



Criterion III – Research, Innovations and Extension

Key Indicator – 3.1 Promotions of Research and Facilities

Metric 3.1.1

Course Outcomes for all Courses (Exemplars from Glossary):

Anand



REGISTRAR
SVKM's NMIMS
V L Mehta Road,
Vile Parle (West),
Mumbai-400 056.

Program : MBA

| Description | PLO | SUB PLO | COUNT OF CLO | % COUNT OF CLO's to sub PLO's | TOTAL | % |
|--|------|---------|--------------|-------------------------------|-------|---------------|
| Goal 1: To develop an understanding of dynamics shaping globalbusiness | PLO1 | PLO 1a | 23 | 6.5% | 51 | 14.5% |
| | | PLO 1b | 24 | 6.8% | | |
| | | PLO 1c | 4 | 1.1% | | |
| Goal 2: To develop Critical thinking skills | PLO2 | PLO 2a | 48 | 13.6% | 146 | 41.5% |
| | | PLO 2b | 76 | 21.6% | | |
| | | PLO 2c | 22 | 6.3% | | |
| Goal 3 -An integrative approach to decision making and problem solving | PLO3 | PLO 3a | 21 | 6.0% | 65 | 18.5% |
| | | PLO 3b | 32 | 9.1% | | |
| | | PLO 3c | 12 | 3.4% | | |
| Goal 4- To develop technological orientatation and digital fluency | PLO4 | PLO 4a | 2 | 0.6% | 34 | 9.7% |
| | | PLO 4b | 11 | 3.1% | | |
| | | PLO 4c | 3 | 0.9% | | |
| | | PLO 4d | 18 | 5.1% | | |
| Goal 5: Effective communication Skills | PLO5 | PLO 5a | 10 | 2.8% | 26 | 7.4% |
| | | PLO 5b | 7 | 2.0% | | |
| | | PLO 5c | 9 | 2.6% | | |
| Goal 6: To sharpen leadership & Interpersonal Skills | PLO6 | PLO 6a | 7 | 2.0% | 15 | 4.3% |
| | | PLO 6b | 5 | 1.4% | | |
| | | PLO 6c | 3 | 0.9% | | |
| Goal 7: An understanding of ESG challenges impacting business | PLO7 | PLO 7a | 7 | 2.0% | 15 | 4.3% |
| | | PLO 7b | 6 | 1.7% | | |
| | | PLO 7c | 2 | 0.6% | | |
| TOTAL | | | 352 | | | 100.0% |

| Description | PLO | % |
|--|------|-------------|
| Goal 1: To develop an understanding of dynamics shaping globalbusiness | PLO1 | 14% |
| Goal 2: To develop Critical thinking skills | PLO2 | 41% |
| Goal 3 -An integrative approach to decision making and problem solving | PLO3 | 18% |
| Goal 4- To develop technological orientatation and digital fluency | PLO4 | 10% |
| Goal 5: Effective communication Skills | PLO5 | 7% |
| Goal 6: To sharpen leadership & Interpersonal Skills | PLO6 | 4% |
| Goal 7: An understanding of ESG challenges impacting business | PLO7 | 4% |
| TOTAL | | 100% |

| PLO | COUNT OF CLO | % COUNT OF CLO's to sub PLO's |
|------|--------------|-------------------------------|
| PLO1 | 51 | 14% |
| PLO2 | 146 | 41% |
| PLO3 | 65 | 18% |
| PLO4 | 34 | 10% |
| PLO5 | 26 | 7% |
| PLO6 | 15 | 4% |
| PLO7 | 15 | 4% |
| | 352 | 100% |

Anand



REGISTRAR
SVKM's NMIMS
V L Mehta Road,
Vile Parle (West),
Mumbai-400 056.

Program: MBA (HRM)

| Description | PLO | SUB PLO | COUNT OF CLO | % COUNT OF CLO's to sub PLO's | TOTAL | % |
|--|------|---------|--------------|-------------------------------|--------|-------|
| Goal 1: To develop an understanding of dynamics shaping globalbusiness | PLO1 | PLO 1a | 12 | 8.3% | 23 | 15.9% |
| | | PLO 1b | 7 | 4.8% | | |
| | | PLO 1c | 4 | 2.8% | | |
| Goal 2: To develop Critical thinking skills | PLO2 | PLO 2a | 8 | 5.5% | 37 | 25.5% |
| | | PLO 2b | 15 | 10.3% | | |
| | | PLO 2c | 14 | 9.7% | | |
| Goal 3 -An integrative approach to decision making and problem solving | PLO3 | PLO 3a | 14 | 9.7% | 38 | 26.2% |
| | | PLO 3b | 17 | 11.7% | | |
| | | PLO 3c | 7 | 4.8% | | |
| Goal 4- To develop technological orientatation and digital fluency | PLO4 | PLO 4a | 2 | 1.4% | 8 | 5.5% |
| | | PLO 4b | 0 | 0.0% | | |
| | | PLO 4c | 0 | 0.0% | | |
| | | PLO 4d | 6 | 4.1% | | |
| Goal 5: Effective communication Skills | PLO5 | PLO 5a | 3 | 2.1% | 15 | 10.3% |
| | | PLO 5b | 5 | 3.4% | | |
| | | PLO 5c | 7 | 4.8% | | |
| Goal 6: To sharpen leadership & Interpersonal Skills | PLO6 | PLO 6a | 8 | 5.5% | 12 | 8.3% |
| | | PLO 6b | 4 | 2.8% | | |
| | | PLO 6c | 0 | 0.0% | | |
| Goal 7: An understanding of ESG challenges impacting business | PLO7 | PLO 7a | 6 | 4.1% | 12 | 8.3% |
| | | PLO 7b | 5 | 3.4% | | |
| | | PLO 7c | 1 | 0.7% | | |
| TOTAL | | | 145 | | 100.0% | |

| Description | PLO | % |
|--|------|------|
| Goal 1: To develop an understanding of dynamics shaping globalbusiness | PLO1 | 16% |
| Goal 2: To develop Critical thinking skills | PLO2 | 26% |
| Goal 3 -An integrative approach to decision making and problem solving | PLO3 | 26% |
| Goal 4- To develop technological orientatation and digital fluency | PLO4 | 6% |
| Goal 5: Effective communication Skills | PLO5 | 10% |
| Goal 6: To sharpen leadership & Interpersonal Skills | PLO6 | 8% |
| Goal 7: An understanding of ESG challenges impacting business | PLO7 | 8% |
| TOTAL | | 100% |

| PLO | COUNT OF CLO | % COUNT OF CLO's to sub PLO's |
|------|--------------|-------------------------------|
| PLO1 | 23 | 16% |
| PLO2 | 37 | 26% |
| PLO3 | 38 | 26% |
| PLO4 | 8 | 6% |
| PLO5 | 15 | 10% |
| PLO6 | 12 | 8% |
| PLO7 | 12 | 8% |
| | 145 | 100% |

Approved



REGISTRAR
SVKM's NMIMS
V L Mehta Road,
Vile Parle (West),
Mumbai-400 056.

Program: MBA (Pharmaceutical Management)

| Description | PLO | SUB PLO | COUNT OF CLO | % COUNT OF CLO's to sub PLO's | TOTAL | % |
|--|------|---------|--------------|-------------------------------|-------|--------|
| Goal 1: To develop an understanding of dynamics shaping globalbusiness | PLO1 | PLO 1a | 10 | 6.4% | 24 | 15.4% |
| | | PLO 1b | 12 | 7.7% | | |
| | | PLO 1c | 2 | 1.3% | | |
| Goal 2: To develop Critical thinking skills | PLO2 | P LO 2a | 23 | 14.7% | 60 | 38.5% |
| | | P LO 2b | 23 | 14.7% | | |
| | | P LO 2c | 14 | 9.0% | | |
| Goal 3 -An integrative approach to decision making and problem solving | PLO3 | P LO 3a | 15 | 9.6% | 34 | 21.8% |
| | | PLO 3b | 14 | 9.0% | | |
| | | PLO 3c | 5 | 3.2% | | |
| Goal 4- To develop technological orientatation and digital fluency | PLO4 | PLO 4a | 1 | 0.6% | 8 | 5.1% |
| | | PLO 4b | 2 | 1.3% | | |
| | | PLO 4c | 1 | 0.6% | | |
| | | PLO 4d | 4 | 2.6% | | |
| Goal 5: Effective communication Skills | PLO5 | PLO 5a | 2 | 1.3% | 13 | 8.3% |
| | | PLO 5b | 4 | 2.6% | | |
| | | PLO 5c | 7 | 4.5% | | |
| Goal 6: To sharpen leadership & Interpersonal Skills | PLO6 | PLO 6a | 2 | 1.3% | 9 | 5.8% |
| | | PLO 6b | 2 | 1.3% | | |
| | | PLO 6c | 5 | 3.2% | | |
| Goal 7: An understanding of ESG challenges impacting business | PLO7 | PLO 7a | 2 | 1.3% | 8 | 5.1% |
| | | PLO 7b | 3 | 1.9% | | |
| | | PLO 7c | 3 | 1.9% | | |
| TOTAL | | | 156 | | | 100.0% |

| Description | PLO | % |
|--|------|------|
| Goal 1: To develop an understanding of dynamics shaping globalbusiness | PLO1 | 15% |
| Goal 2: To develop Critical thinking skills | PLO2 | 38% |
| Goal 3 -An integrative approach to decision making and problem solving | PLO3 | 22% |
| Goal 4- To develop technological orientatation and digital fluency | PLO4 | 5% |
| Goal 5: Effective communication Skills | PLO5 | 8% |
| Goal 6: To sharpen leadership & Interpersonal Skills | PLO6 | 6% |
| Goal 7: An understanding of ESG challenges impacting business | PLO7 | 5% |
| TOTAL | | 100% |

| PLO | COUNT OF CLO | % COUNT OF CLO's to sub PLO's |
|-------|--------------|-------------------------------|
| PLO1 | 24 | 15.4% |
| PLO2 | 60 | 38.5% |
| PLO3 | 34 | 21.8% |
| PLO4 | 8 | 5.1% |
| PLO5 | 13 | 8.3% |
| PLO6 | 9 | 5.8% |
| PLO7 | 8 | 5.1% |
| TOTAL | 156 | 100.0% |

Amol



REGISTRAR
SVKM's NMIMS
V L Mehta Road,
Vile Parle (West),
Mumbai-400 056.

Program: MBA (Business Analytics)

| Description | PLO | SUB PLO | COUNT OF CLO | % COUNT OF CLO's to sub PLO's | TOTAL | % |
|--|------|---------|--------------|-------------------------------|---------------|-------|
| Goal 1: To develop an understanding of dynamics shaping globalbusiness | PLO1 | PLO 1a | 9 | 6.3% | 19 | 13.4% |
| | | PLO 1b | 8 | 5.6% | | |
| | | PLO 1c | 2 | 1.4% | | |
| Goal 2: To develop Critical thinking skills | PLO2 | P LO 2a | 8 | 5.6% | 39 | 27.5% |
| | | P LO 2b | 22 | 15.5% | | |
| | | P LO 2c | 9 | 6.3% | | |
| Goal 3 -An integrative approach to decision making and problem solving | PLO3 | P LO 3a | 9 | 6.3% | 30 | 21.1% |
| | | PLO 3b | 17 | 12.0% | | |
| | | PLO 3c | 4 | 2.8% | | |
| Goal 4- To develop technological orientatation and digital fluency | PLO4 | PLO 4a | 10 | 7.0% | 33 | 23.2% |
| | | PLO 4b | 7 | 4.9% | | |
| | | PLO 4c | 0 | 0.0% | | |
| | | PLO 4d | 16 | 11.3% | | |
| Goal 5: Effective communication Skills | PLO5 | PLO 5a | 2 | 1.4% | 15 | 10.6% |
| | | PLO 5b | 5 | 3.5% | | |
| | | PLO 5c | 8 | 5.6% | | |
| Goal 6: To sharpen leadership & Interpersonal Skills | PLO6 | PLO 6a | 2 | 1.4% | 5 | 3.5% |
| | | PLO 6b | 1 | 0.7% | | |
| | | PLO 6c | 2 | 1.4% | | |
| Goal 7: An understanding of ESG challenges impacting business | PLO7 | PLO 7a | 0 | 0.0% | 1 | 0.7% |
| | | PLO 7b | 0 | 0.0% | | |
| | | PLO 7c | 1 | 0.7% | | |
| TOTAL | | | 142 | | 100.0% | |

| Description | PLO | % |
|--|------|-------------|
| Goal 1: To develop an understanding of dynamics shaping globalbusiness | PLO1 | 13% |
| Goal 2: To develop Critical thinking skills | PLO2 | 27% |
| Goal 3 -An integrative approach to decision making and problem solving | PLO3 | 21% |
| Goal 4- To develop technological orientatation and digital fluency | PLO4 | 23% |
| Goal 5: Effective communication Skills | PLO5 | 11% |
| Goal 6: To sharpen leadership & Interpersonal Skills | PLO6 | 4% |
| Goal 7: An understanding of ESG challenges impacting business | PLO7 | 1% |
| TOTAL | | 100% |

| PLO | COUNT OF CLO | % COUNT OF CLO's to sub PLO's |
|------|--------------|-------------------------------|
| PLO1 | 19 | 13% |
| PLO2 | 39 | 27% |
| PLO3 | 30 | 21% |
| PLO4 | 33 | 23% |
| PLO5 | 15 | 11% |
| PLO6 | 5 | 4% |
| PLO7 | 1 | 1% |
| | 142 | 100% |

Amol



REGISTRAR
SVKM's NMIMS
V L Mehta Road,
Vile Parle (West),
Mumbai-400 056.

Program: MBA (Healthcare Management)

| Description | PLO | SUB PLO | COUNT OF CLO | % COUNT OF CLO's to sub PLO's | TOTAL | % |
|--|------|---------|--------------|-------------------------------|-------|---------------|
| Goal 1: To develop an understanding of dynamics shaping globalbusiness | PLO1 | PLO 1a | 7 | 5.8% | 24 | 19.8% |
| | | PLO 1b | 16 | 13.2% | | |
| | | PLO 1c | 1 | 0.8% | | |
| Goal 2: To develop Critical thinking skills | PLO2 | P LO 2a | 14 | 11.6% | 37 | 30.6% |
| | | P LO 2b | 15 | 12.4% | | |
| | | P LO 2c | 8 | 6.6% | | |
| Goal 3 -An integrative approach to decision making and problem solving | PLO3 | P LO 3a | 13 | 10.7% | 29 | 24.0% |
| | | PLO 3b | 14 | 11.6% | | |
| | | PLO 3c | 2 | 1.7% | | |
| Goal 4- To develop technological orientatation and digital fluency | PLO4 | PLO 4a | 0 | 0.0% | 3 | 2.5% |
| | | PLO 4b | 2 | 1.7% | | |
| | | PLO 4c | 1 | 0.8% | | |
| | | PLO 4d | 0 | 0.0% | | |
| Goal 5: Effective communication Skills | PLO5 | PLO 5a | 2 | 1.7% | 16 | 13.2% |
| | | PLO 5b | 9 | 7.4% | | |
| | | PLO 5c | 5 | 4.1% | | |
| Goal 6: To sharpen leadership & Interpersonal Skills | PLO6 | PLO 6a | 1 | 0.8% | 5 | 4.1% |
| | | PLO 6b | 3 | 2.5% | | |
| | | PLO 6c | 1 | 0.8% | | |
| Goal 7: An understanding of ESG challenges impacting business | PLO7 | PLO 7a | 3 | 2.5% | 7 | 5.8% |
| | | PLO 7b | 4 | 3.3% | | |
| | | PLO 7c | 0 | 0.0% | | |
| TOTAL | | | 121 | | | 100.0% |

| Description | PLO | % |
|--|------|-------------|
| Goal 1: To develop an understanding of dynamics shaping globalbusiness | PLO1 | 20% |
| Goal 2: To develop Critical thinking skills | PLO2 | 31% |
| Goal 3 -An integrative approach to decision making and problem solving | PLO3 | 24% |
| Goal 4- To develop technological orientatation and digital fluency | PLO4 | 2% |
| Goal 5: Effective commumication Skills | PLO5 | 13% |
| Goal 6: To sharpen leadership & Interpersonal Skills | PLO6 | 4% |
| Goal 7: An understanding of ESG challenges impacting business | PLO7 | 6% |
| TOTAL | | 100% |

| PLO | COUNT OF CLO | % COUNT OF CLO's to sub PLO's |
|------|--------------|-------------------------------|
| PLO1 | 24 | 20% |
| PLO2 | 37 | 31% |
| PLO3 | 29 | 24% |
| PLO4 | 3 | 2% |
| PLO5 | 16 | 13% |
| PLO6 | 5 | 4% |
| PLO7 | 7 | 6% |
| | 121 | 100% |

Arosel



REGISTRAR
SVKM's NMIMS
V L Mehta Road,
Vile Parle (West),
Mumbai-400 056.

Program Name: MBA (Ent)

Two-year full-time MBA (Entrepreneurship) program at PDSE&FBM equips students with the knowledge, skills, and practical experience necessary to succeed as an entrepreneur or in entrepreneurial roles within organizations.

Graduate Attributes:

1. **Entrepreneurial Mind-set:** Graduates will possess an entrepreneurial mind-set, characterized by creativity, innovation, a willingness to take calculated risks, and a drive to create value.
2. **Problem Solving and Decision-Making:** Graduates will be able to identify problems, analyse situations, and make sound decisions in complex and uncertain environments.
3. **Business Acumen:** Graduates will have a strong understanding of core business principles and practices across various functional areas, including strategy, finance, marketing, operations, and human resources.
4. **Launch or Lead a Venture:** Graduates will be able to launch their own venture after having done various phases of “Pioneer Garages” specifically designed for Idea Generation, Opportunity Mapping, Mapping Idea into Opportunity, Social Media Presence and Minimum Viable Product, Financing or lead/manage a venture equipped with the skill-sets developed in the course.
5. **Communication and Collaboration:** Graduates will be effective communicators and collaborators, capable of managing/working in diverse teams and leading initiatives.
6. **Adaptability and Resilience:** Graduates will be adaptable and resilient, able to navigate challenges and seize opportunities in a rapidly evolving business landscape.
7. **Ethical and Social Responsibility:** Graduates will understand the importance of ethical conduct and social responsibility, a much-needed attribute to become a responsible citizen.

Program Outcomes:

1. An ability to build an understanding of dynamics shaping global business and global entrepreneurship landscape.
2. An ability to think critically with structured analysis of managerial situations/dilemmas, and solve complex and unstructured problems essential for any existing business or a venture.
3. An ability to develop evidence based integrative approach to decision-making and problem solving by using analytical approach to identify, formulate problems, collect, analyse data/information specific to the situation at hand.
4. An ability to understand the rapid shifts in technological entrepreneurial ecosystem, identify entrepreneurial opportunities by integrating technology in cross-functional domains and use digital literacy to aid planning and control of resources in a dynamic environment to enhance interdisciplinary management.
5. An ability to communicate across channels in alignment with business/venture objective to reach out to various stakeholders. An ability to present structured assessment of business information and data in a professional manner and negotiate



REGISTRAR
SVKM's NMIMS
V L Mehta Road,
Vile Parle (West),
Mumbai-400 056.

Arora

effectively by creating powerful oral, written, and visual narratives of the desired information.

6. An ability to assume leadership roles of a venture/existing business with a focused understanding of not only the business acumen but also to handle conflict and failure by developing emotional resilience; manage teams effectively, and steer them to accomplish a common goal.
7. An ability to address ESG challenges by building processes that focus on sustainable business practices to minimize waste, efficiently allocate resources, and prioritize the well-being of current and future generations. By being accountable to the environment, society, future generations, and contributing to a more sustainable and equitable world.

Program Specific Outcomes (PSOs) of MBA (Ent)

1. Students will develop the knowledge and skills necessary to launch and manage a new venture.
2. Students will gain understanding of managing and growing an existing business using functional knowledge and will be able to contribute towards sustaining and scaling it up in a socially responsible and ethical manner.

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**REGISTRAR
SVKM's NMIMS
V L Mehta Road,
Vile Parle (West),
Mumbai-400 056.**

| MBA ENT 2022-24 | | | |
|-----------------|---------------------------------------|---|--|
| Trimester | Course Name | Course Outcomes | |
| I | Economics for Entrepreneurs - I | CO-1 | Use the tools of microeconomics in decision-making at an individual, firm, and society level. |
| | | CO-2 | Get a clear understanding and expression for economic concepts that form the basis of any strategic choices in a business decision-making process. |
| | | CO-3 | Observe, assess and analyze a situation/problem objectively through the microeconomic framework and improve decision making at various levels. |
| | Financial Accounting and Analysis | CO-1 | Translate and understand annual reports & other notes to accounts to understand various business strategies. |
| | | CO-2 | Construct various important financial statements such as Income Statement, Balance Sheet & Cashflow Statement. |
| | | CO-3 | Identify business areas that need improvement using various accounting tools such e.g., Ratios . |
| | | CO-4 | Demonstrate knowledge of accounting concepts, principles & conventions which will help them in effective decision making . |
| | Management Practice for Entrepreneurs | CO-1 | Develop critical thinking skills required in day to day managerial operations in a venture. |
| | | CO-2 | Ability to manage various functional areas of business. |
| | | CO-3 | Apply managerial skills and roles in addressing various managerial and organizational problems. |
| | Managing Entrepreneurial Teams | CO-1 | Understand parameters of individual dynamics that lead to challenges in entrepreneurial teams. |
| | | CO-2 | Understand strategies to resolve intra and interpersonal conflicts. |
| | | CO-3 | Understand various sources of conflicts in entrepreneurial set ups. |
| CO-4 | | Using emotional intelligence to drive positive team morale. | |

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REGISTRAR
SVKM's NMIMS
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| | | | |
|------------------|-----------------------------------|------------------------|--|
| | Marketing Management | CO-1 | Interpret complex marketing issues and problems in light of relevant theories, concepts, methods and ethical frameworks. |
| | | CO-2 | Apply the learnings from theory, class activities, projects and real-life cases to their respective family businesses. |
| | | CO-3 | Analyze business situations from differing marketing perspectives and design appropriate marketing strategies for their respective family businesses |
| | Oral Communication | CO-1 | Apply basic skills of oral communication in the areas of listening and communicating at work place with special emphasis on audience analysis, structuring, and persuasion. |
| | | CO-2 | Plan and prepare effective public speeches, presentations and extempore speeches, and participate in group discussions, use PowerPoint effectively and efficiently. |
| | | CO-3 | Develop superior interpersonal skills and present effectively in teams. |
| | Statistics for Business Decisions | CO-1 | Understand , appreciate & Identify correct statistical techniques for Business Decisions . |
| | | CO-2 | Determine and apply analytical techniques of statistics with help of Microsoft Excel. |
| | | CO-3 | Summarize, analyze and interpret data for business decisions. |
| | | | |
| Trimester | Course Name | Course Outcomes | |
| II | Business and Society | CO-1 | Understand the dynamics of people, profit and planet interactions and the resulting outcomes for any firm. |
| | | CO-2 | Assess the issues around various kinds of change agents in business and how technology and society take part in shaping them |
| | | CO-3 | Formulate the key levers necessary for designing organization's missions that align business goals with socially sustainable business strategy to stay relevant in an ever-changing world. |
| | Economics for Entrepreneurs | CO-1 | Apply the tools of macroeconomics in decision-making at an individual, firm, and society level. |

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| | | CO-2 | Frame strategic choices underlying entrepreneurial decision making by using macroeconomic principles. |
| | | CO-3 | Observe, assess and analyze a situation/problem objectively through the macroeconomic framework and improve decision making at various levels. |
| | Management Accounting | CO-1 | Identify management accounting problems in the real world and the respective management accounting approaches to solve these practical problems. |
| | | CO-2 | Apply the management accounting tools & techniques to solve specific business problems. |
| | | CO-3 | Understand, explain & make decisions on various complex management accounting problems in real life. |
| | Marketing Planning | CO-1 | Demonstrate knowledge of and evaluate the processes of marketing management and business planning |
| | | CO-2 | Comprehend the role of marketing planning in the organisational context |
| | | CO-3 | Independently craft marketing plan |
| | | CO-4 | Execute the marketing plan |
| | Operations Management | CO-1 | Understand , appreciate & Identify correct tools, techniques and methods of Operations Management. |
| | | CO-2 | Apply analytical techniques of Operations Management with help of Microsoft Excel to draw Conclusions. |
| | | CO-3 | Analyze & apply various tools, techniques and methods of Operations Management to assist in Business management decisions. |
| | Regulatory Frameworks of Start-ups | CO-1 | Identify the core areas for adherence of the compliance of selected choice of organization |
| | | CO-2 | Determine the working of the Indian Contract Act, Companies Act, Sales of Goods Act, IT Act, Shops and Establishment act, consumer protection with benchmark case laws and actual business situations |
| | | CO-3 | Keep legal outcome of a decision in consideration for protecting the firm against legal disputes |

Amol

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| | | | |
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| | Written Communication | CO-1 | Improve business writing skills |
| | | CO-2 | Learn to structure their writing keeping in mind a business environment |
| | | CO-3 | Learn to write keeping conciseness, clarity, effectiveness, and etiquette in mind |
| | | | |
| Trimester | Course Name | Course Outcomes | |
| III | Business Plan | CO-1 | Students will be able to comprehend the role of business plan and how it relates to organizational goals. |
| | | CO-2 | Students will be able to analyze the constituents of business environment and their impact on business. |
| | | CO-3 | Students will be able to formulate and communicate a business plan. |
| | | CO-4 | Students will be able to implement a business plan. |
| | Business Presentation Models | CO-1 | Students will communicate with greater ease and confidence with different stakeholders. |
| | | CO-2 | Students will heighten their ability as entrepreneurs to present individually and in a group through logical and structured content and effective delivery. |
| | | CO-3 | Students will develop greater interpersonal skills and present effectively in teams. |
| | Business Research Analysis | CO-1 | Students will be able to identify and define an appropriate research problem and be able to draw a research design for the identified problem. |
| | | CO-2 | Students will be able to gather data in a more scientific manner using the following methods: literature study, case study, structured surveys, interviews, focus groups, etc. |
| | | CO-3 | Students will be able to plan and conduct market research in a structured manner and derive insights from the same. |
| | | CO-4 | Students will be able to write a research report. |
| | | Entrepreneurial Business Environment | CO-1 |

Arora

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| | | CO-2 | To integrate the local business environment facing an entrepreneur in a connected world and be able to take decisions by considering local, regional, national, and international factors. |
| | | CO-3 | To be able to interpret current business ecosystem as shaped by government policies and macroeconomic forces. |
| | Intellectual Property Rights | CO-1 | Build IP commercialization strategies to exploit various IP assets of an enterprise. |
| | | CO-2 | Demonstrate their in-depth knowledge and critical understanding of new dimensions of application and leveraging the various IPRs for organizations. |
| | People Management in Entrepreneurial Firms | CO-1 | Develop critical thinking on strategic contribution of human resource function in different phases of entrepreneurial firm. |
| | | CO-2 | Develop integrative approach to HRM through understanding of the link among various HRM sub-processes and develop solutions and processes to suit own organization's needs and challenges. |
| | Project Management | CO-1 | The students will be able to apply tools such as risk matrix, network diagram, templates such as risk log, project charter, and procedures such as scope change management, escalation procedure while managing the projects. |
| | | CO-2 | The students will be able to understand traditional project management lifecycle consisting of scoping, planning, launching, executing, and closing phases. |
| | | CO-3 | The students will be able to understand three Scrum roles, five Scrum events, and three Scrum artefacts along with core practices of Kanban. |
| | Sales Management | CO-1 | Understand the Sales Management Framework, relate to & apply the different theories of selling. |
| | | CO-2 | Appreciate the fundamentals of demand forecasting and its relevance to overall business. Understand the different methods used to arrive at demand forecasts and be able to choose the most appropriate method for a specific product, geography. Be able to pin point and analyze internal and external variables impacting demand forecasts. |

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| | | CO-3 | Be able to write clear job descriptions, recruit the right talent, design meaningful and aligned content and choose the training methodology. |
| | Startup Foundations | CO-1 | Recognize the important principles affecting incorporation of a new startup. |
| | | CO-2 | Relate with methodology of approaching a problem, converting it into an equipped business set-up. |
| | | CO-3 | Point out the key variables to be addressed in order to structure a venture financing deal. |
| | | CO-4 | Appraise the financial standing of a venture. |
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| Trimester | Course Name | Course Outcomes | |
| IV | Business Analytics (AI/ML) | CO-1 | Identify and describe complex business problems in terms of analytical models. |
| | | CO-2 | Apply appropriate analytical models to find solutions to business problems that help achieve stated objectives. |
| | | CO-3 | Communicate technical information to both technical and non-technical audiences - in speech, in writing, in presentations and graphically. |
| | Consumer Insights Mining | CO-1 | The application of different approaches and frameworks in understanding consumer buying behaviour |
| | | CO-2 | The competencies needed in the creative, analytic, and systematic use of marketing research frameworks for interpreting consumer reactions and creating marketing stimuli from learnings |
| | | CO-3 | How to build customer relationships by developing and implementing customer centric marketing strategies |
| | Design Thinking for Entrepreneurs <i>Amol</i> | CO-1 | Define high-value challenges/problems to work on and connect with customers/stakeholders deeply to find compelling needs, desires, and business opportunities |
| | | CO-2 | Use the tools and techniques of Design Thinking to form a compelling vision of the future |

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| | | CO-3 | Design radical solutions customers/stakeholders desire by prototyping and experimenting with test groups to refine solutions and launch them successfully |
| Distribution & Logistics Management | | CO-1 | Customer service definition & measurements and comprehension of distribution & logistics capabilities for delivering superior customer service |
| | | CO-2 | Knowledge of the characteristics & suitability of different distribution channels, different warehousing options, different material handling & storage choice, and different transportation modes in different contexts & business environments |
| Entrepreneurial Finance | | CO-1 | Examine various sources of financing available to entrepreneurs, including equity financing, debt financing, government grants and many more. |
| | | CO-2 | Understand the role of financial management in the success of a start-up or small business and develop analytical skills to financial feasibility of an entrepreneurial venture. (CLO2) |
| | | CO-3 | Critically evaluate implications of business decisions of raising fund via different sources. |
| Negotiation Skills | | CO-1 | Learners will develop as problem solvers with out-of-the-box thinking. |
| | | CO-2 | Learners will be able to develop critical thinking and analysing ability. |
| Pitching & Fund Raising | | CO-1 | An ability to structure Business Plan for its Debut Funding Round |
| | | CO-2 | To understand the thought process of Investors in order to Improve the Pitch Deck to be in a better position to attain Successful Funding upon Pitching |
| Strategic Management | | CO-1 | Ability to examine, integrate and contextualize a family business situation from multiple perspectives and give direction. |
| | | CO-2 | Ability to take decision based on holistic perspective of organizational domains and in a family business context |
| | | CO-3 | Ability to apply analytical techniques/models/frameworks to reflect critically on specific business contexts and enable decision making |
| Supply Chain Management | | CO-1 | Understand, appreciate & identify suitable SCM processes and system for business operations. |

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| | | CO-2 | Understand critical need of and then develop a suitable SCM system for a business and understand relevance of outsourcing/offshoring as a strategic investment decision for growth |
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| Trimester | Course Name | Course Outcomes | |
| V | Business Valuation | CO-1 | An ability to understand various methods of business valuation and identify the appropriate approach for a given stage of business cycle. |
| | | CO-2 | An ability to Execute and analyse financial models build for valuation and appreciate the linkages between valuation and strategy of firms. |
| | | CO-3 | An ability to Evaluate the impact of strategic, operational, and financial decisions on the organization's ability to create value. |
| | Capstone Business Simulation | CO-1 | To appreciate the comprehensive decision-making processes in a business so as to ensure that the firm remains competitive. |
| | | CO-2 | Identify the impact of micro and macro environment in the context of business and the concerns and consequences of the decisions made from different business functional areas . |
| | Digital Marketing | CO-1 | Use of Digital Marketing. |
| | | CO-2 | Promote business using Digital marketing. |
| | | CO-3 | Usage of Social media and other allied tools of Digital marketing. |
| | | CO-4 | Creation of a digital plan. |
| | Economics of Regulation | CO-1 | Know the various dimensions leading to success or failure of a given market of an economy. |
| | | CO-2 | Understand the essential regulatory impact on various business decisions. |
| | Entrepreneurial Leadership Skills | CO-1 | Build self-awareness about one's ambitions, motivations, biases and assumptions to enhance professional and personal leadership through introspection and reflection. |
| | | CO-2 | Learn from collective experiences by developing a flexible and reasonable perspective, and learning storytelling to reframe life stories. |

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| | | CO-3 | Exercising team leadership through simulation exercises, class room sharing, role plays, handling conflicts, coaching peers and critical thinking. |
| | Leveraging Fintech Innovations | CO-1 | Students should develop an understanding of key technologies in FinTech. |
| | | CO-2 | Students should be able to identify the market structure and participants in FinTech . |
| | | CO-3 | Students should be able to apply the dynamics of change being brought about by FinTech for an organization. |
| | | CO-4 | Students should demonstrate suitable methodology in the start-up idea to implement Fintech based offerings. |
| | New Product Development | CO-1 | Develop a product concept & defend a strategy for a new product |
| | | CO-2 | Apply the conceptual framework to analyze a specific opportunity & identify new products to exploit the opportunity |
| | | CO-3 | Analyze the set of potential innovation triggers & strategically select those opportunities that fit with the organizational resources & strategies |
| | | CO-4 | Build a managerial mindset solve consumer problems by innovating new products or services |
| | Technological Entrepreneurship | CO-1 | To identify methodology to software development, hypothesis validation |
| | | CO-2 | Determine and apply concepts of Lean Start up, Value Proposition Canvas and Innovation in development of business solutions |
| | | CO-3 | Summarize an implementation plan for new age technologies in any existing or new venture. |
| | Venture Capital | CO-1 | Understand, appreciate & identify correct valuation techniques for business valuation. |
| | | CO-2 | Determine and apply valuation techniques to structure its debut funding round. |
| | | CO-3 | Summarize, analyse and interpret financial numbers, factor-in intangibles and integrate material ESG factors in order to improvise the pitch deck to be in a better position to attain successful funding upon pitching. |
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| Trimester | Course Name | Course Outcomes | |



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| VI | Capstone Project | CO-1 | Identification of business opportunity in a specific industry. |
| | | CO-2 | Complete Data Analysis by Employing suitable data collection methodology. |
| | | CO-3 | Evaluate the attractiveness of a business opportunity. |
| | | CO-4 | Formulate a business plan towards setting-up a new venture. |
| | Customer Driven Marketing Strategies | CO-1 | The students will be able to identify customer centric approaches and align business decisions keeping customer and their diversity in mind. |
| | | CO-2 | The students will be able to assess customer lifetime value, profitability and returns on marketing investment. |
| | | CO-3 | The students will be design and implement strategies for acquisition, retention and development of customers for better business outcomes. |
| | Digital Platforms and Data Monetization | CO-1 | Develop a deep understanding of the role, functions and flows of data mining and digital platforms. |
| | | CO-2 | Analyze digital platforms architecture applied in the industry and emulate best practices in respective business. |
| | | CO-3 | Understanding data mining techniques and digital platforms as an aid to strengthen startup business / new ventures . |
| | Disruptive Technology and Innovation Management | CO-1 | Understand the dynamics of innovation application and the resulting outcomes for any firm. |
| | | CO-2 | Assess the issues around various kinds of innovation formations and how disruptive technology takes part in shaping them. |
| | | CO-3 | Evaluate the strategic-fit for various innovation methods and models to align with the organization's mission. |
| | | CO-4 | Formulate the key levers necessary for designing innovative solutions indispensable for any business to stay relevant in an ever-changing world. |
| | Global Entrepreneurship | CO-1 | The current business environment surrounded around global business. |
| | | CO-2 | The challenges and objections in setting up worldwide business operations. |
| CO-3 | | The abilities required to begin and nurture for managing global operations. | |
| CO-4 | | The tactics required for building strategies for elevating the business to foreign market. | |



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| | Strategies for Acquiring Small Business | CO-1 | Identify the ideal conditions to be considered before executing a buy-out of an existing business |
| | | CO-2 | Determine the value of the business by taking into account both the assets and the future earnings |
| | | CO-3 | Gather pertinent information about the company and carry out effective negotiation from the buy-side viewpoint |
| | Tax Planning | CO-1 | Know the sources and principles of Income tax law in India. Know the basic principles, stages and forms of tax planning. Be able to interpret and apply tax legislation. |
| | | CO-2 | Be able to apply the methods of tax analysis. Be able to calculate the impact of tax benefits. |
| | | CO-3 | Be able to apply tax planning method at individual & corporate levels. Be able to analyze the impact of the tax burden on the financial results. Be able to avoid any contingency by timely tax compliances which in turn leads to cost efficiency. |

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Sample of POs / PSOs and Cos Mapping (Engineering and Technology)

Program Name: B Tech(IT)

Program Outcomes:

1. An ability to apply knowledge of mathematics, science, and engineering for problem solving.
2. An ability to research, design and conduct experiments, as well as to analyze and interpret data.
3. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
4. An ability to function effectively on teams to accomplish a common goal.
5. An ability to identify, formulate and provide effective IT solution for engineering problems.
6. An understanding of professional, legal, security and social issues and responsibilities.
7. An ability to communicate effectively with a range of audiences.
8. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
9. Recognition of the need for and an ability to engage in continuing professional development and self-learning.
10. An ability to apply ethical principles in development of IT solutions.
11. An ability to use the techniques, skills, and modern engineering tools necessary for developing effective IT solutions.
12. An ability to identify and analyze user needs and take them into account in the selection, creation/integration, evaluation and administration of IT-based solutions.

