6 | சின்னத்தம்பி முருகேசன்.பொன்(2016) சுற்றுச் சூழலியல்(உலகம் தழுவிய வரலாறு), எதிர் வெளியீடு. |

| Reference Books | |
|-----------------|---------------------------------------------------------------------|
| 7 | இறையன்பு.வெ (2018) இலக்கியத்தில் மேலாண்மை, நியூ செஞ்சுரி புக் ஹவுஸ் |
| 8 | ஸ்ரீனிவாசன்.வி, (2009), திருக்குறளில் மேலாண்மை, விகடன் பிரசுரம் |
| 9 | பட்டனத்தி மைந்தன், (2018), ஜி.டி நாயுடு, ராமையா பதிப்பகம் |
| 10 | டாக்டர் பக்தவத்சலம்.ஜி (2009) இதயம் ஒரு கோவில், வியஜா பதிப்பகம் |

| Question Pattern | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| காலம் : 3 மணி நேரம் | மொத்த மதிப்பெண்கள் : 75 |
| பிரிவு - அ | 10x1=10 |
| <ul style="list-style-type: none"> சரியான விடையைத் தேர்ந்தெடுத்து எழுதுக. | |
| பிரிவு - ஆ | 5x5=25 |
| <ul style="list-style-type: none"> வணிகம் மற்றும் கணினித் தமிழ் - 1 வினா ஊடகம் மற்றும் உளவியல் தமிழ் - 1 வினா சுற்றுலாவியல் மற்றும் சுற்றுச்சூழலியல் - 1 வினா மேலாண்மைத் தமிழ் மற்றும் மொழிப்பயிற்சி- 1 வினா கொங்கு ஆளுமைகள் - 1 வினா | |
| பிரிவு - இ | 5x8=40 |
| <ul style="list-style-type: none"> வணிகம் மற்றும் கணினித் தமிழ் - 1 வினா ஊடகம் மற்றும் உளவியல் தமிழ் - 1 வினா சுற்றுலாவியல் மற்றும் சுற்றுச்சூழலியல் - 1 வினா மேலாண்மைத் தமிழ் மற்றும் மொழிப்பயிற்சி- 1 வினா கொங்கு ஆளுமைகள் - 1 வினா | |

குறிப்பு : ஆ, இ பிரிவுகளில் வினாக்கள் "இது" அல்லது "அது" என்ற வகையில் அந்தந்த அலகுகளிலிருந்து அமைத்தல் வேண்டும்.

Part – I: Language-I-Hindi– III

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-------------|--------------|--------------|---------|
| 24HIN31L | Hindi - III | Language - I | 4 | 3 |

Course Objectives

The Course intends to

- Have knowledge of the contents of primitive poetry
- Learn about contemporary poetry and its techniques.
- Interest in reading poetry and the ability to express social thoughts will improve
- Understand the basics of Hindi literature and to understand Hindi literature properly
- Have Knowledge of the elements of poetry and the knowledge of subtle translation will improve

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | May have knowledge of the contents of primitive poetry | K1, K2 |
| CLO2 | Learn about contemporary poetry and its techniques. | K2 |
| CLO3 | Interest in reading poetry and the ability to express social thoughts will improve | K3 |
| CLO4 | This will help you to understand the basics of Hindi literature and to understand Hindi literature properly | K1, K3 |
| CLO5 | Knowledge of the elements of poetry and the knowledge of subtle translation will improve. | K2, K3 |
| K1 - Remember; K2 - Understand; K3 – Apply | | |

Part – I: Language-III-Hindi – III

| Unit | Content | No. of Hours |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Poetry: Kavya Lehar – By Dr. V. Baskhar Pracheen Kavitha 1. Mahatma Kaber – Saki 2. Goswamy Tulasidas – Ram-Van-Aman 3. Mahatma Soordas – Baal – Leela 4. Kavivar Rahim – Dohe | 14 |
| II | Poetry: Kavya Lehar – By Dr. V. Baskhar Aadhunik Kavitha 1. Mythili Sharn Gupt – Vikaral Bijali 2. Sumithranandan Panth – Parivarthan 3. Suryakanth Thripati Nirala – Sandhayasundarai 4. Ramdhari Sing Dinkar – Bhagavan Ke Dakkiya 5. Harivansray Bachchan – Kota Sikka 6. Agyeya – Anubhav Paripakva 7. Naresh Mehtha – Ullangan 8. Dharmaveer Bharathi – Tum Mere Koun Ho | 14 |
| III | History of Hindi Literature: (Sahithyik Tippanian) 1. Ammer Kusro 2. Vidhyapathi 3. Chandbardhayi 4. Pruthiviraj Raso 5. Ramacharitha Manas 6. Vinaya Patrika | 12 |
| IV | Alankar: 1. Anupras 2. Yamak 3. Slesh 4. Vakrokthi 5. Upama, 6. Roopak 7. Virodhabas | 10 |
| V | Translation: English - Hindi only Anuvadh abhyas – III (16-30 Lessons Only) | 10 |
| Total Hours | | 60 |
| Text Books | | |
| 1 | Dr Baskhar V., (2006), Kavya lehar –Jawahar Pusthakalay, Sadar Bazaar, Mathura-U.P.281001. | |
| 2 | Anuvadh abhyas-III, Dakshin Bharath Hindi Prachar Sabha Chennai – 17. | |
| Reference Books | | |
| 1 | Rajnath sharma, (2010) Hindi sahithya ka saral ithihaas, Vinod Pustak Mandir, Agra-282 | |
| 2 | Kavya pradeep rambadri shukla, (2008) hindi bhavan, 36, tagore town, allahabad – 211 002. | |

Part – I: Language-I-Malayalam – III

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|-----------------|--------------|------------|---------|
| 24MAL31L | Malayalam - III | Language - I | 4 | 3 |

Course Objectives

The course intends to

- Have knowledge of the contents of primitive poetry
- Learn about contemporary poetry and its techniques.
- Interest in reading poetry and the ability to express social thoughts will improve
- Understand the basics of Malayalam Poetry and to understand Malayalam literature properly
- Provide knowledge of the elements of poetry.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|---------------------------------------------------------------|-----------------|
| CLO1 | Get a basic knowledge of the history of Malayalam literature. | K1 |
| CLO2 | Enhances the art and taste of Malayalam literary works | K1 |
| CLO3 | Literary genres can be learned | K2 |
| CLO4 | Create more to read and enjoy Malayalam poetry | K3 |
| CLO5 | Get the basic Knowledge of poetry techniques | K4 |
| K1 - Remember; K2 - Understand; K3 – Apply; K4 - Analyse | | |

Part – I: Language-I-Malayalam – III

| Unit | Content | No. of Hours |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Poetry – Chinthavishtayaya Seetha | 14 |
| II | Poetry – Chinthavishtayaya Seetha | 14 |
| III | Poetry – Mrugasikshakan - (Murgasikshakan, Kausalya, Varavu, Vittupoku Ekalavyan, Mazha) 6 poetries | 12 |
| IV | Poetry – Mrugasikshakan - (Kayal, Karkkadakam, Bhagavatham, Vazhivakkile naikutty, Edavelayil oru nimisham, Verumoru kathu) 6 poetries | 10 |
| V | Poetry – Aayisha | 10 |
| Total Hours | | 60 |

Text Books

| | |
|---|------------------------------------------------------------------------------|
| 1 | Kumaranasan, (2012), Chinthavishtayaya Seetha, Kerala Book Store Publishers. |
| 2 | Vijayalakshmi, (2010), Mrugasikshakan, DC Books, Kottayam. |
| 3 | VayalarRamavarma,(2014), Aayisha, Kerala Book Store Publishers. |

Reference Books

| | |
|---|---------------------------------------------------------------------------------------------|
| 1 | Dr.Leelavathi M, (2015) Kavitha SahithyaCharitram, Kerala Sahithya Academy, Trichur. |
| 2 | Dr.Leelavathi M, (2015) Kavitha Dwani, D.C.Books, Kottayam. |
| 3 | Dr.George K.M, (2014) Aadhunika Sahithyacharithram Prasthanangalilude, D.C.Books, Kottayam. |
| 4 | Chummar T.M. (2009) Padya Sahithya Charithram, Kerala Sahithya Academy, Trichur. |

Part – I: Language-I-French – III

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|--------------|--------------|------------|---------|
| 24FRE31L | French - III | Language - I | 4 | 3 |

Course Objectives

The Course intends to

Interact in a simple way, ask and answer simple questions about themselves, where they live, people they know, and things they have, initiate and respond to simple statements in areas of immediate need or on very familiar topics, rather than relying purely on a very finite rehearsed, lexically-organized repertoire of situation-specific phrases.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|-----------------------------------------------------|-----------------|
| CLO1 | Comprehend a repertoire of vocabulary | K1 |
| CLO2 | Understand tenses and intermediary level of grammar | K2 |
| CLO3 | Try to converse in unknown situation | K3 |
| CLO4 | Translate unknown texts on familiar topics | K4 |
| K1 - Remember; K2 - Understand; K3 – Apply; K4 – Analyse | | |

Part – I: French – III

| Unit | Content | No. of Hours |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|--------------|
| I | Etape 1 (Lecons 1 - 3) | 14 |
| II | Etape2 (Lecons 1 - 3) | 14 |
| III | Etape 3 - Leçons 1 – 2 | 12 |
| IV | Etape 3 – Leçon 3 | 10 |
| V | Etape 4 – Leçon 1 | 10 |
| Total Hours | | 60 |
| Text Book | | |
| 1. | Céline Himber, Corina Brillant, Sophie Erlich, (2014), Adomania2 – Methode Defrancais, Publisher : Hachette Fle | |
| Reference Book | | |
| 1. | Yves Loiseau, Régine Merieux (2009), Latitudes 1, Publisher: French and European Publications Inc. | |

Part – II – Language-II-English-III
(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|-------------|--------------|------------|---------|
| 24ENG32L | English-III | Language- II | 4 | 3 |

Course Objectives

The course intends to cover

- Various genres of literature
- Inter personal skills essential at work environment

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | List out the connotations and denotations to pen poems. | K1 |
| CLO2 | Identify complex characters to navigate philosophical and intellectual learning and employ it in work place. | K2 |
| CLO3 | Interpret various prose styles to enhance creative writing | K3 |
| CLO4 | Compute vocabulary and grammatical proficiency in communication to enhance clarity in content creation. | K3 |
| CLO5 | Practice communication skills to be effective in lifelong learning. | K3 |
| K1 – Remember; K2-Understand; K3- Apply | | |

Part-II: Language-II-English-III

| Unit | Content | No. of Hours |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| I | Poetry 1. Nothing Will Die – Alfred Lord Tennyson 2. Porphyria’s Lover – Robert Browning 3. Obituary – A K Ramanujan | 12 |
| II | Scenes from William Shakespeare’s Plays 1. Romeo and Juliet – The Balcony Scene 2. Merchant of Venice - Court Scene 3. Julius Caesar - Murder Scene | 12 |
| III | Famous Speeches 1. You’ve Got to Find What You Love-Steve Jobs 2. You Will Prevail -Sundar Pichai 3. I am Malala – Malala Yousafzai | 12 |
| IV | Language Competency 1. Identifying types of Sentences 2. Sentence Structure 3. Active Voice and Passive Voice 4. Direct and Indirect Speech | 12 |
| V | English for Communication Listening and Speaking Participating in a Group Discussion 1. Group discussion as a selection process 2. Different kinds of Group Discussion 3. Structure of Group Discussion 4. Successful Group Discussion Techniques 5. Group Discussion – Do’s and Don’ts Reading and Writing 1. Reading diagrammatic information-interpretations maps, graphs and pie charts 2. Narrative writing– Two to three paragraphs 3. Dramatizing everyday situations/social issues through skits. (Writing scripts and performing) | 12 |
| Total Hours | | 60 |
| Reference Book | | |
| 1. | Wren, P.C. (1973). High school English grammar and composition. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1. | https://nptel.ac.in/courses/109106129 | |
| 2. | https://nptel.ac.in/courses/109104031 | |

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|----------------------|----------|------------|---------|
| 24BBC33C | Marketing Management | Core - V | 6 | 4 |

Course Objectives

The Course intends to cover

- Marketing principles, Consumer Behavior, Product Management.
- Pricing, Distribution Strategies and Promotional Techniques, equipping students with strategic marketing skills for modern Business Environment.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand fundamental marketing concepts, market types, and the role of marketing in business decision-making. | K2 |
| CLO2 | Analyse consumer behavior, buying motives and buying decisions. | K1 - K4 |
| CLO3 | Understand product development, life cycle stages, branding, and packaging strategies in marketing. | K2 |
| CLO4 | Examine pricing methods, strategies, distribution channels, and risk management in marketing. | K1 - K4 |
| CLO5 | Understand market segmentation strategies for effective targeting and positioning. | K2 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

CLO -PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 3 | 3 | 2 | 2 | 2 |
| CLO2 | 2 | 2 | 2 | 3 | 2 |
| CLO3 | 2 | 2 | 2 | 3 | 2 |
| CLO4 | 3 | 2 | 2 | 3 | 2 |
| CLO5 | 2 | 2 | 2 | 2 | 2 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - V: Marketing Management

| Unit | Content | No. of Hours |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Introduction to Marketing - Types of Markets - Core Concepts of Marketing - Functions of Marketing and Role in Modern Business - Marketing Orientations - Evolution of Marketing Concepts. Marketing Mix: Four Ps and Extended Ps - Marketing Information Systems (MIS). Marketing Environment: Micro and Macro Factors - Strategic Marketing Planning. | 18 |
| II | Consumer Behavior: Concept and importance - Factors affecting Consumer Behaviour, Types of Buying Decisions - Consumer Buying Decision Process, Buying Motives - Buyer Behaviour Models. | 18 |
| III | Product: Concept - Types of Products - Consumer Goods and Industrial Goods - Product Life Cycle (PLC) - Stages - Product Mix, Product Line, and Product Item Decisions - Product Modification and Elimination. Product Planning and Development: Concept and Steps in developing New Products - Strategies. Packaging: Meaning, Types, Role and Functions. | 18 |
| IV | Pricing: Concept and Importance - Pricing Policies and Objectives - Factors influencing Pricing decisions - Pricing Strategies - Price Discrimination. Pricing Methods: Cost-Based, Competitor-Based, and Demand-Based Pricing - Competitor Reactions to Price Changes - Multi-Product Pricing. Physical Distribution: Meaning and its Management. Marketing Risks: Types – Risk Management | 18 |
| V | Market Segmentation: Introduction, Concept, Benefits, Requisites of Effective Market Segmentation - Process of Market Segmentation - Bases for Segmenting Consumer Markets, Targeting and Positioning: Targeting - Meaning, Target market strategies - Market Positioning - Meaning, and Positioning Strategies - Value Proposition. | 18 |
| Total Hours | | 90 |
| Text Books | | |
| 1 | R.S.N. Pillai & Bhagavathy, (2020), Marketing management (4 th Edition), Sultan Chand & Sons Publications, New Delhi. | |
| 2 | Rajan Saxena (2019) Marketing Management (6 th Edition) Tata McGraw Hill Publications, New Delhi. | |
| Reference Books | | |
| 1 | Philip Kotler and Kevin Lane Keller (2019) Marketing Management (16 th Edition) Pearson Education, New Delhi. | |
| 2 | V.S. Ramaswamy and S. Namakumari (2018) Marketing Management: Indian Context Global Perspective (6 th Edition) SAGE Publications India Pvt Ltd, New Delhi. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://nptel.ac.in/courses/110104068 | |
| 2 | https://nptel.ac.in/courses/110108141 | |

