NAME OF DEPARTMENT: Department of Design

1. Subject Code: IDN-503 Course Title: Design Thinking

2. Contact Hours: L: 1 T: 0 P: 4

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

4. Relative Weightage: CWS: 10-25 PRS: 25 MTE: 15-25 'ETE: 0 PRE: 30-40

5. Credits: 3 6. Semester: Autumn 7. Subject Area: PCC

**8.** Pre-requisite: Nil

**9. Objective:** To develop courage amongst young designers to think and design creatively in order to develop innovative products based on user's need.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Design Thinking: Introduction, key concepts, terminologies.	2
2.	Process of Design Thinking: Steps involved and applications.	2
3.	Empathy: Role of empathy, process of empathizing people, user interviews.	2
4.	Define: Methods for identifying challenges and designer's point of view.	2
5.	Ideate: Elements and thinking modes, ideation techniques.	2
6.	Prototype: Types of prototypes, methods and techniques for prototyping.	2
7.	Testing: Feedback from users, getting honest feedback, improving design.	2
	Total	14

### **Studio/Project Work:**

The practical work will include design studio workshops leading to ideation and brainstorming. The innovative design thinking strategies will be employed to create a habit of inquisitiveness among the students. The process of conducting user interviews leading to identification of needs and recording of the information in standard templates will be undertaken. The user defined needs will be analyzed and product concepts leading to the first form of prototypes will be the major deliverable of the course.

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Tim Brown, 'Change by Design: How Design Thinking Transforms	2009
	Organizations and Inspires Innovation' Harper Business	
2.	Roger L. Martin, 'The Design of Business: Why Design Thinking	2009
	is the Next Competitive Advantage' Harvard Business Review Press	
3.	Tom Kelley, Jonathan Littman, Tom Peters 'The Art of	2001
	Innovation: Lessons in Creativity from IDEO, America's Leading	
	Design Firm' Broadway Business	

4.	John Christopher Jones, "Design Methods-Seeds of Human Future"	2008
	John Wiley and Sons.	
5.	Thomas T. Woodson, "Introduction to Engineering Design" McGraw-	2001
	Hill.	

NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-503 Course Title: Effective Communication

2. Contact Hours: L: 1 T: 1 P: 0

3. Examination Duration (Hrs.): Theory: 0 Practical: 2

4. Relative Weightage: CWS: 20-35 PRS: 20-30 MTE: 0 ETE: 0 PRE: 40-50

5. Credits: 2 6. Semester: Autumn 7. Subject Area: PCC

**8.** Pre-requisite: Nil

9. Objective: The course emphasis on effective use of communication for innovation.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Understanding Communication Styles: Introduction to Communication, Types of	2
	communications, Passive Communication, Aggressive Communication, Passive-	
	Aggressive Communication, Assertive Communication	
2.	Communicating in Writing: Using Written Communication, Pros and Cons of	2
	Written Communication, Tips for Avoiding Misunderstandings in Written	
	Communication, The Importance of Good Conversational Skills, Active Listening,	
	Be an Engaging Speaker	
3.	Communications Technology: Modern Technologies, Benefits of Communications	2
	Technology, Drawbacks of Communications Technology	
4.	Cultural Aspects of Communication: Introduction to culture, Working in a Global	2
	Community	
5.	Disagreements and Conflicts: Nature of conflict, Avoiding Conflict, Fostering	3
	Healthy Conflict, Conflict Resolution, Negotiation, Compromise, Constructive	
	Criticism: The Critic-Recipient Relationship, Personal Criticism, Offering	
	Criticism, Receiving Criticism	
6.	Design related Communication: Proof of Concept Writing, Drafting Patents and	3
	related case studies for best practice	
	Total	14

### **List of suggested Practical:**

- 1. Active listening skill based exercises
- **2.** Exercises on describing design/innovation
- 3. Exercises on creating effective atmosphere for conflict resolution
- 4. Creative Problem solving technique exercises such as Six Thinking hats
- **5.** Brainstorming session based exercises
- **6.** Exercises on negotiation

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Effective Business Communication by Herta Murphy, Herbert	2017
	Hildebrandt, Jane Thomas	
2.	Effective Communication by John Adair	2009
3.	Corporate Communication, <b>Paul</b> A. Argenti, Tata Mgraw Hill, 6 <sup>th</sup>	2013
	Edition	
4.	Business Communication: Connecting at Work, Hory Shankar	2013
	Mukherjee, Oxford University Press,	

NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-505 Course Title: Business Valuation

2. Contact Hours: L: 2 T: 1 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

4. Relative Weightage: CWS: 20-35 PRS: 0 MTE: 20-30 ETE: 40-50 PRE: 0

5. Credits: 3 6. Semester: Autumn 7. Subject Area: PCC

**8.** Pre-requisite: Nil

9. Objective: The course is designed to provide in-depth knowledge of Business Valuation.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Introduction to Business Valuation Process: Concept of Value, Principles &	6
	Techniques of Valuation, Discounted Cash Flow Valuation, Relative Valuation,	
	Contingent claim Valuation, Asset Valuation, Related concepts in Business valuation	
2.	Discounted Cash flow Valuation.: Estimating Discount Rates, Measuring Cash	5
	Flows, Forecasting Cash Flows, Equity Discounted Cash Flow Models, Firm	
	Valuation Models.	
3.	Relative Valuation: Relative Valuation: First Principles, Equity Multiples, Value	4
	Multiples.	
4.	Loose Ends in Valuation: Cash, Cross Holdings and Other Assets, Employee	7
	Equity Options and Compensation, The Value of Intangibles, The Value of Control,	
	The Value of Liquidity, The Value of Synergy, The Value of Transparency, The	
	Cost of Distress.	
5.	Contemporary Issues: Valuation of Synergy in mergers and acquisitions,	6
	valuation of companies using multiplier methods, some miscellaneous topics in	
	valuation	
	Total	28

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Damodaran on Valuation: Security Analysis for Investment and	2006
	Corporate Finance: Aswath Damodaran by Wiley.	
2.	Business Analysis and Valuation: Using Financial Statements, Text	2007
	and Cases: Krishna G. Palepu/Paul M. Healy by Cengage	
3.	Investment Valuation: Tools and Techniques for Determining the	2012
	Value of Any Asset: Aswath Damodaran by Wiley.	

4.	Financial Engineering: John F Marshall and Vipul K. Bansal by PHI New Delhi.	2009
5.	Investments: Bodie, Kane, Marcus and Mohanty by Tata McGraw Hill.	2015
6.	Business Valuation Text & Cases, Mohanty P., Taxman	2015

NAME OF DEPARTMENT: Department of Design

1. Subject Code: IMN-507 Course Title: Innovative Entrepreneurship Strategies

2. Contact Hours: L: 2 T: 0 P: 2

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

4. Relative Weightage: CWS: 10-25 PRS: 25 MTE: 15-25 ETE: 30-40 PRE: 0

5. Credits: 3 6. Semester: Autumn 7. Subject Area: PCC

**8. Pre-requisite:** Nil

**9. Objective:** To provide knowledge of different innovative strategies for Entrepreneurship including innovative business models.

#### 10. Details of the Course

S.No.	Contents	Contact hours
1.	Entrepreneurship: Meaning and Importance, Evolution of term 'Entrepreneurship,	5
1.	Factors influencing entrepreneurship, Psychological factors, Social factors,	
	Economic factor, Environmental factors, Characteristics of an entrepreneur,	
	Entrepreneur and Entrepreneur, Barriers to entrepreneurship.	
2.	Entrepreneurial Motivation: Motivation, Maslow's theory, Herjburg's theory,	4
	McGragor's Theory, McClelland's Need - Achievement Theory, Culture &	
	Society, Values / Ethics, Risk taking behavior.	
3.	Types of entrepreneur: According to Type of Business, According to Use of	5
	Technology, According to Motivation, According to Growth, According to Stages,	
	New generations of entrepreneurship viz. social entrepreneurship, Edupreneurship,	
	Health entrepreneurship, Tourism entrepreneurship, Women entrepreneurship etc.	
4.	Social Entrepreneurship: Cases related to entrepreneurship in the field of	4
	disability, AIDS, bottom of pyramid	
5.	Organization Assistance: Incubation and Mentorship, Accelerators, Financing	4
	business	
6.	Business Model: Innovation in business models, Data driven business models,	6
	Fintech, Use of AI, ML etc in new business models. Use of relevant case studies	
	Total	28

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Entrepreneurship Development and Small Business Enterprises:	2018
	Charantimath Poornima M. by Pearson	
2.	Transnational Entrepreneurship: Issues of SME Internationalization	2019
	in the Indian Context (Entrepreneurship and Development in South	