Program Specific Outcomes (PSOs) of IT Department

1. To demonstrate an ability to visualize, architect and create appropriate solutions for IT related projects.
2. Demonstrate an ability to professionally manage, monitor and safeguard IT resources.

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Course Outcomes

| Semester | Course Name | Course Outcomes | |
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| III | Discrete Mathematics | CO-1 | Define and relate basic notions of discrete mathematics, |
| | | CO-2 | Demonstrate the ability to understand mathematical logic, concepts in abstract algebra and mathematical proof techniques, |
| | | CO-3 | Solve problems based on combinatorics, graph theory and abstract algebra, |
| | | CO-4 | Demonstrate understanding of the applications of algebra, combinatorics and graph theory |
| | Data Structures and Algorithms | CO-1 | 1. Understand the concept of data structures and computational complexity |
| | | CO-2 | 2. Identify and implement appropriate linear data structure for the given problem. |
| | | CO-3 | 3. Identify and implement appropriate non-linear data structure for the given problem. |
| | | CO-4 | 4. Differentiate various searching and sorting algorithms. |
| | Signal and Systems | CO-1 | Classify the continuous time and discrete time signals and systems |
| | | CO-2 | Apply various mathematical operations to analyze signals and systems |
| | | CO-3 | Analyze the continuous time signals and systems using various transforms |
| | | CO-4 | Determine the frequency spectrum of discrete time signals and systems response |
| | Digital Logic Design | CO-1 | Explain the concept of digital system and logic simplification |
| | | CO-2 | Develop combinational circuits for various applications |
| | | CO-3 | Design sequential circuits for various application |
| | | CO-4 | Implement basic digital logic circuits using EDA tools with the help of HDL |

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| | Database Management Systems | CO-1 | Describe core concepts of database and model a database management system through ER modelling. |
| | | CO-2 | Apply knowledge of relational algebra and structured query language to retrieve and manage data from relational database. |
| | | CO-3 | Demonstrate the use of normalization for database design. |
| | | CO-4 | Use modern database techniques such as NoSQL |
| | Computer Networks | CO-1 | Explain the concepts of computer networks, topologies and data communication. |
| | | CO-2 | Analyze the various error detection and correction and medium access techniques. |
| | | CO-3 | Apply network layer addressing and routing techniques to different network topologies. |
| | | CO-4 | Analyze the different protocols of the layered architecture of computer networks |
| | Web Programming | CO-1 | Explain the fundamentals of web programming |
| | | CO-2 | Design front end of a web application |
| | | CO-3 | Establish database connectivity between front-end and back-end |
| | Technical Communication | CO-1 | Apply the fundamentals of written communication to create written documents that are coherent, error-free and well organized. |
| CO-2 | | Develop the ability to create effective and persuasive business correspondence, such as letters and emails, that follow etiquette and are able to achieve the desired outcomes. | |
| CO-3 | | Create basic reports such as memo, letter and survey-based report, using their understanding of report writing. | |
| Community Service | CO-1 | develop increased self-awareness and understanding of one's personality and emotional intelligence, | |

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| | | CO-2 | improve networking, interpersonal communication, leadership and organizational skills, |
| | | CO-3 | develop an awareness and understanding of one's multiple roles and responsibilities as a part of the society, |
| | | CO-4 | explore foundational concepts of healthy human relationship like empathy, compassion and cooperation |
| | | CO-5 | improve critical and analytical thinking abilities, oral and written expression. |
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| IV | Probability and Statistics | CO-1 | Solve problems involving random variables, probability distributions and testing of hypothesis, correlation and regression |
| | | CO-2 | Identify suitable probability distribution and testing techniques to solve problems |
| | | CO-3 | Apply knowledge of random variables, probability distributions, measures of central tendency, correlation and regression to solve real life problems |
| | | CO-4 | Analyse data samples using statistical methods |
| | Programming for Analytics | CO-1 | Create data sets suitable for analysis |
| | | CO-2 | Generate summary reports |
| | | CO-3 | Access and manipulate data stored in excel or raw data files |
| | | CO-4 | Perform data transformations and iterative data processing |
| | Object Oriented Programming | CO-1 | Explain and implement the basic concepts in Java such as defining classes, creating objects, invoking methods, handling exceptions etc |
| | | CO-2 | Design solutions for a given problem using the concepts of Abstraction, Polymorphism, Encapsulation, Inheritance in OOP paradigm. |
| | | CO-3 | Design Class diagrams for solving a real-world problem. |

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| | Principles of Artificial Intelligence | CO-1 | Explain the history & basic principles of AI in solutions that require problem solving |
| | | CO-2 | Discuss knowledge representation and apply learning techniques like Neural networks, Bayesian networks etc. in various AI problems |
| | | CO-3 | Analyze and design a real-world problem for implementation of NLP methods |
| | Operating Systems | CO-1 | Comprehend the objectives, services and different architectures of the Operating System and their types. |
| | | CO-2 | Conduct simulation experiments on process scheduling, inter-process communication, deadlock avoidance of system by using different algorithms, |
| | | CO-3 | Implement and evaluate the various memory management techniques provided by the OS to improve the overall system performance |
| | | CO-4 | Comprehend the techniques to manage files & methods to access different storage devices. |
| | Data Warehousing and Mining | CO-1 | Understand the fundamentals of Data Warehouse, Data Mining and their importance in providing solutions to real world problems, |
| | | CO-2 | Understand ETL, analytical processing and information delivery in data warehouse, |
| | | CO-3 | Select and implement appropriate data mining algorithms for solving practical problems. |
| | Computer Organisation and Architecture | CO-1 | Discuss the functional blocks of computers and the interconnections |
| | | CO-2 | Evaluate the memory system |
| | | CO-3 | Explain the components of the Central Processing Unit |
| CO-4 | | Describe Input Output and Parallel Organization | |
| V | Embedded Systems | CO-1 | Explain embedded system architecture and RTOS |

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| | | CO-2 | Identify how microprocessor, memory, peripheral components and buses interact in an embedded system design |
| | | CO-3 | Develop solutions for various real time applications using Embedded programming |
| | Visual Analytics | CO-1 | Demonstrate a working knowledge of data visualization |
| | | CO-2 | Create visualization charts appropriate for the underlying data |
| | | CO-3 | Apply modern statistical learning techniques on data visualizations |
| | | CO-4 | Design and implement interactive links between various objects in a data visualization report |
| | Human Computer Interaction | CO-1 | Discuss the importance of good interface design for human computer interaction |
| | | CO-2 | Apply design principles, models and evaluation techniques to user interface design |
| | | CO-3 | Identify various aspects of user experience and design thinking in HCI |
| | | CO-4 | Design user interface application using HCI concept |
| | Software Engineering | CO-1 | Explain the characteristics of various process models used in the development of a Software project |
| | | CO-2 | Demonstrate an understanding of various Analysis and Design models that provide a basis for the software development |
| | | CO-3 | Apply UML concepts for modelling software functionality for a given scenario |
| | | CO-4 | Create test cases for validating the working of the software developed |
| | Management Information Systems (Elective) | CO-1 | Explain the role of Information System in business environment |
| | | CO-2 | Analyze existing business applications in use and design a business application for a given scenario |
| | | CO-3 | Describe the implications of social media on organizations |



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| | CO-4 | Identify the challenges in the management of global information systems and assess the security and ethical concerns |
| Adv. Data Structures (Elective) | CO-1 | Choose appropriate data structures and algorithms, understand the ADT/libraries, and use it to design algorithms for a specific problem. |
| | CO-2 | Design and Implement solution for a given real time problem using hashing techniques. |
| | CO-3 | Use and Implement red-black trees, B-trees and Splay trees. |
| | CO-4 | Implement pattern matching algorithms for various text processing applications. |
| Service Oriented Architecture (Elective) | CO-1 | Design and implement web services for creating enterprise web applications |
| | CO-2 | Explore semantic web to create ontologies and to query RDFs |
| | CO-3 | Execute web service integration, deployment and Security of micro services |
| AI and Robotics (Elective) | CO-1 | Describe basic principles of AI toward problem solving, inference, perception, knowledge representation, and learning. |
| | CO-2 | Explain and implement advance AI learning techniques |
| | CO-3 | Apply knowledge of robotics, robot Kinematics, robotic programming and robot vision in developing solutions to real time problems |
| Advanced Computer Networks (Elective) | CO-1 | Describe medium access layer protocols |
| | CO-2 | Design IP addressing scheme, analyze packet forwarding, and compare different routing protocols |
| | CO-3 | Compare and analyze transport protocols and other key protocols essential for networking |
| | CO-4 | Explain various multimedia protocols, internet security concepts and future networks |

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| | Machine Learning Algorithms | CO-1 | Use machine learning algorithms to solve problems |
| | | CO-2 | Assess the performance of machine learning algorithms |
| | | CO-3 | Recommend a suitable algorithm for a given problem |
| | Mobile Application Development | CO-1 | Design user interfaces using Android Studio and Flutter |
| | | CO-2 | Implement file handling using text and images |
| | | CO-3 | Implement database connectivity and location tracking |
| | | CO-4 | Develop a full-fledged Android/IOS application |
| | Software Project Management | CO-1 | Understand the process of project planning and design of a software project. |
| | | CO-2 | Analyze a project to provide project schedule and cost estimates |
| | | CO-3 | Apply risk analysis techniques to develop risk management and mitigation plan |
| | | CO-4 | Understand project monitoring and controlling software deliverables |
| | System Administration | CO-1 | Demonstrate various System admin tasks. |
| | | CO-2 | Configure various application servers. |
| | | CO-3 | Secure Linux system. |
| | Software Quality Assurance (DE III) | CO-1 | Classify the various software quality factors |
| | | CO-2 | Describe and comprehend SQA architecture and its components |
| CO-3 | | Identify the different software defects and techniques used for defects removal | |
| CO-4 | | Evaluate on the basis of Software quality metrics and the standards | |
| | | CO-1 | Interpret the term “game”, incorporating different concepts and multiple perspectives. |

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| Game Design (Open Elective) | CO-2 | Analyse the mechanics of paper and digital games, considering how these mechanics affect gameplay and player experiences. |
| | CO-3 | Design, develop, and test games using an iterative design process and considering user feedback. |
| | CO-4 | Create Design Documents using design template to communicate design ideas. |
| Cyber Forensics (DE III) | CO-1 | Understand Windows and Linux File systems |
| | CO-2 | Perform various forensics operations on a given media |
| | CO-3 | Understand various professional, ethical and legal issues related to cyber forensics |
| Introduction to Cryptography (DE II) | CO-1 | Explain and implement various symmetric key cryptographic algorithms |
| | CO-2 | Explain and implement various asymmetric key cryptographic algorithms |
| | CO-3 | Describe various attacks on cryptosystems |
| Database Administration (DE II) | CO-1 | Describe the fundamentals of Database Administration |
| | CO-2 | Analyze the Network Architecture and implement Database security |
| | CO-3 | Design Database backup and recovery procedures, apply performance tuning operations |
| Advanced Web Programming (DE III) | CO-1 | Develop a project using ASP.Net with basic C# and Object-Oriented C# |
| | CO-2 | Create dynamic web applications using ASP.NET |
| | CO-3 | Implement backend database with controls using ADO.Net technology |
| Internet of Things (IoT)(DE III) | CO-1 | Describe the fundamentals of IoT |
| | CO-2 | Demonstrate appropriate use of protocols and cloud services for a given application |
| | CO-3 | Distinguish the IoT data using various data analytics methods |

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| | | CO-4 | Construct IoT based project using suitable hardware boards |
| | Computer Graphics (DE II) | CO-1 | Describe different computer graphics hardware and its functionality. |
| | | CO-2 | Apply Basic Raster graphics algorithm for drawing 2-D primitives. |
| | | CO-3 | Apply different 2-D and 3-D geometric transformation, viewing and clipping technique. |
| | | CO-4 | Demonstrate hidden surface elimination, curve and light shading techniques. |
| | Blockchain Technology (DE III) | CO-1 | Explain the concepts of Blockchain Technology |
| | | CO-2 | Identify various types of Blockchains and Consensus Mechanisms, smart contracts and use cases |
| | | CO-3 | Use blockchain platform for building solutions to real time applications |
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| VII | Information Systems Security | CO-1 | Analyse various security threats and countermeasures |
| | | CO-2 | Explain various security technologies and mechanisms |
| | | CO-3 | Describe various ethical and legal issues related to cybersecurity |
| | Cloud Computing | CO-1 | Classify the layers of cloud reference model based on their significance |
| | | CO-2 | Address security concerns and orchestration in cloud environment |
| | Software Testing (DE V) | CO-1 | Design and implement test cases for different levels and types of testing |
| | | CO-2 | Select appropriate manual and automatic testing for different modules of software |
| | | CO-3 | Apply test-driven development to improve testing and delivery in software development |
| | | CO-1 | Explain the fundamentals of deep learning. |

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| | Deep Learning (DE V) | CO-2 | Apply optimization and regularization for tuning the parameters of deep neural networks. |
| | | CO-3 | Build convolutional neural networks architectures for various applications. |
| | | CO-4 | Apply recurrent neural networks architectures for various applications. |
| | Ethical Hacking (DE V) | CO-1 | Demonstrate hacking in a lab environment. |
| | | CO-2 | Describe various countermeasures. |
| | | CO-3 | Describe various professional, ethical and legal issues related to ethical hacking. |
| | Network design (DE V) | CO-1 | Identify customer's needs and goals |
| | | CO-2 | Create a logical network design |
| | | CO-3 | Create a physical network design |
| | | CO-4 | Test, optimize and document network design |
| | Advanced Machine Learning (DE IV) | CO-1 | Explain advanced concepts in machine learning |
| | | CO-2 | Map real world problems to a machine learning problem definition and select appropriate machine learning algorithm |
| | | CO-3 | Design applications using machine learning techniques |
| | | CO-4 | Evaluate the performance of the applications |
| | UI and UX Design (DE IV) | CO-1 | Explain the fundamentals of UI UX Design |
| | | CO-2 | Design and evaluate a prototype |
| CO-3 | | Explain design thinking methodology | |
| CO-4 | | Create an UX design portfolio | |
| | | CO-1 | Describe the fundamental concepts and techniques of natural language processing |

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| | Natural Language Processing (DE IV) | CO-2 | Apply text pre-processing, word level analysis and syntax level analysis techniques on textual data |
| | | CO-3 | Implement approaches for semantic level analysis and pragmatic level analysis |
| | | CO-4 | Illustrate various real-world applications of NLP |
| | Advanced Database Management Systems (DE IV) | CO-1 | Analyze different database modelling and management techniques. |
| | | CO-2 | Evaluate measures of query cost, processing, and optimization techniques |
| | | CO-3 | Create programs to execute on XML and relational database systems |
| | | CO-4 | Understand advance database application and database administration |
| | E-Commerce (DE IV) | CO-1 | Classify and Compare different Electronic Commerce Software and Online Payment's methods. |
| | | CO-2 | Explain various E-Commerce Legal, ethical, social issues and Security issues. |
| | | CO-3 | Use modern engineering tool for developing effective model of E-Commerce web applications. |
| VIII | Project | CO-1 | Select an appropriate problem statement after reviewing the literature and identifying the research gaps. |
| | | CO-2 | Formulate a feasible design model. |
| | | CO-3 | Implement the prototype/proof of concept, test and validate the results. |
| | | CO-4 | Work efficiently in a team environment. |
| | | CO-5 | Summarize the findings into a technical report. |

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Program Name: MBA Pharma Tech (B.Pharm+MBA)

Program Outcomes:

1. **Pharmacy Knowledge:** Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.
2. **Planning Abilities:** Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.
3. **Problem analysis:** Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.
4. **Modern tool usage:** Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
5. **Leadership skills:** Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfilment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing.
6. **Professional Identity:** Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
7. **Pharmaceutical Ethics:** Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.
8. **Communication:** Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.
9. **The Pharmacist and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
10. **Environment and sustainability:** Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
11. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.





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Course Outcomes:

| Semester | Course Name | Course Outcomes | |
|----------|------------------------------------|--|---|
| I | Human Anatomy and Physiology I | CO-1 | Determine the various levels of structural organization of human body and its functions. |
| | | CO-2 | Correlate the different types of skeletal tissues and their significance in the body functions. |
| | | CO-3 | Interpret the concepts of various body fluids such as blood, lymph and assess the related disorders. |
| | | CO-4 | Integrate the coordinated working pattern of physiological systems such as the nervous system and circulatory system with other body systems. |
| | Pharmaceutical Analysis | CO-1 | Prepare volumetric solutions of specific strength and apply the concept of standardization |
| | | CO-2 | Apply the principles of volumetric and electrochemical analysis |
| | | CO-3 | Compare different types of titrations and titrimetric methods |
| | | CO-4 | Practice the concept of assay and calculation of titration factor |
| | Pharmaceutical Inorganic Chemistry | CO-1 | Know the sources of impurities in pharmaceuticals and Classify methods to determine the impurities in inorganic drugs and pharmaceuticals |
| | | CO-2 | Analyze medicinal and pharmaceutical inorganic compounds using different assay techniques |
| | | CO-3 | Understand about medicinal and pharmaceutical inorganic compounds importance and apply the knowledge of tonicity, osmosis and pH to prepare formulation |
| | | CO-4 | Understand the radiopharmaceuticals aspects in pharmaceutical and its application and justify role of buffer in pharmaceutical usage |
| | Pharmaceutics I | CO-1 | Describe the basics of pharmacy profession with reference to history, current scope, pharmacopoeias, prescription and pharmaceutical calculations |
| CO-2 | | Differentiate between types of dosage forms and types of pharmaceutical incompatibilities | |
| CO-3 | | Explain advantages, disadvantages, excipients and techniques required for formulating different monophasic and biphasic liquid dosage forms. | |


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| Semester | Course Name | Course Outcomes | |
|----------|--|-----------------|---|
| | | CO-4 | Explain advantages, disadvantages, excipients and techniques required for formulating dosage forms for topical and rectal administration |
| | Communication Skills | CO-1 | Make use of verbal, vocal & visual elements in presentations |
| | | CO-2 | Express opinions assertively |
| | | CO-3 | Apply communication techniques to create high impact messages |
| | | CO-4 | Express business decisions and outcomes at levels with great clarity and confidence. |
| | Remedial Biology | CO-1 | Illustrate the characteristics of five kingdoms of life and basis of classification. |
| | | CO-2 | Determine the morphology of flowering plants & anatomy of root, stem, leaf. |
| | | CO-3 | Integrate structural & functional aspects of cells and tissues, circulation, digestion, respiration, excretion, neural control and reproduction. |
| | | CO-4 | Assess the roles of mineral nutrition, process of photosynthesis, plant respiration, growth and development. |
| | Remedial Mathematics | CO-1 | Apply mathematical concepts to derive and understand the different theories and principles in pharmacy. |
| | | CO-2 | Analyse and solve the numerical problems in pharmacy using mathematics. |
| | | CO-3 | Use mathematical concepts to compute and analyse pharmacokinetic parameters. |
| | | CO-4 | Compute and analyse analytical related problems in pharmacy by applying mathematical concepts. |
| | Human Anatomy and Physiology I - Practical | CO-1 | Explain the gross morphology, structure and functions of various tissues of the human body. |
| | | CO-2 | Illustrate the various models such as Inali arm, Jaipur foot technology to resolve pathological issues of skeletal system. |
| | | CO-3 | Perform various hematological experiments, analyze the normal range levels of each hematological parameter and interpret the negative and positive feedback mechanism of homeostasis. |
| | | CO-4 | Justify the deviation in the normal parameters and their correlation with disorders. |
| | Pharmaceutical Analysis - Practical | CO-1 | Prepare volumetric solution of specific strength |
| | | CO-2 | Explain the principles of volumetric and electrochemical analysis |



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| Semester | Course Name | Course Outcomes | |
|----------|--|-----------------|--|
| | | CO-3 | Perform standardization and assay using volumetric and electrochemical titrations |
| | | CO-4 | Calculate titration factor and percentage purity |
| | Pharmaceutics I – Practical | CO-1 | Understand different excipients and their roles in formulations |
| | | CO-2 | Differentiate between types of dosage forms. |
| | | CO-3 | Calculate the quantities of ingredients for preparing formulations |
| | | CO-4 | Prepare various conventional dosage forms. |
| | Pharmaceutical Inorganic Chemistry – Practical | CO-1 | Determine the impurities in drugs and pharmaceuticals |
| | | CO-2 | Illustrate the medicinal and pharmaceutical importance of inorganic compounds |
| | | CO-3 | Perform test for purity |
| | | CO-4 | Predict known and unknown inorganic compounds |
| | Communication Skills – Practical | CO-1 | Communicate effectively, displaying the understanding of importance of verbal, vocal & visual elements in presentations |
| | | CO-2 | Express opinions assertively |
| | | CO-3 | Experiment with different communication techniques to create high impact messages |
| | | CO-4 | Articulate business decisions and outcomes with great clarity and confidence. |
| II | Pharmaceutical Organic Chemistry I – Theory | CO-1 | Identify and differentiate, organic compounds based on structure and structural isomerism. |
| | | CO-2 | Illustrate the chemical properties and predict the product of reactions based on methods of preparations and chemical properties of alkanes, alkenes, aldehydes, ketones, alcohols, amines, alkyl halides and carboxylic acids |
| | | CO-3 | Explain and apply mechanism of nucleophilic substitution reactions, elimination reactions, nucleophilic addition reactions of aldehydes and ketones, electrophilic addition reactions of |

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| Semester | Course Name | Course Outcomes |
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| | | alkenes, free radical reactions and name reactions. |
| | | CO-4 Discuss applications of compounds belonging to different classes. |
| | Biochemistry - Theory | CO-1 Understand classification and role of various biomolecules in human body and concept of bioenergetics |
| | | CO-2 Understand anabolic and catabolic pathways of various biomolecules with their bioenergetics |
| | | CO-3 Understand metabolic disorders and targets for treatment of disease |
| | | CO-4 Understand the role of enzymes kinetics and know significance of abnormality in organ function tests |
| | Pathophysiology – Theory (722PH0C014) | CO-1 Illustrate the pathophysiological basis (etiology, pathogenesis, clinical manifestations for cell injury and process of inflammation and repair. |
| | | CO-2 Predict aetiology and discuss pathogenesis of diseases of various physiological systems such as cardiovascular, respiratory and renal diseases, hematological, endocrine, nervous diseases, as well as understand the contributing factors. |
| | | CO-3 Evaluate the clinical significance of the morphologic and functional changes in GIT, cancer, hepatic, joint related disorders. |
| | | CO-4 Summarize the diagnosis, prognosis, treatment and prevention strategy for common infectious diseases |
| | Human Anatomy and Physiology II – Theory (722PH0C011) | CO-1 Analyze the gross morphology, structure, and functions of various physiological systems such as the nervous system, respiratory system, and urinary system |
| | | CO-2 Explain the mechanism of digestion and metabolism and discuss the role of various digestive secretions in digestive process. |
| | | CO-3 Categorize various hormones of endocrine gland, their functions and discuss the action and regulation of endocrine secretions. |

| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|---|
| | | CO-4 | Explain structure of male and female reproductive system and discuss spermatogenesis, menstrual cycle, oogenesis, and role of various hormones in reproduction. |
| | Computer Applications in Pharmacy – Theory (722PH0C015) | CO-1 | Explain the basic working of a computer processor and a software |
| | | CO-2 | Compare the different web technologies and database management systems used to store and retrieve pharmaceutical information |
| | | CO-3 | Choose and apply relevant bioinformatics databases, software and healthcare technology in the various applications in pharmaceutical industry |
| | | CO-4 | Explain the use of computers and computer software to store and manage data in analytical laboratories |
| | Environmental Sciences – Theory (722PH0C016) | CO-1 | Create awareness towards environmental issues and climate change |
| | | CO-2 | Analyze the different environmental issues and recommend corrective measures |
| | | CO-3 | Describe the different components of the environment and the nature |
| | Human Anatomy and Physiology II – Practical | CO-1 | Illustrate the anatomy of human body parts and the physiological relationship involved between the body systems. |
| | | CO-2 | Explain the visual acuity test, analysis of neurological status, sensory functions of a person and testing of reflexes, along with interpretation for the same. |
| | | CO-3 | Relate various types of medical devices (diagnosis and medical aids) and diagnostic tests with their underlying principles of working. |
| | | CO-4 | Justify the deviation in the normal parameters and their correlation with disorders. |
| | Pharmaceutical Organic Chemistry I – Practical | CO-1 | Classify unknown organic compounds by solubility and preliminary tests such as Color, odour, aliphaticity/aromaticity, saturation and unsaturation. |
| | | CO-2 | Explain and measure melting and boiling points of organic compounds. |



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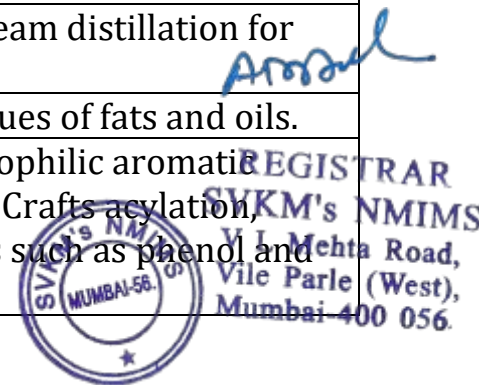
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| Semester | Course Name | Course Outcomes | |
|----------|---|---|--|
| | | CO-3 | Identify unknown compound by determining the presence of elements, functional groups and derivative preparation. |
| | | CO-4 | Construct molecular models of organic compounds using software for 2D and 3D structure drawing. |
| | Biochemistry – Practical | CO-1 | Perform tests and interpret the results to identify and quantify various biomolecules |
| | | CO-2 | Calculate the quantity of salts for preparing buffer solutions and measure the pH of same |
| | | CO-3 | Examine enzyme activity and understand the effect of various parameters on enzyme activity |
| | | CO-4 | Determine parameters like saponification, iodine and acid value of lipids and understand their significance |
| | Computer Applications in Pharmacy – Practical | CO-1 | Apply MS Word, MS Excel and MS Access to store and manage data in pharmaceuticals |
| | | CO-2 | Design a webpage to display basic information and store data |
| | | CO-3 | Choose the appropriate online database/tools to retrieve information |
| | Inventions in Science | CO-1 | Understand the concept of invention. |
| CO-2 | | Explain various inventions in science, medicine and pharmaceutical sciences | |
| III | Pharmaceutical Organic Chemistry II | CO-1 | Illustrate structure and predict the reactivity and reaction products for benzene and its derivatives, polynuclear hydrocarbons and cycloalkanes |
| | | CO-2 | Explain the chemistry, reactions and analytical constants of fats and oils. |
| | | CO-3 | Explain applications of compounds belonging to different classes |
| | | CO-4 | Differentiate five membered and six membered heterocycles containing up to two heteroatoms |
| | Pharmaceutical Engineering | CO-1 | Summarize the concepts of flow of fluids, know the role of size analysis and size reduction in pharmaceutical manufacturing. |
| | | CO-2 | Apply principles of heat transfer to various heat processes like evaporation and distillation. |