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-------------------------------------|-----------|--------------|---------|
| 24BBC34C | Operations and Materials Management | Core - VI | 6 | 4 |

Course Objectives

The Course intends to cover:

- Fundamental concepts of Production operations and materials management.
- Practical and industry best practices like Lean Manufacturing, Six Sigma, TQM, and ISO standards.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Remember the functions and techniques of production management and plant layout. | K1 |
| CLO2 | Identify the scope and functions of material handling and maintenance. | K2 |
| CLO3 | Understand materials management principles, including planning, purchasing, and vendor development. | K2 |
| CLO4 | Interpret inventory control tools, EOQ, reorder points, and storekeeping. | K2 |
| CLO5 | Gain knowledge about quality control, inspection, TQM, benchmarking, and ISO procedures. | K2 |
| K1 - Remember; K2 - Understand | | |

CLO -PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 3 | 2 | 2 | 1 | 1 |
| CLO2 | 3 | 2 | 2 | 2 | 1 |
| CLO3 | 3 | 2 | 3 | 2 | 2 |
| CLO4 | 3 | 2 | 2 | 1 | 2 |
| CLO5 | 3 | 2 | 3 | 2 | 2 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - VI: Operations and Materials Management

| Unit | Content | No. of Hours |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Operations Management: Operations Management - Concept - Functions - Scope - Plant Location - Factors - Site location - Plant Layout Principles - Classification - Process - Product layout. Production Planning and Control: Meaning - Principles - Routing - Scheduling - Dispatching - Control – Lean Manufacturing - Six sigma. | 18 |
| II | Material Handling: Importance - Scope, Functions - Principles - Criteria for selection of material handling equipments. Maintenance: Objectives - Types - Breakdown - Preventive - Routine. Work measurement: Steps - Methods study- Time study - Motion study. | 18 |
| III | Materials Management: Organization of Materials Management - Principles - Integrated materials management. Purchasing: Procedure - Principles - Import substitution and Import Purchase procedure - Vendor rating - Vendor development. | 18 |
| IV | Inventory Control: Functions of Inventory - Importance - Tools - ABC, VED, FSN Analysis - EOQ - Reorder point - Safety stock- Leadtime Analysis. Storekeeping: Objectives - Functions - Store keeper - Duties - Responsibilities, Location of store - Stores Ledger - Bin card. | 18 |
| V | Quality Control: Objectives - Tools - Types of Inspection. TQM: Meaning - Objectives - Elements - Benefits. Benchmarking: Meaning - Objectives - Advantages. ISO: Features - Advantages - Procedure for obtaining ISO. | 18 |
| Total Hours | | 90 |
| Text Books | | |
| 1 | S N Chary (2019), Production and Operations Management (6 th ed.), McGraw Hill Publication. | |
| 2 | R.Panneerselvam (2012), Production and Operations Management (3 rd ed.), PHI Learning. | |
| Reference Books | | |
| 1 | N. Chapman Stephen, Arnold J.R. Tony (2017), Introduction to Materials Management, (6 th ed.), Pearson. | |
| 2 | B. Krishna Reddy, G.Sudarsana Reddy, K. Aswathappa (2009), Production and Operations Management, Himalaya Publishers | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.swayam2.ac.in/imb24_mg70/preview | |
| 2 | https://onlinecourses.nptel.ac.in/noc24_mg106/preview | |

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|-------------------------------------|----------------|------------|---------|
| 24BBC35P | Business Intelligence and Reporting | Core Lab - III | 4 | 2 |

Course Objectives

The Course intends to cover

- Fundamentals of Business Intelligence (BI), Data-Driven Reporting, Dashboard Development, Performance Measurement & KPIs, Data Visualisation & Storytelling.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|-----------------------------------------------------------------------|-----------------|
| CLO1 | Understand the fundamentals of Business Intelligence and reporting. | K2 |
| CLO2 | Apply data processing techniques for creating reports and dashboards. | K1 - K3 |
| CLO3 | Design and analyse BI dashboards for decision-making. | K1 - K4 |
| CLO4 | Utilize data visualisation techniques to generate business insights. | K1 - K3 |
| CLO5 | Develop and present actionable reports based on real-world datasets. | K1 - K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

CLO -PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 3 | 3 | 2 | 2 | 2 |
| CLO2 | 2 | 2 | 2 | 3 | 2 |
| CLO3 | 2 | 2 | 2 | 3 | 2 |
| CLO4 | 3 | 2 | 2 | 3 | 2 |
| CLO5 | 2 | 2 | 2 | 2 | 2 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core Lab - III: Business Intelligence and Reporting

| Unit | Content | No. of Hours |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Business Intelligence: Overview of BI concepts and data-driven decision-making - BI tools and their applications (Power BI, Tableau, MS-Excel) - Role of BI in Business Strategy. Power BI and Tableau: Introduction to Power BI and Tableau for BI reporting - real-world applications of BI dashboards. Connecting BI tools to structured and unstructured data sources. | 6+4 |
| II | Data Cleaning and Pre-processing: Data extraction, transformation, and loading (ETL) - Data aggregation and cleansing techniques - Connecting BI tools to various data sources. Data transformation and ETL processes using Power BI: Extracting, transforming, and loading (ETL) business data - Data aggregation, cleansing, and preprocessing using Power BI - Creating data connections from databases, MS-Excel, and Application Programming Interface(APIs). | 6+6 |
| III | Data Visualisation and Dashboard Design: Visualisation principles and best practices - Creating KPIs and performance metrics - Customising dashboards with filters and interactivity. Designing interactive dashboards using Power BI and Tableau: Designing dashboards with KPIs and custom filters - Implementing interactive visualisations using Power BI and Tableau - Building reports for performance tracking. | 6+6 |
| IV | Advanced BI Analytics and Insights: Time-series analysis and trend forecasting - Predictive analytics in BI reporting - Generating reports for executive decision-making. Creating reports for business scenarios using Power BI: Implementing forecasting and trend analysis in BI reports - Using calculated fields and measures in Power BI - Creating executive reports for business strategy. | 6+6 |
| V | Capstone Project & Case Studies: Real-world business intelligence cases - Industry case studies on BI-driven decision-making. Final project - Business intelligence reporting for a business case: Group project - Designing a BI dashboard for a company - Case study discussion on BI implementation in industry - Final project presentation and feedback session. | 6+8 |
| Total Hours | | 60 |
| Text Books | | |
| 1 | Foster Provost & Tom Fawcett, (2013), Data Science for Business, O'Reilly Media, USA. | |
| 2 | Cindi Howson, (2008), Successful Business Intelligence, McGraw-Hill, USA. | |
| Reference Books | | |
| 1 | S. N. Sharma, (2020), Data Analytics with Power BI and Tableau, BPB Publications, New Delhi. | |
| 2 | Anil Maheshwari, (2019), Data Analytics, McGraw Hill Education, New Delhi. | |
| 3 | U. Dinesh Kumar, (2017), Business Analytics: The Science of Data-Driven Decision Making, Wiley India, New Delhi. | |
| 4 | Vikas Gupta, (2021), Excel, Power BI, and Tableau for Data Analysis, BPB Publications, New Delhi. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | NPTEL Course on Data Analytics for Business: https://nptel.ac.in/courses/110106072 | |

Core Lab - III: Business Intelligence and Reporting

List of Practicals

1. Create a BI Dashboard using Power BI.
2. Connect to Unstructured Data and Create a Dashboard in Tableau.
3. Extract, transform, and load business data from Excel and SQL Server, followed by data cleaning and aggregation using Power BI.
4. Connect Power BI to multiple sources, aggregate and cleanse data, and prepare it for analysis.
5. Create a dashboard that tracks key performance indicators (KPIs) with user-driven interactivity.
6. Design an interactive dashboard that visualises performance across multiple dimensions.
7. Perform time-series analysis on sales data and forecast future trends using built-in forecasting tools in Power BI.
8. Build a multi-sheet executive dashboard that uses predictive insights and calculated KPIs for strategic decision-making.
9. Simulate a real-world BI project by designing a dashboard for decision-making using sales and customer data.
10. Analyse an industry case study using a BI tool and build a report/dashboard based on provided data.

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-------------------------------|--------------|--------------|---------|
| 24BBC36A | Business Regulatory Framework | Allied - III | 4 | 3 |

Course Objectives

The Course intends to cover

- Business ethics, legal framework for contracts, sales, and agency, emphasising their principles, execution, and implications in business practices.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Remember ethical principles, corporate social responsibility and elements of good corporate governance. | K1 |
| CLO2 | Understand the essentials, classifications and key rules of contracts, including offer, acceptance and party capacity. | K2 |
| CLO3 | Understand consideration, consent, and quasi-contracts, along with remedies for breach and discharge of contracts. | K2 |
| CLO4 | Understand the principles of contract formation, transfer of property, and rights of unpaid vendors in the sale of goods. | K2 |
| CLO5 | Gain insights on the creation, classification and termination of agency, and the roles and liabilities of agents and principal. | K2 |
| K1 - Remember; K2 - Understand | | |

CLO -PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 1 | 1 | 1 | 2 | 1 |
| CLO2 | 1 | 2 | 1 | 3 | 2 |
| CLO3 | 2 | 1 | 1 | 3 | 1 |
| CLO4 | 3 | 2 | 1 | 3 | 1 |
| CLO5 | 1 | 1 | 1 | 1 | 1 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Allied - III: Business Regulatory Framework

| Unit | Content | No. of Hours |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Business Ethics: Ethics and Business Ethics - Ethical principles in Business - Concepts, Values and Ethics - Ethical Corporate Behavior - Social Responsibility of Business. Corporate Governance: Need, Principles, Scope - Elements of good corporate governance. | 12 |
| II | Law of Contract: Essentials of contract - Agreements - Classification of contracts - Offer - Legal rules as to offer - Acceptance - Rules as to acceptance - Capacity of parties to create contract - Wagering agreements - Stranger to a Contract and exceptions. | 12 |
| III | Consideration: Legal rules - Contract without Consideration-Consent-Coercion-Undue influence - Misrepresentation - Fraud - Mistake. Agreement opposed to public policy - Agreements in Restraint of trade - Exceptions - Quasi contracts - Discharge of contract - Breach of contract - Remedies. | 12 |
| IV | Sale of Goods: Formation of contract of sale - Sale and agreement to sell - Hire purchase agreement - Effect of destruction of goods - Documents of title to goods - Rules of Caveat Emptor - Exceptions. Transfer of property: Sale by Non - owners - Right of resale - Right of lien - Unpaid Vendor's rights. | 12 |
| V | Agency: Creation of Agency- Classification of Agents - Relations of Principal and Agent - Delegation of authority. Relations of Principal with third parties. Personal liability of Agent-Termination of Agency. | 12 |
| Total Hours | | 60 |
| Text Books | | |
| 1 | M.B.Shukla, (2005), Business Ethics and Corporate Governance, Cengage Learning. Business Ethics and Corporate Governance 0071333320, 9780071333320 - DOKUMEN.PUB | |
| 2 | R. S. N.Pillai & S Bhagavathi, (2021), Business Law, S. Chand Publishing. | |
| Reference Books | | |
| 1 | N.D. Kapoor, 1993, Business Laws, Sultan Chand, New Delhi | |
| 2 | K.S. Anantharaman, 2003 Business and Corporate Laws, Sitaraman& co. Pvt. Ltd. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.swayam2.ac.in/cec20_hs23/preview | |
| 2 | https://onlinecourses.swayam2.ac.in/nou23_cm11/preview | |

Part –III - Skill Enhancement Courses

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|----------------------------|----------|------------|---------|
| 24BBC37P | SEC - I Banking Procedures | SEC - I | 2 | 2 |

Course Objectives

The course intends to cover:

Basics of Banking Regulations and Operations.

- Hands-on exercises like opening accounts, handling cheques, managing online transactions and applying for banking facilities like loans, credit cards, and DEMAT accounts.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand the fundamentals of Banking. | K2 |
| CLO2 | Comprehend different forms of bank deposits, financial security and compliance. | K2 |
| CLO3 | Analyse the essentials and validity of cheques. | K1 - K4 |
| CLO4 | Understand Financial transactions by access to banking services from trusted devices and networks. | K2 |
| CLO5 | Apply bank loan processes, types, and purposes in addressing financial and economic needs. | K1 - K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 – Analyse | | |

CLO -PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------------------------------|------|-------------------------|------|------|
| CLO1 | 2 | 2 | 1 | 2 | 2 |
| CLO2 | 1 | 2 | 2 | 3 | 2 |
| CLO3 | 2 | 2 | 2 | 3 | 3 |
| CLO4 | 3 | 2 | 2 | 3 | 3 |
| CLO5 | 2 | 2 | 2 | 2 | 3 |
| 3 - Substantial (High) | 2 - Moderate (Medium) | | 1 - Slight (Low) | | |

Skill Enhancement Course - I: Banking Procedures

| Unit | Content | No. of Hours |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Banking Regulation Act 1949: Origin of banks - Definition of banking - Classification of banks - Banking system, Banker's rights - RBI - Functions - Social responsibility of Banks - Banking Vs Non-Banking financial companies. | 6 |
| II | Operations of Bank Accounts: Types of Accounts (Savings, Current, FD, RD and NRI) - Bank Passbook - Special types of customers (Minors, NRI, Companies) - KYC norms. Demat account - Benefits and importance. | 6 |
| III | Methods of Payment and Collection: Features - Essentials for a valid cheque - Crossing - making an endorsement - Payment of cheques - statutory protection - duties of paying banker and collecting banker - refusal of payment of cheque - Duties of holder and holder - in due course. Demand draft - features. | 6 |
| IV | Electronic banking: Personal banking - Retail banking - Internet banking - Mobile Banking - Online Banking Vs. Offline banking. Electronic Funds Transfer: ATM and CDM(Cash Deposit Machine) - Debit Card - Smart Card - Credit Card - E-cash - Swift - NEFT – RTGS - IMPS. | 6 |
| V | Loans and Advances: Classification - Factors limiting the level of Banks' Advances - Secured Advances - Non-Fund Based Advances - Unsecured Loans. | 6 |
| Total Hours | | 30 |
| Text Book | | |
| 1 | K.P.M Sundharam and P.N Varshney (2019), Banking Theory Law & Practice, (2019) Sultan Chand & Sons., New Delhi | |
| Reference Books | | |
| 1 | K.Natarajan & E.Gordon (2023), Banking Theory and Practice, 30 th edition, Himalaya Publishing House. | |
| 2 | Indian Institute of Banking and Finance (2023), Principles and Practices of Banking, 1 st Edition, Macmillan Education India Pvt. Ltd. | |
| Web Resources(SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc25_mg40/preview | |

List of Practicals

1. List out the Commercial banks in India. Write the financial products offered by them and explain their benefits.
2. Open a savings account at a nationalised bank include nominee details. Fill out pay-in slips for deposits and withdrawal slips and complete a challan for taking demand draft.
3. Fill forms for opening fixed deposits, recurring deposits.
4. Open a current account and apply for overdraft facilities.
5. Explain about different types of cheques (such as bearer, order, and crossed cheques), and essentials of secured process of issuing, endorsing, and encashing cheques ensuring safety measures and security features.
6. Fill in a demand draft application form.
7. Fill out an application form to open an Internet Banking account and explain the process for applying for credit and debit cards.
8. Collect and fill out the application form for an ATM card. Explain the process of activating it, generating PIN.
9. Complete the application form for obtaining an educational loan / vehicle loan / Agri loan / Housing loan from any bank. Explain CIBIL Score.
10. Explain the steps for transferring funds through your bank's online money transfer system. (IMPS, NEFT, RTGS, UPI, Internet banking & Mobile Banking)
11. Explain and fill out the forms to open a DEMAT and Trading account, delivery instruction slip and market/off-market transfer forms.
12. Complete the KYC (Know Your Customer) process by filling out the required forms, submitting identity and address proof documents, and understanding the verification procedure followed by banks.