	Asia: Longitudinal Narratives): Mathew J. Manimala, Kishinchand	
	Poornima Wasdani, Abhishek Vijaygopal by Springer	
3.	Innovation and Entrepreneurship: Peter F. Drucker by Harper	2006
	Business	
4.	How to Change the World Social Entrepreneurs and the Power of New	2007
	Ideas: David Bornstein by Oxford University Press	

## NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-509 Course Title: Legal Aspects of Business

2. Contact Hours: L: 2 T: 0 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

4. Relative Weightage: CWS: 20-35 PRS: 0 MTE: 20-30 ETE: 40-50 PRE: 0

5. Credits: 2 6. Semester: Autumn 7. Subject Area: PCC

**8.** Pre-requisite: Nil

**9. Objective:** To provide knowledge of various laws related to business and also various standards needed for business.

S.No.	Contents	Contact
		hours
1.	Introduction to Business Law: Introduction, Meaning and Nature of Law, Sources	4
	of Indian Law, Legal Environment of Business, Mercantile Law, Some Basic	
	Legal Concepts, Essentials of Law.	
2.	Law of contract -Introduction, Objectives, Definition of a Valid Contract, Offer	4
	and Acceptance, Capacity to Contract, Consent Consideration, Performance of	
	Contracts, Discharge of Contracts, Breach of Contract and Void Agreements,	
	Quasi Contracts, Freedom to Contract.	
3.	Contract of Agency - Introduction, Agent and Agency, Kinds of Agencies,	4
	Classification of Agents, Duties and Rights of Agents, Principal's Duties to the	
	Agent and his Liability to Third Parties, Personal Liability of Agent,	
	Termination of Agency, Power of Attorney	
4.	Law of Partnership: Introduction, Meaning and Nature of Partnerships, Registration	4
	of Firms, Partnership Deed, Relations of Partners to One Another, Relations of	
	Partners to Third Parties, Changes in a Firm, Dissolution	
5.	The Company's Act: Introduction, Formation of a Company, Memorandum of	4
	Association, Articles of Association, Prospectus, Shares, Directors, General	
	Meetings and Proceedings, Auditor, Winding up.	
6.	Regulation to Information- Introduction, Right to Information Act, 2005,	3
	Information Technology Act, 2000, Electronic Governance, Secure Electronic	
	Records and Digital Signatures, Digital Signature Certificates, Cyber Regulations	
	Appellate Tribunal, Offences, Limitations of the Information Technology Act,	
	2000	
7.	Different standards - Environment Standards, ISO9000, ISO 14000, ISO22000,	5
	Good Manufacturing Practices, Good Agriculture Practice	
	Total	28

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Daniel A., Legal Aspects of Business, Oxford University Press	2015
2.	Pathak A., Legal aspects of Business, McGraw Hill	2018
3.	Gupta P., Legal Aspects of Business Concepts and Applications, Vikas	2019
	Publishing	
4.	Kumar R., Legal Aspects of Business, Cengage	2016

# NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-511 Course Title: Business Decision Making

2. Contact Hours: L: 3 T: 0 P: 0

3. Examination Duration (Hrs.): Theory: 3 Practical: 0

4. Relative Weightage: CWS: 20-35 PRS: 0 MTE: 20-30 ETE: 40-50 PRE: 0

5. Credits: 3 6. Semester: Autumn 7. Subject Area: PCC

**8.** Pre-requisite: Nil

**9. Objective:** The course is designed to provide in-depth knowledge of techniques used in decision making.

S.No.	Contents		
		hours	
1.	Decision Making- Introduction, Problem Solving and Decision Making, Decision	6	
	processes: Descriptive and Prescriptive orientation, Decision Making Tools and		
	Models, Quantitative and Qualitative Methods in Practice		
	Probability- Introduction, Experiments and the Sample Space, Assigning		
	Probabilities to Experimental Outcomes, Events and Their Probabilities, Some		
	Basic Relationships of Probability, Bayes' Theorem, Probability Distributions,		
	Random Variables, Discrete Probability Distributions, Uniform Probability		
	Distribution, Normal Probability Distribution		
2.	Decision Analysis- Problem Formulation, Decision Making with/without	6	
	Probabilities, Decision Analysis with Sample Information, Computing Branch		
	Probabilities		
	Utility-The Meaning, Utility and Decision Making, Utility: Other Considerations		
3.	Forecasting Methods and Techniques- Quantitative Approaches, Components of	6	
	a Time Series, Smoothing Methods, Trend Projection, Trend and Seasonal		
	Components) Qualitative Approaches (Group Decision Techniques), Delphi		
	Approach and Survey. Focus Group. Brain Storming/Scenario Writing, Nominal		
	Group Think and Kiva Approach		
4.	Linear Programming- Introduction, Problem Formulation, A Simple	8	
	Maximization Problem, Graphical Solution Procedure, Extreme Points and the		
	Optimal Solution, Computer Solutions, A Simple Minimization Problem		
	Sensitivity Analysis- Interpretation of Solution, Introduction to Sensitivity		
	Analysis Objective Function Coefficients, Right-Hand Sides, Graphical Sensitivity		
	Analysis, Computer Solution, Simultaneous Changes		
5.	Applications of LP- Marketing and Financial Applications, Operations	5	
	Management Applications, Distribution and Network Models, Transportation		
	Problem, AssignmentProblem, Production and Inventory Application	_	
6.	Integer Programming- Types & Models, Graphical and Computer Solutions for an	5	

	All-Integer Linear Program, Applications.	
7.	Simulation Simulation Modeling & Applications, Advantages and	3
	Disadvantages of Using Simulation	
8.	8. Project Scheduling: PERT/CPM Project Scheduling with Known Activity Times	
(project management techniques) Considering Time-Cost Trade-Offs		
Total		

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Quantitative Methods for Business by Anderson, Sweeney,	2010
	Williams, Camm, Martin. South-Western Cengage Learning.	
2.	Introduction to Operations Research by F S Hillier, G J Lieberman	2017
	B Nag and P Base, 10 <sup>th</sup> Edition, McGraw Hill.	
3.	<b>Operations Research: An Introduction</b> by H A Taha 9 <sup>th</sup> Edition Pearson	2014
4.	Statistics for Management by RI Levin, David Rubin, M.H.Siddiqui	2017
	and Sanjay Rastogi 8 <sup>th</sup> Edition, Pearson	

## NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-513 Course Title: Contemporary Management Practices

2. Contact Hours: L: 2 T: 0 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

4. Relative Weightage: CWS: 20-35 PRS: 0 MTE: 20-30 ETE: 40-50 PRE: 0

5. Credits: 2 6. Semester: Autumn 7. Subject Area: PCC

**8.** Pre-requisite: Nil

**9. Objective:** The course is designed to familiarize the students with basic management concepts and behavioral processes in the organization.

S.No.	Contents	Contact hours
1.	Concepts of Management: Nature, Meaning, and Significance of Management,	5
	Managerial functions, Principles of Management, Managers V/s Entrepreneurs-	
	Managers V/s Leaders- Guidelines for Managerial Excellence and success.	
	Evolution of Management Thoughts-Traditional, Behavioral, Systems, Contingency	
	and Quality viewpoints.	
2.	<b>Planning:</b> Nature & Elements of Planning, Planning types and Models, Planningin	4
	learning organizations; Strategic Planning-an overview; Management by	
	Objectives (MBO), SWOT Analysis	
3.	Organizing and Staffing: Nature of Organizing, Basic issues in organizing- Work	4
	Specialization, chain of common Delegation, Staffing Decisions- Authority and	
	Responsibility Relationships, Decision Making Process, Models of Decision	
	Making.	
4.	<b>Directing and Controlling:</b> Nature of Evaluation Design and Problems-	4
	Appraising Techniques- Developing Compensation Plans, Direction, Co-	
	ordination, Quantitative and Qualitative measures of Control, Feed-back	
	Management. System and Process of Controlling, Control techniques and	
	information technology.	
5.	Fortune at Bottom of Pyramid: Issues for entrepreneurial opportunities of BoP	3
6.	Ethical Issues in Management: Corporate Social Responsibility of Business,	4
	Corporate Governance	
7.	New Trends in Management: case studies on latest management practices	4
	Total	28