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| Semester | Course Name | Course Outcomes |
|----------|---|---|
| | | Measure humidity in Air and know its significance in pharma manufacturing and understand principles of drying and mixing with examples of equipment. |
| | | CO-3 Relate the theories and concepts of Filtration, Centrifugation and crystallization to their applications in pharmaceutical industry. |
| | | CO-4 Select material for plant construction, classify them and understand various types of corrosion, their prevention and theories of corrosion. |
| | Pharmaceutical Microbiology | CO-1 Explain the importance of the isolation, growth and culture techniques to observe and identify microbial and animal cells. |
| | | CO-2 Compare different methods of sterilization for their application in Sterility testing of official products. |
| | | CO-3 Evaluate the potency of pharmaceutical products using microbial assays. |
| | | CO-4 Corelate the concept of aseptic and clean area in pharmaceutical operations and the importance of preservatives used to prevent spoilage and microbial contamination. |
| | Physical Pharmaceutics I | CO-1 Compare different properties of material and select right material on the basis of its physiochemical properties for manufacture of effective pharmaceutical product. |
| | | CO-2 Apply knowledge of solubility in pharmaceutical preparations and select suitable parameters for modification of solubility of a pharmaceutical substance. |
| | | CO-3 Relate interfacial phenomena and adsorption to pharmaceutical sciences and connect the use of surfactants in designing various pharmaceutical products. |
| | | CO-4 Explore the applications of complexation, protein binding, pH, buffers and isotonicity in the field of pharmacy. |
| | Pharmaceutical Organic Chemistry II - Practical | CO-1 Apply laboratory techniques such as recrystallization and steam distillation for purification of aromatic compounds from reaction mixtures. |
| | | CO-2 Determine the acid value, iodine value and saponification values of fats and oils. |
| | | CO-3 Synthesize and characterize new organic molecules by electrophilic aromatic substitution reactions such as halogenation, nitration, Friedel-Crafts acylation, diazotization and coupling reactions on aromatic compounds such as phenol and aniline. |



| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|--|
| | | CO-4 | Synthesize and characterize the compounds based on oxidation, hydrolysis of ester, Claisen-Schmidt and Perkin reactions. |
| | Physical Pharmaceutics I – Practical | CO-1 | Develop skill of determining solubility of drugs and mastered ability to estimate distribution co-efficient of substances |
| | | CO-2 | Understand multi-component systems and partial miscibility of substances |
| | | CO-3 | Understand complexation and can use it in formulation development |
| | | CO-4 | Determine HLB of surfactants |
| | Pharmaceutical Microbiology – Practical | CO-1 | Differentiate the methods of identification, cultivation and preservation of various microorganisms |
| | | CO-2 | Illustrate the importance and implementation of sterilization in pharmaceutical processing and industry |
| | | CO-3 | Experiment the sterility testing of pharmaceutical products. |
| | | CO-4 | Practice the microbiological standardization of Pharmaceuticals. |
| | Pharmaceutical Engineering – Practical | CO-1 | Experiment with various heat processes applicable to pharma industry such as Steam distillation, drying, crystallization. Measure the moisture content, loss on drying, Air humidity knowing their role in pharma manufacturing. |
| | | CO-2 | Experiment with the working and applications of rotary tablet machine and dehumidifier, fluidized bed coater, fluid energy mill, colloid mill, planetary mixer, fluidized bed dryer and freeze dryer. |
| | | CO-3 | Examine the role of size analysis and size reduction in pharmaceutical manufacturing. Study the factors affecting Filtration, Evaporation and Crystallization. |
| | | CO-4 | Integrate the concept of efficiency of mixing and role of centrifugation in stability evaluation of emulsion |
| | Principles of Management | CO-1 | Apply different management approaches |
| | | CO-2 | Demonstrate and evaluate planning techniques |
| | | CO-3 | Evaluate work dynamics and be able to work in dynamic teams within organizations |
| | | CO-4 | Analyze different processes in staffing and controlling |



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| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|---|
| | Introduction to Research I | CO-1 | Understand the concept of research |
| | | CO-2 | Describe process of research |
| | | CO-3 | Explain various types of research |
| IV | Medicinal Chemistry I – Theory | CO-1 | Determine the pharmacokinetic and pharmacodynamics fate of drug molecules based on the physico-chemical properties of drug, predict phase-I and phase-II metabolism, apply the concept of bioisosterism in drug design and explain the importance of stereochemistry in drug action. |
| | | CO-2 | Classify drugs on the basis of chemical structure and mechanism of action, summarize indications and predict toxicity of drugs acting on Cholinergic, Adrenergic and central nervous system, NSAIDs and Central analgesics (Opioids) |
| | | CO-3 | Analyze Structure-Activity Relationship and predict effect of structure modification on activity. |
| | | CO-4 | Design synthesis of certain molecules acting on Central Nervous System, Autonomic Nervous system, NSAIDs and Opioids. |
| | Pharmaceutical Organic Chemistry III – Theory | CO-1 | Explain in detail the concepts of stereochemistry, meso compounds, stereoisomerism and their nomenclature. |
| | | CO-2 | Determine the optical activity on the basis of elements of symmetry. Able to suggest suitable method for separation of optical and geometrical isomers. |
| | | CO-3 | Illustrate structures and compare the reactivity of monoheteroatomic ring systems like furan, pyrrol, thiophene, indole, quinolone, isoquinoline etc and multiheteroatomic ring system like pyrazole, imidazole, oxazole, pyrimidine etc. Explain various reactions of compounds from these categories. |
| | | CO-4 | Explain applications of heterocyclic ring containing drugs from different classes of diseases. |
| | Pharmacognosy and Phytochemistry I – Theory | CO-1 | Discuss the concepts of pharmacognosy to classify, differentiate, evaluate and identify the crude drugs based on quality control techniques |
| | | CO-2 | Explain the current and modern techniques of cultivation and collection practices with the important factors affecting quality of plant growth, development and quantity of phytoconstituents |



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| Semester | Course Name | Course Outcomes | |
|----------|------------------------------------|-----------------|--|
| | | CO-3 | Distinguish between different types of primary and secondary metabolites and point out their therapeutic significance and pharmaceutical use based on their chemical nature |
| | | CO-4 | Indicate the role of pharmacognosy for use of therapeutic agents and pharmaceutical aids in traditional systems of medicine and modern pharmaceutical industry |
| | Pharmacology I – Theory | CO-1 | Explain general concepts of Pharmacology and explain factors affecting pharmacokinetic and pharmacodynamic behavior of drug, and apply these factors in Pharmacology of drugs and drug discovery. |
| | | CO-2 | Relate the receptor mediated actions of drugs, Adverse drug reactions, Drug interaction and Drug discovery process. |
| | | CO-3 | Explain the receptor mediated actions of drugs and neurohumoral transmission through Autonomic nervous system. Use these principles to suggest suitable drugs, in management of disorders, related to Autonomic nervous system. |
| | | CO-4 | Compare and contrast drugs used in the management of various CNS disorders to suggest suitable drugs in the management of anesthesia, muscular disorders, insomnia, epilepsy, and alcoholism. Additionally, justify their usage and associated complications like dependence, addiction, and tolerance. |
| | Physical Pharmaceutics II – Theory | CO-1 | Correlate various properties as well as theories for evaluation of colloids. Also develop understanding of evaluation and stability of colloidal dispersions. |
| | | CO-2 | Classify flow behavior of liquids and the influence of thixotropy in pharmaceutical formulations. Also will be able to define Viscosity as a concept and evaluate viscosity using different instruments. |
| | | CO-3 | Correlate the aspects of identification, formulation components and evaluation of suspension and emulsion along with stability measures. |
| | | CO-4 | Demonstrate effect of Particle size on properties of dosage forms and will be well-informed about measurement of particle size and surface area and apply this knowledge in development of solid dosage forms. Also, learn to apply principles of chemical kinetics on pharmaceutical products and its application in stability testing. |

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| Semester | Course Name | Course Outcomes | |
|--|---------------------------------------|--|--|
| | Introduction to Research II- Theory | CO-1 | Understand the concept of hypothesis, sampling and measurement in research. |
| | | CO-2 | Explain various types of scientific publications |
| | | CO-3 | Utilize various tools for effective literature search |
| | Medicinal Chemistry I – Practical | CO-1 | Identify reactants required based on reaction scheme and accordingly set up assembly for synthesis of organic compounds having therapeutic use |
| | | CO-2 | Evaluate the progress of the reaction using visual observation as well as quantifying color, pH, concentration of products using TLC, NMR, IR spectra |
| | | CO-3 | Perform Isolation and re-crystallization of product from the reaction mixture using information about solubility of solvents and recrystallization procedures at the end of reaction to obtain pure compound |
| | | CO-4 | Determine percentage purity of APIs/dosage forms as depicted in the official pharmacopoeia |
| | Physical Pharmaceutics II – Practical | CO-1 | Measure the particle size and flow properties of powders. |
| | | CO-2 | Predict the sedimentation of suspensions and evaluate effect of suspending agents on stability of suspension. |
| | | CO-3 | Analyze the order of reaction and apply it to drug stability determination. |
| | | CO-4 | Compute the viscosity of various formulations (Newtonian and Non-newtonian). Also learn to prepare colloids and evaluate them. |
| | Pharmacology I – Practical | CO-1 | Apply the basic concepts, common laboratory techniques used in experimental pharmacology and understand concept of CPCSEA guidelines. |
| | | CO-2 | Demonstrate the preclinical pharmacologic experiments for determination of activities of drugs on microsomal enzymes, ciliary motility, skeletal muscles, pupils and locomotor activity. |
| | | CO-3 | Design and evaluate the preclinical pharmacological experiments on CNS and local anesthetic activity. |
| Pharmacognosy and Phytochemistry I – Practical | CO-1 | Identify and Evaluate various leaf constants of crude drugs by using compound & digital microscope | |
| | CO-2 | Perform and Evaluate the Physical and chemical methods for identification and evaluation of adulterants using quality control tests specified by WHO | |

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| Semester | Course Name | Course Outcomes | |
|----------|--|-----------------|--|
| | Marketing Management Concepts and Strategies | CO-3 | Evaluate primary metabolites by using rganoleptic, physical & chemical tests |
| | | CO-1 | Formulate a market-oriented definition of business. |
| | | CO-2 | Analyze marketing environment |
| | | CO-3 | Apply concepts and tools relevant to segmentation, targeting and positioning and marketing mix. |
| | | CO-4 | Formulate a Marketing Plan for a chosen product or service. |
| V | Industrial Pharmacy I | CO-1 | Understand preformulation studies to design pharmaceutical dosage forms and correlate drug properties according to BCS classification. |
| | | CO-2 | Design and evaluate tablets, capsules, pellets, syrups, elixirs, suspensions and emulsions with their packages. |
| | | CO-3 | Design and evaluate parenteral, ophthalmic and aerosol dosage forms and their packages. |
| | | CO-4 | Formulate cosmetic preparations such as lipsticks, shampoos, cream, toothpastes, hair dyes and sunscreens. |
| | Medicinal Chemistry II | CO-1 | Compare and justify the uses of medicinal agents from anti histaminic and anti-cancer class based on the structure, classification, mode of action, SAR, chemical synthesis and applications to treat Hormonal disorders. |
| | | CO-2 | Compare and justify the uses of medicinal agents based on the structure, classification mode of action, SAR, chemical synthesis and uses to treat CVS disorders. |
| | | CO-3 | Compare and justify the uses of medicinal agents based on the structure, classification mode of action, SAR, chemical synthesis and applications to treat Hormonal disorders. |
| | | CO-4 | Compare and justify the uses of medicinal agents from anti hyperglycemic and local anesthetic class based on the structure, classification, mode of action, SAR, chemical synthesis and applications to treat Hormonal disorders |
| | Pharmaceutical Jurisprudence | CO-1 | Explain the different pharmaceutical legislations and their implications in the development and marketing of pharmaceuticals |
| | | CO-2 | Describe the pharmaceutical education in India and its regulation by the regulatory bodies |

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| Semester | Course Name | Course Outcomes | |
|----------|-------------------------------------|---|---|
| | | CO-3 | Understand and inculcate the pharmacists oath and code of pharmaceutical ethics |
| | | CO-4 | Enumerate the various rules and the offences-penalties for contravention of the pharmaceutical legislations in during pharmaceutical practice |
| | Pharmacognosy and Phytochemistry II | CO-1 | Discuss the basic metabolic pathways involved in the synthesis of different types of secondary metabolites groups |
| | | CO-2 | Explain chemistry, biosources, therapeutic and commercial applications of secondary metabolites containing crude drugs |
| | | CO-3 | Identify, compare and select isolation, identification & analysis of modern extraction techniques for industrial production and utilization of phytoconstituents |
| | | CO-4 | Understand the principles, procedures and use of various chromatographic, spectroscopic and electrophoresis techniques in identification and analysis of natural drugs in pharmacognosy |
| | Pharmacology II | CO-1 | Justify the mechanism of action, therapeutic uses, adverse effects, and contradictions of drugs used in cardiovascular complications. |
| | | CO-2 | Adapt & justify the principles of pharmacotherapy in the management of disease and disorders of hematopoietic system, urinary system, and endocrine system including their pharmacokinetics and dynamics. |
| | | CO-3 | Explain autacoids and drugs used for inflammation and gout. |
| | | CO-4 | Compare various methods of bioassay, adapt & inculcate the principles of bioassay of different drugs. |
| | Pharma Environment | CO-1 | Clearer understanding of the dynamics of pharma industry in particular and healthcare space in general both nationally and internationally. |
| | | CO-2 | This knowledge will help students to succeed in managing pharmaceutical business |
| | Industrial Pharmacy I – Practical | CO-1 | Determine preformulation parameters of a given drug. |
| | | CO-2 | Formulate and evaluate tablet and capsule dosage form |
| CO-3 | | Formulate and evaluate parenteral and ophthalmic dosage forms and their packages. | |
| CO-4 | | Prepare and evaluate of cosmetic formulations such as lipsticks and creams. | |



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| Semester | Course Name | Course Outcomes | |
|----------|---|--|---|
| | Pharmacology II – Practical | CO-1 | Apply and adapt the principles of in vitro experiments in cardiovascular pharmacology. |
| | | CO-2 | Compare and adapt the principles of experiments through dose response curve (DRC), different bioassay, PA2 value, PD2 value estimation, etc. using software. |
| | | CO-3 | Adapt & justify the various procedures with their principles of experiments meant for spasmogenic, spasmolytic, analgesic, and anti-inflammatory activities on different animal models. |
| | Pharmacognosy and Phytochemistry II – Practical | CO-1 | Perform and evaluate the morphological and microscopical characters to identify the crude drugs with reference to the types of cells, tissue and cell inclusions |
| | | CO-2 | Extract, isolate and evaluate active principles from natural drug using modern tools & techniques and study the natural excipients used for formulation pharmaceutical industry |
| | | CO-3 | Chromatographic and spectroscopic techniques and perform the identification and estimation of active principles extracted |
| | | CO-4 | Identify, examine and compare the various crude drugs in based on the basis of organoleptic, physical and chemical characteristics using physical and chemical test. |
| | Statistics for Management with MS Excel | CO-1 | Obtain clarity on basic fundamental concepts of statistics. |
| | | CO-2 | Be able to use various statistical tools for analyzing data to come to valid conclusions with certain degree of confidence. |
| CO-3 | | Achieve basic expertise in MS Excel in line with the Industry requirements | |
| VI | Biopharmaceutics and Pharmacokinetics – Theory (722PH0C053) | CO-1 | Explain absorption, drug disposition and protein binding mechanism for the drug & predict its Pharmacokinetics. |
| | | CO-2 | Understand physicochemical, pharmaceutical and patient related parameters, and correlate this knowledge to the ADME of drug and differentiate the processes in linear and nonlinear type. |
| | | CO-3 | Explain compartment models and Compute pharmacokinetic parameters form given data. |
| | | CO-4 | Design BABE study for given formulation based on data given. |



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| Semester | Course Name | Course Outcomes | |
|----------|--|-----------------|---|
| | Herbal Drug Technology – Theory (722PH0C052) | CO-1 | Explain various processes related to herbal materials, various aspects of biodynamic agriculture & Indian systems of medicine |
| | | CO-2 | Acquire the knowledge of nutraceuticals and their regulatory aspects with its application and drug interactions in the management of various metabolic diseases |
| | | CO-3 | Utilize the knowledge of natural excipients in development of formulations and cosmetics, to explain various regulations related to ASU drugs and herbals |
| | | CO-4 | Explain drug discovery process using ethnopharmacology, role of herbal drug industry and relevant regulations |
| | Medicinal Chemistry III – Theory (722PH0C050) | CO-1 | Explain and make use of the historical background, mechanism of action, Stereochemistry, degradation and important products of antibiotics like beta lactam, tetracycline, macrolide, aminoglycosides and miscellaneous |
| | | CO-2 | Compare and justify the use of medicinal agents based on the structure, classification, mode of action, SAR, chemical synthesis and uses to treat malaria, tuberculosis and urinary tract infections. |
| | | CO-3 | Compare and justify the use of medicinal agents from antifungal, anthelmintics, anti-viral and sulphonamides class based on the structure, classification, mode of action, SAR, chemical synthesis and uses thereof |
| | | CO-4 | Apply and propose the role of physiochemical parameters in drug design, prodrug, click and combinatorial synthesis. |
| | Pharmaceutical Biotechnology – Theory (722PH0C054) | CO-1 | Understand the importance and use of microbial products via fermentation technology in Pharmaceutical Industry. |
| | | CO-2 | Acquire the knowledge of rDNA technology and Genetic engineering applications in production of pharmaceuticals |
| | | CO-3 | Understand the concept of immunity in production of Vaccine, Monoclonal antibodies and Immunoassay kits. |
| | | CO-4 | Discuss the biotransformation and microbial genetics. |
| | Pharmaceutical Quality Assurance - | CO-1 | Discuss QC and QA concepts and relate it to quality certifications and regulations applicable to pharmaceutical industries |



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| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|---|
| | Theory (722PH0C055) | CO-2 | Understand the cGMP and GLP aspects, and Quality control of packaging materials in a pharmaceutical industry |
| | | CO-3 | Illustrate the importance of documentation in Pharmaceutical Industry |
| | | CO-4 | Explain calibration and validation in Pharmaceutical Industry |
| | Pharmacology III – Theory (722PH0C051) | CO-1 | Justify the uses of drugs and adapt the principles of pharmacotherapy in Respiratory and Gastrointestinal tract complications. |
| | | CO-2 | Hypothesize & explain the principles of chemotherapy and drug mechanism in the management of infectious disease and cancer. |
| | | CO-3 | Discuss the various phases of pharmacokinetics, pharmacodynamics of immunostimulants & immunosuppressants. |
| | | CO-4 | Understand ethical principles adopted by CPCSEA, principles of toxicology & chronopharmacology including drug mechanism causing toxicity. |
| | Medicinal Chemistry III – Practical | CO-1 | Demonstrate the Synthesis of the intermediates and drug molecules and characterize them with the available methods |
| | | CO-2 | Apply the analytical techniques for assay of drugs for quantifying their purity by using volumetric and instrumental analytical techniques. |
| | | CO-3 | Compare the synthesis of the Organic compounds by using conventional & Green Chemistry approaches. |
| | | CO-4 | Predict the Drug likeness and perform the simulation studies for understanding the pharmacological activity of chemical compounds. |
| | Pharmacology III – Practical | CO-1 | Determine human dose from animal dose data and animal dose from human dose data in pharmacological experiments. |
| | | CO-2 | Design the preclinical pharmacologic experiments for determination of activities of drugs like antiallergic, anti-ulcer & gastrointestinal motility, saline purgative, insulin hypoglycaemic effects & test for pyrogens. |
| | | CO-3 | Identify, illustrate & demonstrate experimentally, the effects of agonist and antagonists on isolated tissues like guinea pig ileum. |
| | | CO-4 | Test a drug for acute skin and eye toxicity, treating biochemical and experimental data for determination of its statistical significance. |



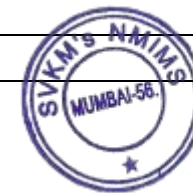
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| Semester | Course Name | Course Outcomes | | |
|----------|--|------------------------|---|--|
| | Herbal Drug Technology – Practical | CO-1 | Evaluate herbal drug excipients as per pharmacopoeial monograph | |
| | | CO-2 | Prepare, standardize, and evaluate herbal and ayurvedic formulations using pharmacopoeial standards | |
| | | CO-3 | Estimate the content of secondary metabolite in herbal drugs | |
| | Operations Research (722MN0C006) | CO-1 | Analyze practical situations and identify the variables involved. | |
| | | CO-2 | Develop models using these variables suitable for applying studied OR tools. | |
| | | CO-3 | Apply tools such as LPP, Assignment, Queuing Transportation, Game Theory, Replacement etc on various industrial applications. | |
| | | CO-4 | Analyze the outcomes and draw inferences. | |
| | Pharma Selling Process, PSS & KAM (722MN0C005) | CO-1 | Students will get clear understanding of how to manage selling process of both individual doctors and key accounts in pharma business. | |
| | VII | Industrial Pharmacy II | CO-1 | Know the process of pilot plant and scale up of pharmaceutical dosage forms |
| | | | CO-2 | Understand the process of technology transfer from lab scale to commercial batch |
| CO-3 | | | Illustrate different Laws and Acts that regulate pharmaceutical industry | |
| CO-4 | | | Explain the approval process and regulatory requirements for drug products | |
| | Novel Drug Delivery Systems | CO-1 | Apply the concept of various controlled release and targeted drug delivery mechanisms in developing novel formulations & Identify suitable polymers for developing novel drug delivery systems. | |
| | | CO-2 | Demonstrate the desirable properties and mechanism of various novel drug delivery systems. | |
| | | CO-3 | Design various novel and targeted drug delivery systems and evaluate their suitability by in vitro characteristics. | |
| | | CO-4 | Conceptualize the delivery of protein, peptide and macromolecules. | |
| | Pharmacy Practice | CO-1 | Illustrate the concept of Hospital, Hospital pharmacy organizations, Community pharmacy, Pharmacy & Therapeutics Committee, Drug information services and Clinical pharmacy. | |



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| Semester | Course Name | Course Outcomes | |
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| | | CO-2 | Organize & assess the drug distribution system in a hospital, Hospital formulary, Therapeutic drug monitoring, medication adherence and patient counselling. |
| | | CO-3 | Formulate & evaluate drug store management & inventory control, Investigational use of drugs, Interpretation of clinical laboratory tests. |
| | | CO-4 | Demonstrate education & training program in a hospital, prescribed medication order & communication skills. |
| | Instrumental Methods of Analysis | CO-1 | Understand the interaction of matter with electromagnetic radiations and its applications in drug analysis. |
| | | CO-2 | Demonstrate the chromatographic separation and analysis of drugs. |
| | | CO-3 | Apply principles of spectrophotometric and chromatographic analysis in quantifying analyte in solutions of unknown concentrations and formulations. |
| | | CO-4 | Understand instrumentation and applications of various spectroscopic and chromatographic techniques. |
| | Instrumental Methods of Analysis - Practical | CO-1 | Determine the absorption maxima of an organic compound; Perform estimation of various compounds by UV-visible spectrophotometry and fluorimetry. |
| | | CO-2 | Analyze the elements such as sodium and potassium and radicals such as chloride and sulphate in the given sample by the applications of Flame photometry and Nepheloturbidometry respectively. |
| | | CO-3 | Execute separation of various amino acids, sugars, plant pigments by paper/thin layer/Column Chromatography. |
| | | CO-4 | Illustrate the working of an HPLC & GC. |
| | Practice School | CO-1 | Understand the use of various in-silico techniques for drug discovery and working of sophisticated analytical instruments |
| | | CO-2 | Illustrate the need of scope of in-vitro assays, pre-clinical and clinical studies |
| CO-3 | | Use of "design of experiments" approach to develop different novel drug delivery systems (NDDS) and understand working of instruments used for their preparation and evaluation | |
| CO-4 | | Apply knowledge of regulatory guidelines for registration of herbal products | |
| Career Initiation Skills | CO-1 | Understand job search and interview process | |
| | CO-2 | Prepare appropriate resume reflecting their skills | |



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| | | CO-3 | Practice effective communication and office etiquette | |
| | | CO-4 | Develop interpersonal and networking skills | |
| | Financial Management I | CO-1 | Understand basics of accounting. | |
| | | CO-2 | Read and understand financial statements like P & L and Assets and Liabilities statements. | |
| | Marketing Management | CO-1 | Formulate a market oriented definition of business | |
| | | CO-2 | Analyze marketing environment | |
| | | CO-3 | Apply concepts and tools relevant to Segmentation, Targeting and Positioning | |
| | | CO-4 | Should be able to discuss the concept and elements of the Marketing Mix. | |
| | | CO-5 | Demonstrate the application of the elements of the marketing mix for a chosen P/S | |
| | | CO-6 | Explore the linkages between the Marketing Mix and the Marketing Strategy comprising of S-T-P. | |
| | Business Economics | CO-1 | What is an economy and how does it function | |
| | | CO-2 | What are the key economic variables or micro and macroeconomic aggregates which suggest the performance of the economy | |
| | | CO-3 | How do they influence each other and the economy as a whole | |
| | Health Insurance and Hospital Management | CO-1 | To make students aware of the importance, procedures and current practices in the Health Insurance industry | |
| | | CO-2 | To provide students hospital management concepts, starting with a focus on the issues and challenges in delivering good quality hospital services. To equip the future hospital managers to satisfactorily address the concerns on customer satisfaction. | |
| | VIII | Biostatistics and Research Methodology - Theory (7281BPB002) | CO-1 | Analyse and solve pharmaceutical problems by applying statistical concepts. |
| | | | CO-2 | Design experiments by using the concept of DoE and analyse them using statistical methods. |
| | | | CO-3 | Inculcate ideals of ethical research and discourage plagiarism. |
| CO-4 | | | Compare the different software that can be used for statistical analysis and design and analysis of experiments. | |

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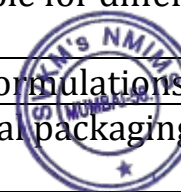


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| Semester | Course Name | Course Outcomes | |
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| | | | |
| | Cosmetic Science – Theory (7281BPC003) | CO-1 | Demonstrate the use of key cosmetic ingredients to develop cosmetics and cosmeceuticals. |
| | | CO-2 | Examine the requirements of sunscreen products and the role of herbs in cosmetics. |
| | | CO-3 | Prepare cosmetics or cosmeceutical products with desired safety, stability, and efficacy for skin, hair, nail, lip and oral care. Summarize the analysis of cosmetic products. |
| | | CO-4 | Analyze the problems associated with hair, skin, oral cavity, nail and lip and provide cosmetic remedies for the same. |
| | Dietary Supplements and Nutraceuticals - Theory (7281BPD001) | CO-1 | Discuss importance of nutraceuticals and nutrition |
| | | CO-2 | Explain the relationship between free radicals, diseases and nutraceuticals |
| | | CO-3 | Explain regulatory aspects related to nutraceuticals |
| | Social and Preventive Pharmacy - Theory (7281BPS001) | CO-1 | Integrate knowledge of Pharmacy with public health system. |
| | | CO-2 | Correlate current healthcare development with public health issues. |
| | | CO-3 | Propose alternative ways of solving problems related to individuals and public health issues. |
| | | CO-4 | Articulate the concept of community services in rural, urban , and school health. |
| | Pharmaceutical Product Development – Theory(7281BPP041) | CO-1 | Design preformulation and stability studies for different types of dosage forms |
| | | CO-2 | Select and evaluate various Pharmaceutical excipients suitable for different types of dosage forms |
| | | CO-3 | Apply QbD concept to design and optimize pharmaceutical formulations |
| | | CO-4 | Select and propose the quality control tests of pharmaceutical packaging materials as per regulatory guidelines. |

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| Semester | Course Name | Course Outcomes | |
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| | Pharmaceutical Regulatory Science – Theory (7280BPP035) | CO-1 | Analyze the process of drug discovery and development and generic product development and design regulatory submission strategy for dossier submissions based on regulatory requirements in different countries |
| | | CO-2 | Create and assemble the regulatory submissions as per the requirements of various agencies and correlate the same with India |
| | | CO-3 | Analyze the clinical trials and different types and phases of clinical trials as per GCP guidelines and write the drafts of clinical trial protocols for clinical trials based on regulatory requirements |
| | | CO-4 | Design various documents pertaining to drugs in pharmaceutical industry with special emphasis to regulatory submission strategy |
| | Pharmacovigilance – Theory - (7280BPP036) | CO-1 | Analyze & justify the pharmacovigilance, drug monitoring and adverse drug reaction management practices. |
| | | CO-2 | Integrate drug dictionaries, disease classifications and vaccine safety surveillance. |
| | | CO-3 | Organize safety data generation, ICH guidelines for pharmacovigilance. |
| | | CO-4 | Determine pharmacogenomics of adverse drug reactions & drug safety evaluation in special population. |
| | Pharmaceutical Marketing Management - Theory (7280BPP034) | CO-1 | Devise a market oriented plan of a Pharmaceutical business and analyse the marketing environment |
| | | CO-2 | Apply concepts and tools relevant to Segmentation, Targeting and Positioning |
| | | CO-3 | Illustrate the concept and elements of the Marketing Mix and demonstrate its application for a chosen P/S |
| | | CO-4 | Analyse the linkages between the Marketing Mix and the Marketing Strategy comprising of S-T-P. |
| | Organizational Behaviour | CO-1 | Will be able to analyze a business situation from the perspective of individual behavior. |
| | | CO-2 | Will be able to apply organizational behavioral theories / frameworks / models to reflect critically on specific business context. |



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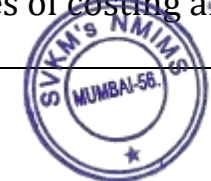
| Semester | Course Name | Course Outcomes | |
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| | | CO-3 | Will result in comprehending of personality traits and implications on organizational working. |
| | | CO-4 | Will result in comprehending about the importance of teams and team building in organization and its performance. |
| | Brand Plan for Pharma Products | CO-1 | Appreciate the process of analyzing the market and the competition |
| | | CO-2 | Put into practice tools like SWOT/PEST and STP |
| | | CO-3 | Evaluate the impact of various variables on the brand's performance |
| | | CO-4 | Formulate various cost and expense scenarios to finalise the optimum P&L statement |
| | Project Management | CO-1 | After the successful completion, of course student would: |
| | | CO-2 | Apply tools such as WBS, Gantt chart, Project networks, CPM and PERT to the project at hand and arrive at the optimum duration for the project in terms of project completion days, Total cost targets and probability attached to it. |
| | | CO-3 | Analyze any online project data to calculate various indices to check and then control the project proceedings to ultimately comply with the given duration, performance and cost at completion targets. |
| | | CO-4 | Apply the knowledge to carry out effective risk management in the ongoing project and prioritize various risks the project face and monitor them accordingly. |
| | Marketing Research Methodology including Advanced Statistical Tools | CO-1 | Be able to identify different types of research and their application in different business situations. |
| | | CO-2 | Understand the importance of zeroing down on the research problem before going about finding solutions to it. |
| | | CO-3 | Develop research instrument suitable for the research objectives at hand. |
| | | CO-4 | Collect data and analyze it using apt statistical technique and arrive at the conclusions. |
| | | CO-5 | Know important agencies providing market research services to pharmaceutical industry and their USPs. |
| | | CO-1 | The concepts and understanding of Operation Management and strategy |



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| Semester | Course Name | Course Outcomes | |
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| | Operations Management & Strategy | CO-2 | How to sustain business excellence and derive competitive advantage by using the principles of Operation Management and strategy in contemporary Business environment. |
| | | CO-3 | Understanding and managing the key business operations effectively and efficiently through ethical practices and total employee involvement and other stake holders. |
| | | CO-4 | Creating and managing a World class organization through 'Operation Management Principles' |
| | Quality Management Systems and Practices (7281Q001) | CO-1 | Be able to understand the importance of having strong QMS in an organization. |
| | | CO-2 | Can play an active part in adoption and maintenance of adopted QMS in the organization. |
| | Life Skills | CO-1 | Practice verbal & non-verbal communication effectively |
| | | CO-2 | Identify & develop professional goals |
| | | CO-3 | Implement self-management skills |
| | | CO-4 | Develop presentation, listening, problem solving skills |
| | IX | Customer Relationship Management | CO-1 |
| CO-2 | | | Define the IDIC Model and describe both B2B and B2C examples of personalization |
| CO-3 | | | Discuss the comparative advantages leading vendors of CRM technology |
| CO-4 | | | Develop a CRM programme for a business |
| Financial Analysis Planning & Control | | CO-1 | To create an awareness about the importance and usefulness of the accounting concepts and their managerial implications |
| | | CO-2 | To develop an understanding of the financial statements and the underlying principles and learn to interpret financial statements |
| | | CO-3 | To create an awareness about cost accounting, different types of costing and cost management |



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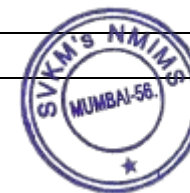
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| | Capstone | CO-1 | Analyze the Competition and comprehensive decision-making processes in a business so as to ensure that the firm remains competitive. |
| | | CO-2 | Identify the impact of micro and macro environment esp. W.r.t the P&L and Cash Flows in the context of business and the concerns and consequences of the decisions made from different business functional areas. |
| | | CO-3 | Generate and read the business scenarios and outcomes and can critically evaluate his own decision-making skills. |
| | | CO-4 | Work cohesively in a team and will understand the importance of each and every individual team member in the business decisions and business productivity. |
| | Indian Ethos and Business Ethics in Pharma | CO-1 | Understand the essence of Indian Management. |
| | | CO-2 | Develop a holistic view towards business management and its impact of society. |
| | | CO-3 | Appreciate the Regulatory framework for ethical standards |
| | Patient - Doctor Communications – Tech Enabled | CO-1 | Develop an ability to evaluate and decide on the tools which are appropriate by segment of doctors and by therapy area |
| | | CO-2 | Appreciate the impact of digital initiatives in maximizing depth and breadth of physician coverage |
| | | CO-3 | Understand the importance of measuring effectiveness of digital programs and the need to frame appropriate and relevant Key Performance Indicators (KPIs) |
| | Digital Strategy in Pharma Industry | CO-1 | At the end of this course students will learn about the overall importance of Digital Strategies in the Pharmaceutical Industry. |
| | | CO-2 | Students will also learn how to appreciate marketing transformation due to digital marketing. |
| | | CO-3 | The students will also learn how to demonstrate understanding of various digital media tools & Analyze which tool suits best with a communication objective |
| | Health Technology Assessment | CO-1 | The students will learn the fundamental concepts of Health Technology Management and its interface with Regulations, Policy and Management. |