Part – IV Foundation Course
(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|--------------------------|----------|------------|---------|
| 24IKS3FC | Indian Knowledge Systems | FC - III | - | 2 |

| Unit | Content |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Indian Knowledge System (IKS) Basic Concepts - Introduction - Journey of Indian Culture and Civilization - Hindu Philosophical System - Contribution of Indian Knowledge System in Science and Arts - Indian Knowledge System and Way of Life - The Implicit Concepts in Indian Knowledge System - Social Viewpoint in Indian Knowledge system - Idea of Vasudhaiva Kutumbakam. |
| 2 | Indian Culture, Art & Architecture - Introduction - Concept of Culture - Culture and Heritage - General Characteristics of Culture - Indian Culture - Indian Culture during the Modern and Contemporary Period -The Factors of Unity in Diversity - Aspects of Indian culture - Indian Architecture - Architecture of Tamil Nadu |
| 3 | Vedic Mathematics - Introduction - History of Vedic Mathematics - Addition - Subtraction - Base Method - Sub Base Method - Multiplication by numbers consisting of all 9s - Division - Special Methods of Division - Straight Division. |
| 4 | Science and Technology in Indian Knowledge System(IKS) - Introduction - The Indian S & T Heritage - Metals and Metalworking Technology - Lost wax casting of Idols and Artefacts - Literary sources for Science and Technology - Technology in Ancient India - Significant Science and Technology Discovery in Ancient India - Council of Scientific and Industrial Research - Animal Science in Ancient India - Biodiversity and folk traditions. |
| 5 | History of Trade and Commerce in Ancient India - Introduction - Indigenous Banking System - Rise of Intermediaries - Transport - Major Trade Centres - Major Exports and Imports - Position of Indian Subcontinent in World Economy. |
| 6 | Indigenous Agriculture and IKS - Introduction - History of Indian Agriculture - Indigenous Knowledge - Organic Farming and Natural Fertilization - Mixed Cropping and Crop Rotation - Ecological and Socioeconomic Impacts of Indigenous Farming - Challenges and Future Directions. |
| 7 | Traditional Water Management Systems of India - Introduction - Methodology - Traditional Water Management Systems - Northern Region - North Western Region - North Eastern Region - Central Indian Region - Southern Indian Region. |

| Unit | Content |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8 | Traditional Foods and Festival of India - History - Introduction - Foods Consumed in Different Regions of India - Eating Styles of India - Traditional Equipment's used for Cooking - Changes in Consumption of Traditional Foods - Traditional Foods/Modern Functions - The Future of Traditional Foods - Traditional Festivals of India. |
| 9 | Sports in India-From Ancient Period to Modern Period - Introduction - Indus Valley Civilization - Early Hindu Period/ Epic Period - Traditional Indoor and Outdoor Games - British Period - Post Independence - Modern period. |
| 10 | Nobel Laureates of Indian Origin & Inspiring Scientists of India and their Contributions - History of the Nobel Prize - Nobel Prize Insignia - Indian Nobel Prize winners and their Biography - Inspiring Scientists and their Contributions. |

| Reference Resources | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | https://www.education.gov.in/shikshakparv/docs/background_note_Stimulating_Indian_Knowledge_Systems_Arts_Culture.pdf |
| 2 | Singh, R. K., King, C. A., & Barrett, D. A. (2010). Traditional ecological knowledge and agricultural sustainability in India. <i>Indian Journal of Traditional Knowledge</i> , 9(2), 231- 243 |

**Components for Internal Assessment and
Distribution of Marks for CIA and ESE (Theory)**

| Max Marks | Marks for | | Components for CIA | | | | | | |
|-----------|-----------|-----|--------------------|-----------|--------|-----------|------------|-------------------|-------|
| | CIA | ESE | CIA | | Model | | Attendance | Active Engagement | Total |
| 100 | 25 | 75 | Actual | Weightage | Actual | Weightage | 5 | 5 | 25 |
| | | | 50 | 5 | 75 | 10 | | | |

Question Paper Pattern

| Component | Duration in Hours | Section A | | | Section B | | | Section C | | | Total |
|-----------------|-------------------|------------------|------------------|---------|------------------|------------------|--------|------------------|------------------|--------|-------|
| | | Type of Question | No. of Questions | Marks | Type of Question | No. of Questions | Marks | Type of Question | No. of Questions | Marks | |
| CIA | 2 | MCQ | 8 | 8x1=8 | Either or | 3 | 3x6=18 | Either or | 3 | 3x8=24 | 50 |
| Model Exam /ESE | 3 | MCQ | 10 | 10x1=10 | Either or | 5 | 5x5=25 | Either or | 5 | 5x8=40 | 75 |

**Components for Internal Assessment and
Distribution of Marks for CIA (Lab)**

| Max Marks | Marks for | | Components for CIA | | | | | | |
|-----------|-----------|-----|--------------------|-----------|--------|-----------|------------------------|-------------|-------|
| | CIA | ESE | Test | | Model | | Experiments / Programs | Observation | Total |
| 100 | 40 | 60 | Actual | Weightage | Actual | Weightage | Marks | 5 | 40 |
| | | | 50 | 10 | 60 | 15 | 10 | | |

Examination Pattern

| Component | Duration in Hours | Marks | | | Total Marks |
|--------------------------|-------------------|----------------|--------|-----------|-------------|
| | | Practical Exam | Record | Weightage | |
| Test | 2 | 50 | - | 10 | 50 |
| Model | 3 | 60 | - | 15 | 60 |
| Experiments | - | - | - | 10 | 10 |
| Observation | - | - | - | 05 | 05 |
| Total Marks - CIA | | | | 40 | 40 |
| ESE | 3 | 50 | 10 | - | 60 |

**Components for Internal Assessment and
Distribution of Marks for CIA (Foundation Course -Theory)***

| Max Marks | Marks for | | Components for CIA | | | | |
|-----------|-----------|-----|--------------------|-----------|--------|-----------|-------|
| | CIA | ESE | CIA | | Model | | Total |
| 50 | | | Actual | Weightage | Actual | Weightage | |
| | | 50 | - | 50 | 25 | 50 | 25 |

*FC-III-Indian Knowledge Systems – A self-study course with an open book assessment

Question Paper Pattern

| Duration in Hours | Mode of Exam | Type of Questions | No. of Questions | Marks |
|-------------------|--------------|-------------------|------------------|-----------|
| 2 | Offline | Open Choice | 5 (Out of 8) | 5 x 10=50 |

**Components for and Distribution of Marks for ESE (Theory)
Ability Enhancement Compulsory Courses (AECC)
&
Question Paper Pattern**

| Duration in Hours | Mode of Exam | Type of Questions | No. of Questions | Marks |
|-------------------|--------------|-------------------|------------------|---------|
| 2 | Online | MCQ | 50 | 50x1=50 |



Semester 4

| Semester – 4 | | | | | | | | | |
|--------------|------|------------------------------------|------------------------------------------------------|-------------|-------------------|------------|-----|------------|-----------|
| Course Code | Part | Course Category | Course Name | Hours/ Week | Examination | | | Credits | |
| | | | | | Duration in Hours | Max. Marks | | | |
| | | | | | | CIA | ESE | | Total |
| 24TAM41L | I | Language - I | Tamil - IV | 4 | 3 | 25 | 75 | 100 | 3 |
| 24HIN41L | | | Hindi - IV | | | | | | |
| 24MAL41L | | | Malayalam - IV | | | | | | |
| 24FRE41L | | | French - IV | | | | | | |
| 24ENG42L | II | Language - II | English - IV | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC43C | III | Core – VII | Human Resource Management | 6 | 3 | 25 | 75 | 100 | 4 |
| 24BBC44C | III | Core - VIII | Financial Management | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC45P | III | Core Lab - IV | Advanced Data Analytics for Business Decisions - Lab | 4 | 3 | 40 | 60 | 100 | 2 |
| 24BBC46A | III | Allied - IV | Quantitative Techniques for Management | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC47P | III | SEC - II | Retail Management-Lab | 2 | 3 | 40 | 60 | 100 | 2 |
| 24IDT4AE/ | IV | AECC - IV | Innovation and Design Thinking/ | 2 | 2 | - | 50 | 50 | 2 |
| 24IPR4AE/ | | | Intellectual Property Rights/ | | | | | | |
| 24END4AE | | | Entrepreneurship Development | | | | | | |
| 24EXC4LA | V | Extra-curricular and Co-curricular | Liberal Arts | - | - | 50 | - | 50 | 2 |
| Total | | | | 30 | | | | 800 | 24 |

Part – I: Language – I-தமிழ் – IV

(All the Undergraduate Programmes)

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-------------|--------------|--------------|---------|
| 24TAM41L | Tamil - IV | Language - I | 4 | 3 |

Course Objectives

The Course intends to cover

- தமிழ் இலக்கிய வளர்ச்சிப் போக்குகள் மற்றும் நுட்பங்களை அறியச்செய்தல்.
- தமிழ்நாடு அரசுப் பணியாளர் தேர்வாணையம் நடத்தும் போட்டித்தேர்வுகளை எதிர்கொண்டு வேலைவாய்ப்பினைப் பெறும் வகையில் மாணவர்களைத் தயார்படுத்துதல்.
- கேட்டல், பேசுதல், படித்தல் மற்றும் எழுதுதல் முதலான திறன்களை(LSRW Skills) அறியச்செய்தல்.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | இலக்கியங்கள் மூலம் பண்டைய தமிழக மக்களின் வாழ்க்கை முறை, சமூக மதிப்பீடுகள், கலை, கலாச்சாரம் போன்றவற்றை ஆழமாகப் புரிந்துகொள்ளுதல். | K1- K3 |
| CLO2 | தமிழறிஞர்களின் தமிழ்த்தொண்டை அறிவதன் மூலம் தமிழ் மொழியின் செழுமை, அதன் இலக்கிய வளம் மற்றும் பண்பாட்டு அடையாளம் ஆகியவற்றை அறிந்துகொள்ளுதல். | K1- K3 |
| CLO3 | பிழையின்றி பேசுவதற்கும் எழுதுவதற்கும் இலக்கணத்தை பயன்படுத்துதல். | K1 - K3 |
| CLO4 | தமிழ்நாடு அரசு நடத்தும் அனைத்து தேர்வுகளுக்கும் கல்வி மற்றும் மொழி வளர்ச்சிக்கும் கலைச்சொற்கள் ஒரு முக்கியத் தேவையாக உள்ளன என்பதனை உணர்தல். | K1- K3 |
| CLO5 | உரைநடை பத்தியை வாசித்து கேட்கப்படும் வினாக்களுக்கு ஏற்ற பதில்களைத் தேடுவதன் மூலம் ஆழமான புரிதல் ஏற்படும் என்பதை உணர்தல். | K2, K3 |
| K1 - Remember; K2 - Understand; K3 – Apply | | |

| Unit | Content | No. of Hours |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | <p>(இலக்கிய வரலாறு)</p> <ul style="list-style-type: none"> • திருக்குறள் • நாலடியார் • நான்மணிக்கடிகை • பழமொழி நானூறு • முதுமொழிக்காஞ்சி • திரிகடுகம் • இன்னா நாற்பது • சிறுபஞ்சமூலம் • ஏலாதி • ஒளவையார் பாடல்கள் | 12 |
| II | <p>(தமிழ் அறிஞர்களும், தமிழ்த்தொண்டும்)</p> <p>திராவிட மொழிகள் தொடர்பான செய்திகள்:</p> <ul style="list-style-type: none"> • உ.வே.சாமிநாத ஐயர் • தெ.பொ.மீனாட்சி சுந்தரம் • சி.இலக்குவனார். <p>தமிழ்ப்பணி தொடர்பான செய்திகள்:</p> <ul style="list-style-type: none"> • தேவநேய பாவாணர் • பெருஞ்சித்திரனார் • ஜி.யு.போப் • வீரமாமுனிவர். <p>தமிழ்த்தொண்டு மற்றும் சான்றோர் தொடர்பான செய்திகள்:</p> <ul style="list-style-type: none"> • பாவேந்தர் • டி.கே.சிதம்பரனாதர் • தவத்திரு குன்றக்குடி அடிகளார் • கண்ணதாசன் • வேலுநாச்சியார் • முடியரசன் • தமிழ் ஒளி • கி.வா.ஜகந்நாதர் • நாமக்கல் கவிஞர் | 12 |

| Unit | Content | No. of Hours |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| III | <p>(இலக்கணம்)</p> <ul style="list-style-type: none"> • குறில், நெடில் வேறுபாடு • லகர, ளகர, ழகர வேறுபாடு • னகர, ணகர வேறுபாடு • ரகர, றகர வேறுபாடு • சுட்டெழுத்துக்கள் • வினா எழுத்துக்கள் • இனவெழுத்துக்கள் • ஒருமைப் பன்மை அறிதல் • எழுத்துப்பிழை, ஒற்றுப்பிழை அறிதல் • ஒரெழுத்து ஒருமொழி • ஒருபொருள் பன்மொழி • இருபொருள் குறிக்கும் சொற்கள் | 12 |
| IV | <p>(எழுத்துத்திறன் மற்றும் கலைச்சொற்கள்)</p> <ul style="list-style-type: none"> • சொற்றொடர் அமைத்தல் • தொடர் வகைகள் • செய்வினை, செய்ப்பாட்டு வினை • தன்வினை, பிறவினை. <p>திணைமரபு:</p> <ul style="list-style-type: none"> • உயர்திணை, • அஃறிணை. <p>பால் மரபு:</p> <ul style="list-style-type: none"> • ஆண்பால், • பெண்பால், • பலர்பால். • வினைமரபு • தொகை மரபு • நிறுத்தல் குறியீடுகள். <p>பல்துறை சார்ந்த கலைச்சொல்லுக்கு நேரான தமிழ்ச்சொல் அறிதல்:</p> <ul style="list-style-type: none"> • அறிவியல், கல்வி, மருத்துவம், மேலாண்மை, சட்டம், புவியியல், தொழில்நுட்பம், ஊடகம், தகவல் தொழில்நுட்பம். | 12 |