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Essentials of Management by Harold Koontz, Cyril O'Donnell.	1974
	McGraw Hill.	
2.	Essentials of Management: An International and Leadership	2008
	Perspective by Harold Koontz, Heinz Weihrich, McGraw Hill	
3.	The Process of Management: Strategy, Action, Results by William	1987
	H. Newman, E. Kirby Warren & Andrew R. McGill. Prentice Hall	
	International	
4.	Prahalad, C.K., "Fortune at the Bottom of the Pyramid: Eradicating	2013
	Poverty Through Profits", Pearson	
5.	Udai Parek. & Sushama Khanna, Understanding Organizational	2018
	Behavior, Oxford University Press 4 <sup>th</sup> Edition	

## NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-502 Course Title: Technology Management

2. Contact Hours: L: 2 T: 0 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

**4. Relative Weightage: CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0

5. Credits: 2 6. Semester: Spring 7. Subject Area: PCC

**8. Pre-requisite:** Nil

9. Objective: To develop an integrative approach to technology management through the entire life cycle.

### 10. Details of the Course

S.No.	Contents	Contact	
		hours	
1.	Process and Perspectives of Technology Management, Technology Management	3	
	Process	3	
2.	Scanning, Acquisition, Assimilation, Absorption, Business Strategy and	5	
	Technology Strategy. Adaptation, Critical Factors in Managing Technology and	3	
	Improvement and Planning		
3.	Technology Life Cycle and Forecasting, Technology Transfer, Technology		
	Development: Management of R&D Product Design and Development;	5	
	Commercialisation of R&D R&D-Manufacturing-Marketing Interface; R&D	3	
	Project Management		
4.	Technology Development and Competitiveness, Technology and Business Strategy	3	
5.	Technology Innovation and Creative Transformation in the Knowledge Age:	3	
	Critical Trajectories	3	
6.	Technology Entrepreneurship	4	
7.	IPR, Patenting, Technology Role of Government; International Protocols; Treaties;	5	
	Standards; International Comparisons of Technology Management	J	
	Total	28	

S.No.	Name of Authors/Book/Publisher	Year of
		Publication / Reprint
1.	Tarek Khalil, Management of Technology: The Key to	2009
	Competitiveness and wealth Creation, Tata McGraw-Hill: New Delhi.	
2.	Stephan Leman Janglois, Techno crime: Technology, Crime and	2008
	Social Control, Willan Publishing 1st edition	
3.	Hashem Sherif & Tarek Khalil, New Direction in Technology	2007
	Management, Elsevier Publisher, 1 <sup>st</sup> edition	
4.	Hans J. Thamhain, Management of Technology: Managing Effectively	2005
	in Technology Intensive Organisations, John Wiley & Sons., 2 <sup>nd</sup>	
	Edition	
5.	Robert C. Megantz, Technology Management: Developing and	2002
	Implementing Effective Licensing Programs, John Wiley & Sons 1st	
	Edition.	

# NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-504 Course Title: Contemporary Strategic Management

2. Contact Hours: L: 3 T: 0 P: 0

3. Examination Duration (Hrs.): Theory: 3 Practical: 0

**4. Relative Weightage: CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0

5. Credits: 3 6. Semester: Spring 7. Subject Area: PCC

**8. Pre-requisite:** Nil

**9. Objective:** To impart knowledge for developing long range strategic plans for any organization.

S.No.	Contents	Contact hours
1.	Conceptual foundation of strategy and evolution of strategic management, Vision and mission analysis, goals, values performance, objectives, policies and business model	4
2.	Industry Analysis, Environmental scanning, Internal firm environment (RO Model and Industry Model), and External environment, analyzing, Resources and Capabilities	4
3.	Internal and External perspective of Value Chains with reference to Industry Analysis Strategy and Value Creation in Traditional Industries Objective	4
4.	Strategic actions and Strategy Formulation, Process in Strategy Formulation Business Level strategy, Types of strategies	6
5.	Corporate level strategy, diversification, levels of diversification, International Strategy, Cooperative strategies, collusion, strategic alliances, joint ventures, mergers and acquisitions and the process of due diligence, corporate strategy, growth strategies, stability strategies downsizing strategies	6
6.	Blue Ocean Strategy, Value Innovation, and comparison to "red ocean" strategies; 3 tiers of non-customers, Strategy Canvas; Fortune at the bottom of pyramid capability approach.	4
7.	Sustainability, sustainable business practices, Corporate social responsibility, Ethics, values and business, ethics as a strategy. Designing and Creating Black Swans-Future and the Strategic Leadership, corporate governance.	6
8.	Organizational Structure and Controls, Strategy Implementation and its Stages, Reasons for Strategy Failure and Methods to Overcome, Strategic monitoring evaluation process, criteria and methods, strategic control process, types	8
	Total	42