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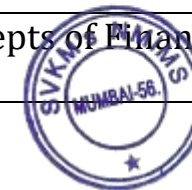
| Semester | Course Name | Course Outcomes | |
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| | | CO-2 | The students will also learn why some treatments are made available to patients while others are not. |
| | | CO-3 | The students will also learn about improving and integrating regulation of Drugs, Medical Devices, Diagnostic tests and Surgical Innovations for better HTA. |
| | | CO-4 | The students will learn the Cost Benefit Analysis of HTA |
| | Brand and Product Management | CO-1 | Clarity on what is a brand and what comprises brand equity. |
| | | CO-2 | Various Brand Models of depiction as well as measurement. |
| | | CO-3 | History of Brand Thinking & Crafting Brand Ideas. |
| | | CO-4 | Brand Plans and IMC – Integrated Marketing Communication. |
| | | CO-5 | Brand Strategies of Extensions vs. House of Brands. |
| | Business Strategy Management | CO-1 | Understand the contours of Strategy and the Strategic Management Framework/Process. |
| | | CO-2 | Diagnose and map the key elements of external environment as key input to strategy formulation. |
| | | CO-3 | Assessing the resources and capabilities of internal environment of an organization for strategy formulation. |
| | | CO-4 | Evaluate approaches to strategy choice at the Business Level and Corporate level |
| | | CO-5 | Understand the contemporary concepts on Blue Ocean Strategy, Value Innovation, Business Models etc. |
| | | CO-6 | Understand the dynamic capabilities and ambidexterity in strategy execution so as to exploit existing businesses and explore new businesses |
| | | CO-7 | Understand the performance measurement through Balanced Scorecard |
| Business Analytics (Visual) | CO-1 | Be able to use SAS Visual analytics to prepare the raw data. | |
| | CO-2 | Be able to load the data, analyze the data using different graphical visualizations.' | |
| | CO-3 | Be able to make interactive reports to be used by different users. | |
| Leading Digital – Turning Technology into Business | CO-1 | Students will learn engage better with their customers | |
| | CO-2 | They will learn how to digitally enhance operations | |
| | CO-3 | They will learn how to create a digital vision | |



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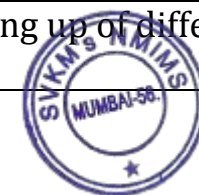
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| Semester | Course Name | Course Outcomes | |
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| | Transformation (incl. AI in Healthcare) | CO-4 | They will learn how to govern the digital activities |
| | | CO-5 | They will learn about the transformational power of Artificial Intelligence. |
| | | CO-6 | Students will become familiar with how to follow an extensive step-by-step transformation playbook |
| | Sales Management including Data Analytics | CO-1 | To help develop the ability to handle pharma sales management responsibilities |
| | | CO-2 | Understand choices available in the selling process of products or services and how to select the best alternatives including the right channels |
| | | CO-3 | Build and nourish sales teams and marketing channels |
| | | CO-4 | Understand any limitations under which sales people operate |
| | | CO-5 | Develop a pragmatic approach for selection, growth and evaluation of channel partners |
| | Human Resource Management | CO-1 | Understand the role of HRM in management and examine the human resource plan for an organization |
| | | CO-2 | Apply the knowledge of recruitment and selection process by - understanding the role requirement and source of labor along with using selection tests and employment interviews |
| | | CO-3 | Assess training needs, conduction and evaluation of training programs. |
| | | CO-4 | Analyze the performance management system by setting goals, evaluating performances and conducting appraisal interviews. |
| | Consumer Behaviour | CO-1 | Appreciate variations in consumer choice and usage phenomena and its impact on marketing strategy. |
| CO-2 | | Develop ability to use qualitative research tools to understand Psychological and Socio- Cultural Factors influencing consumer behavior. | |
| CO-3 | | Analyze influence of these factors on choice, usage and adoption of brands. | |
| CO-4 | | Formulate Marketing Programs in the light of the above understanding and analysis. | |
| X | Financial Management II | CO-1 | Students will be able to understand and apply the core concepts of Financial Management to various type of Financial Decisions |



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| Semester | Course Name | Course Outcomes | |
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| | | CO-2 | Student will be able to learn and apply various tools, evaluation criteria to Investment, Capital structure and Financing Decisions |
| | | CO-3 | Students will be able to understand the role of prudent Capital Management, Methods to optimize cost of capital in multiple business situations |
| | Predictive Analytics | CO-1 | Be able to demonstrate proficiency in developing analytical models such as Linear Regression, Logistics Regression , Decision Tree and Neural Networks |
| | | CO-2 | Be able to interpret and communicate the outcome of the model in a succinct and organized way |
| | Logistics & Supply Chain Management incl. Analytics & E-pharmacies | CO-1 | Apply basic knowledge of supply chain in the areas of logistics & supply chain, with special emphasis on processes in supply chain and their overall impact. |
| | | CO-2 | Apply the basic concepts of inventory management, its implication on overall profits, set up process of distribution and various channels in order to assist sales and marketing. |
| | | CO-3 | Can carry out various activities at strategic and operational levels both efficiently and effectively. |
| | | CO-4 | Capable to address problems arising in areas such as network, inventory management, information management etc. |
| | Introduction to Management Consulting Practice | CO-1 | It will introduce the student to the nature of professional consulting. |
| | | CO-2 | It will impart knowledge of organizational principles of management consulting. |
| | | CO-3 | Students will learn the behavioral rules of management consulting |
| | | CO-4 | It will also make the student aware of the various learning and development practices in management consulting. |
| | | CO-5 | Students will also learn specifically about Pharma and Healthcare Consulting opportunities and challenges. |
| | Entrepreneurship & New Ventures in Healthcare | CO-1 | Analyse the importance of innovation and creativity as a core business process and its management. |
| | | CO-2 | In-depth understanding of opportunities and challenges associated with starting a new venture in healthcare sector |
| | | CO-3 | Understand key factors that influence the adoption and scaling up of different types of healthcare innovations |



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| Semester | Course Name | Course Outcomes | |
|---|---------------------------------|--|---|
| | | CO-4 | Evaluate & assess opportunities and constraints for new business ideas. |
| | | CO-5 | Designing & Formulating Strategy to screen & implement a business idea into product. |
| | | CO-6 | Develop a robust and implementable business plan. |
| | Corporate Social Responsibility | CO-1 | Evaluating the various dimensions of Corporate Social Responsibility. |
| | | CO-2 | Analyse and evaluate the emerging issues in corporate sustainability with regards to its performance, reporting and assurance. |
| | | CO-3 | Develop a responsible business for sustainability |
| | Marketing of Diagnostics | CO-1 | Appreciate dynamics of diagnostic industry and its marketing implications. |
| | | CO-2 | Analyze influence of important stakeholders in diagnostic industry |
| | | CO-3 | Formulate Marketing Programs in the light of the above understanding and analysis. |
| | International Marketing | CO-1 | Develop a deeper understanding of the international pharma marketing in general and strategies in particular |
| | | CO-2 | Demonstrate the use of various concepts to ensure that appropriate balance is maintained between different types of marketing strategies in the innovative ways |
| | | CO-3 | Clearly identify, acquire and hone new skill sets in the international scenarios. |
| | | CO-4 | Apply basic skills in the preparation of the marketing plans and the entry strategies in different countries |
| Marketing of Biosimilars & Specialty Products | CO-1 | The prime learning outcome of this course is to provide the theoretical knowledge of how biologics and Biosimilars are different from small chemical molecules | |
| | CO-2 | The student needs to have a working knowledge of the regulatory guidelines for biologics and Biosimilars | |
| | CO-3 | The mechanics of selling and promoting Biosimilars are distinctly different from those of conventional drugs and students need to be familiar with the various tools of KOL and patient engagement | |
| | Marketing of Medical Devices | CO-1 | Students will understand the basic difference between Medical Devices & Pharmaceutical market segment. |

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| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|---|
| | | CO-2 | Strategies that companies adopt in different product segment of Medical Devices |
| | | CO-3 | Hospital Sales |
| | | CO-4 | Challenges in Regulatory |
| | | CO-5 | Importance of Branding in Preventing Price Erosion |
| | | CO-1 | Learning of various advanced quantitative techniques in different challenging business situations. |
| | Quantitative Techniques for Forecasting & Decision Making | CO-2 | Learn to use different forecasting techniques and compare them to choose the best for the given data |
| | | CO-1 | Students will learn how to create differentiation - building value propositions since APIs are basically unbranded. |
| | Marketing of Active Pharmaceutical Ingredients | CO-2 | Students will learn how to forecast and estimate demand to ensure uninterrupted supplies |
| | | CO-3 | Students will pick up competencies and skill sets required to become a successful API sales and marketing professional |
| | | CO-4 | Students will also learn the Key Account Management (KAM) Model of API Marketing. Students will also learn Digital tools in API Marketing |
| | | | |

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Program Name: M.Pharm Program

Program Outcomes:

- 1. Pharmacy knowledge:** Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.
- 2. Problem solving:** Demonstrate effective planning abilities and utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.
- 3. Modern tool usage:** Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
- 4. Leadership skills:** Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.
- 5. Professional Identity & ethics:** Understand, analyze and communicate the value of their professional roles in society while maintaining personal values and ethics.
- 6. Communication:** Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.
- 7. The Pharmacist and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
- 8. Life-long learning:** Ability to engage in independent and life-long learning in the broadest context of technological change and sustainability. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

Program Specific Outcomes (PSO's) for each specialization

M.Pharm. Pharmaceuticals:

PSO1: Demonstrate advanced knowledge of pharmaceutical formulation, drug delivery systems, and dosage form design.

PSO2: Develop skills in pharmaceutical product development, from concept to commercialization.

PSO3: Apply the knowledge of developing cosmeceuticals and computational skills in drug development.

M.Pharm. Pharmaceutical Technology:

PSO1: Design and optimize novel drug delivery systems and advanced therapeutic platforms, incorporating modern technologies and biomaterials to enhance product performance.

PSO2: Demonstrate the significance of nanotechnology and quality by design in pharmaceutical product development.

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PSO3: Develop skills in the specialized areas of medical devices and pharmacokinetics.

M.Pharm. Industrial Pharmacy:

PSO1: Design pharmaceutical formulations and develop novel drug delivery systems by following advanced production techniques.

PSO2: Demonstrate the scale up and technology transfer skills.

PSO3: Apply the knowledge in protection of intellectual properties.

M.Pharm. Pharmaceutical Quality Assurance

PSO1: Understand regulatory guidelines like Good Practices (GxP) like, Good Manufacturing Practices (GMP), Good Laboratory Practices (GLP), and (ICH) standards and to ensure quality at every stage of drug formulation and process development, from raw materials to finished products.

PSO2: Ensure proficiency in validating analytical methods and process used in Pharmaceutical industry and implementing and managing quality management systems in pharmaceutical industries.

PSO3: Familiarize with pharmaceutical documentation and audit processes to meet regulatory requirements in pharmaceutical manufacturing environment and promote awareness of the societal impact of pharmaceutical quality assurance on public health.

M.Pharm. Regulatory Affairs:

PSO1: Demonstrate comprehensive understanding and practical application of national and international pharmaceutical regulatory frameworks, guidelines, and standards governing drug development, manufacturing, and marketing.

PSO2: Manage the regulatory aspects of clinical trials, maintain pharmaceutical quality management systems that ensure compliance and develop innovative solutions for complex regulatory challenges

PSO3: Evaluate and navigate regulatory requirements across different global markets, developing strategies for international product registration and managing harmonization initiatives.

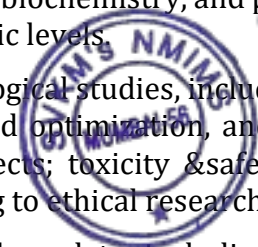
M.Pharm. Pharmacology

PSO1: Apply advanced principles of drug action and receptor theory to analyze drug-target interactions, signal transduction pathways, and therapeutic mechanisms, integrating concepts of molecular pharmacology, biochemistry, and pathophysiology to understand drug effects at cellular and systemic levels.

PSO2: Design and execute preclinical pharmacological studies, including in vitro and in vivo experiments for target identification, lead optimization, and assessment of pharmacokinetic & pharmacodynamic drug effects; toxicity & safety profiles, and potential therapeutic applications while adhering to ethical research principles.

PSO3: Analyze and interpret clinical pharmacology data, including bioavailability studies, therapeutic drug monitoring, and population pharmacokinetics to optimize therapeutic outcomes, meet regulatory requirements, and apply pharmacogenomic principles to support precision medicine initiatives.

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M. Pharm (Pharmaceutics)

| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|--|
| I | Modern Pharmaceutical Analytical Techniques | CO-1 | Explain the applications of various analytical techniques like UV, IR, NMR, Mass, X-Ray Diffraction, Chromatographic and electrophoretic analysis for various Pharmaceutical Products Analysis |
| | | CO-2 | Apply the various Analytical Techniques for various Drugs and Pharmaceutical Analytical Applications . |
| | | CO-3 | Summarize all the theoretical knowledge on various instrumental techniques available for analysis of various dosage and pharmaceutical forms |
| | | CO-4 | Apply the knowledge learnt in developing new procedures for analytical testing of various dosage forms. |
| | Drug Delivery Systems | CO-1 | Design and develop various approaches for the development of novel drug delivery systems |
| | | CO-2 | Identify and analyze the key ingredients, polymers for the development of delivering system |
| | | CO-3 | Grasp the fundamental importance and significance of Drug Delivery Systems, as well as apply what they've learned to develop products for Novel use |
| | | CO-4 | Investigate the concepts of Gastro-Retentive, Ocular, Transdermal, Protein and Peptide, and Vaccine Delivery Systems and critically evaluate problems associated with various Drug Delivery Systems. |
| | Modern Pharmaceutics | CO-1 | Design the elements of preformulation studies and Apply QbD concept to design and optimize pharmaceutical formulations. |
| | | CO-2 | Evaluate various Industrial Management aspects, Pharmaceutical Validation and GMP Considerations. |
| | | CO-3 | Analyze the concepts of Physics of tablet compression, compaction and consolidation. |
| | | CO-4 | Apply various Statistical techniques in pharmaceutical development. |



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| Semester | Course Name | Course Outcomes | |
|----------|--|-----------------|---|
| | Pharmaceutics Practicals - I | CO-1 | Evaluate drugs by various instrumental analytical techniques. |
| | | CO-2 | Perform preformulation studies for development of various dosage forms. |
| | | CO-3 | Design and optimize various types of controlled oral, transdermal and mucosal drug delivery systems. |
| | | CO-4 | Evaluate the compressional force, micromeritic properties, effect of particle size, binders on formulation of Tablets with the prediction of pharmaceutical factors affecting drug release kinetics |
| | Regulatory Affairs | CO-1 | Understand the significance of documentation in Pharmaceutical industry. |
| | | CO-2 | Apply the concepts of filing and approval of IND, NDA and ANDA for drug development as per different regulatory agencies. |
| | | CO-3 | Implement knowledge of ICH Guidelines for registrations of drug substance and drug product according to CTD/ eCTD formats. |
| | | CO-4 | Assess clinical trials requirements and Pharmacovigilance. |
| II | Computer Aided Drug Development (723PH0C028) | CO-1 | Explain the history and evolution of application of computer aided techniques in pharmaceutical research and industry. |
| | | CO-2 | Design experiments by using the concept of QBD and DoE in formulation development and analyze them using a computer software. |
| | | CO-3 | Summarize the use of computer aided techniques in drug discovery, pre-clinical and clinical development. |
| | | CO-4 | Discuss the recent trends and future directions in computer aided techniques for pharmaceutical automation and applications. |
| | Molecular Pharmaceutics (Nano Technology) | CO-1 | Develop strategies of targeted drug delivery systems for tumor and brain specific delivery. |

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| Semester | Course Name | Course Outcomes | |
|---|---|--|--|
| | & Targeted DDS) (723PH0C027) | CO-2 | Formulate various targeting carriers like nanoparticles, liposomes, monoclonal antibodies, niosomes, aquasomes, phytosomes, electrosomes, transfersomes, exosomes, biosensors, medical devices and theranostics. |
| | | CO-3 | Design aerosols, dry powder inhalers, other intra nasal route delivery systems and their packaging containers. |
| | | CO-4 | Apply the knowledge of gene therapy, antisense molecules and aptamers in the design of targeted drug delivery systems including liposomal gene delivery system. |
| | Cosmetics and Cosmeceuticals (723PH0C029) | CO-1 | Design and develop cosmetics and cosmeceuticals while adhering to regulatory requirements. |
| | | CO-2 | Identify and evaluate the key ingredients and building blocks to develop Cosmetics and Cosmeceuticals |
| | | CO-3 | Grasp and apply the knowledge of skin and its biology to create Cosmetics and Cosmeceuticals to address the problems associated with skin and oral cavity |
| | | CO-4 | Apply the knowledge of ingredients and building blocks to formulate safe herbal Cosmetics and Cosmeceuticals |
| Advanced Biopharmaceutics & Pharmacokinetics (723PH0C044) | CO-1 | Understand the basic concepts in biopharmaceutics and drug absorption, distribution, metabolism and elimination. | |
| | CO-2 | Analyze the pharmacokinetic data and interpret the pharmacokinetic parameters of products. | |
| | CO-3 | Design and evaluate of bioavailability and bioequivalence Studies. | |
| | CO-4 | Apply and co-relate the concepts of pharmacodynamic, drug interactions, IVIVC for efficient design of dosage forms. | |
| Pharmaceutics Practicals - II | CO-1 | Design and develop various delivery systems like microcapsules, microparticles, alginate beads, liposomes/niosomes, spherules and solid dispersions. | |
| | CO-2 | Formulate and evaluate various cosmetic products. | |



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| Semester | Course Name | Course Outcomes | |
|----------|--------------------------------------|-----------------|--|
| | | CO-3 | Apply QbD concept for optimization of pharmaceutical products. |
| | | CO-4 | Analyze and predict pharmacokinetic parameters using software, simulations and computational modeling of drug disposition. |
| III | Research Methodology & Biostatistics | CO-1 | Design the concept of research methodologies |
| | | CO-2 | Compile various statistical tools in pharmaceutical research |
| | | CO-3 | Write medical research in research studies and healthcare |
| | | CO-4 | Plan the animal studies as per CPCSEA guidelines |

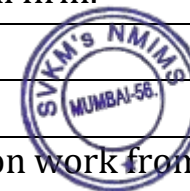
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M. Pharm (Pharmaceutical Technology)

| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|--|
| I | Modern Pharmaceutical Analytical Techniques | CO-1 | Explain the applications of various analytical techniques like UV, IR, NMR, Mass, X-Ray Diffraction, Chromatographic and electrophoretic analysis for various Pharmaceutical Products Analysis |
| | | CO-2 | Apply the various Analytical Techniques for various Drugs and Pharmaceutical Analytical Applications . |
| | | CO-3 | Summarize all the theoretical knowledge on various instrumental techniques available for analysis of various dosage and pharmaceutical forms |
| | | CO-4 | Apply the knowledge learnt in developing new procedures for analytical testing of various dosage forms. |
| | Pharmaceutical Product Development | CO-1 | Understand product life cycle and drug development strategies. |
| | | CO-2 | Design formulation and manufacturing processes. |
| | | CO-3 | Plan scale up and technology transfer activities. |
| | | CO-4 | Explain regulatory aspects and prepare dossiers for pharmaceutical products. |
| | Advances in Drug Delivery | CO-1 | Design and analyse the various concepts and models of drug delivery systems, their recommend the carriers involved in drug delivery. |
| | | CO-2 | Formulate and evaluate various novel drug delivery systems like oral, mucoadhesive, ransdermal systems, targeted systems, protein/peptide systems. |
| | | CO-3 | Explain the biotechnology in drug delivery systems. |
| | | CO-4 | Summarize the new trends for personalized medicine. |
| | Pharmaceutical Technology Practical - I | CO-1 | Demonstrate the scheduled activities in a pharmaceutical firm. |
| | | CO-2 | Interpret and apply the knowledge in routine F & D. |
| | | CO-3 | Design and analysis of various dosage form. |
| | | CO-4 | Understand and analyse the requirements for formulation work from start to end. |
| | | CO-1 | Assess and prepare documents as per different Regulatory Agencies worldwide. |



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| Semester | Course Name | Course Outcomes | |
|----------|---|--|--|
| | Drug Regulatory Affairs & Compliance | CO-2 | Establish procedures and requirements to get marketing authorization for bulk and formulation as per USA and EU |
| | | CO-3 | Analyze various ICH guidelines and WHO Prequalification of Medicines |
| | | CO-4 | Assess various Intellectual property rights, various routes of filing patents and patents act. |
| II | Pharmaceutical Nanotechnology | CO-1 | Understand the concepts of nanoscience, regulatory aspects and their advances. |
| | | CO-2 | Design and optimize different nanoformulations. |
| | | CO-3 | Outline characterization parameters and packaging of nanoformulations. |
| | Advances in Medical Devices | CO-1 | Compile the National, International status for medical device market and discuss the MDR Act 2017 India. |
| | | CO-2 | Conceptualise the design, evaluation of medical device and the WHO requirement of regulated market in various countries like US, Canada, India. |
| | | CO-3 | Explain the applications and functioning of the various implantable active medical devices, prosthetics, support devices, wound dressings, orthopedic, dental and other medical devices. |
| | | CO-4 | Differentiate various polymeric and other materials used in construction of medical devices, packaging materials and the selection of sterilization process. |
| | Quality By Design in Pharmaceuticals | CO-1 | Analyze the various statistical tools applied in pharmaceutical industry. |
| | | CO-2 | Apply the knowledge of QbD for formulation development. |
| | Pharmaceutical Technology Practicals - II | CO-1 | Formulate, characterize and evaluate various novel drug delivery systems, herbal and cosmetic formulations. |
| | | CO-2 | Apply DOE and QbD software for product development. |
| | | CO-3 | Demonstrate few medical devices and newer technology involved in advanced drug delivery systems, Differentiate the marketed formulation brands using In - vitro studies. |
| CO-4 | | Analyse and interpret results obtained with various analytical techniques. | |



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| Semester | Course Name | Course Outcomes | |
|----------|--|-----------------|---|
| | Pharmacoeconomics | CO-1 | Compares the value of one pharmaceutical drug or drug therapy to another systems. |
| | | CO-2 | Distinguish the Principles, Methods, and Applications. |
| | | CO-3 | Design the pharmacoeconomic literature evaluation. |
| | | CO-4 | Prepare the cost-effectiveness and incremental analysis, Sensitivity analysis of therapy. |
| | Advanced Biopharmaceutics & Pharmacokinetics | CO-1 | Understand the basic concepts in biopharmaceutics and drug absorption, distribution, metabolism and elimination. |
| | | CO-2 | Analyze the pharmacokinetic data and interpret the pharmacokinetic parameters of products. |
| | | CO-3 | Design and evaluate of bioavailability and bioequivalence Studies. |
| | | CO-4 | Apply and co-relate the concepts of pharmacodynamic, drug interactions, IVIVC for efficient design of dosage forms. |
| III | Research Methodology & Biostatistics | CO-1 | Design the concept of research methodologies |
| | | CO-2 | Compile various statistical tools in pharmaceutical research |
| | | CO-3 | Write medical research in research studies and healthcare |
| | | CO-4 | Plan the animal studies as per CPCSEA guidelines |

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M. Pharm (Industrial Pharmacy)

| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|--|
| I | Modern Pharmaceutical Analytical Techniques | CO-1 | Explain the applications of various analytical techniques like UV, IR, NMR, Mass, X-Ray Diffraction, Chromatographic and electrophoretic analysis for various Pharmaceutical Products Analysis |
| | | CO-2 | Apply the various Analytical Techniques for various Drugs and Pharmaceutical Analytical Applications . |
| | | CO-3 | Summarize all the theoretical knowledge on various instrumental techniques available for analysis of various dosage and pharmaceutical forms |
| | | CO-4 | Apply the knowledge learnt in developing new procedures for analytical testing of various dosage forms. |
| | Pharmaceutical Formulation Development | CO-1 | Plan preformulation studies |
| | | CO-2 | Design dosage form based on knowledge of formulation additives, design of experiments and solubility studies |
| | | CO-3 | Construct the dissolution and stability studies |
| | Novel Drug Delivery Systems | CO-1 | Design and analyse the various concepts and models of drug delivery systems, their recommend the carriers involved in drug delivery. |
| | | CO-2 | Formulate and evaluate various novel drug delivery systems like oral, mucoadhesive, transdermal systems, targeted systems, protein/peptide systems. |
| | | CO-3 | Explain the biotechnology in drug delivery systems. |
| | | CO-4 | Summarize the new trends for personalized medicine. |
| | Industrial Pharmacy Practicals - I <i>Arosal</i> | CO-1 | Demonstrate and analyse the scheduled activities in a pharmaceutical firm using various sophisticated analytical instruments |
| | | CO-2 | Interpret and apply the knowledge in routine Formulation R & D and Analytical R&D activities |

| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|---|
| | Intellectual Property Rights | CO-3 | Designing and analysing the preformulation studies for various pharmaceutical dosage forms and cosmetic formulations |
| | | CO-1 | Assess and prepare documents as per different Regulatory Agencies worldwide. |
| | | CO-2 | Understand the scope for protecting novel creations and critically analyze the inventiveness of work. |
| | | CO-3 | Assess various Intellectual property rights, various routes of filing patents, prior art and patents act. |
| II | Scale up and Technology Transfer (723PH0C022) | CO-1 | Manage the scale up process in pharmaceutical industry and assist in technology transfer with understanding of QbD, PAT. |
| | | CO-2 | Plan the various equipment and instruments qualification |
| | | CO-3 | Apply the validation concepts to analytical methods, cleaning of equipment, raw material, different processes of manufacturing, aseptic room, environmental control |
| | | CO-4 | Establish safety guidelines, which prevent industrial hazards. |
| | Advanced Biopharmaceutics & Pharmacokinetics (723PH0C044) | CO-1 | Understand the basic concepts in biopharmaceutics and drug absorption, distribution, metabolism and elimination. |
| | | CO-2 | Analyze the pharmacokinetic data and interpret the pharmacokinetic parameters of products. |
| | | CO-3 | Design and evaluate of bioavailability and bioequivalence Studies. |
| | | CO-4 | Apply and co-relate the concepts of pharmacodynamic, drug interactions, IVIVC for efficient design of dosage forms. |

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| Semester | Course Name | Course Outcomes | |
|----------|---|--------------------------------------|---|
| | Pharmaceutical Production Technology (723PH0C023) | CO-1 | Understand the manufacturing processes of dosage forms like tablets, capsules, dispersion systems and plan their production activities. |
| | | CO-2 | Design the manufacturing layout parenteral products with advanced technologies. |
| | | CO-3 | Suggest the best packaging material for different pharmaceutical products. |
| | | CO-4 | Apply concepts of water treatment process at industrial scale. |
| | Entrepreneurship Management (723PH0C024) | CO-1 | Understand the role of enterprise in national and global economy. |
| | | CO-2 | Understand dynamics of motivation and concepts of entrepreneurship. |
| | | CO-3 | Understand demands and challenges of Growth Strategies and Networking. |
| | Industrial Pharmacy Practicals - II | CO-1 | Demonstrate the preparation and characterization of various formulations. |
| | | CO-2 | Understand mathematical modelling and pharmacokinetic parameters. |
| | | CO-3 | Design the scale-up of pharmaceutical formulations. |
| | | CO-4 | Decide/perform drying processes. |
| | III | Research Methodology & Biostatistics | CO-1 |
| CO-2 | | | Compile various statistical tools in pharmaceutical research |
| CO-3 | | | Write medical research in research studies and healthcare |
| CO-4 | | | Plan the animal studies as per CPCSEA guidelines |

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M. Pharm (Pharmaceutical Quality Assurance)

| Semester | Course Name | Course Outcomes |
|----------|---|---|
| I | Modern Pharmaceutical Analytical Techniques | CO-1 Explain the applications of various analytical techniques like UV, IR, NMR, Mass, X-Ray Diffraction, Chromatographic and electrophoretic analysis for various Pharmaceutical Products Analysis |
| | | CO-2 Apply the various Analytical Techniques for various Drugs and Pharmaceutical Analytical Applications . |
| | | CO-3 Summarize all the theoretical knowledge on various instrumental techniques available for analysis of various dosage and pharmaceutical forms |
| | | CO-4 Apply the knowledge learnt in developing new procedures for analytical testing of various dosage forms. |
| | Product Development and Technology Transfer | CO-1 Explain the new product development process |
| | | CO-2 Apply the technology transfer models to the transfer of technology from R&D to actual manufacturing, and between various manufacturing places. |
| | | CO-3 Analyse scale up related issues and provide solutions. |
| | | CO-4 Evaluate and select the pharmaceutical packaging for specific dosage forms. |
| | Quality Control and Quality Assurance | CO-1 Understand the aspects of cGMP and the responsibilities of QA & QC departments in the pharmaceutical industry. |
| | | CO-2 Analyse the significance of documentation. |
| | | CO-3 Apply the quality certifications and regulatory requirements, applicable to pharmaceutical industries. |
| | | CO-4 Evaluate in process quality control and finished products quality control test for dosage forms in Pharma industry. |
| | Quality Management Systems | CO-1 Demonstrate quality as a strategic decision, requirements of the quality management system and regulatory compliance. |




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| Semester | Course Name | Course Outcomes | |
|---|--|---|--|
| | | CO-2 | Understand the components of quality system and identify possible deficiencies according to inspection model. |
| | | CO-3 | Interpret and apply ICH Guidelines Q1, Q8, Q9 and Q10. |
| | | CO-4 | Integrate statistical approaches to process control. |
| | Pharmaceutical Quality Assurance Practical - I | CO-1 | Analyse bulk drugs and in their formulations using different analytical instruments like UV Vis spectrophotometer, HPLC, gas chromatography. |
| | | CO-2 | Perform in-process and finished product quality control tests for tablets, capsules, parenteral and semisolid dosage forms. |
| | | CO-3 | Carry out preformulation, solubility studies and design stability protocols. |
| | | CO-4 | Understand different quality concept like TQM, six sigma, OOS, OOT, change control, CAPA, deviation |
| II | Audits and Regulatory Compliance | CO-1 | Understand the auditing process. |
| | | CO-2 | Evaluate the role of quality systems and audit in pharmaceutical manufacturing environment as per cGMP requirements. |
| | | CO-3 | Plan the audit of production process, equipment and utility systems. |
| | | CO-4 | Apply knowledge in auditing of microbiology testing laboratory. |
| | Pharmaceutical Validation | CO-1 | Understand the concepts of calibration, qualification and validation |
| | | CO-2 | Plan the various equipment and instruments qualification |
| | | CO-3 | Apply the validation concepts to analytical methods, cleaning of equipment, sterilization process and processing of different dosage forms. |
| | | CO-4 | Adapt the practices and procedures of filing IPR. |
| Pharmaceutical Manufacturing Technology | CO-1 | Acquaint with the legal requirements, common practices and production activities in a pharmaceutical plant. | |
| | CO-2 | Design the manufacturing layout requirements, recommend the manufacturing plant location | |



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| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|--|
| | | CO-3 | Understand the production process, Quality by design approach and advanced manufacturing technology for dosage forms like tablet, parenteral products. |
| | | CO-4 | Utilize the best packaging material for different dosage form with automated machinery. |
| | Hazards and Safety Management | CO-1 | Categorize various natural resources; understand the concept, structure and function of an ecosystem. |
| | | CO-2 | Demonstrate the knowledge of, and need for sustainable development. |
| | | CO-3 | Design a clear mechanism for the identification and management of different kinds of hazards/risks at a workplace. |
| | | CO-4 | Assess the safety standards in pharmaceutical industry and plan the method of risk assessment to provide safe industrial atmosphere. |
| | Pharmaceutical Quality Assurance Practical - II | CO-1 | Demonstrate And characterize the material and Product by using different analytical techniques and analyse causes for batch variation. |
| | | CO-2 | Interpret and apply the requirements during quality control and formulation development |
| | | CO-3 | Understand the requirements for validation, and qualification. |
| | | CO-4 | Understand the quality by design concept and PAT. |
| III | Research Methodology & Biostatistics | CO-1 | Design the concept of research methodologies |
| | | CO-2 | Compile various statistical tools in pharmaceutical research |
| | | CO-3 | Write medical research in research studies and healthcare |
| | | CO-4 | Plan the animal studies as per CPCSEA guidelines |