| Unit | Content | No. of Hours |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| V | <p>வாசித்தல், புரிந்து கொள்ளும் திறன் மற்றும் எளிய மொழி பெயர்ப்பு</p> <p>வாசித்தல் : கொடுக்கப்பட்ட பத்தியை வாசித்து கேட்கப்பட்ட வினாக்களுக்கு சரியான விடையைத் தேர்ந்தெடுத்தல்.</p> <p>புரிந்துகொள்ளும் திறன்: உவமைத் தொடரின் பொருளறிதல், மரபுத்தொடரின் பொருளறிதல், பழமொழிகள் பொருளறிதல்.</p> <p>எளிய மொழி பெயர்ப்பு: ஆங்கிலம் மற்றும் பிறமொழிச் சொற்களுக்கு இணையான தமிழ்ச் சொற்கள் அறிதல், பயன்பாட்டில் உள்ள ஆங்கிலச் சொற்களை மொழிபெயர்த்தல்.</p> | 12 |
| Total Hours | | 60 |
| Reference Books | | |
| 1 | வரதராசன் மு. (2021, 34-வது பதிப்பு), தமிழ் இலக்கிய வரலாறு, சாகித்திய அகாதமி பதிப்பு. | |
| 2 | டாக்டர் தமிழண்ணல், (2010, 26-ம் பதிப்பு), புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சி புத்தக நிலையம். | |
| 3 | பேரா. முனைவர் பாக்கியமேரி, (2022, 6-ம் பதிப்பு), வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு, நியூசெஞ்சுரி புக் ஹவுஸ்(பி). லிட். | |
| 4 | பாலசுப்பிரமணியம் சி. (2016, 27-ம் பதிப்பு), தமிழ் இலக்கிய வரலாறு, சாரதா பதிப்பகம். | |
| 5 | டாக்டர் பூவண்ணன், (2019, முதல் பதிப்பு), தமிழ் இலக்கிய வரலாறு, வர்த்தமான் பதிப்பகம் | |
| 6 | பேராசிரியர்.விமலானந்தம் மது.ச. (2017, முதல் பதிப்பு), தமிழ் இலக்கிய வரலாறு, பாரி நிலையம் | |
| 7 | விஜயராகவன், முனைவர் கண்ணன் கு. (2018, முதல் பதிப்பு), தமிழ் இலக்கியம் இலக்கணம் வரலாறு, பாவை பப்ளிக்கேஷன். | |
| 8 | முனைவர் இராசா கி. (2019, 4-ம் பதிப்பு), தமிழ் இலக்கிய வரலாறு, நியூ செஞ்சுரி புக் ஹவுஸ் (பி). லிட். | |
| 9 | முனைவர் அருணாச்சலம் மு. (2017 6-ம் பதிப்பு), தமிழ் இலக்கிய வரலாறு, அருண் பதிப்பகம். | |
| 10 | குமரன் கோ (2010, முதல் பதிப்பு), தமிழ் இலக்கணம் எளிய அறிமுகம், சந்தியா பதிப்பகம். | |

Part – I: Language – I-Hindi – IV

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-------------|--------------|--------------|---------|
| 24HIN41L | Hindi – IV | Language - I | 4 | 3 |

Course Objectives

The Course intends to cover

- Knowledge of contemporary drama contents of Hindi literature.
- Novels and its techniques. The ability to read novels and express criticism about it and the ability to express social thoughts will improve.
- Litigation messages in Hindi and news on speech techniques.
- The Ability to write articles on their own and improve their sophisticated translation skills.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|----------------------------------------------------------------|----------------------------------------------------------------------------|-----------------|
| CLO1 | Understand the text styles and grammatical elements. | K1 |
| CLO2 | Discuss the content of a reading passage. | K2 |
| CLO3 | Develop an interest in the appreciation of short stories. | K3 |
| CLO4 | Comprehend the grammatical structures and sentence making. | K4 |
| CLO5 | Understand the language and developing English to Hindi translation skill. | K4 |
| K1 - Remember; K2 - Understand; K3 – Apply; K4-Analyse. | | |

| Unit | Contents | No. of Hours |
|------------------------|---------------------------------------------------------------------------------------------------------------|--------------|
| I | Drama: Dhuvasaminy By Jayashankar Prasad | 12 |
| II | Novel - Nirmala – Premchand | 12 |
| III | Lokkothi & Muhavare - Naveen Hindi Vyakaran (Selected Lokkokthi -10 & Muhavare-10) | 12 |
| IV | General Essay :Aadarsh Nibandh | 12 |
| V | Translation : Hindi-English Only Anuvadh Abhyas – III (16-30 Lessons Only) | 12 |
| Total Hours | | 60 |
| Text Books | | |
| 1. | Jayashankar Prasad (2015), Dhuvasaminy, Drama, , Publisher : Dakshin Bharath Hindi Prachar Sabha, Chennai-17. | |
| 2 | Premchand(2015),Nirmala,Novel , Rajkamal Prakashan,1B Nethaji Subash Marg,New Delhi | |
| Reference Books | | |
| 1. | Rajnath Sharma , Hindi Sahithya Ka Saral Ithihaas, , Vinod Pustak Mandir,Agra-282 | |
| 2. | Kavya Pradeep Rambadri Shukla, Hindi Bhavan, 36, Tagore Town, Allahabad – 211 002. | |

Part – I: Language – I-Malayalam – IV

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|----------------|--------------|--------------|---------|
| 24MAL41L | Malayalam - IV | Language - I | 4 | 3 |

Course Objectives

The Course intends to cover

- Knowledge of contemporary drama contents of Malayalam literature.
- Screen play and its techniques. The ability to read drama and express criticism about it and the ability to express social thoughts will improve.
- Litigation messages in Malayalam and news on speech techniques.
- Ability to write articles on their own and improve their creative skills.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|----------------------------------------------------------------|---------------------------------------------------------------------|-----------------|
| CLO1 | Get a basic knowledge of drama | K1 |
| CLO2 | Can read and critique Screenplay | K1 |
| CLO3 | Create interest in art literature courses | K2 |
| CLO4 | The hope of writing a Drama or a Screen Play. | K3 |
| CLO5 | The idea of creating new works and critique knowledge will improve. | K4 |
| K1 - Remember; K2 - Understand; K3 – Apply; K4-Analyse. | | |

| Unit | Content | No. of Hours |
|--------------------|----------------------------|--------------|
| I | Screen Play – Perumthachan | 12 |
| II | Screenplay – Perumthachan | 12 |
| III | Drama – Saketham | 12 |
| IV | Drama – Saketham | 12 |
| V | Drama – Saaketham | 12 |
| Total Hours | | 60 |

Text Books

1. Perumthachan – M.T.Vasudevan Nair, DC Books
2. Saketham – C.N.Sreekandan Nair, DC Books.

Reference Books

1. Malayala Nataka Sahithya Charithram. G Sankara Pillai (Kerala SahithyaAkademi, Trissur)
2. Malayala NatakaSahithya Charithram, Vayala Vasudevan Pillai (Kerala SahithyaAkademi Thrissur).
3. Natakam- Oru Patanam (C.J. SmarakaPrasanga Samithi, Koothattukulam)
4. Nataroopacharcha, Kattumadam Narayanan (NBS, Kottayam)
5. Chalachithra sameeksha – Vijayakrishanan.
6. Cinemayude Paadangal Visakalanavum Veekshanavum – Jose-K.Manual

Part – I: Language – I-French – IV

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-------------|--------------|--------------|---------|
| 24FRE41L | French – IV | Language - I | 4 | 3 |

Course Objective

The Course intends to

To communicate during easy or habitual tasks requiring a basic and direct information exchange on familiar subjects to use simple words to describe his or her surroundings and communicate immediate needs

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|----------------------------------------------------------|-----------------|
| CLO1 | Comprehend the grammatical structures in various genres. | K1 |
| CLO2 | Understand the text styles and poetical elements. | K2 |
| CLO3 | Develop an interest in the appreciation of literature. | K3 |
| CLO4 | Discuss and respond to content of a reading passage. | K4 |
| K1 - Remember; K2 - Understand; K3 – Apply; K4 - Analyse | | |

| Unit | Contents | No. of Hours |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Etape 5 (Lecons 1 - 3) | 12 |
| II | Etape 6 (Lecons 1 - 3) | 12 |
| III | Etape 7 - Leçons 1 – 2 | 12 |
| IV | Etape 7 – Leçon 3, Etape 8 – Leçon 1 | 12 |
| V | Etape 8 – Leçons 2 – 3 | 12 |
| Etapes 5 to 8, Pages 63 to 114 | | |
| Total Hours | | 60 |
| Text Book | | |
| 1 | Adomania 2 , Methode de francais , Céline Himber, Corina Brillant, Sophie Erlich Publisher: HACHETTE FLE, Goyal Publishers and Distributors Pvt Ltd, New Delhi (9810322459) | |
| Reference Book | | |
| 1 | Latitudes 1 , Yves Loiseau, Régine Merieux Publisher: French and European Publications Inc, Goyal publishers and distributors Pvt Ltd, New Delhi (9810322459). | |

Part – II: Language-II-English –IV
(All the Undergraduate Programmes)

English for Competitive Examinations

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-------------|-------------|--------------|---------|
| 24ENG42L | English-IV | Language-II | 4 | 3 |

Course Objectives

The course intends to cover

- Essential Language Skills for Competitive Exams.
- Grammatical Mastery and Writing Skills for confident formal communication.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Identify grammatical errors with precision and write with clarity and accuracy. | K1 |
| CLO2 | Identify, comprehend and use a wide range of vocabulary to enhance verbal expression. | K2, K3 |
| CLO3 | Construct structured essays, reports, and formal letters with clarity and coherence. | K3 |
| CLO4 | Interpret diverse texts using strategic reading techniques to analyze content and answer comprehension questions effectively | K3 |
| CLO5 | Understand and employ the technical and administrative terms to excel in the career. | K2, K3 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

Part-II: Language-II-English-IV

| Unit | Content | No. of Hours |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Grammar Parts of Speech, Concord, Tenses, Active Voice and Passive Voice, Types of Sentences – Statement, Interrogative, Imperative, Exclamatory, Transformation of Statements into imperatives, Interrogatives into Statements, Assertive into Negatives, Exclamatory Sentences into Statements, Imperatives into Inquisitive Interrogatives, Imperatives into Appreciative Statements, Verbs, Main Verbs and Auxiliary Verbs, Regular and Irregular Verbs | 12 |
| II | Grammar Infinitives, Gerunds, Participles, Question Tags, Sentence Patterns, Types of Sentences – Simple, Compound and Complex, Phrases and Clauses, Degrees of Comparison – Positive, Comparative & Superlative, Direct into Indirect and Indirect to Direct, Synthesis of Sentences, Punctuations, | 12 |
| III | Vocabulary and Writing Skills Synonyms, Antonyms, Homonyms, Homophones, Collocations, Idioms & Phrases, Phrasal verbs, Spelling of words, Correct usage of words, One word substitution, Word Creation, Singular and plural (including Zero plural), Derivatives, Abbreviations, British and American English, Compound words and Figures of speech. Letter writing (formal and informal) – Types of Letters, Precis Writing, Jumbled sentences, Finding out the right order of sentences, Making queries, Inferences, Blanks, Substitutions. | 12 |
| IV | Reading Comprehension Types of Passages (Narrative, Argumentative, Factual, Descriptive), Unseen passages (News Paper, Headlines, Editorials, Government related News), Question Types - Strong question, Weak question, Match the following, Sentence Completion, Ascertainment of facts | 12 |
| V | Administrative Vocabulary & Translation Marketing and Sales, Human Resource, Finance and Operation, Organization and Management, Office Procedures and Document Word Translation, Sentence Translation, Tense related translation tasks, Tense / Voice related tasks. (Simple words - Basic Level) | 12 |
| Total Hours | | 60 |
| Reference Books | | |
| 1. | Bhatnagar, R. P., & Bhargava, R. (2017). English for Competitive Examinations (3 rd ed.). New Delhi: Laxmi Publications. | |
| 2. | Wren, P. C., & Martin, H. (2007). High School English Grammar & Composition (11 th ed.). New Delhi: S. Chand & Company | |
| 3. | Gupta, S. C. (2014). English Grammar & Composition (2 nd ed.). Meerut: Arihant Publications | |
| 4. | Aggarwal, R. S., & Aggarwal, V. (2022). Quick Learning Objective General English (Revised ed.) New Delhi, S. Chand Publishing. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1. | https://onlinecourses.nptel.ac.in/noc24_hs73/preview | |

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|---------------------------|------------|------------|---------|
| 24BBC43C | Human Resource Management | Core - VII | 6 | 4 |

Course Objectives

This Course intends to cover

- Principles, functions, and practices of Human Resource Management for effective workforce management.
- Recruitment, training, appraisal, and managing employees while addressing career development, industrial relations, and ethical HR practices.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|--------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------|
| CLO1 | Understand HRM and its strategic aspects. | K1 - K2 |
| CLO2 | Apply HR Planning and Job Analysis to design job roles. | K1 - K3 |
| CLO3 | Analyse recruitment, selection and induction practices. | K1 - K4 |
| CLO4 | Evaluate training, appraisal methods, and feedback mechanisms. | K1 – K5 |
| CLO5 | Understand career planning and grievance management. | K1 - K2 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 2 | - | 1 | 1 | - |
| CLO2 | 2 | - | 1 | 2 | 1 |
| CLO3 | 2 | 1 | - | 2 | 1 |
| CLO4 | 1 | 1 | - | 2 | 1 |
| CLO5 | - | 1 | 1 | 2 | - |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - VII: Human Resource Management

| Unit | Content | No. of Hours |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Human Resource Management: Meaning, Nature, Scope and Objectives - Functions - Role and status of HR manager - Human resource policies - Organization of HR department - Ethics in HRM - Ethical issues in Mergers and Acquisitions. Strategic HRM: In Indian and global context - HRM Vs. SHRM. | 20 |
| II | Human Resource Planning: Concept - Objectives - Need and Importance - Factors affecting HRP - Process - Forecasting human resource requirement - Problems. Job Analysis: Process - Job description - Job specification - Role analysis - Job evaluation. | 16 |
| III | Recruitment: Definition and Objectives of Recruitment - Recruitment Policy - E-Recruitment. Selection: Definition and Purpose of Selection - E-Selection - Recruitment and selection in Indian Scenario. Induction: Meaning and benefits - Content of an Induction Programme. | 16 |
| IV | Training: Objectives and Need for Training - Evaluating training effectiveness. Performance appraisal: Concept - Objectives - Importance - Process – Methods (Trait, Behavioural and Results Method) - Feedback - Recent developments. | 20 |
| V | Career Planning: Stages - Process - Career Development programme – Elements and Benefits. Discipline and Grievance Management: Causes of Grievances - Implications - Redressal methods. Indiscipline - Causes - Settlement of Industrial disputes. | 18 |
| Total Hours | | 90 |
| Text Books | | |
| 1 | Dr. P. Subba Rao, (2024), Personnel and Human Resource Management (Text & Cases) (6 th ed.), Himalaya Publishing House. | |
| 2 | Dr. C.B. Gupta (2025), Human Resource Management: Text & Cases (20 th Revised ed.), Sultan Chand & Sons. | |
| Reference Books | | |
| 1 | G. Dessler (2021), Human Resource Management (16 th ed.), Pearson Education. | |
| 2 | V.S.P. Rao (2023), Human Resource Management Text and Cases, 3 rd Edition, Excel Books. | |
| Web Resources(SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc21_mg21/preview | |
| 2 | https://onlinecourses.nptel.ac.in/noc20_hs48/preview | |

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|----------------------|-------------|------------|---------|
| 24BBC44C | Financial Management | Core - VIII | 4 | 3 |