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M. Pharm (Regulatory Affairs)

| Semester | Course Name | Course Outcomes | |
|-------------------------------|---|--|--|
| I | Modern Pharmaceutical Analytical Techniques | CO-1 | Explain the applications of various analytical techniques like UV, IR, NMR, Mass, X-Ray Diffraction, Chromatographic and electrophoretic analysis for various Pharmaceutical Products Analysis |
| | | CO-2 | Apply the various Analytical Techniques for various Drugs and Pharmaceutical Analytical Applications . |
| | | CO-3 | Summarize all the theoretical knowledge on various instrumental techniques available for analysis of various dosage and pharmaceutical forms |
| | | CO-4 | Apply the knowledge learnt in developing new procedures for analytical testing of various dosage forms. |
| | Good Regulatory Practices | CO-1 | Apply the key regulatory and compliance elements to good manufacturing practices, good laboratory practices, good automated laboratory practices and good documentation practices |
| | | CO-2 | Design and implement the check lists and SOPs required for maintaining good regulatory practices |
| | | CO-3 | Implement good quality practices and validation in healthcare and related industries |
| | Documentation and Regulatory Writing | CO-1 | Design various documents pertaining to drugs in pharmaceutical industry with special emphasis to regulatory submission strategy |
| | | CO-2 | Create and assemble the regulatory submissions as per the requirements of various agencies and to Evaluate the readiness and conduct of audits and inspections |
| | | CO-3 | Plan the follow up for the submissions and post approval document requirements |
| Clinical Research Regulations | CO-1 | Compare the history, origin and ethics of clinical and biomedical research with evaluation | |



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| Semester | Course Name | Course Outcomes | |
|----------|--|---|--|
| | | CO-2 | Analyze the clinical trials, medical device development processes and different types and phases of clinical trials |
| | | CO-3 | Prepare the regulatory requirements and guidance for conduct of clinical trials and research |
| | | CO-4 | Write the drafts of clinical trial protocols for clinical trials based on regulatory requirements |
| | Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals In India and Intellectual Property Rights | CO-1 | Categorize different acts and guidelines that regulate Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceutical industries. |
| | | CO-2 | Design regulatory submission strategy for dossier submissions based on regulatory requirements in different countries |
| | | CO-3 | Develop stability protocols for drugs & cosmetics, biologicals based on regulatory requirements |
| | | CO-4 | Plan IP and product strategy for products (drugs & cosmetics, biologicals and herbals, medical devices) based on IP and regulatory laws of different countries |
| | | CO-5 | Evaluate the applications of IPR and BABE for regulatory approval and marketing |
| | Regulatory Affairs Practical - I | CO-1 | Create the various documents pertaining to drugs and their formulations in pharmaceutical industry |
| | | CO-2 | Evaluate the practical knowledge of regulatory compilation. |
| | | CO-3 | Design the regulation submission and develop submission strategy as per the requirements of agencies. |
| CO-4 | | Organize the checklists for regulatory submissions. | |
| II | Regulatory Aspects of Food & Nutraceuticals | CO-1 | Compare the regulatory requirements for nutraceuticals |
| | | CO-2 | Integrate the standards and certifications of nutraceuticals nationally and internationally |

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| Semester | Course Name | Course Outcomes | |
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| | | CO-3 | Correlate the regulations for registration and labeling of nutraceuticals and food supplements in India, USA and Europe. |
| | Regulatory Aspects of Drugs & Cosmetics | CO-1 | Analyze the process of drug discovery and development and generic product development |
| | | CO-2 | Design the regulatory approval process and registration procedures for API and drug products in US, EU |
| | | CO-3 | Integrate the cosmetics regulations in regulated and semi-regulated countries |
| | | CO-4 | Correlate India with other global regulated markets |
| | Regulatory Aspects of Herbal and Biologicals | CO-1 | Organize the regulatory requirements for Biologics and Vaccines, newly developed biologics and biosimilars |
| | | CO-2 | Assess the knowledge of pre-clinical and clinical development considerations of biologics and herbal formulations |
| | | CO-3 | Evaluate the regulatory requirements of blood and/or its components including blood products and label requirements |
| | Regulatory Affairs Practical - II | CO-1 | Plan and identify the various documents for submission to regulatory agencies. |
| | | CO-2 | Develop the practical knowledge of eCTD. |
| | | CO-3 | Create and assemble the regulation submission to various regulatory agencies. |
| | | CO-4 | Organize audit checklist for market authorization of various agencies. |
| | | CO-5 | Track submissions and post approval document requirements. |
| | Regulatory Aspects of Medical Devices <i>Anand</i> | CO-1 | Demonstrate the basics of medical devices and IVDs, process of development, ethical and quality considerations |
| | | CO-2 | Plan harmonization initiatives for approval and marketing of medical devices and IVDs |



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| Semester | Course Name | Course Outcomes | |
|----------|--------------------------------------|-----------------|---|
| | | CO-3 | Compile regulatory approval process for medical devices and IVDs in India, US, Canada, EU, Japan and ASEAN |
| | | CO-4 | Develop regulatory submission strategy for medical devices based on regulatory requirement of different geographies |
| III | Research Methodology & Biostatistics | CO-1 | Design the concept of research methodologies |
| | | CO-2 | Compile various statistical tools in pharmaceutical research |
| | | CO-3 | Write medical research in research studies and healthcare |
| | | CO-4 | Plan the animal studies as per CPCSEA guidelines |

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M. Pharm (Pharmacology)

| Semester | Course Name | Course Outcomes | |
|----------|---|-----------------|--|
| I | Modern Pharmaceutical Analytical Techniques | CO-1 | Explain the applications of various analytical techniques like UV, IR, NMR, Mass, X-Ray Diffraction, Chromatographic and electrophoretic analysis for various Pharmaceutical Products Analysis |
| | | CO-2 | Apply the various Analytical Techniques for various Drugs and Pharmaceutical Analytical Applications . |
| | | CO-3 | Summarize all the theoretical knowledge on various instrumental techniques available for analysis of various dosage and pharmaceutical forms |
| | | CO-4 | Apply the knowledge learnt in developing new procedures for analytical testing of various dosage forms. |
| | Advanced Pharmacology I | CO-1 | Analyze the pharmacokinetic and pharmacodynamic properties of drugs and to predict potential adverse effects and drug-drug interactions. |
| | | CO-2 | Compare and contrast the pharmacological properties of drugs within the same class, as well as between different classes of drugs. |
| | | CO-3 | Assess the effectiveness of drug therapies in meeting patient needs and improving quality of life. |
| | | CO-4 | Explore options to develop new drug compounds with specific pharmacological properties, such as increased efficacy, safety, and selectivity. |
| | Pharmacological and Toxicological Screening Methods - I | CO-1 | Understand the fundamental concepts related to the laboratory animals, bioassays, and principles of screening methods for CNS, respiratory, CVS, immunomodulatory systems. |
| | | CO-2 | Interpret and explain screening methods for different systems, identify and describe the different types of laboratory animals used for drug testing. |

| Semester | Course Name | Course Outcomes | |
|----------|-------------------------------------|-----------------|--|
| | | CO-3 | Apply the knowledge to design and perform pharmacological and toxicological experiments using different animal models and bioassays. Analyze and interpret the results of these experiments. |
| | | CO-4 | Evaluate the validity and reliability of the different screening methods used in pharmacology and toxicology. Analyze the ethical issues associated with animal testing and propose alternative methods for drug evaluation. |
| | Pharmacology Practical -I | CO-1 | Apply analytical techniques such as UV spectrophotometry, HPLC, and Gas Chromatography to analyze pharmacopoeial compounds and multi-component formulations. |
| | | CO-2 | Demonstrate knowledge and skills related to handling laboratory animals, including various routes of drug administration, blood sampling techniques, and functional observation tests. |
| | | CO-3 | Evaluate the pharmacological activities of drugs through various experiments including evaluation of CNS activity, analgesic, anti-inflammatory, and diuretic activity. |
| | | CO-4 | Apply molecular biology techniques such as DNA and RNA isolation, gene amplification, and protein quantification to study drug activity and pharmacokinetics in biological samples |
| | Cellular and Molecular Pharmacology | CO-1 | Describe the structure and functions of different organelles within a cell, and explain how these organelles work together to maintain cellular homeostasis. |
| | | CO-2 | Apply knowledge of cell signaling pathways to understand how drugs can modulate and predict the effects of different drugs on cellular signaling. |
| | | CO-3 | Analyze genomic and proteomic data to identify potential targets for drug development, and evaluate the effectiveness of different drugs based on their molecular mechanisms of action. |

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| Semester | Course Name | Course Outcomes | |
|----------|--|-----------------|---|
| | | CO-4 | Design experiments using cell culture techniques to test the efficacy of different drugs and therapeutics, and propose new strategies for developing biosimilars and gene therapies |
| II | Advanced Pharmacology (723PH0C069) | CO-1 | Analyze the molecular and cellular mechanisms of action of hormones, such as growth hormone, prolactin, thyroid, insulin, and sex hormones. |
| | | CO-2 | Evaluate the advances in the management of endocrine disorders, including diabetes mellitus, adrenal insufficiency, hypothyroidism, hyperthyroidism, and the study of oral contraceptives and corticosteroids. |
| | | CO-3 | Evaluate the effectiveness and rationality of drug combinations for chemotherapy and drugs affecting calcium regulation. |
| | | CO-4 | Synthesize the approaches for preventing resistance to antimicrobial agents, advances in drugs used for protozoal infections, helminthiasis and recent advances in the treatment of cancer and diabetes mellitus. |
| | Clinical Research and Pharmacovigilance (723PH0C070) | CO-1 | Demonstrate the ability to critically evaluate the origin, principles, and applications of Clinical Practice Guidelines in clinical trials, and analyze their impact on patient care. |
| | | CO-2 | Evaluate the ethical considerations and guidelines for biomedical research and human participants. |
| | | CO-3 | Analyze and evaluate the different types and designs of clinical trials, including the roles and responsibilities of the clinical trial study team, and the guidelines for clinical trial documentation and monitoring. |
| | | CO-4 | Synthesize and evaluate the significance of pharmacovigilance in ensuring medication safety. |
| | Pharmacological and Toxicological | CO-1 | Analyze the regulatory guidelines and principles for toxicity studies, including GLP and OECD, and their application in toxicology. |

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| Semester | Course Name | Course Outcomes | | |
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| | Screening Methods-II (723PH0C071) | CO-2 | Evaluate the different types of toxicity studies, such as acute, sub-acute, chronic, reproductive, genotoxicity, carcinogenicity, and safety pharmacology studies, and their role in drug development. | |
| | | CO-3 | Synthesize the concept and significance of IND enabling studies, including the requisite studies for IND submission, and their impact on drug development. | |
| | | CO-4 | Create a critical analysis of toxicokinetics and dose-response relationship in drug toxicity, as well as alternative methods to animal toxicity testing. | |
| | Pharmacology Practical - II | CO-1 | Develop advanced proficiency in designing and conducting in vitro bioassays to evaluate the pharmacological effects of drugs and other compounds | |
| | | CO-2 | Analyze and evaluate the mechanism of action of drugs and their interactions with receptors, enzymes, and other cellular components. | |
| | | CO-3 | Apply advanced skills in conducting toxicity studies, and in evaluating the potential adverse effects of drugs and other compounds, by using in vitro, in vivo and in silico techniques. | |
| | | | CO-4 | Demonstrate expertise in designing and implementing clinical trials, including protocol design, adverse event monitoring and critically evaluate the results. |
| | Principles of Drug Discovery (723PH0C072) | CO-1 | Evaluate the drug discovery process by analyzing the different stages | |
| | | CO-2 | Analyze the role of genomics, proteomics, bioinformatics, and other technologies in target discovery and validation, and evaluate the use of transgenic animals in drug discovery. | |
| | | CO-3 | Create a synthesis of rational drug design methods by evaluating structure and pharmacophore-based approaches, virtual screening techniques, molecular docking, de novo drug design and analyze their limitations and advantages. | |
| CO-4 | | Evaluate the quantitative analysis of structure-activity relationships and its various statistical methods, as well as prodrug design and its practical | | |

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| Semester | Course Name | Course Outcomes | |
|----------|--------------------------------------|-----------------|---|
| | | | considerations, and synthesize recommendations for improving drug design processes. |
| III | Research Methodology & Biostatistics | CO-1 | Design the concept of research methodologies |
| | | CO-2 | Compile various statistical tools in pharmaceutical research |
| | | CO-3 | Write medical research in research studies and healthcare |
| | | CO-4 | Plan the animal studies as per CPCSEA guidelines |

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PROGRAM NAME: B.B.A.

Graduate Attributes

Business Acumen and Knowledge

Leadership and Management Skills

Critical Thinking and Problem Solving

Communication Skills

Ethical and Social Responsibility

Global Awareness and Cultural Competency

Teamwork and Collaboration

Entrepreneurial Mindset

PROGRAM OUTCOMES

1. Comprehension of various functional areas of business in a global context
2. Ability to apply fundamental conceptual tools in decision-making
3. Ability to evolve strategies for organizational benefits
4. Capability of analysis, appraisal, and interpretation of the qualitative and quantitative data used in Decision Making
5. Capacity to develop models/frameworks to reflect critically on specific business contexts
6. Skill for effectively communicating through both oral and written means
7. Development of entrepreneurial skills of Innovation, Ideation, and other Entrepreneurial Skills
8. An understanding of social cues and contexts in social interaction
9. Development of ethical practices and inculcating values for better corporate governance and legal compliance.

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COURSE OUTCOMES

| Semester | Course Name | Course Outcomes | |
|----------|----------------------|-----------------|--|
| I | Essentials of IT | CO-1 | Understand the power of the MS excel basic and advanced functions and its applications in various other financial subjects and also in business. |
| | | CO-2 | Analyse any kind of data source and build effective data visualizations using Power Bi. |
| | Advance Excel | CO-1 | Use of advance functions in Ms-Excel and its applications in business. |
| | | CO-2 | Demonstrate the ability to develop models/frameworks to reflect critically on specific business contexts. |
| | Financial Accounting | CO-1 | Comprehend and apply fundamental accounting principles, concepts, and standards including GAAP, Ind AS, IFRS to financial transactions. |
| | | CO-2 | Analyse and record financial data through journal entries, ledger posting, and trial balance creation, while accurately categorizing capital and revenue expenditure, gains, and losses. |
| | | CO-3 | Understand and apply the principles of depreciation, amortization, and asset impairment, including various methods of calculation and their impact on financial statements. |
| | | CO-4 | Prepare financial statements for various business entities proprietorships and companies in compliance with the Companies (Amendment) Act, 2013. |
| | | CO-5 | Analyse complex accounting scenarios such as departmental accounts, including allocation, apportionment, interdepartmental transfers, and unrealized profits in stocks, ensuring adherence to relevant accounting standards and regulations. |

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| <p><i>Approved</i></p> <p>REGISTRAR SVKM's NMIMS V L Mehta Road, Vile Parle (West), Mumbai-400 056.</p> | Indian Knowledge System | CO-1 | Demonstrate an understanding of the relevance of traditional Indian knowledge systems in modern times |
| | | CO-2 | Develop an interdisciplinary understanding of India's contribution towards science and technology |
| | | CO-3 | Develop a perspective on the evolution of Indian society and changing role of the State |
| | | CO-4 | Critically evaluate the contribution of Indian traditions of Yoga and Ayurveda towards maintaining physical and mental health |
| | | CO-5 | Develop a practitioner's understanding of traditional knowledge and practices |
| | Indian Management Thoughts | CO-1 | Understand and interpret Indian managerial tools and practices applicable in business world |
| | | CO-2 | Recognize & evaluate how Indian management practices are used around the world in different organizations |
| | | CO-3 | Appraise the problems encountered in managerial world and choose the possible solutions |
| | | CO-4 | Develop the ability to distinguish between the core differences between Indian and Western management approaches to business. |
| | Personal Finance | CO-1 | Understand various Investment and Liability avenues in the Indian Markets |
| | | CO-2 | Identify suitable investment and insurance products based on their requirements. |
| | Principles of Management | CO-1 | Understand and interpret the managerial tools and practices applicable in business world |
| | | CO-2 | Discover & evaluate how different management systems and approaches are used around the world in different organizations |
| | | CO-3 | Appraise the problems encountered in managerial world and choose the possible solutions |



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| | Quantitative Techniques-I | CO-1 | Implement the concepts discussed in Quantitative Techniques-I when making decisions in various management domains such as marketing, finance, economics, and more. |
| | | CO-2 | Develop capability to analyse and interpret data utilizing time series modelling and prediction, probability, and probability distribution upon completion of the course. |
| | | CO-3 | Able to construct fundamental models and frameworks that refer to practical situations. |
| | | CO-4 | Apply group learning principles when undertaking a statistical project using real-world data and Microsoft Excel upon completion of the course. |
| II | Cost Accounting | CO-1 | Estimate, Analyse, Comprehend and Present the dimensions of decision making. |
| | | CO-2 | Analyse various functional issues within business organisation |
| | Principles of Marketing | CO-1 | Recall, relate, and infer the marketing concepts to adapt to the business environment. |
| | | CO-2 | Develop and demonstrate marketing skills to apply and extend their Role in an organization. |
| | | CO-3 | Design and develop integrated marketing strategies for products for organizational and societal benefits |
| | Quantitative Techniques - II | CO-1 | Application of Quantitative Techniques-II concepts in decision-making in marketing, finance, economics, and other management areas. |
| | | CO-2 | Able to analyze and interpret the data using Time series modeling and prediction, probability & probability distribution. |
| | | CO-3 | Create basic models and frameworks for real-life scenarios. |
| CO-4 | | Able to utilise group learning while working On a statistical project on real-life data in ms excel. | |
| | Organizational | CO-1 | Generate innovative ideas and apply advanced skills to address |

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| Behavior and Human Resource Management | | issues and dilemmas related to human resources in an organization, synthesizing knowledge to propose creative Solutions and strategies. |
| | CO-2 | Create a comprehensive understanding of self and explore its interactions with others, fostering the ability to contribute effectively to organizational success through insightful Analysis and integration of concepts. |
| | CO-3 | Forge novel conceptual tools and methodologies for decision-making in human resources, leveraging insights gained from case study-based learning to revolutionize approaches Within the field |
| Corporate Communications | CO-1 | Communicate their ideas through effective and self-tailored Mediums including making effective presentations professionally. |
| | CO-2 | Understand different strategies to adopt while communicating with different personalities with different objectives. |
| | CO-3 | Communicate interpersonally at an organizational level and will be able to handle job opportunities successfully. |
| | CO-4 | Mindful while communicating with people from different cultures and ethnicity. |
| Environmental Management and Business Ethics | CO-1 | Make environmentally ethical decisions in the personal and Organizational context |
| | CO-2 | Illustrate knowledge and skills in the context of different sub Areas of environmental science |
| | CO-3 | Able to be a stakeholder entrepreneur and understand a business that grows sustainably and exponentially and also makes the world a better place to live. |
| | CO-4 | demonstrate ability to evolve environmentally friendly & Sustainable business strategies. |
| Banking and Insurance | CO-1 | Analyse Bank Performances. |
| | CO-2 | Comprehend the offerings by Insurance Companies |

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III



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| | | CO-3 | Identify the problems and provide solutions for Banking |
| Direct and Indirect Tax | | CO-1 | Understand & apply the basic concepts of income tax law and determine the residential status |
| | | CO-2 | Compute income under all the five heads of income under income tax law |
| | | CO-3 | Understand & apply provisions of clubbing of income, setoff and carry forward of losses, deductions from gross total income and computation of total income and tax there on for an individual assesses including computation of tax under optional tax regime |
| | | CO-4 | Understand the process of computation of GST (including composition levy) and input tax credit and determine time of supply, place of supply and the type of supply and compute GST accordingly |
| Financial Statement Analysis | | CO-1 | Help students in developing analytical and critical thinking abilities. |
| | | CO-2 | Equip students with the ability to understand, interpret and analyse Financial data and other financial information for proper decision-making. |
| Indian Economy in Global Scenario | | CO-1 | Understand and distinguish between the concepts of economic growth and economic development and understand the challenges in achieving these objectives. |
| | | CO-2 | Understand how Indian economic policies have evolved over the years and their impact on India's growth story. |
| | | CO-3 | Conscious about the difficult challenges of poverty, unemployment and inequality. |
| | | CO-4 | Understand how India's demography is a blessing and a challenge for India's economy. |
| | | CO-5 | Analyse the growth trends of different sectors of Indian economy and understand the various challenges they face. |

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| | Operations Research | CO-1 | Understand the applications of Operations Research concepts in decision-making in marketing, finance, production, and other management areas. |
| | | CO-2 | Analyse and interpret the data using Linear Programming Problems, Transportation and Assignment methods, Replacement Theory, Simulation, and Network Analysis for managerial decision-making. |
| | | CO-3 | Utilise group learning while working on a research project based on applications of Operations Research. |
| | Retail Management | CO-1 | Understand the theoretical foundations of retailing such as Retail Strategy, Merchandising Management, Category Management, Store Management, and Retail Pricing. |
| | | CO-2 | Acquire conceptual clarity of the various functional areas of retailing such as SCM, EDI, RFID, VMI, CPFR, HR issues in retailing, CRM, financial implications of retail decisions, retail promotions, etc. |
| | | CO-3 | Make sense of the evolving external environment and competitive factors to make better strategic decisions. |
| | | CO-4 | Validate contemporary issues in retailing like retail analytics, green retailing, ethical issues in retailing, new formats of retail, etc. |
| IV | Advertising and Media | CO-1 | Understand and analyse the different types of advertising and evaluate the rationale behind the medium chosen. |
| | | CO-2 | Understand how the process of Objective Setting, Budgeting, advertising research and Media planning is done for Integrated Marketing Communication (IMC). |
| | | CO-3 | Construct and design media alternatives for different marketing messages. |
| | | CO-4 | Understand the new trends and marketing strategies in the dynamic changing advertising and media environment. |
| | | CO-1 | Ability to analyse various functional issues affecting the |



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056 Business Law

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| | | | organization and thereby understanding provisions of Business, corporate and Industry related Laws. |
| | | CO-2 | Application and implementation of various laws through interpretation, case studies and problems involving issues in business and industrial laws. |
| | | CO-3 | Understand the legal system and applicable regulations related to business and thereby create awareness about applicable provisions and legal compliance. |
| | | CO-4 | Develop Ethical Practices and Imbibe Values for Better Corporate Governance. |
| | Financial Management | CO-1 | Able to apply the time value of money concept in financing decisions. |
| | | CO-2 | Able to analyse and interpret the data from financial statements related to investment and/ or financing decisions. |
| | Management Accounting | CO-1 | Apply the theoretical concepts of management accounting in business decision making. |
| | | CO-2 | Perform the necessary calculation through the relevant numerical problems of budgeting, standard costing, activity-based costing, CVP analysis and Transfer pricing. |
| | | CO-3 | Analyse the key financial as well as non-financial elements involved under various situations through budgeting, standard costing, activity-based costing, CVP analysis and Transfer pricing. |
| | | CO-4 | Evaluate the financial impact of decision making using budgeting, standard costing, activity based costing, CVP analysis and Transfer pricing. |
| | Organizational Behavior and Human Resource Management | CO-1 | Understand the factors influencing human behavior. |
| | | CO-2 | Apply theoretical frameworks to improve personal, team, and organizational effectiveness |
| | | CO-3 | Analyze and apply the strategic roles and responsibilities of HR |

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| | | | managers in an organization |
| | | CO-4 | Generate new ideas and skills to solve issues and dilemmas related to human resources in an organization |
| | Research Methodology | CO-1 | apply various concepts and tools used in research in different functional areas of business |
| | | CO-2 | able to analyse and interpret data through descriptive and inferential statistics. |
| | | CO-3 | present their findings in a clear, accurate and concise manner through research report. |
| V | Advanced Financial Management | CO-1 | Assess and interpret the appropriateness of dividend and working capital decisions taken by the company. |
| | | CO-2 | Calculate the valuation of equity using different valuation models. |
| | | CO-3 | Critically evaluate M &A deals in terms of synergy and gains. |
| | Business Analytics | CO-1 | Examine and clean the data for further processing |
| | | CO-2 | Identify correct statistical tools to apply to solve business problems |
| | | CO-3 | Learn the process of building model using historical data |
| | | CO-4 | Compare different model and choose the most appropriate model for predictions |
| | Consumer Behaviour and Services Marketing | CO-1 | Demonstrate comprehension of theoretical and conceptual concepts of Consumer Behaviour & Services Marketing |
| | | CO-2 | Apply the theoretical frameworks and conceptual principles to analyse and deduce real life marketing problems |
| | | CO-3 | Analyse and evaluate the concepts in CBSM and apply them across industries |
| | Direct & Digital Marketing | CO-1 | Recall, relate and infer the direct and digital marketing concepts for achieving marketing objectives, strategy and execution. |
| | | CO-2 | Make use of various direct and digital marketing tools for analysing |

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| | | | direct and digital marketing strategy. |
| | | CO-3 | Design and evaluate direct & digital marketing strategies relevant to various business situations. |
| Financial Markets and Institutions | | CO-1 | Understand and critically discuss the existence of Indian financial markets, institutions and intermediaries. |
| | | CO-2 | Evaluate different financial instruments and their application in real life scenarios. |
| International Business and EXIM | | CO-1 | Understand the most widely used international business terms and concepts. |
| | | CO-2 | Gain knowledge to start their own Export Import Business by the basic understanding of documentations and procedures |
| | | CO-3 | Understand the role of international business in recent scenario and the global dynamics of different countries in an ever-changing environment. |
| Investment Analysis and Portfolio Management | | CO-1 | Analyse and interpret the company data, stock and fund data using various statistical tools and finance tools. In addition, analyse the investment performance in terms of risk and return |
| | | CO-2 | Demonstrate the ability to apply various portfolio management theories and construct portfolios based on Domestic and International Investment products as well as analyse their portfolio performance using appropriate performance evaluation tools. |
| | | CO-3 | Understand the Global Investment Eco-system, construct Global Portfolios, evaluate the performance of International Portfolios, identify the Risks, and Return dynamics of International Investing. |
| | | CO-4 | Construct portfolios using various Portfolio Management Theories and evaluate their performance. |
| | | CO-5 | Gain conceptual know-how of Portfolio Management styles and Behaviour of Stakeholders |
| | | CO-6 | Comprehend the process of Financial Planning and Wealth |




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| | | | Management |
| | Sales and Distribution Management | CO-1 | Comprehend the importance of sales and distribution function in the organization |
| | | CO-2 | Learn selling skills and sales management and distribution system |
| | | CO-3 | Learn designing of the distribution channels and how to manage channel members |
| | Strategic Management | CO-1 | Understand the concept of strategy along with the strategic management process followed by organizations to achieve organizational goals. |
| | | CO-2 | Understand and assess the Internal and External Business environment affecting an organization. |
| | | CO-3 | Gain clarity regarding the various Corporate and Business Level Strategies available to organizations. |
| | | CO-4 | Analyse various Corporate and Business Level Strategies of an organization and discuss their understanding with respect to the same. |
| | Soft skills | CO-1 | Equipped with necessary soft skills required at the workplace |
| | | CO-2 | Learn how to manage self and be sensitive towards others in the dynamic world |
| | | CO-3 | Know how to maintain good impression and engage stakeholders using people skills |
| | | CO-4 | Develop good networking skills needed for social well-being and professional confidence |
| | | CO-5 | Exhibit professionalism that helps them fulfil their varied roles |
| VI | Strategic Brand Management | CO-1 | Ability to analyse various issues affecting the brand management function |

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|  <p>REGISTRAR SVKM's NMIMS V L Mehta Road, Vile Parle (West), Mumbai-400 056</p> <p><i>Arosel</i></p> | (including Luxury Brands) | CO-2 | apply, analyse and evaluate brand strategies in practical real-life marketing situations. |
| | | CO-3 | Ability to work in Groups on Brand projects and exhibit skills like Empathy, EQ, Managerial and Inter-Personnel Skills |
| | Operations & Supply Chain Management | CO-1 | Gain a complete understanding of various functions and disciplines within Operations and Supply Chain Management. |
| | | CO-2 | Analyse the impact of Operations and Supply Chain Management on global business, fostering a broad perspective on its significance. |
| | | CO-3 | Incorporate multiple Japanese techniques into day-to-day business operations. |
| | Marketing Strategy | CO-1 | Understand the importance, framework and application of marketing strategies |
| | | CO-2 | Apply their understanding to help organisations achieve their objectives under different market conditions and market challenges |
| | | CO-3 | Understand the role of innovation in a dynamic environment |
| | Marketing Analytics | CO-1 | Create data visualizations to communicate data relationships and generate data-driven insights in a way that is easy to understand. |
| | | CO-2 | Apply various analytical techniques for improving marketing decisions. |
| | | CO-3 | Implement model building process used for solving marketing problems. |
| | Customer Relationship Management and Rural Marketing | CO-1 | Apply concepts and theories related to Customer Relationship Management and Rural Marketing. |
| | | CO-2 | Analyses various types of Customer Relationship Management- Strategic, Operational and Analytical and concept and theories of Rural Marketing. |
| | | CO-3 | Assess Customer Relationship Management and Rural Marketing strategies relevant to various business situations. |

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| | | CO-4 | Formulate Customer Relationship Management and Rural Marketing strategies for various business situations. |
| Forex and Risk Management in Derivatives | | CO-1 | Understand methods to recognize and measure financial risks. |
| | | CO-2 | Apply the concepts of financial derivatives to take actions to mitigate financial risks in thereal-world scenarios. |
| Financial Planning & Wealth Management | | CO-1 | Understand various concepts of Financial Planning and wealth Management |
| | | CO-2 | Apply these concepts in developing financial plans for different categories of people based on their Risk profile, Life cycle stage and Investment psychology |
| | | CO-3 | Evaluate and recommend the investors, changes needed in their saving and investment habits and also in selection of Investment products. |
| Financial Modelling | | CO-1 | Create financial models for forecasting of financials and perform analysis |
| | | CO-2 | Create models for advanced valuation |
| | | CO-3 | Create other models to achieve different objectives |
| Equity Fund Management - Processes and Practices | | CO-1 | Able to Understand and learn Fund Management Environment and processes along with Fund Management Styles |
| | | CO-2 | Able to apply technical analysis for trading in securities and analyse historical data and back test and develop strategies to trade |
| Entrepreneurship and Business Plan | | CO-1 | Develop and analyse their business plans which would impact their professional career. |
| | | CO-2 | Understand the strategic role of business owner. |
| | | CO-3 | Understand dynamics of contemporary startups in an ever-changing environment and identify business opportunities. |

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PROGRAM NAME: B.COM.

Graduate Attributes

Accounting and Finance Skills

Management Skills

Analytical & Critical Thinking

Communication Skills

Teamwork and Collaboration

Ethical Judgment

PROGRAM LEARNING OUTCOMES

1. Ability to interpret, analyse and compute financial statements and data
2. Understanding of the rules and regulation laid down by the regulatory bodies
3. Understanding of the compliance as per various enactment
4. Acquire conceptual clarity of various functions and ability to analyse various issues in business and economy at large
5. Ability to demonstrate ability to evolve strategies for business and decision making using appropriate tools
6. Demonstrate effectively oral and written communication.
7. Demonstrate ability to work in groups. Exhibit skills like empathy, EQ, managerial and inter-personnel skills

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8. An understanding of social cues and contexts in social interaction

Development of ethical practices and inculcating values for better corporate governance

Understanding of sustainability related concerns in varied areas

Understand the business ecosystem in the country and at the global level

Demonstrate the ability to create business plans

COURSE OUTCOMES

| Semester | Course Name | Course Outcomes | |
|----------|-------------------------|-----------------|---|
| I | Corporate Communication | CO 1 | Students will be able to communicate their ideas through effective and self-tailored mediums including making effective presentations professionally. |
| | | CO 2 | Students will understand different strategies to adopt while communicating with different personalities with different objectives. |
| | | CO 3 | Students will have the ability to communicate interpersonally at an organizational level and will be able to handle job opportunities successfully. |
| | | CO 4 | Students will be mindful while communicating with people from different cultures and ethnicity. |
| | Cost Accounting - I | CO 1 | After completion of course students would be able to analyse & comprehend the dimensions of decision making. |
| | | CO 2 | Students will be able to analyse various functional issues within business organization. |
| | E-commerce | CO 1 | After completion of the course, students would be able to understand various concepts e-commerce. |
| | | CO 2 | After completion of the course, students would be able to apply various concepts of e- |

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| | | commerce. |
| | CO 3 | After completion of the course, students would be able to analyse business models |
| | CO 4 | After completion of the course, students would be able to evaluate E-CRM, SCM and strategies. |
| | CO 5 | After completion of the course, students would be able to elaborate e-marketing strategies. |
| Financial Accounting - I | CO 1 | Understanding basics of accounts: GAAP meaning, capital revenue expenditure, Debit credit rules, drafting journal entries. |
| | CO 2 | Demonstrating the ability to read and draft financial statements of Sole Proprietor, Partnership Firms and Departmental Accounting of the organisation. |
| | CO 3 | Developing skills like leadership, active listening, conflict management, problem-solving, decision-making, and responsibility through group project work |
| Indian Management Thoughts | CO 1 | The students will understand and interpret Indian managerial tools and practices applicable in business world |
| | CO 2 | The student will discover & evaluate how Indian management practices are used around the world in different organizations |
| | CO 3 | The students will be able to appraise the problems encountered in managerial world and choose the possible solutions |
| | CO 4 | Develop the ability to distinguish between the core differences between Indian and Western management approaches to business. |
| Principles of Management | CO 1 | The students will understand and interpret the managerial tools and practices applicable in business world. |
| | CO 2 | The student will discover & evaluate how different management systems and approaches are used around the world in different organizations. |
| | CO 3 | The students will be able to appraise the problems encountered in managerial world and choose the possible solutions. |
| Principles of Marketing | CO 1 | Acquiring conceptual clarity of marketing as a function. |
| | CO 2 | Ability to analyse the importance and impact of the marketing function in an organisation. |

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| | | CO 3 | Demonstrating the ability to evolve marketing strategies for organisational benefits |
| | Soft skills | CO 1 | Students will be equipped with necessary soft skills required at the workplace. |
| | | CO 2 | Students will learn how to manage self and be sensitive towards others in the dynamic world. |
| | | CO 3 | Students will know how to maintain good impression and engage stakeholders using people skills. |
| | | CO 4 | Students will develop good networking skills needed for social well-being and professional confidence. |
| | | CO 5 | Students will exhibit professionalism that helps them fulfil their varied roles |
| II | | Financial Accounting - II | CO 1 |
| | CO 2 | | Understanding and preparing books of accounts for Hire Purchase Transactions and Investment Transactions. |
| | CO 3 | | Developing skills like leadership, active listening, conflict management, problem-solving, decision-making, and responsibility through group project work. |
| | Management Accounting | CO 1 | After completion of course students would be able to analyse & comprehend the dimensions of decision making to make suggestions thereon. |
| | | CO 2 | Students will be able to prepare budgets and with the help of standard costing they will be able to control the business activities. |
| | Quantitative Techniques | CO 1 | After completing the course, learners should understand the application of Quantitative Techniques concepts in decision-making in marketing, finance, economics, and other management areas. |
| | | CO 2 | After completing the course, learners should be able to analyse and interpret the data using Break-Even Point, Descriptive Statistics, Correlation & Regression, probability & probability distribution etc. |
| | | CO 3 | After completing the course, learners should be able to create basic models and frameworks for real-life scenarios. |

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| | CO 4 | After completing the course, learners should be able to utilize group learning while working on a Statistical Project on real-life data in MS Excel. |
| Digital Marketing | CO 1 | Learners will gain an understanding of digital marketing for achieving marketing objectives, strategy and execution. |
| | CO 2 | Learners will gain an overview of various digital marketing tools for implementing digital strategy. |
| Essentials of IT | CO 1 | Students will be well versed with various computer fundamentals after undergoing this curriculum and understand the power of the MS excel basic and advanced functions and its applications in various other financial subjects and also in business. |
| | CO 2 | Students can analyse any kind of data source and build effective data visualizations using Power Bi. |
| Indian Knowledge System | CO 1 | Demonstrate an understanding of the relevance of traditional Indian knowledge systems in modern times. |
| | CO 2 | Develop an interdisciplinary understanding of India's contribution towards science and technology |
| | CO 3 | Critically evaluate the contribution of Indian traditions of Yoga and Ayurveda towards maintaining physical and mental health |
| | CO 4 | Develop a practitioner's understanding of traditional knowledge and practices. |
| Environmental Management and Business Ethics | CO 1 | Students would learn to make environmentally ethical decisions in the personal & organizational context |
| | CO 2 | Students would be able to illustrate knowledge and skills in the context of different sub areas of environmental science |
| | CO 3 | Students would be able to be a stakeholder entrepreneur and understand a business that grows sustainably & exponentially and also makes the world a better place to live. |
| | CO 4 | Students should be able to demonstrate ability to evolve environmentally friendly & Sustainable business strategies. |



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| III | Business Law | CO 1 | Students will be able to understand the legal system prevailing into practice. |
| | | CO 2 | Students will be able to develop an understanding of the basic law related to business. |
| | | CO 3 | Students will be able to develop an understanding about legal formality related to business. |
| | Consumer Behaviour and Services Marketing | CO 1 | Students will be able to demonstrate comprehension of theoretical and conceptual concepts of Consumer Behaviour & Services Marketing. |
| | | CO 2 | Students will be able to apply the theoretical frameworks and conceptual principles to analyse and deduce real life marketing problems. |
| | | CO 3 | Students will be able to analyse and evaluate the concepts in CBSM and apply them across industries. |
| | Corporate Finance -I | CO 1 | Assess the impact of time value of money in financial management. |
| | | CO 2 | Critically evaluate the financing decisions of a company. |
| | | CO 3 | Critically evaluate the fixed asset investment decisions of a company. |
| | Direct Taxes | CO 1 | Understand & apply the basic concepts of income tax law and determine the residential status of an individual. |
| | | CO 2 | Compute income under all the five heads of income under income tax law for individual. |
| | | CO 3 | Understand & apply provisions of clubbing of income, setoff and carry forward of losses, deductions from gross total income and computation of total income & tax there on for an individual including computation of tax under optional tax regime. |
| | | CO 4 | Have working knowledge of various income tax provisions so as to choose between two tax regimes based on taxability. |
| | Financial Accounting – III | CO 1 | Students will develop in depth knowledge on Corporate Financial Accounting. |
| | | CO 2 | Students will be able to constructively analyse annual report of a company. |
| | Management Accounting | CO 1 | Students will be able to Apply the theoretical concepts of management accounting. |
| | | CO 2 | Students will be able to Perform the necessary calculations through the relevant numerical problems of budgeting, standard costing, activity-based costing, CVP analysis, and Transfer pricing. |

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| IV | | CO 3 | Students will be able to decide the key financial and non-financial elements involved in various situations through an analysis of budgeting, standard costing, activity-based costing, CVP Analysis, and Transfer pricing. |
| | | CO 4 | Students will be able to Evaluate the financial impact on decision-making using budgeting, standard costing, activity-based costing, CVP analysis, and Transfer pricing. |
| | Banking and Insurance | CO 1 | Analyse Bank Performances. |
| | | CO 2 | Comprehend the offerings by Insurance Companies |
| | | CO 3 | Identify the problems and provide solutions for Banking |
| | Corporate Finance- II | CO 1 | Students should be able to assess and interpret the appropriateness of dividend and working capital decisions taken by the company. |
| | | CO 2 | Students should be able to calculate the valuation of equity using different valuation models. |
| | Financial Accounting - IV | CO 1 | Students should be able to apply Indian Accounting Standards in reporting of reconstruction and consolidation of companies and foreign exchange rate fluctuations. |
| | Financial Statement Analysis | CO 1 | Help students in developing analytical and critical thinking abilities. |
| | | CO 2 | Equip students with the ability to understand, interpret and analyse Financial data and other financial information for proper decision-making. |
| | Indian Economy in Global Scenario | CO 1 | Understand and distinguish between the concepts of economic growth and economic development and understand the challenges in achieving these objectives. |
| | | CO 2 | Understand how Indian economic policies have evolved over the years and their impact on India's growth story. |
| | | CO 3 | Conscious about the difficult challenges of poverty, unemployment and inequality. |
| | | CO 4 | Understand how India's demography is a blessing and a challenge for India's economy. |
| | | CO 5 | Analyse the growth trends of different sectors of Indian economy and understand the various challenges they face. |
| | Indirect Taxes | CO 1 | Students will be able to demonstrate technical abilities in the areas of relevant |

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| | | | sections and chapters of the indirect tax laws. |
| | | CO 2 | Students will be able to compute various application-based aspects of the GST Act and Customs Act. |
| V | Environmental Management & Corporate Social Responsibility | CO 1 | This course will equip student with right tools to identify the ethical dilemmas and understanding of tools to enable ethical decision making. |
| | | CO 2 | This course will make students aware of psychological biases that prevent ethical conduct in business and various situations. |
| | | CO 3 | This course gives an opportunity to learn about global trends that influence our environment and the living conditions and how different management systems and approaches that are used around the world to manage the environment. |
| | | CO 4 | It explores the idea of how to become a stakeholder entrepreneur and create a business that grows sustainably & exponentially and also makes the world a better place to live. |
| | | CO 5 | Students should be able to demonstrate ability to evolve Environmentally friendly & Sustainable business strategies. |
| | Financial Markets & Institutions | CO 1 | Understand and critically discuss the existence of Indian financial markets, institutions and intermediaries. |
| | | CO 2 | Evaluate different financial instruments and their application in real life scenarios. |
| | Financial Reporting Standards and Audit – I | CO 1 | Interpret the provisions of Indian Accounting Standards for better understanding of Financial Statements. |
| | | CO 2 | Analyze and apply the provisions of Indian Accounting Standards to evaluate various elements of Financial Statements for value-added Financial Reporting. |
| | | CO 3 | Analyze and apply the provisions of enactments and Standards on Audit of Financial Statements of Companies for the purpose of true & fair Financial Reporting to the stakeholders. |
| | Investment Analysis, Portfolio Management and Wealth Management | CO 1 | Students should be able to analyse and interpret the company data, stock and fund data using various statistical tools and finance tools. They should be able to analyse the investment performance in terms of risk and return. |
| | | CO 2 | Students should be able to demonstrate the ability to apply various portfolio management theories and construct portfolios based on Domestic and International |

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| | | | Investment products. They should be able to analyse their portfolio performance using appropriate performance evaluation tools |
| | | CO 3 | Students should be able to understand the Global Investment Eco-system, construct Global Portfolios, evaluate the performance of International Portfolios, identify the Risks, and Return dynamics of International Investing. |
| | | CO 4 | Students will be able to analyse financial plans and wealth management. |
| | Research Methodology | CO 1 | Students would be able to use a wide range of concepts and instruments that are employed in diverse disciplines of research studies. |
| | | CO 2 | Learners would be able to analyse and interpret data through descriptive and inferential statistics. |
| | | CO 3 | Learners would be able to present their findings in a clear, accurate and concise manner through research report. |
| | Soft skills | CO 1 | Equipped with necessary soft skills required at the workplace |
| | | CO 2 | Learn how to manage self and be sensitive towards others in the dynamic world |
| | | CO 3 | Know how to maintain good impression and engage stakeholders using people skills |
| | | CO 4 | Develop good networking skills needed for social well-being and professional confidence |
| | | CO 5 | Exhibit professionalism that helps them fulfil their varied roles |
| | Strategic Management | CO 1 | Understand the concept of strategy along with the strategic management process followed by organizations to achieve organizational goals. |
| | | CO 2 | Understand and assess the Internal and External Business environment affecting an organization. |
| | | CO 3 | Gain clarity regarding the various Corporate and Business Level Strategies available to organizations. |
| | | CO 4 | Analyse various Corporate and Business Level Strategies of an organization and discuss their understanding with respect to the same. |
| VI | Corporate & Information | CO 1 | Students will acquire the ability to analyze various functional issues affecting the organization and thereby understanding provisions of Business, corporate and |

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| Technology Law | | Industry related Laws. |
| | CO 2 | Application and implementation of various laws through interpretation, case studies and problems involving issues in business and industrial laws. |
| | CO 3 | Understanding the legal system and applicable regulations related to business and thereby create awareness about applicable provisions and legal compliance. |
| | CO 4 | Understand the legal recognition of transactions done through electronic way or use of internet, including the protection against cybercrimes and protection of privacy of internet users. |
| Entrepreneurship | CO 1 | Learners will be equipped with skills to analyze their business plans which would impact their professional career. |
| | CO 2 | Giving insights to learners on how preparation and initial scrutiny is an important dimension for a successful business owner. |
| | CO 3 | The learner will understand the strategic role of business owner. |
| | CO 4 | Students will understand dynamics of contemporary startups in an ever-changing environment |
| Ethics & Governance | CO 1 | The student will be able to relate the current business environment and happenings to the streams of ethical theories. |
| | CO 2 | The students will be able to inventory and investigate sustainability related issues. |
| | CO 3 | The students will be able to judge the impact of ethical challenges with respect to stakeholders. |
| Financial Modelling | CO 1 | Students will be able to create financial models for forecasting of financials and perform analysis. |
| | CO 2 | Students will be able to create models for valuation and other objectives |
| Financial Reporting Standards and Audit – II | CO 1 | Students shall acquire the knowledge of Indian Accounting Standards as a language of Financial Reporting. They shall comprehend the principles to further recognize and measure the elements of Financial Statements and apply the same for value-added Financial Reporting. |
| | CO 2 | Students shall be able to apply the knowledge of effective Audit of Financial Statements as per the enactments for the Company and various other Entities for the purpose of Reporting to the stakeholders |

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| Operations Management | CO 1 | A complete understanding about various functions and discipline of Operations Management and Incorporating various Japanese techniques in day to day working to show conceptual clarity of the business function. |
| | CO 2 | Understanding of Operations Research and its application to develop strategies for business. |

PROGRAM NAME: B.SC. FINANCE

Graduate Attributes

Analytical skills

Technical proficiency

Financial knowledge

Ethical awareness

Communication skills

Problem-solving ability

Teamwork and collaboration

Global perspective

Adaptability

Research skills

PROGRAM OUTCOMES:

1. Ability to acquire conceptual clarity of various functional areas of a business.
2. Ability to analyze various functional issues affecting the organization.
3. An ability to evolve strategies for organizational benefits.
4. Capability of analysis and interpretation of the data which is used in decision-
5. making.
6. Capability to develop models / frameworks to reflect critically on specific business contexts.
7. Skill for effectively communicating through both oral and written means.



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8. Skill for working in Groups while exhibiting skills like empathy, EQ, managerial and interpersonal skills.
9. Development of social sensitivity among students.
10. Development of ethical practices and inculcating values for better corporate governance.
11. Development of a sense of responsible corporate citizenship and accepting non-profit initiatives.
12. Capability to gain insight into the global environment and its impact on business.
13. Capability to gain in-depth knowledge of the finance domain and various financial products.

COURSE OUTCOMES

| Semester | Course Name | Course Outcomes | |
|-------------------|----------------------------------|-----------------|--|
| SEMESTER I | | | |
| I | Soft Skills | CO-1 | Demonstrate effective oral and written communication. |
| | | CO-2 | Demonstrate Ability to work in Groups. Exhibit skills like empathy, EQ, Managerial and inter-personnel Skills. |
| | | CO-3 | Demonstrate understanding of social cues and contexts in social interaction. |
| | | CO-4 | Develop Ethical Practices and Imbibe Values for Better Corporate Governance. |
| | | Co-5 | Exhibit professionalism that helps them fulfil their varied roles. |
| | Corporate Communications | CO-1 | Develop an understanding of the complexity and challenges involved in the communication process. |
| | | CO-2 | Enhance listening, speaking, reading and writing skills among the students. |
| | | CO-3 | Demonstrate effective oral and written communication while providing an insightful understanding of the global business environment. |
| | | CO-4 | Demonstrate ability to work in groups by exhibiting empathy, EQ, managerial and interpersonal skills. |
| | Financial Markets & Institutions | CO-1 | Understand and critically discuss the existence of Indian financial markets, institutions and intermediaries. |
| | | CO-2 | Evaluate different financial instruments and their application in real-life scenarios. |
| | Indian Knowledge System | CO-1 | Demonstrate an understanding of the relevance of traditional Indian knowledge systems in modern times. |
| | | CO-2 | Develop an interdisciplinary understanding of India's contribution towards science and technology. |
| | | CO-3 | Develop a perspective on the evolution of Indian society and the changing role of the State. |
| | | CO-4 | Critically evaluate the contribution of Indian traditions of Yoga and Ayurveda towards maintaining physical and mental health. |
| | | CO-5 | Develop a practitioner's understanding of traditional knowledge and practices. |
| | Indian Management | CO-1 | Understand and interpret Indian managerial tools and practices applicable in the business. |



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| Thoughts | | world. |
| | CO-2 | Recognize & evaluate how Indian management practices are used around the world in different organizations. |
| | CO-3 | Appraise the problems encountered in the managerial world and choose the possible solutions. |
| | CO-4 | Develop the ability to distinguish between the core differences between Indian and Western management approaches to business. |
| Business Accounting and Analysis | CO-1 | Understanding basics of accounts: GAAP meaning, capital revenue expenditure, Debit credit rules, drafting journal entries. |
| | CO-2 | Demonstrating the ability to read and draft financial statements of Sole Proprietor and Joint stock companies. |
| | CO-3 | Analyse and interpret financial statements by applying analytical tools such as Comparative, common size and trend. |
| Quantitative Techniques-I | CO-1 | Implement the concepts discussed in Quantitative Techniques-I when making decisions in various management domains such as marketing, finance, economics, and more. |
| | CO-2 | Develop the capability to analyze and interpret data utilizing time series modelling and prediction, probability, and probability distribution upon completion of the course. |
| | CO-3 | Able to construct fundamental models and frameworks that refer to practical situations. |
| | CO-4 | Applying group learning principles when undertaking a statistical project using real-world data and Microsoft Excel upon completion of the course. |

SEMESTER II

| | | | |
|----|------------------------------|------|--|
| II | Corporate Finance - I | CO-1 | Analyse and evaluate the various proposals in business using capital budgeting techniques to select the best proposal. |
| | | CO-2 | Understand how to manage working capital in the business. |
| | | CO-3 | Apply the tools for decision-making. |
| II | Financial Statement Analysis | CO-1 | Develop analytical and critical thinking abilities. |
| | | CO-2 | Understand, interpret and analyze financial data and other financial information for proper decision-making. |
| | | CO-3 | Understand various tools for financial statement analysis. |
| II | Quantitative Techniques - II | CO-1 | Understand the application of Quantitative Techniques-II concepts in decision-making in marketing, finance, economics, and other management areas. |



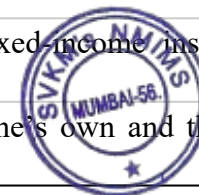
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| | CO-2 | Able to analyze and interpret the data using time series modelling and prediction, probability & probability distribution |
| | CO-3 | Able to create basic models and frameworks for real-life scenarios. |
| | CO-4 | Able to utilize group learning while working on a Statistical Project on real-life data in MS Excel. |
| Principles of Management | CO-1 | Understand and interpret the managerial tools and practices applicable in the business world. |
| | CO-2 | Discover & evaluate how different management systems and approaches are used around the world in different organizations. |
| | CO-3 | Appraise the problems encountered in the managerial world and choose the possible solutions. |
| Essentials of IT | CO-1 | Understand the power of the MS excel basic and advanced functions and its applications in various other financial subjects and also in business. |
| | CO-2 | Analyze any kind of data source and build effective data visualizations using Power BI. |
| Advanced Excel | CO-1 | Use of advanced functions in Ms-Excel and its applications in business. |
| | CO-2 | Demonstrate the ability to develop models/frameworks to reflect critically on specific business contexts. |
| Environmental Management and Business Ethics | CO-1 | An ability to learn to make environmentally ethical decisions in the personal & organizational context |
| | CO-2 | Ability to illustrate knowledge and skills in the context of different sub-areas of environmental science |
| | CO-3 | An ability to be a stakeholder entrepreneur and understand a business that grows sustainably & exponentially and also makes the world a better place to live. |
| | CO-4 | An ability to demonstrate the ability to evolve environmentally friendly & Sustainable business strategies. |

SEMESTER III

| | | | |
|-----|---|------|---|
| III | Debt Markets | CO-1 | Able to get conversant with various aspects of debt markets. |
| | | CO-2 | Able to analyze various debt market instruments. |
| | | CO-3 | Get practical exposure to various fixed-income derivatives, fixed-income instruments, risk management and fixed-income portfolio management. |
| | Organizational Behaviour and Human Resource | CO-1 | Analyse and interpret the knowledge gained from insights of one's own and that of others personality for personal and professional development. |



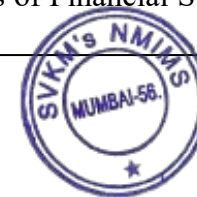
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| Management | CO-2 | Evaluate the dimensions of human capital leading to organizational effectiveness. |
| | CO-3 | Able to infer the strategic role of Human Resource functions in developing organizational agility. |
| Financial Statement Analysis and Business Valuation | CO-1 | Help students in developing analytical and critical thinking abilities. |
| | CO-2 | Equip students with the ability to understand, interpret and analyze Financial data and other financial information for proper decision-making. |
| Corporate Finance | CO-1 | Understand various financing sources and cost calculation of individual components, and the cost of capital as a whole for corporations. |
| | CO-2 | Understand basic concepts related to financing and dividend decisions. |
| | CO-3 | Analyze the capital structure of companies by using various tools and techniques. |
| | CO-4 | Interpret and implement various theories in making corporate financial decisions in the areas of dividends, Leverage and Merger & Acquisition. |
| Operations Research | CO-1 | Understand the applications of OR concepts in decision-making in marketing, finance, production, and other management areas. |
| | CO-2 | Analyse and interpret the data using Linear Programming Problems, Transportation and Assignment methods, Replacement Theory, Simulation, and Network Analysis for managerial decision-making. |
| | CO-3 | Utilise group learning while working on a research project based on applications of OR. |
| Business Policy and Strategic Management | CO-1 | Understand the concept of strategy along with the strategic management process followed by organizations to achieve organizational goals. |
| | CO-2 | Understand and assess the Internal and External Business environment affecting an organization. |
| | CO-3 | Gain clarity regarding the various Corporate and Business Level Strategies available to organizations. |
| | CO-4 | Analyse various Corporate and Business Level Strategies of an organization and discuss their understanding with respect to the same. |

SEMESTER IV

| | | | |
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| IV | Financial Reporting Standards and Analysis | CO-1 | Acquire the knowledge of Indian Accounting Standards as a language of Financial Reporting. |
| | | CO-2 | Comprehend the principles to recognize and measure the elements of Financial Statements and apply the same for value-added Financial Reporting. |



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| | | CO-3 | Able to gain the knowledge of effective Audit of Financial Statements as per the enactments. |
| Research Methodology | | CO-1 | Able to apply various concepts and tools used in research in different fields. |
| | | CO-2 | Able to analyze and interpret data through descriptive and inferential statistics. |
| | | CO-3 | Able to present their findings in a clear, accurate and concise manner through research reports. |
| | | | |
| Indian Economy in Global Scenario | | CO-1 | Understand and distinguish between the concepts of economic growth and economic development and understand the challenges in achieving these objectives. |
| | | CO-2 | Understand how Indian economic policies have evolved over the years and their impact on India's growth story. |
| | | CO-3 | Awareness about the difficult challenges of poverty, unemployment and inequality. |
| | | CO-4 | Understand how India's demography is a blessing and a challenge for India's economy. |
| | | CO-5 | Analyze the growth trends of different sectors of the Indian economy and understand the various challenges they face. |
| Financial Modelling | | CO-1 | Create financial models for forecasting financials and perform analysis. |
| | | CO-2 | Create models for advanced valuation. |
| | | CO-3 | Create other models to achieve different objectives. |
| Banking and Insurance | | CO-1 | Analyse Bank Performances. |
| | | CO-2 | Comprehend the offerings by Insurance Companies. |
| | | CO-3 | Identify the problems and provide solutions for Banking. |
| Alternative Investment Markets | | CO-1 | Explain the various avenues of alternative investments, their risks, and rewards associated with them globally as well as in the Indian context. |
| | | CO-2 | Appraise the value of various alternative instruments, such as Real estate, Hedge Funds, Private Equity, and Commodities, etc., by using various tools & techniques. |
| | | CO-3 | Analyze the various trading strategies and regulatory framework of Alternative Investments. |

SEMESTER V

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| V | Derivatives and Risk Management | CO-1 | Understanding of methods to recognize and measure financial risks. |
| | | CO-2 | Apply the concepts learned to be able to take actions to mitigate financial risks. |
| | | CO-3 | Understand the use of financial derivatives in mitigating financial risks. |
| | | CO-4 | Develop models and strategies to measure and mitigate financial risks. |
| | International Finance | CO-1 | Evaluate the Global Financial Environment and the International Monetary System. |

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| | | CO-2 | Analyze the Foreign Exchange Markets and learn about theories governing them. |
| | | CO-3 | Evaluate the Foreign Exchange exposures of a firm. |
| | | CO-4 | Build financing options for a global firm. |
| | | CO-5 | Critically apprise the types of foreign exchange Risks and their management. |
| | Business Analytics | CO-1 | Examine and clean the data for further processing. |
| | | CO-2 | Identify correct statistical tools to apply to solve business problems. |
| | | CO-3 | Learn the process of building a model using historical data. |
| | | CO-4 | Compare different models and choose the most appropriate model for predictions. |
| | Investment Analysis and Portfolio Management | CO-1 | Analyse and interpret the company data, stock and fund data using various statistical tools and finance tools. They should be able to analyze the investment Performance in terms of risk and return. |
| | | CO-2 | Demonstrate the ability to apply various portfolio management theories and construct portfolios based on Domestic and International Investment products, as well as analyze their portfolio performance using appropriate performance evaluation tools. |
| | | CO-3 | Understand the Global Investment Eco-system, construct Global Portfolios, evaluate the performance of International Portfolios, and identify the Risks and Return dynamics of International Investing. |
| | | CO-4 | Ability to analyse financial plans and wealth management. |
| | Soft Skills | CO-1 | Demonstrate effective oral and written communication. |
| | | CO-2 | Demonstrate Ability to work in Groups. Exhibit skills like empathy, EQ, Managerial and inter-personnel Skills. |
| | | CO-3 | Demonstrate understanding of social cues and contexts in social interaction. |
| | | CO-4 | Develop Ethical Practices and Imbibe Values for Better Corporate Governance. |
| | Corporate and Business Law | CO-1 | Acquire the ability to analyze various functional issues affecting the organization and thereby understand provisions of Business, corporate, and industry-related Laws. |
| | | CO-2 | Able to apply and implement various laws through interpretation, case studies and problems involving issues in business and industrial laws. |
| | | CO-3 | Understanding the legal system and applicable regulations related to business and thereby creating awareness about applicable provisions and legal compliance. Also, understand the legal recognition of transactions done through electronic way or the use of the internet, including the protection against cybercrimes and protection of privacy of internet users. |

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| | | CO-4 | Develop Ethical Practices and Imbibe Values for Better Corporate Governance. |
| | Environmental Management and Corporate Governance | CO-1 | Equipped with the right tools to identify the ethical dilemmas and understanding of tools to enable ethical decision-making. |
| | | CO-2 | Awareness of psychological biases that prevent ethical conduct in business and various situations. |
| | | CO-3 | Learn about global trends that influence our environment and living conditions and how different management systems and approaches are used around the world to manage the environment. |
| | | CO-4 | Explore the idea of how to become a stakeholder entrepreneur and create a business that grows sustainably & exponentially and also makes the world a better place to live. |
| | | CO-5 | Able to demonstrate the ability to evolve Environmentally friendly & Sustainable business strategies. |

SEMESTER VI

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| VI | Technical Analysis | CO-1 | Able to understand the underlying process and computation of the technical analysis techniques, apply them for trades on securities and back-test and develop strategies to trade. |
| | Marketing of Financial Services | CO-1 | Able to develop a holistic understanding of the application of marketing in the context of financial services. |
| | | CO-2 | Able to develop communication and critical thinking skills required to address various marketing and selling problems in the financial services industry. |
| | Financial Reporting Standards and Analysis - II | CO-1 | Hypothesize from various stakeholders' perspectives the importance of Ind AS and IFRS on General Purpose Financial Statements and Specific Financial and Analytical Reporting. |
| | | CO-2 | Integrate the impact of Ind AS and IFRS on various Financial Statements and analyze the financial statements with respect to the same. |
| | | CO-3 | Develop an understanding of the International Financial Reporting Standards (IFRS) on various general-purpose financial statements and special-purpose financial reporting, especially from the perspective and angle of various stakeholders. |
| | | CO-4 | Demonstrate the influence and effect of IFRS/Ind AS on various Financial statements and Reports and also learn how to analyze the same from the Investor's point of view. |
| | Financial Planning & Wealth Management | CO-1 | Understand various concepts of Financial Planning and wealth Management. |
| | | CO-2 | Apply these concepts in developing Financial plans for different categories of people based on their Risk profile, Life cycle stage and Investment psychology. |



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| | | CO-3 | Evaluate and recommend the investors changes needed in their saving and investment habits and also in the selection of Investment products. |
| | Direct and Indirect Tax | CO-1 | Understand & apply the basic concepts of income tax law and determine the residential status. |
| | | CO-2 | Compute income under all the five heads of income under income tax law. |
| | | CO-3 | Understand & apply provisions of clubbing of income, setoff and carry forward of losses, deductions from gross total income and computation of total income and tax thereon for an individual assesses, including computation of tax under optional tax regime. |
| | | CO-4 | Understand the process of computation of GST (including composition levy) and input tax credit and determine the time of supply, place of supply and type of supply and compute GST accordingly. |
| | Applied Econometrics | CO-1 | Understanding key statistical concepts used in quantitative modelling of business data analysis. |
| | | CO-2 | Understanding multiple regression concepts and techniques for cross-section and time series data. |
| | | CO-3 | Interpreting and analyzing regression results for business decision problems. |
| | | CO-4 | Understanding model selection criteria. |

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Program Name: M.Sc. Finance

Graduate Attributes

Financial Knowledge

Problem Analysis in Global Finance

Design/Development of Financial Strategies

Conduct Investigations of Complex Financial Problems

Global Economic and Financial Awareness

Ethical and Responsible Financial Leadership

Communication and Collaboration

Lifelong Learning and Adaptability

Program Outcomes:

1. Acquiring skill and clarity for the application for various concepts in the domain of finance to global business functions including global financial services
2. Attaining understanding of the working of global financial markets
3. Developing insights to the various product alternatives for stakeholders in global financial markets

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4. Sharpening of skills in analyzing and interpreting financial data from various sources as inputs for decision making in global financial market situations
5. Ability to apply statistical and econometric techniques in predictive modeling in global financial markets
6. Acquiring proficiency in data analytics as applied to the global financial markets
7. Cultivating ability to synthesize various analytical dimensions towards charting strategic plan of action in the domain of global financial services
8. Ability to communicate effectively (both written and oral communication) in logical and organized manner
9. Becoming adept in synergizing various concepts in finance to evolve portfolio construction and investment strategy
10. Becoming capable of identifying ethical issues in a given problem and discussing implications and consequences in decision making
11. Gaining understanding of legal implications in corporate governance

Course Outcomes

| Semester | Course Name | Course Outcomes | |
|----------|-----------------------|-----------------|---|
| I | Banking and Insurance | CO-1 | Analyze Bank Performances. |
| | | CO-2 | Comprehend the offerings by Insurance Companies |

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| | <i>Econometrics</i> | | |
| | <i>Taxation and Tax Planning</i> | <i>CO-1</i> | <i>Understand & apply the basic concepts of income tax law and determine the residential status</i> |
| | | <i>CO-2</i> | <i>Compute income under all the five heads of income under income tax law</i> |
| | | <i>CO-3</i> | <i>Understand & apply provisions of clubbing of income, setoff and carry forward of losses, deductions from gross total income and computation of total income and tax there on for an individual assessee including computation of tax under optional tax regime</i> |

| <i>Semester</i> | <i>Course Name</i> | <i>Course Outcomes</i> | |
|-----------------|---------------------------|------------------------|---|
| <i>III</i> | <i>Behavioral Finance</i> | <i>CO-1</i> | <i>Learn how behavioural biases, beliefs and preferences interfere rational decision-making process</i> |
| | | <i>CO-2</i> | <i>Learn why and how individual choices under uncertainty are at odds with rational decision-making framework.</i> |
| | | <i>CO-3</i> | <i>Understand systematic risk and systematic error-based explanations to persistent anomalies in cross section of equity/asset prices.</i> |
| | | <i>CO-4</i> | <i>Develop a process to make financial decisions by minimizing the adverse impact caused by irrational behaviour</i> |
| | <i>Corporate Finance</i> | <i>CO-1</i> | <i>Acquire clarity about the application of various concepts in the domain of finance</i> |
| | | <i>CO-2</i> | <i>Build proficiency in data analysis and interpretation as applied in corporate finance situations & to cultivate ability to synthesize various analytical dimensions towards charting strategic plan of action in the domain of corporate finance</i> |