Course Objectives

This Course intends to cover

- Concepts of financial management, including sources of finance, financing decisions, capital structure, dividend policy and working capital management.
- Leverage analysis, capital budgeting, and cost of capital calculations to support managerial decision-making.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|------------------------------------------------------------------------|-----------------|
| CLO1 | Understand financial management concepts and functions. | K1 – K2 |
| CLO2 | Apply cost of capital and leverage for financing decisions. | K1 – K3 |
| CLO3 | Understand capital structure and dividend policies. | K1 – K2 |
| CLO4 | Apply capital budgeting techniques for investment decisions. | K1 – K3 |
| CLO5 | Understand working capital management for effective liquidity control. | K1 – K2 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 2 | 1 | - | 1 | - |
| CLO2 | 3 | 3 | 1 | - | - |
| CLO3 | 2 | 2 | 1 | - | - |
| CLO4 | 2 | 2 | - | - | - |
| CLO5 | 1 | 1 | - | - | - |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - VIII: Financial Management

| Unit | Content | No. of Hours |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Financial Management: Definition, Scope and Objectives - Profit Maximization and Wealth Maximization - Functions. Sources of Finance: Short term and Long term (Shares - Debentures - Preferred Stock - Debt). (Theory only) | 10 |
| II | Financing Decisions: Cost of Capital - Classification of Costs - Factors affecting Cost of Capital - Importance - Cost of Specific Sources of Capital (Equity - Preferred Stock Debt - Reserves) Weighted Average Cost of Capital. Leverages: Meaning - Types of leverages - EBIT - EPS Analysis (Problem only). | 14 |
| III | Capital structure: Meaning - Types – Factors influencing Capital Structure – Optimum Capital Structure - Capital Structure Theories (Modigliani-Miller Approach, Gordon & Walter's Model). Dividend: Meaning - Sources of Dividends - Dividend Policy- Determinants of Dividend Policy - Types. (Theory only) | 14 |
| IV | Capital Budgeting: Meaning, objectives, features - Capital budgeting process – Techniques (Payback - ARR - NPV - IRR - Profitability Index) (Problem only). | 10 |
| V | Working Capital Management: Meaning - Characteristics and Concepts - importance - Determinants. Cash management: Motives for holding cash - Objectives and Strategies of Cash Management - Receivables management - objectives - Credit policies (80% Theory and 20% Problem) | 12 |
| Total Hours | | 60 |
| Text Books | | |
| 1 | M.Y. Khan & P.K Jain (2022), Financial Management, 4 th edition, Tata Mc Graw Hill. | |
| 2 | P.V. Kulkarni (2022), Financial Management, Himalaya Publishing House. | |
| Reference Books | | |
| 1 | R.K. Sharma & Shashi K. Gupta (2023), Financial Management, Kalyani Publishers. | |
| 2 | Prasanna Chandra (2023), Financial Management, Tata Mc Graw Hill. | |
| 3 | I.M. Pandey (2024), Financial Management, Pearson Publications. | |
| 4 | S.N. Maheswari (2019), Financial Management Principles and Practice, Sultan Chand and Sons. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc25_mg138/preview | |

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|------------------------------------------------------|---------------|------------|---------|
| 24BBC45P | Advanced Data Analytics for Business Decisions - Lab | Core Lab - IV | 4 | 2 |

| Unit | Content | No. of Hours |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Introduction to Advanced Business Analytics: Evolution of analytics in business decision-making - Advanced applications of Power BI, Tableau, and Excel - Business applications of AI and ML - Exploring advanced Power BI and Tableau features - Data manipulation for business insights - Connecting BI tools to real-world datasets. (Ex.No.1 to 3) | 10 |
| II | Predictive Analytics for Business: Introduction to predictive modelling - Regression analysis for business forecasting - Customer behaviour and demand forecasting - Implementing regression models for demand forecasting - Customer segmentation using predictive analytics - Creating time-series forecasting models. (Ex.No.4 and 5) | 12 |
| III | Optimization and Decision Support Systems: Linear and nonlinear optimization for business decisions - Monte Carlo simulations for risk assessment - Decision trees and scenario modelling - Running optimization models using Excel Solver - Implementing Monte Carlo simulations for risk modelling - Creating decision trees for business case scenarios. (Ex.No.6 and 7) | 12 |
| IV | Machine Learning and AI in Business Analytics: Introduction to ML algorithms for business insights - Clustering and classification techniques - AI-powered recommendation systems - Clustering customers based on purchasing behaviour - Implementing recommendation systems for retail data - Using AI for automated business forecasting. (Ex.No.8 and 9) | 12 |
| V | Real-Time Business Intelligence and Case Studies: Real-time analytics and dashboard automation - Creating real-time dashboards using Power BI and Excel - Case studies on data-driven decision-making - Case study discussion on AI-powered business decision-making - Final project presentation and feedback session. (Ex.No.10 to 12) | 14 |
| Total Hours | | 60 |

Text Books

| | |
|---|------------------------------------------------------------------------------------------------------------|
| 1 | T. H. Davenport (2007), Competing on analytics: The new science of winning, Harvard Business Review Press. |
| 2 | A. Maheshwari (2014), Business intelligence and data mining, Springer. |

Reference Books

| | |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Ramesh Sharda, Dursun Delen, Efraim Turban, David King (2018), Business intelligence: A managerial perspective on analytics (4 th ed.), Pearson. |
| 2 | Paulraj Ponniah (2010), Business intelligence: A practical guide for managers, Wiley. |
| 3 | David Loshin (2012), Business intelligence: The savvy manager's guide (2 nd ed.), Morgan Kaufmann. |

Web Resources (SWAYAM/NPTEL)

| | |
|---|-------------------------------------------------------------------------------------------------------------------------|
| 1 | https://onlinecourses.nptel.ac.in/noc24_cs65/preview |
|---|-------------------------------------------------------------------------------------------------------------------------|

List of Practicals

1. Import a retail sales dataset into Power BI and Tableau. Create a dashboard to visualize monthly sales trends and customer distribution.
2. Use Excel to clean a raw dataset (remove duplicates, handle missing values, format data) and create pivot tables for sales by region and product category.
3. Use Excel regression analysis to forecast monthly sales based on historical data (independent variables like advertising spend, seasonal factors).
4. Build a time-series forecasting model in Tableau/Power BI to predict customer demand for the next 3 months using historical sales data.
5. Use Excel Solver to optimize production planning by minimizing cost while meeting demand constraints.
6. Run a Monte Carlo simulation in Excel for risk assessment.
7. Build a decision tree model in Excel to choose the best business investment option based on risk-return trade-offs.
8. Use Python to perform clustering (K-means) on customer purchase data to segment them into groups.
9. Build a recommendation system prototype (Excel or Python) to suggest products based on past purchases and visualize it in Tableau.
10. Create a real-time sales dashboard in Power BI by connecting to an online dataset or simulated streaming data.
11. Analyse a case study dataset (e.g., Amazon or Flipkart sales) and present insights using AI-driven features in Power BI (like Smart Narrative).
12. Create a KPI dashboard with drill-down features for Marketing Operations data.

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|----------------------------------------|-----------|--------------|---------|
| 24BBC46A | Quantitative Techniques for Management | Allied-IV | 4 | 3 |

Course Objectives:

The course intends to cover

- The concepts, models, and techniques of Operations Research for effective decision-making in business and management.
- The ability to formulate and solve real-world problems using linear programming, transportation, assignment, project scheduling, and game theory methods.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|--------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|
| CLO1 | Learn basic concepts and applications of Operations Research and linear programming | K1 |
| CLO2 | Understand the formulation and methods of solving transportation problems | K2 |
| CLO3 | Interpret the models and techniques used in assignment and travelling salesman problems | K2 |
| CLO4 | Solve project scheduling problems using network techniques such as PERT and CPM | K3 |
| CLO5 | Apply game theory techniques to solve two-person zero-sum games | K3 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

CLO – PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|------------------------|------|-----------------------|------|------------------|------|
| CLO1 | 3 | 2 | 2 | 2 | 2 |
| CLO2 | 3 | 2 | 2 | 1 | 2 |
| CLO3 | 2 | 2 | 1 | 2 | 1 |
| CLO4 | 3 | 2 | 2 | 2 | 1 |
| CLO5 | 3 | 2 | 1 | 2 | 1 |
| 3 - Substantial (high) | | 2 - Moderate (medium) | | 1 - Slight (low) | |

Allied IV: Quantitative Techniques for Management

| Unit | Content | No. of Hours |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Operation Research: Introduction – roles of operation research in business, management and engineering – classification of models- principles of modeling – requirements for employing Linear Programming Problem technique – mathematical formulation of Linear Programming Problem – basic assumptions – graphical method for the solution of a Linear Programming Problem – Simplex method(only). | 12 |
| II | Transportation Model: Mathematical formulation of a transportation problem– methods for finding initial basic feasible solution – north west corner rule - least cost method- Vogel’s approximation method –transportation algorithm (Modified distribution method) – degeneracy in transportation problems – unbalanced transportation problems- maximization case in transportation problems (simple problems). | 12 |
| III | Assignment Model: Mathematical formulation of an assignment problem – difference between transportation and assignment problem – Assignment algorithm (Hungarian method) – unbalanced assignment models – maximization case in assignment problems – Travelling salesman problem. | 12 |
| IV | Network Scheduling: Basic terminologies – rules for constructing a project network – network computations – floats – Programming evaluation review technique – basic differences between Programming evaluation review technique and Critical path method. | 12 |
| V | Game Theory: two person zero - sum games – the maximin – minimax principle – games without saddle points, mixed strategies – dominance property – graphical method for 2xn games – mx2 games. | 12 |
| Total Hours | | 60 |

Text Book

| | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Sundaresan.V.K, Ganapathy Subramanian.K.S, Ganesan.K (2017), “Resource Management Techniques”, A.R.S. Publications,11 th edition. Unit I - Chapter 1 Pg. No.1.1-1.4, 1.6 Chapter 2 Pg. No. 2.1-2.5 Chapter 3 Pg. No. 3.1 Unit II - Chapter 7 Pg. No. 7.1-7.5 Unit III - Chapter 8 Pg. No. 8.1-8.2, 8.4-8.7,8.9 Unit IV- Chapter 15 Pg. No. 15.1-5.7 Unit V - Chapter 16 Pg. No. 16.1-16.4,16.6,16.7 |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Reference Books

| | |
|----|----------------------------------------------------------------------------------------|
| 1. | Hamdy A Taha (2002), “Operations Research” Pearson Education, 7 th edition. |
| 2. | Gupta.P.K, Hira.D.S(2010), “Problems in Operations Research”, S. Chand Publishers . |

Web Resources (SWAYAM / NPTEL)

| | |
|----|-------------------------------------------------------------------------------------------|
| 1. | https://nptel.ac.in/courses/111105100 |
|----|-------------------------------------------------------------------------------------------|

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|-------------------------|----------|------------|---------|
| 24BBC47P | Retail Management - Lab | SEC - II | 2 | 2 |

| Unit | Content | No. of Hours |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Introduction: Meaning of Retail and Retailing - Types of Retail formats - Steps in setting up a Retail Organisation - Business Models in Retail - Top players in Indian Retail Market. (Ex.No.1 to 4) | 5 |
| II | Retail Store Operations: Store layout and design - Objectives of store layout - Types of store layouts (grid, free-flow, boutique, racetrack) - Space planning - Importance of store ambience - Merchandise Planning and Assortment: Merchandise mix - Assortment strategies - Factors influencing retail pricing - Types of pricing strategies - Role of Technology in Retail Store Operations - Point of Sale (POS) systems and billing automation - Use of AI, AR/VR, and chatbots in modern retail. (Ex.No.5 to 6) | 5 |
| III | Customer Relationship Management in Retail: Understanding Retail Customers - Customer Service and Complaint Handling - Elements of good customer service - Common types of customer complaints in retail - Techniques of complaint handling - Role of Loyalty Programs and CRM Tools - Types of retail loyalty programs (points-based, cashback, tiered memberships, subscription models). Shopper Behaviour and Expectations: In-store behaviour (impulse buying, browsing, brand switching) - Online vs. offline shopper behaviour - Changing customer expectations in the digital era. (Ex.No.7 to 9) | 8 |
| IV | Retail Marketing and Promotion: Retail branding and positioning - Advertising and sales promotion - Visual merchandising techniques - Online vs. offline promotion strategies - Event marketing - Social media and influencer marketing. (Ex.No.10 to 11) | 6 |
| V | Emerging Trends in Retail: E-tailing and omnichannel retailing - Private labels - Sustainable and green retailing - AI and data analytics in retail - Mobile commerce and digital payments - Experiential retailing - Future retail trends in India. (Ex.No.12) | 6 |
| Total Hours | | 30 |
| Text Books | | |
| 1 | Swapna Pradhan, (2017), Retailing Management: Text and Cases (5 th ed.), McGraw Hill Education | |
| 2 | Dr. Suja R. Nair, (2022), Retail Management: Text & Cases (2 nd Revised ed.), Himalaya Publishing House | |
| Reference Books | | |
| 1 | Gibson G. Vedamani, (2017), Retail Management: Functional Principles and Practices (5 th ed.), Jaico Publishing House. | |
| 2 | Chetan Bajaj, Rajnish Tuli & Nidhi Varma Srivastava, (2016), Retail Management (2 nd ed.), Oxford University Press. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc22_mg51/preview | |

List of Practicals

1. Visit a supermarket and a specialty store and note down differences in product variety, target customers, and pricing strategy. Write a 2-page comparative report with photos/diagrams.
2. Collect 10 newspaper ads or online screenshots of different retailers in India. Create a classification table mapping each retailer to its retail format.
3. Prepare a One-page business model diagram using MS PowerPoint/Canva (covering customer segments, value proposition, revenue streams, etc.) for a mock retail store.
4. Select one Indian retail giant, research its business model, market share, and customer engagement strategies and prepare a Power point presentation with minimum 5 slides.
5. Visit a local supermarket, observe and sketch the store layout. Details to capture: Location of entrance and exits, Placement of billing counters, Sections for perishables (fruits, vegetables, dairy), Placement of FMCG products (soaps, detergents, snacks, beverages), Arrangement of promotional displays/offers. Draw a store-mapping diagram with labels and a short note (150–200 words) on how the layout influences customer movement and purchases.
6. List the product assortment of a Super market in a three-column table (Product Categories, number of SKUs and Price range).
7. Visit any apparel store and observe the technologies used in operations. Details to capture (with photos/screenshots where possible): POS machine, barcode scanner, digital receipts, stock updates, tagging systems (barcode/RFID), loyalty app, SMS offers, self-checkout kiosk. Prepare a 1–2 page report with photos/screenshots and a short explanation of each technology, highlighting how it improves efficiency, speed, and customer.
8. Visit a local retail outlet, observe at least 25 customers. Prepare a customer profile table with columns: Customer Segment - Demographics - Typical Purchases Needs/Expectations.
9. Collect details of 3 retail loyalty programs. Compare benefits offered, cost of joining (if any), and how they retain customers. Create a comparison chart with 3 columns (Program – Benefits – Tools/Features) and write a short conclusion (150 words) on which program seems most effective and why.
10. Visit a nearby clothing store and click/sketch how mannequins, shelf displays, and lighting are used to attract customers. Prepare a short note on effectiveness.
11. Compare the shopping experience of mobile accessory across an offline store and an online platform. Prepare a chart on price, convenience, and delivery.
12. Collect one current news article about a retail trend in India. Prepare a Canva poster on the future trends.

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|------------------------------|-----------|--------------|---------|
| 24IDT4AE | Innovation & Design Thinking | AECC - IV | 2 | 2 |

Course Objectives

The Course intends to cover

- The principles and practices of innovation and design thinking.
- Creative problem-solving skills, and impactful solutions across diverse contexts.
- The user-centered research techniques, and practical tools to generate, prototype.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand the design thinking methodology for solving real-world problems. | K2 |
| CLO2 | Generate, prototype, and test innovative ideas. | K3 |
| CLO3 | Frame human-centered solutions and present them effectively. | K3 |
| CLO4 | Enhance their confidence in collaborative approaches to problem solving. | K3 |
| CLO5 | Integrate innovation strategies into business, social, and creative contexts to drive sustainable impact. | K4 |
| K2 - Understand; K3 – Apply ; K4 - Evaluate | | |

Ability Enhancement Compulsory Course (AECC)-IV : Innovation & Design Thinking

| Unit | Content | No. of Hours |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Principles of Design Thinking: Usability, Human-centeredness, Empathy, Iteration. Types of Innovation: Product, Process, Business Model, Social Innovation. | 6 |
| II | Empathy & Defining The Problem: Understanding users - observation - ethnographic research - interviews - Empathy maps and personas - Identifying user pain points - Problem framing vs. problem solving. | 6 |
| III | Ideation & Creativity Tools: Divergent vs. Convergent Thinking - Brainstorming and mind mapping techniques – SCAMPER. Idea selection and prioritization frameworks. | 6 |
| IV | Prototyping & Experimentation: Low-fidelity vs. High-fidelity prototyping - Storyboarding, sketching, mock-ups, and role-playing - Rapid prototyping with simple materials. | 6 |
| V | Testing & Feedback: Testing prototypes with users - Iteration and learning from feedback. Innovation Strategy & Implementation : Scaling ideas into innovations - Measuring innovation impact - Barriers - Design Thinking for social change and sustainability. | 6 |
| Total Hours | | 30 |
| Text Books | | |
| 1 | Kelley, T., & Kelley, D. (2013). Creative Confidence: Unleashing the Creative Potential Within Us All. Crown Business. | |
| 2 | Dan Saffer, Designing for Interaction, New Riders Publications, 2010. | |
| Reference Books | | |
| 1 | Plattner, H., Meinel, C., & Leifer, L. (Eds.). (2018). Design Thinking Research: Making Distinctions: Collaboration versus Cooperation. Springer. | |
| 2 | Liedtka, J., & Ogilvie, T. (2011). Designing for Growth: A Design Thinking Tool Kit for Managers. Columbia University Press. | |
| 3 | Martin, R. (2009). The Design of Business: Why Design Thinking Is the Next Competitive Advantage. Harvard Business Press. | |
| Web Resources (SWAYAM / NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc22_mg32/preview | |
| 2 | https://onlinecourses.swayam2.ac.in/imb23_mg65/preview | |
| 3 | https://onlinecourses.nptel.ac.in/noc20_hs08/preview | |

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|------------------------------|-----------|------------|---------|
| 24IPR4AE | Intellectual Property Rights | AECC - IV | 2 | 2 |

Course Objectives

This course intends to cover

- Identify the objectives, forms, duration, and scope of protection for different types of intellectual property.
- Understand the global IP framework and India's compliance challenges.
- Recognize the role of IP as a policy tool for national, economic, social, and cultural growth.
- Gain knowledge of substantive laws and procedural mechanisms of IP in India.
- Analyze recent national and global trends in intellectual property rights.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand the core principles of intellectual property protection. | K2 |
| CLO2 | Identify the key concepts and principles of trademarks. | K2 |
| CLO3 | Comprehend the legal implications and rights under copyright law. | K3 |
| CLO4 | Understand the legal consequences of patents and trade secrets. | K2 |
| CLO5 | Comprehend IP rights for plant varieties and farmers, along with their legal and social aspects. | K4 |
| K1 - Remember; K2 - Understand; K3 – Apply; K4 – Analyze | | |

Ability Enhancement Compulsory Course(AECC)-IV : Intellectual Property Rights

| Unit | Content | No. of Hours |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Introduction to Intellectual Property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights. | 6 |
| II | Trade Marks: Purpose and function of trademarks, acquisition of trade mark rights, protectable matter, selecting, and evaluating trade mark, trade mark registration processes. | 6 |
| III | Law of Copy Rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law. | 6 |
| IV | Law of Patents, Trade Secrets: Foundation of patent law, patent searching process, ownership rights and transfer. Trade Secrets: Trade secrete law, determination of trade secrete status, liability for misappropriations of trade secrets, protection for submission, trade secrete litigation. | 6 |
| V | Protection of Plant Varieties and Farmers' Rights: Introduction -Meaning and Definition - Registrable Varieties of Plants - Procedure for Registration - Plant Varieties Protection. | 6 |
| Total Hours | | 30 |
| Text Books | | |
| 1 | V K Ahuja - Law Relating To Intellectual Property Rights - Lexis Nexis; Third Edition , 2017. | |
| 2 | Elizabeth Verkey - Intellectual Property Law and Practice – Eastern Book Company – 2018. | |
| 3 | S R Myneni - Law of Intellectual Property - Asia Law House – 2021. | |
| Reference Books | | |
| 1 | B.L. Wadehra - Law Relating To Intellectual Property – Universal Law Publishing House, New Delhi , 2011. | |
| 2 | Avtar Singh - Intellectual Property Law - Eastern Book Company – 2015. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc22_hs59/preview | |

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|------------------------------|-----------|--------------|---------|
| 24END4AE | Entrepreneurship Development | AECC – IV | 2 | 2 |

Course Objectives

This course intends to cover

- Basics of starting and managing entrepreneurial ventures.
- Tools for planning, funding, and entrepreneurial growth.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|----------------------------------------------|-----------------|
| CLO1 | Understand the concept of entrepreneurship. | K2 |
| CLO2 | Gain knowledge on entrepreneurial motivation | K2 |
| CLO3 | Apply business idea evaluation | K3 |
| CLO4 | Create systematic Business plan | K3 |
| CLO5 | Analyse business finance and support | K4 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

Ability Enhancement Compulsory Course – IV : Entrepreneurship Development

| Unit | Content | No. of Hours |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Entrepreneurship: Meaning of Entrepreneurship - Characteristics, Functions and Types of entrepreneurs - Intrapreneur vs. Entrepreneur - Need for Entrepreneurship in economic development - Contribution to GDP, Employment, Innovation. | 5 |
| II | Entrepreneurial Motivation: Meaning - Need for Achievement Theory - Risk-taking Behaviour - Innovation and Entrepreneur – Economic & non-economic factors affecting entrepreneurial growth. | 5 |
| III | Business Ideas: Sources of Business Ideas & Opportunity Identification – Idea generation techniques (Brainstorming, Design Thinking). Business incubation - Technical Assistance for small business – Preparation of Feasibility Reports, Legal Formalities and Documentation | 7 |
| IV | Business Plan: Meaning and importance of Business Plan – Structure and components – Market Study. | 7 |
| V | Entrepreneurial finance: Sources of finance (Bank, Angel investors, Venture Capital, Crowdfunding, Mudra Loans) - Institutional support to entrepreneurs (DIC, KVIC, EDII and MSME). | 6 |
| Total Hours | | 30 |
| Text Books | | |
| 1 | C.B. Gupta and N.P. Srinivasan (2020), Entrepreneurship Development, Sultan Chand and Sons. | |
| 2 | Dr. Vasant Desai and Dr. Kulveer Kaur (2021), Entrepreneurship Development and Management, Himalaya Publications. | |
| Reference Books | | |
| 1 | Dr. Jayashree Suresh (2021), Entrepreneurial Publications, Margham Publications | |
| 2 | S S Khanka (2020), Entrepreneurial Development, Sultan Chand and Sons, New Delhi. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc25_mg95/preview | |

**Components for Internal Assessment and
Distribution of Marks for CIA and ESE (Theory)**

| Max Marks | Marks for | | Components for CIA | | | | | | |
|-----------|-----------|-----|--------------------|-----------|--------|-----------|------------|-------------------|-------|
| | CIA | ESE | CIA | | Model | | Attendance | Active Engagement | Total |
| 100 | 25 | 75 | Actual | Weightage | Actual | Weightage | 5 | 5 | 25 |
| | | | 50 | 5 | 75 | 10 | | | |

Question Paper Pattern

| Component | Duration in Hours | Section A | | | Section B | | | Section C | | | Total |
|------------------|-------------------|------------------|------------------|---------|------------------|------------------|--------|------------------|------------------|--------|-------|
| | | Type of Question | No. of Questions | Marks | Type of Question | No. of Questions | Marks | Type of Question | No. of Questions | Marks | |
| CIA | 2 | MCQ | 8 | 8x1=8 | Either or | 3 | 3x6=18 | Either or | 3 | 3x8=24 | 50 |
| Model Exam / ESE | 3 | MCQ | 10 | 10x1=10 | Either or | 5 | 5x5=25 | Either or | 5 | 5x8=40 | 75 |

**Components for Internal Assessment and Distribution of
Marks for CIA (Lab)**

| Max Marks | Marks for | | Components for CIA | | | | | | |
|-----------|-----------|-----|--------------------|-----------|--------|-----------|------------------------|-------------|-------|
| | CIA | ESE | Test | | Model | | Experiments / Programs | Observation | Total |
| 100 | 40 | 60 | Actual | Weightage | Actual | Weightage | Marks | 5 | 40 |
| | | | 50 | 10 | 60 | 15 | 10 | | |

Examination Pattern

| Component | Duration in Hours | Marks | | | Total Marks |
|--------------------------|-------------------|----------------|--------|-----------|-------------|
| | | Practical Exam | Record | Weightage | |
| Test | 2 | 50 | - | 10 | 50 |
| Model | 3 | 60 | - | 15 | 60 |
| Experiments | - | - | - | 10 | 10 |
| Observation | - | - | - | 05 | 05 |
| Total Marks - CIA | | | | 40 | 40 |
| ESE | 3 | 50 | 10 | - | 60 |

**Components for and Distribution of Marks for ESE (Theory) Ability
Enhancement Compulsory Courses (AECC)
& Question Paper Pattern**

| Duration in Hours | Mode of Exam | Type of Questions | No. of Questions | Marks |
|-------------------|--------------|-------------------|------------------|---------|
| 2 | Online | MCQ | 50 | 50x1=50 |



Semester 5

| Semester – 5 | | | | | | | | | |
|--------------|------|-----------------|----------------------------------------------|------------|-------------------|------------|-----|------------|-----------|
| Course Code | Part | Course Category | Course Name | Hours/Week | Examination | | | | Credits |
| | | | | | Duration in Hours | Max. Marks | | | |
| | | | | | | CIA | ESE | Total | |
| 24BBC51C | III | Core - IX | Accounting for Managers - II | 6 | 3 | 25 | 75 | 100 | 4 |
| 24BBC52C | III | Core - X | Advertising and Sales Promotion | 5 | 3 | 25 | 75 | 100 | 4 |
| 24BBC53C | III | Core - XI | Research Methods for Management | 5 | 3 | 25 | 75 | 100 | 4 |
| 24BBC54C | III | Core - XII | Services Marketing | 4 | 3 | 25 | 75 | 100 | 3 |
| 24BBC55C | III | Core - XIII | Taxation Law and Practice | 5 | 3 | 25 | 75 | 100 | 4 |
| 24BBC5AE | III | Elective - I | Customer Relationship Management (Marketing) | 5 | 3 | 25 | 75 | 100 | 3 |
| 24BBC5BE | | | Industrial Relations (Human Resource) | | | | | | |
| 24BBC5CE | | | Insurance Principles and Practice (Finance) | | | | | | |
| 24BBC56I | III | Internship | Internship | - | 2 | 50 | - | 50 | 2 |
| Total | | | | 30 | | | | 650 | 24 |

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|------------------------------|-----------|------------|---------|
| 24BBC51C | Accounting for Managers - II | Core - IX | 6 | 4 |

Course Objectives

This course intends to cover

- Concepts of cost and management accounting.
- Analysis of cost analysis and its techniques to solve accounting problems.
- The analysis of financial statements.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand the cost concepts and classification of cost. | K1-K2 |
| CLO2 | Prepare cost sheets for inventory control. | K1-K3 |
| CLO3 | Analyse the financial statements through comparative analysis and Ratio analysis | K1-K4 |
| CLO4 | Prepare fund flow and cash flow statements by calculating funds and cash from operations. | K1-K3 |
| CLO5 | Analyse standard costing variances and apply marginal costing and cost–volume–profit (CVP) analysis for effective cost control. | K1-K4 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 2 | 1 | 1 | 1 | - |
| CLO2 | 3 | 2 | 1 | 1 | 1 |
| CLO3 | 3 | 2 | 2 | 1 | 1 |
| CLO4 | 3 | 2 | 1 | 1 | - |
| CLO5 | 3 | 2 | 2 | 1 | 1 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - IX: Accounting for Managers - II

| Unit | Content | No. of Hours |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Cost Accounting: Meaning, Definition, Scope, Objectives, Functions, Merits and Demerits of Cost Accounting. Distinction Between Financial Accounting, Cost Accounting and Management Accounting. Elements Of Cost, Cost Concepts and Cost Classification. (Only Theory) | 14 |
| II | Cost Sheet: Components - Preparation of Cost Sheet. Stores Control: EOQ - Maximum, Minimum, Re-ordering and Danger Levels. Pricing of Material Issues - FIFO, LIFO. (Only Problems) | 18 |
| III | Financial Statement Analysis: Preparation of Comparative and Common-size Statements, Trend Analysis and Interpretation. Ratio Analysis: Meaning, Significance and Limitations. Classification of Ratios: Liquidity Ratios (Current, Quick and Absolute Liquid), Profitability Ratios (Gross Profit, Net Profit, Operating and Operating Profit) and Solvency Ratios (Debt-Equity, Debt to Assets, Proprietary and Interest Coverage). (Only Problems) | 20 |
| IV | Fund Flow Analysis: Meaning, Definition, Merits and Demerits of Fund-flow Analysis - Preparation of Fund-flow Statement - Schedule of Changes in Working Capital - Computation of Funds from Operations - Sources and Applications of Funds. Cash Flow Analysis: Meaning, Definition, Merits and Demerits - Preparation of Cash-flow Statement (Direct and Indirect Methods). Calculation of Cash from Operations. (Only Problems) | 22 |
| V | Standard Costing: Meaning and Definition, Variance Analysis, Material and Labour Variances. Marginal Costing: Meaning and Definition, Cost-Volume-Profit Analysis. Budgetary Control: Meaning, Definition and Features. Types of Budget - Production, Production Cost, Cash, Sales and Flexible. (Theory and Problems) | 16 |
| Total Hours | | 90 |
| * Theory- 30% & Problems- 70% | | |
| Text Books | | |
| 1 | T.S.Reddy & Dr.Y.Hariprasad Reddy (2025), Cost Accounting, 6 th Revised Edition, Margham Publications. | |
| 2 | M.N. Arora (2024), A Textbook of Cost and Management Accounting, 12 th Edition, Vikas Publishing House | |
| Reference Books | | |
| 1 | S.P. Jain, K.L.Narang, Simmi Agrawal, Monika Sehgal (2024), Cost and Management Accounting, 17 th Revised Edition, Kalyani Publishers. | |
| 2 | R.S.N. Pillai, V.Bagavathi (2023), Management Accounting, 4 th Revised Edition, S. Chand Publishing. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.swayam2.ac.in/imb26_mg55/preview | |

| Course Code | Course Name | Category | Hours/Week | Credits |
|-------------|---------------------------------|----------|------------|---------|
| 24BBC52C | Advertising and Sales Promotion | Core - X | 5 | 4 |