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| | CO-3 | <i>Demonstrate the ability to communicate effectively in logical and organized manner</i> |
| <i>Derivatives and Risk Management</i> | CO-1 | <i>Develop insights to the various product alternatives for stakeholders in global financial markets To develop skills in applying the concepts of the derivative contracts to the financial risk management situations</i> |
| | CO-2 | <i>Analyze and interpret financial data from various sources as inputs for decision making in global financial market situations</i> |
| | CO-3 | <i>Identify ethical issues in a given problem and discuss implications and consequences in decision making</i> |
| <i>Financial Planning & Wealth Management</i> | CO-1 | <i>Identify opportunities and challenges related to a client's cash inflows and outflows and make recommendations to assist the client in meeting their current needs and long-term financial goals.</i> |
| | CO-2 | <i>Apply various economic concepts and measures in making financial planning recommendations</i> |
| | CO-3 | <i>Evaluate how a client's values and attitudes will affect his/her goals and a planner's recommendations</i> |
| | CO-4 | <i>Describe how behavioral psychology impacts a client's objectives, goals, understanding, decision making, and actions</i> |
| <i>Investment Analysis and Portfolio Management</i> | CO-1 | <i>Students should be able to compute the fundamental concepts of risk and returns using statistical tools and finance tools.</i> |
| | CO-2 | <i>Students should be able to compute, evaluate and analyse mutual fund performance</i> |
| | CO-3 | <i>Students should be able to demonstrate the ability to construct portfolios based on domestic and global Investment products. They should be able to analyse their portfolio performance using appropriate performance evaluation tools</i> |
| | CO-4 | <i>Students should be able to apply various portfolio management theories</i> |

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| | | CO-5 | <i>Student should be able to review Global Investment Ecosystem, identify the Risks, and Return dynamics of International Investing.</i> |
| | <i>Mergers & Acquisition (M&A)</i> | CO-1 | <i>The student should be able to build a dynamic financial model pertaining to a M&A deal</i> |
| | | CO-2 | <i>The student should be able to develop soft skills required to navigate a M&A deal</i> |
| | | CO-3 | <i>The student should be in a position to evaluate the legal implications of a M&A deal</i> |
| IV | <i>Equity Fund Management - Processes and Practices</i> | CO-1 | <i>Construct high-conviction stocks portfolio using various concepts and methods</i> |
| | | CO-2 | <i>Apply technical analysis in trading in securities and analyse past performance and develop strategies to predict the prices</i> |
| | <i>Strategic Financial Management</i> | CO-1 | <i>Students will acquire and develop understanding and knowledge of various business functions that are required for decision-making</i> |
| | | CO-2 | <i>Students will be able to analyze and interpret different corporate scenarios that impact financial decisions such as Cost of Capital, Capital Structure and Dividend Policy</i> |

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| | <i>Dissertation</i> | CO-1 | <i>Develop ability to synthesize concepts learned in the program and apply to a research problem in the domain of Finance</i> |
| | | CO-2 | <i>Become adept at research orientation and skill in formulating hypotheses, gathering relevant data, applying appropriate analysis techniques and coming to conclusions</i> |

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| B.A., LL.B. (Hons.) Programme Learning Objectives | |
|---|--|
| PLO 1 (Knowledge) | Demonstrate capacity of knowledge by: <ul style="list-style-type: none"> · PLO 1a: Demonstrating a comprehensive understanding of key legal concepts, principles, and terminologies across various legal disciplines. · PLO 1b: contextualizing legal phenomena within the broader scope of linguistic, cultural, political, economic, and historical frameworks, emphasizing the interdisciplinary nature of law. |
| PLO 2 (Understand) | Demonstrate capacity of understanding by: PLO 2a: Interpreting and elucidating complex legal texts, statutes, interlinking and hyperlinking the case laws, highlighting an understanding of legal nuances and implications. <ul style="list-style-type: none"> · PLO 2b: conducting a critical analysis of the ethical and philosophical underpinnings of legal frameworks by engaging with interdisciplinary cultural perspectives. |
| PLO 3 (Apply) | Demonstrate capacity of application by: <ul style="list-style-type: none"> · PLO3a: Implementing advanced legal reasoning and analytical skills to practical, real-world scenarios, showcasing the ability to navigate and solve complex legal problems. · PLO3b: Employing interdisciplinary approaches to address legal challenges within the context of cultural diversity, ethics, and societal norms, emphasizing the integration of humanities perspective. |
| PLO 4 (Analyze) | Demonstrate capacity to analyze by: <ul style="list-style-type: none"> · PLO4a: conducting in-depth analysis and critical evaluation of judicial decisions, statutes, and legal arguments, discerning both strengths and weaknesses. · PLO4b: Examining the linguistic, cultural, political, economic, and historical factors influencing legal development by critically evaluating the evolving nature of legal norms within the global and historical context. |
| PLO 5 (Evaluate) | Demonstrate capacity to evaluate by: <ul style="list-style-type: none"> · PLO5a: Synthesizing knowledge from diverse legal disciplines to formulate innovative and comprehensive legal solutions to multifaceted problems. · PLO5b: Synthesizing humanistic perspectives with legal frameworks, proposing holistic solutions to contemporary societal challenges, with an emphasis on ethical considerations. |
| PLO 6 (Create) | Demonstrate capacity to create by: <ul style="list-style-type: none"> · PLO 6a: Critically evaluating the ethical implications of legal decisions and actions, engaging with diverse jurisdictional and ethical perspectives to configure a new legal framework. · PLO 6b: Evaluating the cultural and ethical dimensions of legal systems, challenging normative frameworks and fostering a critical awareness of ethical considerations. |

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| B.B.A., LL.B. (Hons.) Programme Learning Objectives | |
|---|---|
| PLO 1 (Knowledge) | Demonstrate capacity of knowledge by: <ul style="list-style-type: none"> · PLO 1a: Demonstrating a comprehensive understanding of key legal concepts, principles, and terminologies across various legal disciplines. · PLO 1b: Acquiring a solid foundation in management principles, encompassing organizational structures, leadership theories, and strategic management within the legal context. |
| PLO 2 (Understand) | Demonstrate capacity of understanding by: <ul style="list-style-type: none"> · PLO 2a: Interpreting and elucidating complex legal texts, statutes, interlinking and hyperlinking the case laws case law, highlighting an understanding of legal nuances and implications. · PLO 2b: comprehending the managerial implications of business decisions by integrating legal and management theories, exploring their impact on organizational behaviour and strategic planning. |
| PLO 3 (Apply) | Demonstrate capacity of application by: <ul style="list-style-type: none"> · PLO3a: Implementing advanced legal reasoning and analytical skills to practical, real-world scenarios, showcasing the ability to navigate and solve complex legal problems. · PLO3b: Employing business principles to complex business and legal scenarios, developing comprehensive strategies for compliance, risk management, and ethical business conduct. |
| PLO 4 (Analyze) | Demonstrate capacity to analyze by: <ul style="list-style-type: none"> · PLO4a: conducting in-depth analysis and critical evaluation of judicial decisions, statutes, and legal arguments, discerning both strengths and weaknesses. · PLO4b: Analyze the legal implications of business decisions, critically assessing their impact on stakeholders and corporate governance structures. |
| PLO 5 (Evaluate) | Demonstrate capacity to evaluate by: <ul style="list-style-type: none"> · PLO5a: Synthesizing knowledge from diverse legal disciplines to formulate innovative and comprehensive legal solutions to multifaceted problems. · PLO5b: Synthesizing legal and managerial principles to propose effective organizational policies and practices, emphasizing strategic integration for sustainable business operations. |
| PLO 6 (Create) | Demonstrate capacity to create by: <ul style="list-style-type: none"> · PLO 6a: Critically evaluating the ethical implications of legal decisions and actions, engaging with diverse jurisdictional and ethical perspectives to configure a new legal framework. · PLO 6b: Evaluating the legal and ethical considerations in business operations, proposing enhancements to corporate governance structures and ethical business practices. |

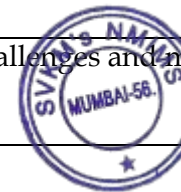
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| Semester | Course Name | Course Learning Outcomes | |
|----------|--|--------------------------|--|
| I | Law of Torts | CLO-1 | To have a comprehensive understanding of crucial legal concepts, principles, and terminologies in uncodified version of Tort Law. |
| | | CLO-2 | To understand Vicarious Liability of State in line with political, historical and colonial landscaping of Pre and Post Independent India |
| | | CLO-3 | To interpret and elucidate complex legal texts of consumer Protection Act, 2019 (as amended in 2021) and Motor Vehicle Law (as amended) and hyperlinking the relevant case laws. |
| | | CLO-4 | Conducting a moot court activity on Donoghue v/s Stevenson to understand both strengths and weaknesses of legal arguments in a landmark decision |
| | Legal Methods | CLO-1 | To apply Legal provisions to conduct research in order to find solutions to general law related problems (PLO 2a) |
| | | CLO-2 | To reflect an understanding of Law and its substantial interconnections with fields of development and growth of justice(PLO 3a) |
| | | CLO-3 | To develop strategies, interconnect issues and provide suggestions for effective implementation of Law & Justice with society centric studies (PLO 3b) |
| | General English | CLO-1 | Can comprehend basic concepts of functional English, to integrate and utilize them in legal scenarios. (B.A. LL.B. (Hons.) - PLO 1b, PLO 2b, and PLO 3b) |
| | | CLO-2 | Can demonstrate LSRW skills by analyzing, evaluating and responding to specific situations (B.A. LL.B. (Hons.) - PLO 4b and 5b); (B.B.A. LL.B. (Hons.) - PLO 4b) |
| | | CLO-3 | Can use effective communication strategies to persuade without compromising on professional ethics. (B.A. LL.B. (Hons.) - PLO 2b and PLO 5b); (B.B.A. LL.B. (Hons.) - PLO3b) |
| | Statistical Foundation with Excel (Clinical) | CLO-1 | Students will be able to apply statistical concepts and techniques learned in the course to analyse real-world data sets using Excel |
| | | CLO-2 | Students will be able to evaluate problem-solving strategies to address statistical challenges and make informed decisions based on data analysis |

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| Introduction to Sociology | CLO-1 | To understand the fundamentals of sociology and demonstrate the ability to analyze conditions of society from the socio- legal perspective (PLO 1b) |
| | CLO-2 | To apply sociological concepts in contemporary scenario (PLO 3b) |
| | CLO-3 | To critically examine and evaluate society, and social ethos with changing times (PLO 5b) |
| Indian Political System | CLO-1 | Understand various aspects, institutional and functional, of Indian Political System and, therefore, enable them to analyze the contemporary Indian political system in general and the process of law-making in India in particular, better. (PLOs 1b & 2b). |
| | CLO-2 | Demonstrate the ability to analyze the socio-economic conditions of society from the politico- legal perspective and come out with potential solutions in terms of interdisciplinary research conducted. (PLOs 2b & 4b). |
| | CLO-3 | Apply the understanding of political processes and political institutions in bringing about political approaches to the legislation in India, and also to apply legal approach in bringing about desirable socio-economic changes in society. (PLOs 3b & 4b). |
| History of Ancient & Medieval India | CLO-1 | To assess the emergence of Empires in ancient India. (PLO 1b) |
| | CLO-2 | To acquaint the students with the concept and structure of ancient Indian administration. (PLO 4b) |
| | CLO-3 | To study the socio-cultural and economic developments of different regions and periods of Ancient India. (PLO 1b) |
| | CLO-4 | To assess the role of history the nature, structure, and impact of Mughal rule during the medieval period. (PLO 3b) |
| | CLO-5 | To examine Mughal polity and administrative institutions. (PLO 1b) |
| Philosophy | CLO-1 | Demonstrate the ability to understand the basic principles of Logic and Reasoning, incorporate it in the study of different laws. (PLOs 1b & 2b). |
| | CLO-2 | Analyse the different socio-legal situations and apply the principles of Logic in socio-legal research and in their professional life. (PLOs 2, 3 & 4). |
| | CLO-3 | Demonstrate the ability to understand the various facets of Critical Thinking and its role in achieving the objectives of becoming an informed, analytical thinker.(PLOs 1,2 &4) |
| | CLO-4 | Conceptualize in a systematic way a more coherent, cogent and lucid way of legal communication, a pre-requisite of doing research and success in legal profession. (PLOs 2, 3 & 4, 6) |

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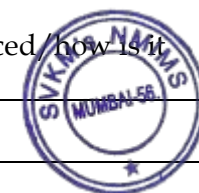
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| | Principles of Management | CLO-1 | Comprehend the managerial implications of business decisions by integrating management theories, exploring their impact on business functions. (PLO2b) |
| | | CLO-2 | Acquire a solid foundation in management principles within the legal context. (PLO1b). |
| | | CLO-3 | Employ management concepts to complex business and legal scenarios, developing comprehensive strategies for effective management. (PLO3b) |
| | | CLO-4 | Synthesise knowledge from diverse management techniques to formulate innovative and comprehensive solutions to multifaceted business problems. (PLO5b) |
| | Financial Accounting | CLO-1 | To demonstrate the applicability of the concept of Financial Accounting to understand managerial decisions and comprehend financial statements and knowledge of each step in the accounting cycle and preparation of financial statements of companies (PLO2b) |
| | | CLO-2 | To understand and apply fundamental accounting concepts, principles and conventions; (PLO3b) |
| | | CLO-3 | To understand current loopholes in the financial environment of the country for proposing enhancements in corporate governance structures and ethical practices of business (PLO6b) |
| | Principles of Marketing | CLO-1 | To develop a practical and conceptual knowledge of the concept, context, processes, and tools necessary for Marketing |
| | | CLO-2 | Analyze, Adapt & Apply the knowledge for facing the Marketing and communication challenges |
| | | CLO-3 | Have an in depth understanding of the marketing planning process |
| | | CLO-4 | Develop and implement integrated marketing strategies |
| | Business Environment | CLO-1 | To develop a practical knowledge of the working and significance of various environment elements and their impact on business. |
| CLO-2 | | To analyze various issues that come up in Business and their solution keeping in mind the special nature of business | |
| II | Law of contracts I | CLO-1 | To understand and interpret the Indian contract Act & Specific Relief Act |
| | | CLO-2 | To analyze the validity and invalidity of contractual agreements |

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| | | CLO-3 | To assess the application of reliefs in matters of contractual disputes |
| | | CLO-4 | To comprehend the basic structure and components of a contract |
| Moot court (Clinical) | | CLO-1 | Appreciate ways to analyze and dissect a given moot court problem |
| | | CLO-2 | comprehend the nature of drafting arguments from both sides in a given moot court problem |
| | | CLO-3 | Practice at all the stages of any case/matter and at all the fora with critical thinking |
| | | CLO-4 | Improve and harness their public speaking and advocacy skills. |
| | | CLO-1 | will be able to contextualize and comprehend the complexities of legal language (esp. in India). |
| Legal English | | CLO-2 | can apply the principles of drafting to effectively demonstrate writing in a persuasive style. |
| | | CLO-3 | can analyze and articulate appropriate sensitivity towards human society by comprehending various socio-politico-literary themes. |
| | | CLO-4 | can engage in self-reflection and envision a world view using the ethical sentiments of literature. |
| | | CLO-1 | : To Demonstrate Ability To Understand The Role Of Economic Principles In consumerism. |
| Microeconomics | | CLO-2 | . To Demonstrate the ability to analyse and interpret issues concerning Pricing And Consumer Behaviour |
| | | CLO-1 | Enhance verbal and written communication skills in Hindi for courtroom presentations and legal negotiations. |
| Hindi | | CLO-2 | Develop the ability to comprehend and use legal terms, phrases, and expressions in Hindi. |
| | | CLO-3 | Gain fluency in drafting legal documents in Hindi |
| | | CLO-1 | Introduce themselves and converse with people in Marathi |
| Marathi | | CLO-2 | communicate in class and understand instructions such as : Stand/ sit/speak/repeat/answer/listen/look/write/underline/Close/how is it pronounced/how is it written/how does one say/work in groups/I don't know/I do not understand. |
| | | CLO-1 | Introduce themselves and converse with people in Punjabi |
| Punjabi | | CLO-2 | Will be able to comprehend basic Punjabi in any written form. |
| | | CLO-3 | will be able to count count numbers from 0 to 100 |
| | | CLO-4 | communicate in class and understand instructions such as : Stand/ sit/speak/repeat/answer/listen/look/write/underline/Close/how is it pronounced/how is it written/how does one say/work in groups/I don't know/I do not understand. |
| | | CLO-1 | Introduce themselves and converse with people in Kannada |
| Kannada | | CLO-1 | Introduce themselves and converse with people in Kannada |



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| | | CLO-2 | Will be able to comprehend basic Kannada in any written form. |
| | | CLO-3 | will be able to count numbers from 0 to 100 |
| | | CLO-4 | Communicate in class and understand instructions such as : Stand/sit/speak/repeat/answer/listen/look/write/underline/Close/how is it pronounced/how is it written/how does one say/work in groups/I don't know/I do not understand. |
| Telugu | | CLO-1 | Communicate in class and understand instructions such as : Stand/sit/speak/repeat/answer/listen/look/write/underline/Close/how is it pronounced/how is it written/how does one say/work in groups/I don't know/I do not understand. |
| | | CLO-2 | Will be able to comprehend basic Kannada in any written form. |
| | | CLO-3 | will be able to count to count numbers from 0 to 100 |
| | | CLO-4 | communicate in class and understand instructions such as : Stand/sit/speak/repeat/answer/listen/look/write/underline/Close/how is it pronounced/how is it written/how does one say/work in groups/I don't know/I do not understand. |
| French | | CLO-1 | Introduce themselves in a meeting and converse with people from different countries |
| | | CLO-2 | Have a discussion on the whereabouts and identities of people they interact with such as their nationalities, the countries they come from, the languages they speak |
| | | CLO-3 | Count numbers from 0 to 69 |
| | | CLO-4 | Communicate in class and understand instructions such as : repeat/answer/listen/look/tick the right answer/write/underline/close/how is it pronounced/how is it written/how does one say/work in groups/I don't know/ |
| | | CLO-5 | Learn French law vocabulary and speak about law terms in french |
| | | CLO-6 | Greet people and take leave |
| Research Methods in Sociology | | CLO-1 | To develop a foundational knowledge of key sociological methods |
| | | CLO-2 | To undertake doctrinal and empirical research using various tools and techniques for finding solutions |
| Western Political Thought | | CLO-1 | Demonstrate the ability to understand the various facets of political thought (Western and Indian) and its influence on the various nuances of Western Political Thought. |
| | | CLO-2 | Application of the understanding of Western Political Thought to the real life circumstances. |
| | | CLO-3 | Apply the understanding of the subject in bringing about a research oriented new knowledge of the dynamics of Western Political Thought in shaping the nature India and the world. |

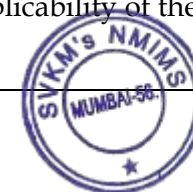
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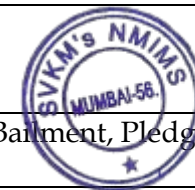
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| History of British & Independent India | CLO-1 | Understand the concept of History and methodology thereto. |
| | CLO-2 | Have the knowledge of every facet of historical facts, which led to present shape of India. |
| | CLO-3 | Understand the role of social reformers and Indian National congress in freedom movement. |
| | CLO-4 | Appreciate the importance of social reforms in evolution of laws. |
| | CLO-5 | Develop capacity to understand how movement and social reforms can change governance and culture of the country. |
| Journalism & Mass communication | CLO-1 | Apply Legal provisions to conduct research in order to find solutions to the challenge of Media and Democracy, and understanding media in contemporary society and its implications on Law and vice versa |
| | CLO-2 | To reflect an understanding of ethics of Journalism, freedom and responsibility of the press, Press council Of India, Media council of India |
| | CLO-3 | Develop strategies, interconnect issues and provide suggestions for effective implementation of Law & Journalism with society centric studies |
| Strategic Management | CLO-1 | To demonstrate a comprehensive understanding of strategic management concepts, frameworks, and methodologies in the context of contemporary business challenges. |
| | CLO-2 | To analyze emerging trends and uncertainties in the business environment, such as technological advancements, environmental shifts, and changing consumer preferences. |
| | CLO-3 | To undertake research and study case studies using various management tools and techniques for finding solutions to strategic problems. |
| | CLO-4 | To identify and assess key global trends, such as volatility, uncertainty, complexity, and ambiguity (VUCA), as well as the characteristics of the BANI world, impacting strategic decision-making. |
| | CLO-5 | To apply strategic management principles to analyze and solve complex business problems, making informed decisions to drive organizational success. |
| Cost Accounting | CLO-1 | To develop a strong foundation of cost accounting and an understanding of the applicability of the concept of cost Accounting. |

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| | | CLO-2 | To enable an understanding of cost data in organizations by understanding the practical implications of the concepts related to cost statements and services costing and comprehend the complexities associated with the management of cost . |
| | | CLO-3 | To employ budgetary principles for an in-depth understanding of budgets and preparing budgetary control statements for organisations and law firms . |
| | | CLO-4 | To enable an understanding of interdisciplinary subjects of cost accounting and analyse its impact on the identification and resolution of problems and analyzing the related legal framework.. |
| | | CLO-5 | To develop a better understanding of Responsibility Accounting while identifying the benefits of modern cost accounting ways that have implications on the smooth functioning of a law firm . |
| | Customer Relationship Management | CLO-1 | To understand the concept, context, and importance of CRM |
| | | CLO-2 | To evaluate the processes, tools, techniques, and framework of CRM |
| | | CLO-3 | To understand the different challenges faced in building a CRM program |
| | | CLO-4 | To be updated with the evolving global trends and best practices |
| | ICT & Business Management | CLO-1 | To understand the principles of the latest tenets of information technology so as to appreciate the associated legalities better |
| | | CLO-2 | To understand the sources of ethical dilemmas associated with implementation and usage of information technology |
| III | Constitutional Law I | CLO-1 | To develop an understanding of the statutory provisions regarding the Fundamental Rights and duties under the constitution of India |
| | | CLO-2 | To acquire the ability to interpret various provisions pertaining to Fundamental Rights and their evolution by the Judiciary. |
| | | CLO-3 | To acquire the understanding and analyzing multiple intricacies involved in the Fundamental Right Jurisprudence and apply them to contemporary issues |
| | | CLO-4 | Examine the constitutional principles concerning contemporary legal issues and case laws in India |
| | | CLO-5 | Assess the role of the judiciary in upholding the principles of the constitution and ensuring justice and equity. |
| | Law of contracts II | CLO-1 | To develop an understanding of the statutory provisions regarding Indemnity and Guarantee and the difference between them |
| | | CLO-2 | To acquire ability to interpret various provisions pertaining to Special contracts of Bailment, Pledge and Agency |



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| | | CLO-3 | To gain an understanding on the statutory framework concerning a contract of Sale, its essentials, rights and duties of buyers and sellers, conditions and warranties |
| | | CLO-4 | To evaluate and comprehend Indian Partnership Act and Limited Liability Partnerships and develop understanding about Partnerships as a form of business model |
| The Bharatiya Nyaya Sanhita, 2023 (IPC) | | CLO-1 | To demonstrate the ability to read the Bharatiya Nyaya Sanhita 2023 and identify the varied interpretations of the Sanhita. |
| | | CLO-2 | To identify the emerging areas of criminal jurisprudence and understand the dynamic nature of the subject |
| | | CLO-3 | To synthesize materials from a variety of sources and develop a better understanding of the subject link to other branches of law |
| | | CLO-4 | To critically evaluate case law, theories and principle and apply legal provisions to practical cases, To equip the students with working knowledge and technical-know-how of law of crimes from a therapeutic jurisprudence perspective |
| Institutional Economics | | CLO-1 | Identify different types of institutions and their influence on the economy and society and Give solutions about the problems of asymmetric information |
| | | CLO-2 | Identify the inefficiencies created due to the presence of positive and negative externalities in the market |
| | | CLO-3 | To analyze the role of institutions in achieving economic growth and development and to design the solutions for the economy to reduce transaction costs in the economy |
| | | CLO-4 | To synthesize materials from a variety of sources and develop a better understanding of the subject link to other branches of law |
| History of Modern India & Europe | | CLO-1 | To familiarize students of law with the history of Europe as many international laws/human rights/humanitarian laws emanate from developments in Europe. (PLO3b) |
| | | CLO-2 | The History of Modern India and Europe is essential because many revolutionary changes that took place in India and Europe deeply affected the people of India and Europe and the whole world. (PLO4b) |
| | | CLO-3 | To identify the factors of World Wars. (PLO4b) |
| | | CLO-4 | To create an understanding among students about the liberal ideas and freedom struggles (PLO3b) |
| | | CLO-5 | To familiarize the students with the concepts of Nationalism and the formation of nation-states in Europe. (PLO4b) |

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| | CLO-6 | To deploy certain crucial concepts as lenses to focus on contemporary normative debates in a critical, historical perspective.(PLO4b) |
| Sociology of Law | CLO-1 | Develop and demonstrate the ability to explore contemporary legal issues from a sociological point of view (PLO1b & PLO2b). |
| | CLO-2 | Analyze the influence of social, cultural, political, and historical factors on the development of law and legal institutions within both the global and Indian contexts (PLO4b). |
| | CLO-3 | Apply the understanding of the subject to elucidate the complex interface between law and society by identifying and studying the various social factors and problems confronting Indian society (PLO3b). |
| International Relations | CLO-1 | Demonstrate the ability to understand the various facets of International Law and the influence of international politics on the implementation of International Law. |
| | CLO-2 | Analyze the dynamics of geopolitics and political economy into the sphere of international affairs. |
| | CLO-3 | Apply the understanding of the subject in bringing about a research oriented new knowledge of the dynamics of International Relations and reflect over the issues of India's Foreign Policy |
| Indian Political Thought | CLO-1 | Demonstrate the ability to understand the various facets of political thought (Western and Indian) and its influence on the nuances of Indian Political Thought. (PLOs 1b & 2b). |
| | CLO-2 | Analyze the inclusion of the principles of justice in the Indian Political Thought. (PLOs 2b & 4b). |
| | CLO-3 | Apply the understanding of the subject in bringing about a research oriented new knowledge of the dynamics of Indian Political Thought in shaping the myriad contours of India and the world. (PLOs 3b & 4b). |
| Business Ethics & CSR | CLO-1 | Acquire a solid foundation in ethical and CSR practices in businesses within the legal context.(PLO1b). |
| | CLO-2 | Analyze strategies, interconnect issues and provide suggestions for effective analysis of regulatory norms to ensure ethical functioning of organizations. (PLO 4b) |
| | CLO-3 | Employ business principles and comprehensive strategies for ethical business conduct. (PLO3b) |
| | CLO-4 | Evaluate the legal and ethical considerations in business operations, proposing enhancements to corporate governance structures and ethical business practices. (PLO6b) |
| Environmental Management | CLO-1 | Acquiring a strong foundation in environmental friendly practices within the legal context. |

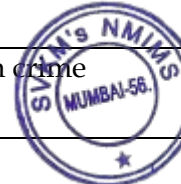
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| | | CLO-2 | comprehend research work and case studies about prevalent environmental issues and their implications on business decisions and stakeholders. |
| | | CLO-3 | Employ strategies, interconnect issues and provide suggestions for effective analysis of regulatory norms protecting environmental justice |
| | Consumer Behaviour | CLO-1 | To demonstrate ability to interpret provisions of legal rules and its effectiveness in the field of Marketing |
| | | CLO-2 | To undertake research and study case studies using various marketing tools and techniques for finding solutions and communicate the research articulately. |
| | | CLO-3 | To develop strategies, interconnect issues and provide suggestions for effective analysis of latest trends in consumer behavior affecting marketing of actual products and services |
| | | CLO-4 | To identify and evaluate ethical approaches to ethical marketing strategies and to provide suggestions for effective consumer centric strategies |
| | | CLO-5 | To understand the concerns and consequences of unethical marketing practices |
| | Management Accounting | CLO-1 | To understand the applicability of the concept of Management Accounting (PLO2b) |
| | | CLO-2 | To employ financial principles and demonstrate the impact of financial reporting choices on the usefulness of reported earnings to predict future performance (PLO3b). |
| | | CLO-3 | To critically assess the impact of managerial decisions on financial statements and its preparation (PLO4b). |
| | | CLO-4 | To construct and synthesize effective organizational policies for sustainable business operations. (PLO5b). |
| | | CLO-5 | To develop a better understanding of the Financial Statements of companies while enhancing governance structures through identifying the ratios by which investment decisions can be made. (PLO5b). |
| IV | Family Law I (Marriage and Divorce Laws) | CLO-1 | The students shall be able to identify Family as Legal Institution and its importance for the existence of a civilized society. |
| | | CLO-2 | To orient the students about the concept of Marriage in Family Law and how the concept of Marriage has evolved through time in India. |
| | | CLO-3 | To heighten the awareness on the various modes of Divorce under Family Law. |
| | | CLO-4 | To understand the necessity of Family courts. |
| | The Bharatiya Nagarik Suraksha Sanhita, 2023 (BNSS) | CLO-1 | To develop the ability to interpret provisions of statutory procedural law/rules concerning crime |
| | | CLO-2 | To develop the ability to compare statutory provisions regarding procedural laws in crime |

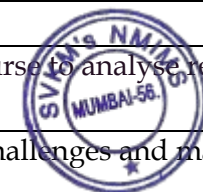
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| | | CLO-3 | To apply legal provisions, rules, principles and procedures and conduct legal research to find solution to complex legal problem arising under the present framework. |
| | | CLO-4 | To inculcate an inter-disciplinary understanding of procedural laws and its impact on various stakeholders. |
| Constitutional Law II | | CLO-1 | To develop an understanding of the statutory provisions regarding the Union and State Executive under the constitution of India and difference in their powers |
| | | CLO-2 | To develop an understanding of the statutory provisions regarding the Union and State Legislature under the constitution of India and difference in their powers |
| | | CLO-3 | To acquire ability to interpret various provisions pertaining to Union and State Judiciary, the powers vested on Supreme court and High court and their functioning |
| | | CLO-4 | To gain an understanding about the inter-relationship between the organs of the government and separation of powers. |
| Company Law I | | CLO-1 | To develop understanding and acquire application-oriented knowledge for Rules, Notifications and Circulars issued by Regulators from time to time to take care of contemporary and relevant issues |
| | | CLO-2 | To undertake empirical research by using different statistical data available through stock exchanges, Banks, NBFC's, financial institutions and the regulator to determine the financial stability and suggest effective solutions & recommendations |
| | | CLO-3 | To enable the students to apply relevant provisions and judicial decisions in understanding the interpretation and practical application of laws |
| | | CLO-4 | To Identify the concerns and consequences of unethical practices by key players in implementing effective governance in the corporate sector in India |
| History of Modern USA | | CLO-1 | To provide insights into emerging issues in the world(PLO3a) |
| | | CLO-2 | Understand analyzes the history of America (PLO3a) |
| | | CLO-3 | Survey of the United States and its world relationships following the cose of World War II (PLO3a) |
| | | CLO-4 | Understand how the events, personalities and movements in USA (PLO3a) |
| Statistical Foundations with Excel (Only ICA) | | CLO-1 | Students will be able to apply statistical concepts and techniques learned in the course to analyse real world data sets using Excel |
| | | CLO-2 | Students will be able to evaluate problem-solving strategies to address statistical challenges and make informed decisions based on data analysis |

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| Environmental Sociology | CLO-1 | To explore contemporary environmental issues from a sociological point of view. |
| | CLO-2 | To develop understanding of interconnectedness of human society and natural environment. |
| Public Policy & Governance in India | CLO-1 | Demonstrate the ability to understand the various facets of Public Policy and its role in achieving the goals of national development. |
| | CLO-2 | Analyze various facets of public policy framework and evaluate the functioning of major Indian public policies. |
| | CLO-3 | Apply the understanding and the analysis of public policy into the myriad and multifaceted processes of governance, nationally and globally and the creation of research-based new knowledges into the various streams of public policy. |
| Access to Justice and Governance in India | CLO-1 | Demonstrate the ability to understand the various facets access to justice and its relevance on the functioning of various institutions in India |
| | CLO-2 | Analyze the inclusion of the principles of justice in the Indian political system. |
| | CLO-3 | Apply the understanding of the subject in bringing about a research oriented new knowledge of the dynamics of access to justice in shaping the nature of constitutionalism and the rule of law at various stages of governance in India. |
| Integrated Marketing communication | CLO-1 | To undertake research in order to foster a holistic understanding about IMC and gain insights about the principles of IMC, tools of IMC, Advertising, Media Planning, Sales promotion |
| | CLO-2 | Developing Strong concept base for implications of tools of IMC, Advertising, Media Planning, Sales promotion |
| | CLO-3 | Develop strategic approach among students that is customer centric and data driven |
| | CLO-4 | Understand and implement the role of; marketing, communication, ethical media practices and Internet in Advertising and Branding |
| Human Resource Management | CLO-1 | To develop an understanding of the application of the concepts related to Human resource management. (PLO1a). |
| | CLO-2 | To develop a deeper understanding of Workplace Diversity, evolving HRM practices, role of digital technology having an impact on human resource functions, Changing Role of HR Managers (PLO2b) |
| | CLO-3 | To understand the implications of VUCA changes on the workplace and the interdisciplinary ramifications it has on the future of workspaces. (PLO3b) |

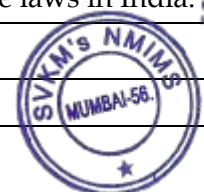
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| | | CLO-4 | To develop a better understanding of Human resource management functions by highlighting HR's ethical responsibility in an era of digital transformation and VUCA changes. (PLO4a) |
| | Entrepreneurial Management | CLO-1 | Demonstrate an understanding of the importance of an entrepreneurial mindset in approaching challenges and opportunities. |
| | | CLO-2 | Apply techniques for generating innovative business ideas and solutions and conduct market research to identify and assess potential business opportunities. |
| | | CLO-3 | Develop a well-structured business model canvas that outlines the core components of a startup. |
| | | CLO-4 | Engage with the entrepreneurial ecosystem, including networking, mentorship, and support organizations. |
| | Financial Management | CLO-1 | To develop an understanding of the applicability of the concept of corporate Finance (PLO2b). |
| | | CLO-2 | To employ financial principles like Leverage, EBIT, and EPS in complex business scenarios associated with the management of the cost of funds in the Capital Structure. (PLO3b). |
| | | CLO-3 | To analyse the implications of capital budgeting strategy based on the principles of capital budgeting, capital structure, cost of capital, corporate financing, and asset valuation on the financial performance of the company. (PLO4b). |
| | | CLO-4 | To synthesize corporate finance principles and investment and financing decisions for identifying and resolving problems of corporate structure. (PLO5b). |
| | | CLO-5 | To evaluate legal and ethical financial practices for enhancing corporate governance structures through Capital Market and Mutual Fund Markets for smooth operations. (PLO6b). |
| V | Constitution I | CLO-1 | Recall Preamble and significant historical parliamentary debates that influenced the drafting of the constitution |
| | | CLO-2 | Explain the evolution and development of the statutory provisions regarding the Fundamental Rights and duties under the constitution of India |
| | | CLO-3 | Develop the ability to interpret various provisions pertaining to Fundamental Rights by the Judiciary |
| | | CLO-4 | Examine the constitutional principles concerning contemporary legal issues and case laws in India. |
| | CPC & Limitation Act | CLO-1 | Will be able to comprehend the rules of court procedures in Civil Proceedings. |
| | | CLO-2 | Will be able to discern rules of special suits etc... |

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| | CLO-3 | Will be able to draft effectively the plaint including other rules related pleadings and applicability of law of limitation |
| | CLO-4 | Will be able to comprehend the process of execution of decree and commercial court |
| Transfer of Property Act | CLO-1 | Define key legal concepts, basic principles, and doctrines of Transfer of Property Act, 1882. |
| | CLO-2 | Explain the rules governing Mortgages, Leases, Exchanges, Gifts and Actionable Claims rights and liabilities of transferor and transferee. |
| | CLO-3 | Apply the fundamental principles, features, rights, and liabilities of parties and the consequences of specific transactions affecting immovable property in case laws. |
| | CLO-4 | Analyse and evaluate the case laws relating to the concept of easement and kinds of easement and rights and liabilities of transferor and transferee. |
| Family Law II | CLO-1 | To enable the students to resolve the legal issues and problems relating to Family Law (Succession) by application of legal provisions, rules, principles and procedures. |
| | CLO-2 | To enable the students to provide solutions to the existing issues by identifying the concerns and lacunae in the existing legal framework of personal laws with the analysis of the amendments and recent judgements. |
| | CLO-3 | To undertake doctrinal and empirical legal research and study different judgements in similar case laws so as to enable them to find solutions and suggest effective recommendations and suggestions. |
| Alternative Dispute Resolution (Clinical) | CLO-1 | To comprehend and analyze various methods of resolving disputes outside the courts using ADR system after assessing the strengths, weakness and challenges of various dispute resolution systems |
| | CLO-2 | To trace the evolution and development of Arbitration and conciliation Act, 1996 along with its Amendments and interpret the judgments delivered by various tribunals and courts |
| | CLO-3 | To develop the understanding of drafting and usage of standard clauses/provisions in different arbitration agreements, settlement contracts and arbitral awards along with the implications of each of them during the stage of enforcement |
| | CLO-4 | To identify and implement different techniques and skills required to make effective use of ADR methods such as Mediation, Negotiation and conciliation and their operation in both legal and social contexts |
| The Bharatiya Sakshya Adhinyam, | CLO-1 | To enable the students to apply relevant provisions and judicial decisions in understanding the interpretation and practical application of the law of evidence |



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| | 2023 (Law of Evidence) | CLO-2 | To ensure that the students can demonstrate the ability to compare statutory provisions & legal theories of different jurisdictions |
| | | CLO-3 | To develop an understanding and acquire application-oriented knowledge of the rules and to further develop and understanding of contemporary and relevant issues and recent amendments in the law. |
| | | CLO-4 | To enable the student to conduct an in-depth analysis and critical evaluation of landmark and contemporary judicial decisions, statutes, and legal arguments, discerning both strengths and weaknesses, To enable the students to synthesize humanistic and socio-legal perspectives within the legal framework and propose holistic solutions to contemporary societal challenges., To enable the students to critically evaluate the ethical implications of judgments and various interpretations upon various stakeholders in the justice system such as victims, accused and the society. |
| | Company Law I | CLO-1 | To develop understanding and acquire application-oriented knowledge for Rules, Notifications and Circulars issued by Regulators from time to time to take care of contemporary and relevant issues |
| | | CLO-2 | To undertake empirical research by using different statistical data available through stock exchanges, Banks, NBFC's, financial institutions and the regulator to determine the financial stability and suggest effective solutions & recommendations |
| | | CLO-3 | To enable the students to apply relevant provisions and judicial decisions in understanding the interpretation and practical application of laws |
| | | CLO-4 | To Identify the concerns and consequences of unethical practices by key players in implementing effective governance in the corporate sector in India |
| VI | Constitution II | CLO-1 | To develop an understanding of the statutory provisions regarding the Union and State Executive under the constitution of India and difference in their powers |
| | | CLO-2 | To develop an understanding of the statutory provisions regarding the Union and State Legislature under the constitution of India and difference in their powers |
| | | CLO-3 | To acquire ability to interpret various provisions pertaining to Union and State Judiciary, the powers vested on Supreme court and High court and their functioning |
| | | CLO-4 | To gain an understanding about the inter-relationship between the organs of the government and separation of powers. |
| | | CLO-1 | To understand the need for judicial interpretation of a statute or delegated legislations |

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| Interpretation of Statutes | CLO-2 | To understand and differentiate between various types of statutes, the aids of interpretation and the rules of statutory interpretation. |
| | CLO-3 | To discern the important principles of constitutional interpretation |
| | CLO-4 | To make a comparative study of case laws with international statutes which are Pari materia with Indian laws and judicial opinions |
| Administrative Law | CLO-1 | Develop a conceptual understanding of the key concepts and principles of Administrative law and its present framework in India. |
| | CLO-2 | Develop a comprehensive understanding of the working of different Administrative bodies |
| | CLO-3 | Understand the challenges faced in implementation of Administrative law in India and the impact on judicial trends |
| Banking and Insurance Law | CLO-1 | To develop understanding and acquire application-oriented knowledge for Rules, Notifications and Circulars issued by Regulators from time to time to take care of contemporary and relevant issues |
| | CLO-2 | Undertake empirical research by using different statistical data available through Banks, NBFC', financial institutions and the regulator to determine the financial stability and suggest effective solutions & recommendations |
| | CLO-3 | To enable the students to apply relevant provisions and judicial decisions in understanding the nature of insurance contract, various policies and rules with to respect Life Insurance and General Insurances, Risk Management and the concept of Re-Insurance |
| | CLO-4 | To Identify the concerns and consequences of unethical practices by key players in implementing effective governance in banking & insurance sector in India |
| Company Law II | CLO-1 | To develop understanding and acquire application oriented knowledge for Rules, Notifications and Circulars issued by Regulators from time to time to take care of contemporary and relevant issues |
| | CLO-2 | To undertake empirical research by using different statistical data available through stock exchanges, Banks, NBFC's, financial institutions and the regulator to determine the financial stability and suggest effective solutions & recommendations |
| | CLO-3 | To enable the students to apply relevant provisions and judicial decisions in understanding the interpretation and practical application of laws |
| | CLO-4 | To Identify the concerns and consequences of unethical practices by key players in implementing effective governance in the corporate sector in India |
| | CLO-1 | To demonstrate ability to interpret provisions of civil, criminal, family and contract laws in relation to importance of their use in legal drafting |

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| | Drafting, Pleading and conveyancing (Clinical) | CLO-3 | To develop strategies, interconnect issues and provide suggestions through the skill of drafting for effective implementation of laws with allied subjects |
| | | CLO-4 | To develop drafting skills in order to identify and implement ethical approaches to independent legal thinking |
| VII | Principles of Taxation I | CLO-1 | To identify the basic principles of taxation laws in India |
| | | CLO-2 | To gain knowledge of basic income tax provisions |
| | | CLO-3 | To critically analyse the cases and apply the provisions to compute taxable income |
| | | CLO-4 | To be equipped with knowledge of corporate taxation and international taxation |
| | Public International Law | CLO-1 | To analyse the role of Public International Law in international relations |
| | | CLO-2 | To interpret and elucidate international conventions and case law highlighting an understanding of legal nuance and implications |
| | | CLO-3 | To implement advanced legal reasoning and analytical skills to practical real world scenarios showcasing the ability to navigate and solve complex legal problems |
| | | CLO-4 | To conduct in-depth analysis and critical evaluation of judicial decisions given by the International court of Justice |
| | Human Rights | CLO-1 | To Understand and interpret the various norms, theories and conventions on human rights, its standards at different levels and its moral and philosophical rationale. |
| | | CLO-2 | To identify a human right and differentiate it from other rights or moral values. |
| | | CLO-3 | To chart the appropriate response to such violation through identification of the apt enforcement mechanism and procedure. |
| | | CLO-4 | To identify a situation involving a question of human rights violation and examine it through the lens of sociology. |
| | Land Law | CLO-1 | To apply Land & property law provisions to conduct research in order to find solutions to property sector related problems |
| CLO-2 | | To reflect an understanding of Land & Property Laws and its substantial interconnections with fields of development and growth in property | |
| CLO-3 | | To develop strategies, interconnect issues and provide suggestions for effective implementation of Land laws with consumer-centric studies. | |



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| Labour and Industrial Law I | CLO-1 | To understand labour laws and various other provisions. (PLO 1a). |
| | CLO-2 | To understand the rights and responsibilities of the management and especially workmen and trade unions and penalties provided under the labour laws/codes. (PLO 2a). |
| | CLO-3 | To disseminate knowledge of labour laws, shall enable students to understand the changes made under the Industrial Relations code, 2020 and the Occupational Safety, Health and Working conditions code, 2020 with reference to its current need in the society. (PLO 4a). |
| Professional Ethics & Professional Accounting System (Clinical) | CLO-1 | To apply Professional Ethics to conduct research in order to identify legal industry related problems (PLO 2a). |
| | CLO-2 | To reflect an understanding of Advocates Act and its substantial interconnections with The Bar council of India. (PLO 3a). To develop strategies, interconnect issues and provide suggestions for effective implementation of legal principles relating to the governance of Advocates and their conduct with right to practice, teach, frame laws and govern the legal profession. (PLO 3b). |
| Sports Law (Elective) | CLO-1 | To develop an understanding in students while applying the concepts studied in various law subjects to the field of sports and integrating functional areas of law and management into Sports Law. |
| | CLO-2 | To enable the students to apply relevant judicial provisions in understanding the nature of the sports industry, various policies, and rules concerning International Sports, the Olympics, and the Indian Sports Sector. |
| | CLO-3 | To identify the risks and repercussions of unethical acts by athletes and organizations in compliance with the World Anti-Doping Agency and National Anti-Doping Testing Agency. |
| Cyber Law (Elective) | CLO-1 | To demonstrate a comprehensive understanding of key legal concepts, principles, and terminologies across various legal disciplines pertaining to Technology and Law. |
| | CLO-2 | To implement advanced legal reasoning and analytical skills to practical, real-world scenarios, showcasing the ability to navigate and solve complex legal problems in the digital era |
| | CLO-3 | To establish the co-relation of patent prosecution, antitrust, privacy, cybercrime, biotech, telecoms, the law affecting the entertainment industry |
| Law and Technology (Elective) | CLO-1 | To gain knowledge of the latest developments in the application of Technology in Law |
| | CLO-2 | To understand the need and implication of Data Privacy in online transaction |

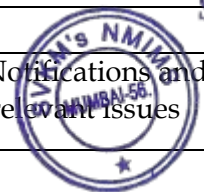
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| | | CLO-3 | To establish the co-relation of patent prosecution, antitrust, privacy, cybercrime, biotech, telecoms, the law affecting the entertainment industry |
| | Maritime Law (Elective) | CLO-1 | To inculcate a broad understanding of International Maritime and Shipping Law. |
| | | CLO-2 | To demonstrate ability to interpret provisions of International conventions relating to Carriage of Goods by Sea. |
| | | CLO-3 | To apply legal provisions and conduct legal research to find solutions to Shipping Law disputes |
| VIII | Environmental Law | CLO-1 | To be equipped with the knowledge of "Environment" and related concepts; kinds of environmental problems such Pollution, Resource management, role of Indian judiciary in developing environmental jurisprudence and international perspectives. |
| | | CLO-2 | To critically analyse the right to Environment from a human rights perspective. |
| | | CLO-3 | To evaluate the impact of Pollution control mechanism in India on Indian environment from a socio-legal and corporate perspective. |
| | | CLO-4 | To demonstrate ability to connect evolving environmental and social governance principles with India's developing economy needs and global commitments |
| | Intellectual Property Law | CLO-1 | To apply intellectual property law provisions (Patents, copyrights and Trademarks) to conduct research in order to find solutions to IP related problems |
| | | CLO-2 | To reflect an understanding of Intellectual Property and its substantial interconnections in the various fields |
| | | CLO-3 | To develop strategies, interconnect issues and provide suggestions for effective implementation of IP laws relating to varied industries about policy and administration and the judicial trend. |
| | Private International Law | CLO-1 | To acquire conceptual clarity about the principles of Private International Law |
| | | CLO-2 | To understand whether principles of conflict of Laws are applicable in any case involving a foreign element |
| | | CLO-3 | To identify the issue of jurisdiction in any case where foreign element is involved |
| | | CLO-4 | To identify the law that will be applicable in any case where a foreign element is involved |
| | Principles of Taxation II | CLO-1 | Identify, comprehend and understand the various basic principles of Indirect Taxation in India. |
| | | CLO-2 | Illustrate & demonstrate the need of various taxation statutes in the nation. |
| | | CLO-3 | Critically analyze the new regime of Indirect taxation laws in the country. |
| | | CLO-4 | To develop understanding and acquire application-oriented knowledge for Rules, Notifications and Circulars issued by Regulators from time to time to take care of contemporary and relevant issues |

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| International Humanitarian Law and Refugee Law | CLO-1 | Demonstrate a detailed understanding of International Humanitarian Law and critically analyze the impact of International Humanitarian Law norms and case law on domestic law |
| | CLO-2 | Address contemporary issues in International Humanitarian Law and policy with reference to a variety of legal material |
| | CLO-3 | To appreciate the difficulty in the application of International Humanitarian Law, International Human Rights Law and Refugee Law in various factual situations |
| Labour and Industrial Law II | CLO-1 | To understand labour laws and various other provisions. (PLO 1a). |
| | CLO-2 | To understand the rights and responsibilities of the management and especially workmen and trade unions and penalties provided under the labour laws/codes. (PLO 2a). |
| | CLO-3 | To disseminate knowledge of labour laws, shall enable students to understand the changes made under the code on Wages, 2019 and the code on Social Security, 2020 with reference to its current need in the society. (PLO 4a). |
| International Trade Law | CLO-1 | Develop knowledge and understanding of the core principles of WTO law governing international trade, particularly in relation to trade in goods, services, and investment.(PLO 1b and PLO 2a) |
| | CLO-2 | Interpret and appreciate rules of dispute resolution mechanisms under WTO, International commercial Arbitration and ICSID. (PLO 2a and PLO 3b) |
| | CLO-3 | Analyze the provisions of the United National convention on International Sale of Goods Act and be able to apply them for further understanding of the export - import machineries across the globe. (PLO 2a and PLO 3b) |
| | CLO-4 | Develop the ability to advise trading entities/bodies, besides law firms dealing with trade issues, as to how the WTO rules, especially relating to antidumping, subsidies, safeguards, customs valuation, services, and TRIPS will apply to factual situations. (PLO 2b and PLO 3b) |
| Air & Space Law | CLO-1 | To understand the legal principles, regulations, and challenges within Air and space law, and develop the ability to analyze complex legal scenarios in these contexts. |
| | CLO-2 | To reflect an understanding of Intellectual Property and its substantial interconnections with fields of Pharma |
| | CLO-3 | To evaluate contemporary issues and effectively identify potential legal implications and propose appropriate legal remedies in the subject domain |
| Election Law | CLO-1 | To analyze election-related legal issues such as qualifications and disqualifications for candidates |
| | CLO-2 | To deconstruct the legal provisions governing election campaigning, and critically appraise the code of conduct for political parties |

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| | | CLO-3 | To analyze frameworks concerning electoral reforms and ethical considerations within the electoral process |
| | Law Relating to Customs & Customs Tariff | CLO-1 | Importers and exporters under the Customs Act. The methods of assessment and incidence of the Customs liability under the Act. |
| | | CLO-2 | The methods of settlement under the Act with the Customs department |
| | | CLO-3 | The method of interpretation of the Customs Act and rules under the Act. |
| | | CLO-4 | The legal principles by which the Apex court has decided the Customs Cases in the past. The adjudicating process. |
| | Media and Entertainment Law | CLO-1 | To analyze broadcasting and telecommunications regulations, critically examining the balance between content regulation and freedom of expression in different media platforms. |
| | | CLO-2 | To understand the legal principles, regulations, and challenges within media and entertainment industries, and develop the ability to analyze complex legal scenarios in these contexts. |
| | | CLO-3 | To evaluate defamation and privacy issues in media content, effectively identifying potential legal implications and proposing appropriate legal remedies. |
| IX | Investment Law & Financial Market Regulations | CLO-1 | To explain the various financial market regulators |
| | | CLO-2 | To describe the jurisdiction for rule making and effective implementation of rules of regulators |
| | | CLO-3 | To apply legal provisions and conduct legal research to find solutions to Shipping |
| | Corporate Governance | CLO-1 | To demonstrate application-oriented knowledge for Rules, Notifications and Circulars issued by Regulators from time to time to take care of contemporary and relevant issues |
| | | CLO-2 | To analyse relevant provisions and judicial decisions in understanding the interpretation and practical application of laws |
| | | CLO-3 | to modify the concerns and consequences of unethical practices by key players in implementing effective governance in the corporate sector in India |
| | Mergers and Acquisitions | CLO-1 | To develop understanding and acquire application-oriented knowledge for Rules, Notifications and Circulars issued by Regulators from time to time to take care of contemporary and relevant issues |
| | | CLO-2 | To enable the students to apply relevant provisions and judicial decisions in understanding the interpretation and practical application of laws |
| | | CLO-3 | To Identify the concerns and consequences of unethical practices by key players in implementing effective governance in the corporate sector in India |


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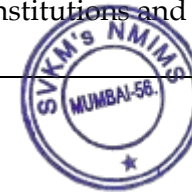
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| | CLO-4 | To apply basic legal provisions, financial principles and analytical techniques to actual problems likely to be encountered by senior management of major corporations or those who are the advisors to such management in the context of an M&A transaction. |
| Laws of Insolvency and Bankruptcy | CLO-1 | To understand why there was a need for this code |
| | CLO-2 | To comprehend the procedure laid under the code for Insolvency/Bankruptcy |
| | CLO-3 | To comprehend the filing and compliance procedures mentioned under the code. |
| | CLO-4 | To analyse the latest trends and cases decided under the code. |
| IPR Management | CLO-1 | Understanding and appreciating the enterprising and commercial nature of Intellectual Property for various business enterprises and its related legal framework. |
| | CLO-2 | Understanding various challenges posed by COVID-19 Pandemic (recommended to amend to “natural disaster” or like concepts) to these business enterprises and subsequent impact on IP laws. |
| | CLO-3 | To develop strategies, interconnect issues and provide suggestions for effective implementation of IP laws with branding, marketing and consumer centric studies |
| Patent Right Creation and Registration | CLO-1 | To analyze the existing legal framework with respect to Patent Law in the country . |
| | CLO-2 | To apply the principles of patent law to factual situations . |
| | CLO-3 | To comprehend the nature of searching and drafting of patent . |
| Traditional Knowledge, Farmers' and Breeders' Rights | CLO-1 | To demonstrate ability to interpret provisions of statutory law such as Protection of Plant Variety and Farmers Right Act, 2001 in relation to importance of traditional and innovative seed breeding techniques |
| | CLO-2 | To demonstrate ability to compare and analyze the international and Indian legal framework of Traditional Knowledge and its position under intellectual property law |
| | CLO-3 | To reflect an understanding of Traditional Knowledge and its interconnections with the field of cultural studies and anthropology |
| Law of Trademark and Design | CLO-1 | To interpret provisions related to Trademark and Design Acts |
| | CLO-2 | To reflect an advance understanding of Trademark and Design law with concepts like Branding and consumer centric studies |
| | CLO-3 | To develop legal strategies, interconnect issues and provide suggestions for effective implementation of trademark and Design laws with competition law and overlap |
| | CLO-4 | To understand the lifecycle and protection of Trade Marks |
| Criminal Sociology | CLO-1 | To emphasize the validity of theoretical models of criminology in law. |
| | CLO-2 | To examine the various micro and macro level social conditions impacting society and individual, that affects crime and its assessment. |

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| | | CLO-3 | To develop competence among students so that they can identify and apply criminology with appropriate research and evidence on relevant situations |
| Penology, Victimology and correctional Institutions | | CLO-1 | To introduce students to the concepts of penology, victimology and the philosophy guiding the correctional institutions; how these principles guide and interplay with the criminal justice system. |
| | | CLO-2 | To introduce students to the diversity of opinion on how crime and offenders should be tackled/handles/treated. |
| Offences Against Child & Juvenile Offence | | CLO-1 | To understand and appreciate the social science behind children being a vulnerable group in need special protection. |
| | | CLO-2 | To critically evaluate the concept of juvenile justice (child in conflict with law and child in need of care and protection) and the normative framework surrounding it in India and other jurisdictions. |
| | | CLO-3 | To develop an analytical understanding of the concepts of Protection of Children from Sexual Offences, adversarial system vis a vis the rights of a sexual offender, victim-oriented approach in India and other jurisdictions. |
| | | CLO-4 | To understand and appreciate the social science behind children being a vulnerable group in need special protection. To critically evaluate the concept of juvenile justice (child in conflict with law and child in need of care and protection) and the normative framework surrounding it in India and of India and other jurisdictions. To critically examine the role of various stakeholders under the Protection of Children from Sexual Offences Act, 2012. |
| White collar Crime & Financial and Systematic fraud | | CLO-1 | To develop the ability to interpret provisions of statutory laws/rules concerning women and crime. |
| | | CLO-2 | To develop the ability to compare statutory provisions and theories of regarding women, gender and crime. |
| | | CLO-3 | To apply legal provisions, rules, principles and procedures and conduct legal research to find solution to complex legal problem of increasing crimes against women. |
| | | CLO-4 | To inculcate an inter-disciplinary understanding of gender-based crimes and economics and social behavioral sciences. |
| Comparative Constitution | | CLO-1 | The students will be able to understand the difference between various types of constitutions and types of states |



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| | | CLO-2 | The students will be able to critically analyse and understand the amending processes under different constitutions |
| | | CLO-4 | The students will be able to analyse and comprehend the law making process in different types of constitutions; to discern the extent of judicial powers under different constitutions. |
| Affirmative Action and Discriminative Justice | | CLO-1 | The students will be able to critically analyse and understand the amending processes under different constitutions |
| | | CLO-2 | To Critically analyse, interconnect issues and provide suggestions for effective implementation of constitution Law & constitutionalism with society centric studies. |
| | | CLO-3 | To Analyse the interconnection of Affirmative Action and Discriminative Justice in ensuring the rule of law in our country |
| Citizenship and Immigration Law | | CLO-1 | To acquire the ability to think in moral, ethical and legal terms about citizenship, integration of immigrants, irregular migrants and admission of refugees. |
| | | CLO-2 | To understand how world events alter predominant views on matters of citizenship and immigration. |
| | | CLO-3 | To critically analyse and understand the relationship between citizenship and immigration via legal provisions and important case law. |
| Gender Justice and Feminist Jurisprudence | | CLO-1 | To gain knowledge about the interface between Gender and Sex |
| | | CLO-2 | To examine the causes of discrimination against a specific gender |
| | | CLO-3 | To critically assess how the laws and regulations in India assist in the process of gender justice |
| | | CLO-4 | To interpret judgments from the perspective of feminism |
| Meta Skills, ICT & Practical Training (Clinical) | | CLO-1 | Understand and analyze job search and interview process. |
| | | CLO-2 | Learn about preparing appropriate resume reflecting their skills |
| | | CLO-3 | Acquire, analyze and practice effective communication and office etiquette |
| | | CLO-4 | Demonstrate and apply professional skills like networking, time management, teamwork and interpersonal communication. |
| | | CLO-5 | Evaluate various principles of legal professional ethics and apply them in practice and client communication. |
| | | CLO-6 | Learn and understand about case law research using various technologies and apply citations in legal drafting. |
| X | Special contracts in Business | CLO-1 | Acquire the understanding to identify the kind of contract to be used depending on the commercial transaction to be entered into |

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| | CLO-2 | Appreciate and learn the basics of drafting a good contract and understanding the requirement of certain content in certain clauses |
| | CLO-3 | Gain knowledge of the process of initiating, negotiating and executing commercial contracts in Business through simulating exercises in class |
| | CLO-4 | Develop attitude to identify the clauses that require various degrees of negotiation in order to protect the interest of business and attain the skillset to convey them in lucid writing through contracts. |
| Competition Law | CLO-1 | The students will be able to understand substantive and procedural provisions of the competition Law |
| | CLO-2 | Students will be equipped with knowledge of various strategy followed by companies while promoting & doing business to attract consumers and effect of such strategy through the lens of competition law compliances |
| | CLO-3 | The Students will be enabled to critically analyze the business practices from a competition law perspective. |
| Direct Taxation with respect to Business | CLO-1 | Identify permissible and restriction inter-head and inter-source adjustment and comprehend the conditions to be satisfied for carry forward of losses under different heads. |
| | CLO-2 | Apply the provisions governing deduction of tax at source from certain income and payments and analyse whether the tax is deductible at source in particular case considering provision of relevant section. |
| | CLO-3 | Develop a comprehensive understanding of transfer pricing principles, Anti Avoidance Rules and recent trends of international taxation through cases and commentaries |
| Foreign Direct Trade & Investment | CLO-1 | To develop understanding and acquire application-oriented knowledge relating to FERA and FEMA along with entry and exit option of FERA and FEMA |
| | CLO-2 | To undertake empirical research by using different statistical data available through Banks, NBFC's, financial institutions and the regulator to determine the Flow of FDI from different acts. |
| | CLO-3 | To be able to have a an understanding of FDI Policy and integrate functional acts and its implementation in the Law. |
| | CLO-4 | To be able to analyze the consolidated FDI policy with its strategies, interconnect issues and provide suggestions for effective implementation of laws with allied subjects. |
| Copyright | CLO-1 | Understand the subject matter of copyright along with the rights available to the owners of copyright holder. |
| | CLO-2 | Comprehend the concept of licensing and assignment of copyrighted work |

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| | CLO-3 | Dissect the relationship of copyright with Internet |
| | CLO-4 | Scrutinize the provision of Fair dealing and understand the balance of creator and user of the work. |
| IPR in Pharma Industry | CLO-1 | To apply intellectual property law provisions (Patents, copyrights and Trademarks) to conduct research in order to find solutions to IP and Pharmaceutical related problems |
| | CLO-2 | To reflect an understanding of Intellectual Property and its substantial interconnections with fields of Pharma |
| | CLO-3 | To develop strategies, interconnect issues and provide suggestions for effective implementation of IP laws relating to pharma with right to health, accessibility, human rights, policy and administration. |
| IPR Litigation | CLO-1 | Apply intellectual property law provisions to conduct research in order to find solutions to IP and its dispute/ litigation related problems |
| | CLO-2 | Identify and implement ethical approaches to independent legal thinking under IP laws |
| Other forms of IPR creation and registration | CLO-1 | Evaluate the concept and meaning of Traditional Cultural Expression |
| | CLO-2 | Understand and analyze the subject matter of Layout Designs (Topographies) of Integrated Circuits |
| | CLO-3 | Explore the nuances of confidential Information and Trade secrets |
| | CLO-4 | Analyze Folklore and its interface with Intellectual Property Laws |
| Civil Society and Public Grievance | CLO-1 | Understand concept and historical evolution of Civil Society and Public Grievance Redressal System |
| | CLO-2 | Analyze the concept and understanding of different states and societies to have a comparative worldview |
| | CLO-3 | Reflect over the functioning of institutions of Civil Society and Public Grievance and suggest viable policy alternatives |
| Law of Preventive Detention and Externment | CLO-1 | The student will be able to comprehend the need for preventive detention and externment to further the police powers of the State. |
| | CLO-2 | Will be able to understand the provisions of the various preventive detention statutes and their application by the law enforcing authorities. |

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| | | CLO-3 | comprehend safeguards provided in the statutes to prevent the misuse of the various preventive detention statutes by the Executive for extraneous reasons. |
| | | CLO-4 | Will be able to understand the methods of challenging detention and externment orders, taking recourse to judicial precedents. |
| Health Law | CLO-1 | Understand the national and international legal frameworks governing healthcare systems and public health policies. | |
| | CLO-2 | Analyze key issues related to patient rights, medical ethics, and the legal obligations of healthcare providers. | |
| | CLO-3 | Evaluate the intersection of law and public health, including the role of policy in addressing health disparities and emergencies. | |
| | CLO-4 | Explore upcoming challenges and innovations in health law, such as digital health, telemedicine, and biotechnology. | |
| Legislative Drafting | CLO-1 | To Identify and apply principles and techniques of legislative drafting effectively in a practical setting. | |
| | CLO-2 | To Appreciate and understand the process of legislation in a parliamentary system, various participants and factors that influence the legislative process. | |
| | CLO-3 | To Understand the structure and arrangement of legislations, standard drafting conventions, and stylistic devices in the drafting of legislations. | |
| | CLO-4 | To appreciate the importance of language in legislation for social reform and empowerment of marginalized sections in society. | |
| Comparative Criminal Procedure | CLO-1 | To enable the students to apply relevant provisions of laws related to white collar crime such as PCA, PML and Benami Transaction Act and judicial decisions in understanding the Nature and extent of white collar crimes (PLO1a) | |
| | CLO-2 | To ensure that the students are able to demonstrate ability to compare statutory provisions & legal theories of different jurisdictions(PLO1b) | |
| | CLO-3 | To exhibit application-oriented knowledge of the rules, regulations, Notifications and Circulars issued by Regulators from time to time to understand the development of contemporary collar crime(PLO2a) | |
| | CLO-4 | To Identify the concerns and consequences of unethical practices by key players in implementing effective governance in the corporate sector in India(PLO4b) | |
| Women & Criminal Law | CLO-1 | To develop the ability to interpret provisions of statutory laws/ rules concerning women and crime. | |

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| | | CLO-2 | To develop the ability to compare statutory provisions and theories of regarding women, gender and crime. |
| | | CLO-3 | To apply legal provisions, rules, principles and procedures and conduct legal research to find solution to complex legal problem of increasing crimes against women. |
| | | CLO-4 | To inculcate an inter-disciplinary understanding of gender-based crimes and economics and social behavioral sciences. |
| International Criminal Law | | CLO-1 | Have gained knowledge on the fundamentals of International Criminal Law |
| | | CLO-2 | Have gained knowledge on the most problematic issues of International Criminal Law concerning international criminal justice and individual criminal responsibility |
| | | CLO-3 | Be able to analyse the facts of a case with the application of legal norms and case law |
| | | CLO-4 | Be able to identify the influence of various legal systems on International Criminal Law and its evolution |
| IT Offences | | CLO-1 | Understanding the challenges posed by the Internet, and information and communications technology. |
| | | CLO-2 | Understanding and appreciating the fundamental principles of law that impact upon regulation in an information society with particular reference to the offences enlisted in Information Technology Act, 2000 and 2008 and other latest amendments. |
| | | CLO-3 | To identify and understand the problems arising out of online transactions and provoke them to find solutions. |
| | | CLO-4 | To encourage a critical understanding of the features of Information Technology law with particular emphasis on regulation of Internet content, cybercrime, privacy and security. |
| Mediation & conciliation Law & Practice (Clinical) | | CLO-1 | Gain mediation skills and its' application in the legal profession |
| | | CLO-2 | conduct effective mediation |
| | | CLO-3 | Understand the scope of Mediation including Role of Mediation in other ADR Domains. |

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