Course Objectives

This course intends to cover

- The principles and practices of advertising, advertising media, agencies, copywriting, layout design and campaign planning.
- Sales force management and sales promotion techniques.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|------------------------------------------------------------------------|-----------------|
| CLO1 | Remember various forms of advertising media. | K1 |
| CLO2 | Understand the functions of advertising agencies. | K1 - K2 |
| CLO3 | Understand the principles of advertising layout and campaign planning. | K1 - K2 |
| CLO4 | Understand and apply the principles of sales force management. | K1 - K2 |
| CLO5 | Analyse and implement sales promotion and personal selling techniques. | K1 - K4 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 2 | 2 | 1 | 1 | 1 |
| CLO2 | 1 | 2 | 1 | 2 | 2 |
| CLO3 | 1 | 1 | 1 | 2 | 1 |
| CLO4 | 1 | 2 | 2 | 1 | 1 |
| CLO5 | 1 | 1 | 1 | 1 | 1 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - X: Advertising and Sales Promotion

| Unit | Content | No. of Hours |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Advertising: Meaning , Importance and Objectives of Advertising. Advertising Media: Types of Advertising Media - Traditional, Digital, Outdoor and Specialty. Publicity Literature: Brochures, Booklets, Pamphlets, Catalogues, Folders and House Organs. Digital Media Advertising: Social media, Email Advertising, Banner Ads, Pop-ups and Video Ads. | 18 |
| II | Advertising Agencies: Meaning and Role of Advertising Agencies - Advertising Budget - Advertising Appeals - Advertising Organization. Ethics in Advertising: Social Effects of Advertising. Advertising Copy: Objectives, Essentials, Types and Elements - Writing of Advertising Copy - Headlines, Body Copy, Illustrations, Catch Phrases and Slogans, Identification Marks. | 15 |
| III | Advertising Layout: Principles, Functions and Design - Qualities of a Good Layout - Size of Advertising - Repeat Advertising. Advertising Campaign: Steps in Campaign Planning. | 13 |
| IV | Sales Force Management: Importance of Sales Force Management - Sales Force Decisions - Sales Force Size - Recruitment and Selection - Training Methods - Motivating Salesmen - Controlling Sales Force - Compensation and Incentives - Fixing Sales Territories and Quotas - Evaluation of Sales Performance. | 15 |
| V | Sales Promotion: Meaning and Methods of Sales Promotion - Promotional Strategies - Marketing Communication and Persuasion. Promotional Instruments: Techniques of Sales Promotion - Consumer and Dealer Promotion - After-Sales Service - Packing and Guarantee. Personal Selling: Objectives - Salesmanship - Process of Personal Selling - Types of Salesmen. | 14 |
| Total Hours | | 75 |
| Text Books | | |
| 1 | S. L. Gupta, Niket Mehta, Utkarsh Gupta (2025), Advertising, Sales Promotion and Personal Selling, 1 st Edition, Sultan Chand & Sons. | |
| 2 | S.A. Chunawalla (2022), Advertising, Sales and Promotion Management, 6th Edition, Himalaya Publishing House. | |
| Reference Books | | |
| 1 | P. Sharma & P.Nagpal (2025), Advertising and Sales Promotion, 3 rd Edition, Vipul Prakashan. | |
| 2 | C N Sontakki (2011), Advertising and Sales Management, 3 rd Edition, Kalyani Publishers. | |
| 3 | G. E. Belch, M.A.Belch & K.Purani (2021), Advertising and Promotion: An Integrated Marketing Communications Perspective, 2 th Edition, McGraw-Hill Education. | |
| 4 | T. A. Shimp & J.C.Andrews (2025), Advertising, Promotion, and Other Aspects of Integrated Marketing Communications 11 th Edition, Boston: Cengage Learning. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.swayam2.ac.in/imb26_mg50/preview | |

| Course Code | Course Name | Category | Hours/ Week | Credits |
|-------------|---------------------------------|-----------|-------------|---------|
| 24BBC53C | Research Methods for Management | Core - XI | 5 | 4 |

Course Objectives

This Course intends to cover

- Basic concepts of research, fundamentals of sampling and scaling techniques, methods of data collection.
- Process of analysing the data, interpretation and report writing.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------|
| CLO1 | Understand fundamental concepts of research, types and research process. | K1 - K2 |
| CLO2 | Understand and apply the sampling design and scaling techniques. | K1 - K3 |
| CLO3 | Construct a method for data collection and tabulate the collected data. | K1 - K3 |
| CLO4 | Analyse the collected data to prove or disprove the hypothesis. | K1 -K4 |
| CLO5 | Interpret the data and prepare a research report. | K1 -K4 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 3 | 3 | 2 | 2 | 1 |
| CLO2 | 2 | 3 | 2 | 2 | 1 |
| CLO3 | 3 | 2 | 1 | 2 | 3 |
| CLO4 | 2 | 3 | 2 | 1 | 2 |
| CLO5 | 2 | 3 | 3 | 1 | 2 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - XI: Research Methods for Management

| Unit | Content | No. of Hours |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Research: Definition, Objectives, Concepts, Types and Importance of Research - Online Research and its Importance. Research Process: Selecting the Research Problem - Techniques Involved in Defining a Problem. Research Design: Features, Concepts and Types of Research Design. | 12 |
| II | Sampling Design: Steps and Types of Sampling Design - Sampling Errors and Non-Sampling Errors - Criteria for Selecting a Sampling Procedure - Determining the Size of the Sample. Scaling: Classification and Types of Scaling Techniques - Primary Scaling (Nominal, Ordinal, Interval, Ratio Scales) - Attitude Scaling (Likert) - Comparative Scaling (Paired and Rank Order). | 15 |
| III | Data Collection: Primary Data - Observation, Interview, Questionnaire and Schedule - Advantages and Disadvantages - Secondary Data - Sources (Published, Unpublished) - Online Data (Primary and Secondary). Data Preparation: Editing - Coding - Classification - Tabulation - Data Cleaning - Data Entry - Pictorial Representation. | 13 |
| IV | Processing and Data Analysis: Hypothesis - Basic Concepts and Procedure for Hypothesis Testing - Parametric Tests (T Test, Z Test, ANOVA) - Non-Parametric Tests (Chi-Square, Rank Correlation) - Application of SPSS (Problems Only). | 20 |
| V | Interpretation and Report Writing: Interpretation Techniques and Precautions - Report Writing - Steps in Writing a Report - Layout of the Research Report - Types of Reports - Mechanics of Writing a Research Report - Ethical Issues Related to Publishing and Plagiarism. | 15 |
| Total Hours | | 75 |
| Text Books | | |
| 1 | C.R.Kothari, Gaurav Garg(2023), Research Methodology (Methods & Techniques), 5 th Edition, New Age International Publishers, New Delhi. | |
| 2 | S.P.Gupta(2021), Statistical Methods, 46 th Edition, Sultan Chand & Sons, New Delhi. | |
| Reference Books | | |
| 1 | Naresh K.Malhotra, Satyabusan Dash (2022), Marketing Research, 7 th Edition, Pearson Education Publishers. | |
| 2 | Uma Sekaran, Roger Bougie (2020), Research Methodology, NMIMS Global Access - School for Continuing Education Publishers. | |
| 3 | Rabi Narayan Subudhi, Sumita Mishra, Malabika Sahoo (2024), Research Methodology, Taxmann Publishers. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.swayam2.ac.in/imb26_mg124/preview | |
| 2 | https://onlinecourses.swayam2.ac.in/ini26_lb01/preview | |

| Course Code | Course Name | Category | Hours/ Week | Credits |
|-------------|--------------------|------------|-------------|---------|
| 24BBC54C | Services Marketing | Core - XII | 4 | 3 |

Course Objectives

This Course intends to cover

- The concept and distinctive characteristics of services marketing.
- Perception & expectations of customers and key dimensions of service quality.
- The significance of technology and digital resources in marketing of services.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand the nature and evolution of the service economy. | K1 - K2 |
| CLO2 | Apply the 7Ps - to optimize service delivery. | K1 - K3 |
| CLO3 | Understand the models of service quality to align customer expectations with actual service performance. | K1 – K3 |
| CLO4 | Deliver the sectoral service needs. | K1 – K3 |
| CLO5 | Apply strategies to improve the service delivery. | K1 – K3 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 2 | 2 | - | 2 | 2 |
| CLO2 | - | 3 | 2 | 2 | - |
| CLO3 | - | 3 | 3 | 2 | 2 |
| CLO4 | 2 | 2 | - | 2 | - |
| CLO5 | 2 | 2 | 2 | 2 | 2 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - XII: Services Marketing

| Unit | Content | No. of Hours |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Understanding Service Market: Revolution in Service Marketing - Key Features - Causes for Service Revolution - Role of Technology in the Growth of Service Sector in India - Differences Between Goods and Services - Distinctive Characteristics - Importance and Classification of Services - Players in Service Sector. | 13 |
| II | Service Marketing System: Expanded Marketing Mix (7Ps Framework) - Service Product Planning - Service Pricing Strategy - Service Distribution - Employees and Customers Roles in Service Delivery - Service Promotions - Tangible and Physical Evidence in Services - Role of Technology in Service Marketing - Service Recovery and Recovery Strategies - New Service Development - Service Marketing Triangle. | 15 |
| III | Service Quality: Understanding Customer Expectations and Perceptions - Measuring Service Quality (GAP Model, SERVQUAL Model) - Service Quality Function Development (SQFD) - Service Quality Management - Quality Function Deployment for Services. | 16 |
| IV | Sectoral Classification of Services: Hospitality - Travel and Tourism - Financial - Logistics - Educational - Entertainment - Healthcare and Medical - Telecom Services - Nature, Challenges and Opportunities in Various Services. | 16 |
| V | Financial Services: Marketing of Financial Services - Devising of Marketing Strategies - Education as a Service - Marketing Strategies for Educational Services. Service Innovation: Design - Challenges - Types of Service Innovation - Service Marketing in E-Commerce and Telemarketing Services. | 15 |
| Total Hours | | 75 |
| Text Books | | |
| 1 | Christopher Lovelock, Jochen Wirtz & Jayanta Chatterjee (2016), Service Marketing: People, Technology, Strategy, 7 th Edition, Pearson Publications., Chennai. | |
| 2 | Valarie A. Zeithaml, Mary Jo Bitner, Dwayne D. Gremler, Martin Mende (2024), Service Marketing: Integrating Customer Focus Across the Firm, 8 th Edition, McGraw-Hill Education (India) Pvt. Ltd., Uttar Pradesh. | |
| Reference Books | | |
| 1 | K. Rama Mohana Rao (2024), Service Marketing, 2 nd Edition, Pearson Education India, New Delhi. | |
| 2 | S. L. Gupta & Ritika Israney (2025), Services Marketing: Text and Cases, 1 st Edition, Sultan Chand & Sons, New Delhi. | |
| 3 | K. Douglas Hoffman & John E. G. Bateson (2024), Services Marketing: Concepts, Strategies & Cases, 6 th Edition, Cengage Learning, Boston. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.swayam2.ac.in/imb26_mg124/preview | |
| 2 | https://onlinecourses.swayam2.ac.in/ini26_lb01/preview | |

| Course Code | Course Name | Category | Hours/ Week | Credits |
|-------------|---------------------------|-------------|-------------|---------|
| 24BBC55C | Taxation Law and Practice | Core - XIII | 5 | 4 |

Course Objectives

This Course intends to cover

- Direct taxes, including income under salary, house property and business or profession.
- Indirect taxation and GST and reverse charge mechanism.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|-----------------------------------------|-----------------|
| CLO1 | Understand basic concepts of taxation. | K1 – K2 |
| CLO2 | Compute salary & house property income. | K1 – K3 |
| CLO3 | Calculate business/professional income. | K1 – K3 |
| CLO4 | Understand GST framework. | K1 – K2 |
| CLO5 | Apply GST for tax and compliance. | K1 – K3 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

CLO-PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 3 | 3 | 2 | 2 | 1 |
| CLO2 | 2 | 3 | 2 | 2 | 1 |
| CLO3 | 3 | 2 | 1 | 2 | 3 |
| CLO4 | 2 | 3 | 2 | 1 | 2 |
| CLO5 | 2 | 3 | 3 | 1 | 2 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Core - XIII: Taxation Law and Practice

| Unit | Content | No. of Hours |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Income Tax: Basic Concepts - General Principles of Taxation - Distinction Between Direct and Indirect Taxes - Important Definitions Under Income Tax Act, 1961 - Income Exempted from Income Tax - Residential Status - Basis of Charge (Theory and Problems). | 13 |
| II | Income from Salary: Meaning - Basis of Charge - Components of Salary - Allowances - Perquisites - Deductions Under Section 16 - Computation of Taxable Income from Salary. Income from House Property: Meaning - Basis of Charge - Types of Rental Value - Computation of Taxable Income from House Property - Deductions Under Section 24 (Only Problems). | 18 |
| III | Income from Profits and Gains of Business or Profession: Meaning - Basis of Charge - Business vs Profession - Admissible and Inadmissible Expenses and Income - Depreciation - Computation of Taxable Business and Professional Income (Only Problems). | 14 |
| IV | Indirect Taxation: Introduction to Indirect Taxation - Constitutional Powers of Taxation (Article 265, 246, Seventh Schedule) - Goods and Service Tax - Pre-GST Tax Structure and Deficiencies. Administration of Indirect Taxation in India: GST - Basics of GST - Constitutional Framework of GST - GST Models - CGST / IGST / SGST / UTGST. GST Council: Guiding Principles of the GST Council - Functions of the GST Council (Only Theory). | 15 |
| V | Levy and Collection of GST: Basic Concepts of Time, Value and Place of Taxable Supply - Input Tax Credit - Computation of GST Liability - Procedural Compliance Under GST - Registration - Tax Invoice, Debit and Credit Note - Accounts and Records - Electronic Way Bill - Return - Payment of Tax - Refund Procedures - Audit - Basic Overview on Integrated Goods and Service Tax (IGST) (Only Theory). | 15 |
| Total Hours | | 75 |
| *Theory-50% & Problems-50% | | |
| Text Books | | |
| 1 | V.P.Gaur, D.B.Narang, Puja Gaur, Rajeev Puri (2025), Income Tax Law and Practice (Incorporating Income Tax Act, 1961 as amended up to state) Assessment Year 2025 - 2026 53 rd Edition, Kalyani Publications. | |
| 2 | Dr. R. Parameswaran, CA. P. Vishwanathan (2023), Indirect Taxes GST and Customs Laws, 3 rd Edition, Kavin Publications. | |
| Reference Books | | |
| 1 | T.S.Reddy, Y.Hari Prasad Reddy, (2020), Business Taxation (Goods and Services Tax - GST) Reprint 2020, 2 nd Revised Edition, Margham Publications. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.swayam2.ac.in/imb26_mg124/preview | |
| 2 | https://onlinecourses.swayam2.ac.in/ini26_lb01/preview | |

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|----------------------------------|------------------|--------------|---------|
| 24BBC5AE | Customer Relationship Management | Elective - I (A) | 5 | 3 |

Course Objectives

The course intends to cover

- The concepts, strategies and technologies of customer relationship management.
- CRM principles to enhance customer value and organizational performance.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand the fundamentals, evolution and scope of customer relationship management. | K1 - K2 |
| CLO2 | Analyze customer value, satisfaction, retention and loyalty in retaining customer relationship. | K1 - K4 |
| CLO3 | Apply CRM strategies and frameworks in different business contexts. | K1 - K3 |
| CLO4 | Understand the role of technology and analytics in CRM. | K1 - K2 |
| CLO5 | Implement CRM practices and performance metrics across industries. | K1 – K3 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse | | |

CLO - PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 1 | - | - | 2 | - |
| CLO2 | 1 | - | 1 | - | - |
| CLO3 | 3 | 2 | 1 | 1 | 1 |
| CLO4 | 2 | 1 | - | 2 | 3 |
| CLO5 | 1 | 1 | - | 1 | 2 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Elective - I (A): Customer Relationship Management

| Unit | Content | No. of Hours |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Customer Relationship Management (CRM): Meaning and Definition - Objectives and Scope of CRM - Differences Between Relationship Marketing and CRM and Its Evolution - Benefits and Challenges in Implementation of CRM - CRM in Manufacturing and Service Industries. | 13 |
| II | Customer Value: Customer Satisfaction - Customer Expectations - Customer Retention. Customer Loyalty: Framework - Loyalty Ladder - Types of Customer Loyalty - Loyalty Matrix - Customer Lifetime Value (CLV) - Switching Cost - Complaint Handling and Analysis. | 16 |
| III | CRM Strategies and Processes: CRM Strategy - CRM Planning Process - Customer Segmentation and Profiling - Identify, Differentiate, Interact, Customize (IDIC) Model - Relationship Lifecycle - Customer Portfolio Management - Key Success Factors for CRM - Organizational Culture and CRM. | 14 |
| IV | CRM Technology: Objectives - Types of CRM Technology (Operational, Analytical and Collaborative CRM). Sales Force Automation (SFA): Marketing Automation - Service Automation. E-CRM: Customer Databases - Data Warehousing and Data Mining - CRM Software Solutions. | 16 |
| V | CRM Implementation and Performance Measurement: Process and Barriers in CRM Implementation - Change Management in CRM - CRM Performance Metrics - Measuring CRM Effectiveness Through ROI - Comparison Between the Two - Customer Experience Management - Best Practices in CRM. | 16 |
| Total Hours | | 75 |
| Text Books | | |
| 1 | Dr. Sharda Gangwar (2023), Customer Relationship Management, 1 st Edition, Himalaya Publishing House Pvt. Ltd., Bhopal. | |
| 2 | Dr.S.Sheela Rani, (2019), Customer Relationship Management, 2 nd Edition, Margham Publications, Chennai. | |
| Reference Books | | |
| 1 | Jagdish N. Sheth, Atul Parvatiyar & G. Shainesh (2017), Customer Relationship Management: Emerging Concepts, Tools and Applications, 1 st Edition, McGraw-Hill Education (India) Pvt. Ltd., New Delhi. | |
| 2 | Daniel D. Prior, Francis Buttle, Stan Maklan (2024), Customer Relationship Management: Concepts, Applications and Technologies, 5 th Edition, Routledge. | |
| 3 | Mallika Srivastava & Ankur Khare (2025), Customer Relationship Management: A Strategic Framework to Enhance Customer Experience in the Digital Age, 2 nd Edition, Vikas Publishing House Pvt. Ltd., New Delhi. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.swayam2.ac.in/imb25_mg99/preview | |

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|----------------------|------------------|--------------|---------|
| 24BBC5BE | Industrial Relations | Elective – I (B) | 5 | 3 |

Course Objectives

The course intends to cover

- Industrial relations, trade unions, collective bargaining and dispute settlement in India.
- Indian labour laws governing working conditions, wages, compensation and social security.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|------------------------------------------------------------------------------|-----------------|
| CLO1 | Understand the concept and importance of industrial relations. | K1 - K2 |
| CLO2 | Understand the role and functions of trade unions in India. | K1 – K2 |
| CLO3 | Apply collective bargaining and dispute settlement mechanisms. | K1 – K3 |
| CLO4 | Remember provisions relating to trade unions and factory working conditions. | K1 |
| CLO5 | Understand wage, compensation and social security provisions. | K1 – K3 |
| K1 - Remember; K2 - Understand; K3 - Apply | | |

CLO - PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------|------------------------------|------|-------------------------|------|
| CLO1 | 2 | 2 | 2 | 1 | - |
| CLO2 | 2 | 2 | 1 | 1 | - |
| CLO3 | 1 | 1 | 2 | 1 | - |
| CLO4 | 1 | 1 | 1 | 1 | 1 |
| CLO5 | 1 | 1 | 1 | 2 | 1 |
| 3 - Substantial (High) | | 2 - Moderate (Medium) | | 1 - Slight (Low) | |

Elective - I (B): Industrial Relations

| Unit | Content | No. of Hours |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Industrial Relations: Concept and Definition - Nature, Scope and Objectives of Industrial Relations. Parties to Industrial Relations: Employers - Employees - Government - Systems Approach to Industrial Relations - Causes, Effects and Measures to improve Industrial Relations. | 13 |
| II | Trade Unions: Meaning - Objectives and Functions of Trade Unions - Growth and Problems of Trade Union Movement in India. Collective Bargaining: Concepts - Importance - Functions and Process of Collective Bargaining - Conditions for Effective Collective Bargaining in India. | 16 |
| III | Industrial Disputes: Meaning - Causes - Forms - Methods for Prevention and Resolution of Industrial Disputes. Industrial Disputes Act, 1947: Objectives and Provisions Relating to Layoff - Closure - Retrenchment. | 14 |
| IV | Trade Unions Act, 1926: Procedures for Registration of Trade Unions - Rights - Privileges and Liabilities of Registered Trade Unions. Factories Act, 1948: Provisions Relating to Workers' Health - Safety - Welfare and Working Conditions in Factories. | 16 |
| V | Payment of Wages Act, 1936: Objectives - Scope and Provisions Governing Wage Payment and Permissible Deductions. Workmen's Compensation Act, 1923: Scope - Employer Liability and Compensation Benefits for Workplace Injuries and Occupational Hazards. Employees' State Insurance Act, 1948: Salient Features - Coverage and Social Security Benefits for Employees. | 16 |
| Total Hours | | 75 |
| Text Books | | |
| 1 | P.C.Tripathi (2013), Personnel Management and Industrial Relations, 21 st Revised Edition, Sultan Chand & Sons. | |
| 2 | N.D.Kapoor (2020), Elements of Industrial Law, 12 th Revised Edition, Sultan Chand & Sons. | |
| Reference Books | | |
| 1 | S.C.Srivastava (2020), Industrial Relations & Labour Laws, 7 th Edition, Vikas Publishing House Pvt. Ltd. | |
| 2 | Anu Bansal, Subodh Saluja, Rahul Hakhu, Ajit Bansal, Sonia Bajwa (2025), Essentials of Human Resource Management and Industrial Relations, String Production. | |
| 3 | Dr. P. Subba Rao (2024), Essentials of Human Resource Management and Industrial Relations, 6 th Edition, Himalaya Publishing House. | |
| Web Resources (SWAYAM/NPTEL) | | |
| 1 | https://onlinecourses.nptel.ac.in/noc24_mg104 | |

| Course Code | Course Name | Category | Hours / Week | Credits |
|-------------|-----------------------------------|----------------|--------------|---------|
| 24BBC5CE | Insurance Principles and Practice | Elective -I(C) | 5 | 3 |

Course Objectives

The course intends to cover:

- Various concepts and principles related to insurance and risk management.
- Role and functions of IRDAI.
- Types of insurance policies and procedure for claims.

Course Learning Outcomes

On the successful completion of the course, students will be able to

| CLO | CLO Statements | Knowledge Level |
|---------------------------------------------------|-----------------------------------------------------------------------------|-----------------|
| CLO1 | Understand basic concepts of insurance and the role of IRDAI. | K1 - K2 |
| CLO2 | Gain knowledge on life insurance policies and products. | K1 - K2 |
| CLO3 | Understand general insurance and its procedures. | K1 - K2 |
| CLO4 | Gain knowledge on fire and marine insurance. | K1 - K2 |
| CLO5 | Apply the knowledge of different types of insurance policies in daily life. | K2 - K3 |
| K1 - Remember; K2 – Understand; K3 – Apply | | |

CLO -PLO Mapping

| CLOs/PLOs | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 |
|-------------------------------|------------------------------|------|-------------------------|------|------|
| CLO1 | 3 | 3 | 2 | 2 | 1 |
| CLO2 | 3 | 2 | 2 | 1 | 1 |
| CLO3 | 3 | 2 | 2 | 1 | 1 |
| CLO4 | 3 | 2 | 2 | 1 | 1 |
| CLO5 | 3 | 2 | 1 | 1 | 1 |
| 3 - Substantial (High) | 2 - Moderate (Medium) | | 1 - Slight (Low) | | |

Elective - I(C): Insurance Principles and Practice

| Unit | Content | No. of Hours |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| I | Introduction to Risk: Meaning - Nature and Classification of Risk. Risk Management: Meaning - Objectives - Process and Methods of Risk Management. Insurance: Meaning - Nature - Functions - Principles of Insurance. Role and Functions of IRDAI. | 13 |
| II | Introduction to Risk: Meaning - Nature and Classification of Risk. Risk Management: Meaning - Objectives - Process and Methods of Risk Management. Insurance: Meaning - Nature - Functions - Principles of Insurance. Role and Functions of IRDAI. | 16 |
| III | Introduction to Risk: Meaning - Nature and Classification of Risk. Risk Management: Meaning - Objectives - Process and Methods of Risk Management. Insurance: Meaning - Nature - Functions - Principles of Insurance. Role and Functions of IRDAI. | 12 |
| IV | Fire Insurance: Meaning - Types of Fire Policies - Coverage and Principles (Subrogation - Double Insurance - Contribution - Proximate Cause) - Claims Recovery. Marine Insurance: Meaning - Nature and Scope - Types of Policies and Principles of Marine Insurance (Insurable Interest - Disclosure and Representation - Marine Perils - Proximate Cause) - Warranties - Marine Losses - Procedure for Effecting Marine Insurance. | 19 |
| V | Other Insurance: Crop Insurance: Meaning - Need and Importance - Liability Insurance: Public Liability and Product Liability - Social Insurance: Meaning - Objectives and Significance - Group Insurance and Its Advantages - Micro Insurance: Concept and Importance in Financial Inclusion - Bancassurance: Meaning and Benefits - Digitalization in Insurance - Emerging Insurance Products in India. | 15 |
| Total Hours | | 75 |

Text Books

| | |
|---|------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | P. Periasamy (2018), Principles and Practices of Insurance, 2 nd Edition, Himalaya Publishing House, Mumbai. |
| 2 | M. N. Mishra and S.B. Mishra (2016), Insurance Principles and Practice, 22 nd Edition, S.Chand and Company Limited, New Delhi |

Reference Books

| | |
|---|-------------------------------------------------------------------------------------------------------------|
| 1 | P.K.Gupta,(2024), Insurance and Risk Management, 2 nd Edition, Himalaya Publishing House, Mumbai |
| 2 | Dr. Niyati Sharma, (2025), Risk and Insurance Management, Integrity Education India. |

Web Resources (SWAYAM/NPTEL)

| | |
|---|-----------------------------------------------------------------------------------------------------------------------------|
| 1 | https://onlinecourses.swayam2.ac.in/cec20_mg24/preview |
| 2 | https://onlinecourses.swayam2.ac.in/imb26_mg96/preview |

**Components for Internal Assessment and
Distribution of Marks for CIA and ESE (Theory)**

| Max Marks | Marks for | | Components for CIA | | | | | | |
|-----------|-----------|-----|--------------------|-----------|--------|-----------|------------|-------------------|-------|
| | CIA | ESE | CIA | | Model | | Attendance | Active Engagement | Total |
| 100 | 25 | 75 | Actual | Weightage | Actual | Weightage | 5 | 5 | 25 |
| | | | 50 | 5 | 75 | 10 | | | |

Question Paper Pattern

| Component | Duration in Hours | Section A | | | Section B | | | Section C | | | Total |
|------------------|-------------------|------------------|------------------|---------|------------------|------------------|--------|------------------|------------------|--------|-------|
| | | Type of Question | No. of Questions | Marks | Type of Question | No. of Questions | Marks | Type of Question | No. of Questions | Marks | |
| CIA | 2 | MCQ | 8 | 8x1=8 | Either or | 3 | 3x6=18 | Either or | 3 | 3x8=24 | 50 |
| Model Exam / ESE | 3 | MCQ | 10 | 10x1=10 | Either or | 5 | 5x5=25 | Either or | 5 | 5x8=40 | 75 |

**Components for Internal Assessment and
Distribution of Marks for CIA (Lab)**

| Max Marks | Marks for | | Components for CIA | | | | | | |
|-----------|-----------|-----|--------------------|-----------|--------|-----------|------------------------|------------------|-------|
| | CIA | ESE | Test | | Model | | Experiments / Programs | Observation Note | Total |
| 100 | 40 | 60 | Actual | Weightage | Actual | Weightage | Marks | 5 | 40 |
| | | | 50 | 10 | 60 | 15 | 10 | | |

Examination Pattern

| Component | Duration in Hours | Marks | | | Weightage |
|--------------------------|-------------------|----------------|--------|-------------|-----------|
| | | Practical Exam | Record | Total Marks | |
| Test | 2 | 50 | - | 50 | 10 |
| Model | 3 | 60 | - | 60 | 15 |
| Experiments Completed | - | - | - | 10 | 10 |
| Observation Note | - | - | - | 05 | 05 |
| Total Marks - CIA | | | | | 40 |
| ESE | 3 | 50 | 10 | - | 60 |

**Components for Internal Assessment and
Distribution of Marks for CIA (Foundation Course - Theory)**

| Max Marks | Marks for | | Components for CIA | | | |
|-----------|-----------|-----|--------------------|-----------|--------|-----------|
| | CIA | ESE | CIA | | Model | |
| 50 | 50 | - | Actual | Weightage | Actual | Weightage |
| | | | 50 | 25 | 50 | 25 |

Question Paper Pattern

| Duration in Hours | Mode of Exam | Type of Questions | No. of Questions | Marks |
|-------------------|--------------|-------------------|------------------|-----------|
| 2 | Offline | Open Choice | 5 (Out of 8) | 5 x 10=50 |

**Components for and Distribution of Marks for ESE (Theory)
Ability Enhancement Compulsory Courses (AECC)
&
Question Paper Pattern**

| Duration in Hours | Mode of Exam | Type of Questions | No. of Questions | Marks |
|-------------------|--------------|-------------------|------------------|---------|
| 2 | Online | MCQ | 50 | 50x1=50 |

Components of Internship (Internal Assessment Only)

| Components | Marks |
|---------------------------------|-----------|
| Submission of Internship Report | 20 |
| Performance in viva-voce | 30 |
| Total Marks | 50 |

***Certification of Completion is Mandatory for the award of Internal Marks and to avail the credits**