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Grant, Robert M., "Contemporary Strategy Analysis: Concepts,	2010
	Techniques, Applications", 7th Edition. John Wiley & Sons	
2.	Hitt, Ireland & Hoskisson, "Strategic Management", Cengage	2016
	Learning	
3.	Thompson, A.J., Peteraf, M., Gamble, J. and Strickland, A., "Crafting	2017
	& Executing Strategy: The Quest for Competitive Advantage:	
	Concepts and Cases", 21st Ed., McGraw-Hill Higher Education	
4.	Kim, W.C. and Mauborgne, R.A., "The Blue Ocean Strategy: How to	2015
	Create Uncontested Market Space and Make the Competition	
	Irrelevant", Harvard Business Press	
5.	Thomson & Strickland "Crafting and Executing Strategy: The quest	2017
	for Competitive Advantage", Tata McGraw – Hill	

NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-506 Course Title: Intellectual Property Management

2. Contact Hours: L: 2 T: 1 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

**4. Relative Weightage: CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0

5. Credits: 3 6. Semester: Spring 7. Subject Area: PCC

**8. Pre-requisite:** Nil

**9. Objective:** To impart knowledge about managing various IPs such as patents, copyrights and designs etc.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Intellectual Property Management. Market Capitalization, Intellectual Capital (IC),	4
	Components of Intellectual Capital, Tangible and Intangible Assets of Firms	
2.	Corporate Strategy, and Profits, Relationship between Intellectual Capital and	6
	Intellectual Property, Knowledge Economy and the need for Intellectual Property	
	Management	
3.	Various Types of Intellectual Property trademarks, Copyrights, Patents, Trade	6
	Secrets, and Industrial Design	
4.	International IP Treaties/Agreements on IP Rights, Types of Patents, Patenting	6
	Advantage, Offensive and Defensive IP Strategies, Global Innovation Index's and	
	IP Management.	
5.	The Dynamics of Value Creation and Value Capture, Patent Mapping and relevant	6
	case studies	
	Total	28

S.No.	Name of Authors/Book/Publisher	Year of
		Publication / Reprint
1.	Marchant GE. Genomics, Ethics, and Intellectual Property. In	2007
	Intellectual Property Management in Health and Agricultural	
	Innovation: A Handbook of Best Practices (eds. A Krattiger, RT	
	Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis,	
	U.S.A.	
2.	Phillips, PWB. Governing Transformative Technological Innovation:	2007
	Who's in Charge? Edward Elgar: Oxford	
3.	Spielman DJ., Systems of Innovation: Models, Methods and Future	2006
	Directions. Innovation Strategy Today 2(1):55-66	
4.	WIPO, The Economics of Intellectual Property	2009
5.	OECD, Creating Value from Intellectual Assets, Policy Report	2007

NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-508 Course Title: Process Innovation Management

2. Contact Hours: L: 2 T: 0 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

**4. Relative Weightage: CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0

5. Credits: 2 6. Semester: Spring 7. Subject Area: PCC

**8. Pre-requisite:** Nil

9. Objective: The objective of this course is to build foundation on Process Innovation Management.

### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Innovation in process industries, Strategic process innovation, Multiple progression quality function deployment	7
2.	Lean process management, total quality management, EFQM excellence model.	7
3.	Business process re-engineering, the process hierarchy, common stages in BPR process	7
4.	Research models and definition, Incremental and radical innovation, Exploitation and exploration, Contrasting characteristics of TQM and BPR	7
	Total	28

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Thomas Lager, Managing process innovations: from idea generation to	2019
	implementations, Imperial college press	
2.	Tor Tonnessen, Managing Process Innovation through Exploitation	2013
	and Exploration, Springer	
3.	Daniel R. A. Schallmo, Leo Brecht, Bujar Ramosaj, Process	2018
	Innovation: Enabling Change by Technology, Springer	

# NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-510 Course Title: Product Innovation Management

2. Contact Hours: L: 2 T: 0 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

**4. Relative Weightage: CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0

5. Credits: 2 6. Semester: Spring 7. Subject Area: PCC

**8. Pre-requisite:** Nil

**9. Objective:** To impart knowledge in innovation, strategy, design, and the management of new products.

S.No.	Contents	Contact hours
1.	Overview of Product, Strategic Elements of Product Development, The Product Innovation Charter (PIC), New Product Portfolio, The New Products Process and its Phases, product development cycle.	3
2.	Opportunity Identification and Selection, Strategic Planning for New Products, Product Platform Planning, Concept Generation, Creativity and the Product Concept.	2
3.	Analytical Attribute Approaches, Perceptual Mapping, Analysing Product Attributes for Concept Generation and Evaluation, Gap Analysis, Trade-Off Analysis and Qualitative Techniques	4
4.	Concept/Project Evaluation, Product Line Considerations in Concept Evaluation, Planning the Evaluation System, The A-T-A-R Model, Product Innovation Charter, Concept Testing and Development	4
5.	Design, The Role of Design in the New Products Process, Product Architecture Prototype, The valley of Death	4
6.	Development, Development Team Management, Structuring the Team, building a Team, Managing the Team, Virtual Teams, Managing Globally Dispersed Teams, Product Use Testing, Pre-Use Sense Reactions, Early Use Experiences	4
7.	Strategic Launch Planning, Strategic Platform Decisions, Type of Demand Sought, Product Positioning Branding and Brand Management, packaging, Implementation of the Strategic Plan	3
8.	Launch management system, steps, knowledge creation, product failure, failure management, product issues, Business Attitudes toward Product Issues, product liability, planning for product recall	4
	Total	28

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Crawford, M. and Di Benedetto, A.," New products management",	2014
	McGraw Hill International	
2.	Trott, Paul. "Innovation Management & New Product Development",	2011
	Prentice Hall, Pearson	
3.	John Bessant, Joe Tidd, Keith Pavitt "Managing Innovation:	2013
	Integrating Technological, Market, and Organizational Change", John	
	Willey and Sons Ltd	
4.	Verganti, R, Design driven innovation: Changing the rule of	2009
	competition by radically innovating what things mean, Harvard	
	Business Press, Boston	
5.	Clayton M. Christensen "The Innovator's Dilemma When New	2015
	Technologies Cause Great Firms to Fail", Harvard Business Review	
	Press	

# NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-512 Course Title: Innovative Services and Business Models

**2.** Contact Hours: L: 3 T: 0 P: 0

3. Examination Duration (Hrs.): Theory: 3 Practical: 0

**4. Relative Weightage: CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0

5. Credits: 3 6. Semester: Spring 7. Subject Area: PCC

**8. Pre-requisite:** Nil

**9. Objective:** To enable students to identify, implement and evaluate innovative service offerings and business models.

S.No.	Contents	Contact
		hours
1.	Service Economy and Service Organizations, Role of services in manufacturing	4
	firms, recent trends in manufacturing	
2.	Developing a service strategy, service positioning and implications for service	3
	delivery design, degree of customer contact, divergence, customization; Service	
	blue printing	
3.	Product, Technology, Process and People-centric Services, Technical View of	5
	Services: Techniques for Service Analysis, Work System Method, Service Value	
	Networks	
4.	Business Models, Components of the business model, Business Model Canvas,	8
	Various types of Business Models, Generating New Business Model Ideas, Ideation	
	Process, Visual Thinking, Different Types of Visualization.	
5.	The value proposition, Elements of intangibles, Value creation through intellectual	8
	resources	
6.	Business Model Design Process Design Attitude five phases (Mobilize, Understand,	8
	Design, Implement, and Manage) Prototyping, Prototypes at Different Scales	
7.	Storytelling, Developing the Story, Making Business Models Tangible, Scenario-	2
	Guided Business Model Design	
8.	Evaluating business models, business model perspective on blue ocean strategy,	4
	blending the blue ocean strategy framework with the business model canvas	
	Managing multiple business models, Implementing Business Models in	
	Organizations, Aligning IT with Business	
	Total	42

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Schultz, M and Doerr, J., "Professional services Marketing", Wiley	2009
2.	Lovelock, C., and Wirtz, J, "Essentials of Services Marketing",	2008
	Pearson Education	2006
3.	Alexander Osterwalder and Yves Pigneur, "Business Model	
	Generation: A Handbook for Visionaries, Game Changers, and	2010
	Challengers", Wiley	
4.	Adam J. Bock and Gerard George "The Business Model Book:	
	Design, Build and Adapt Business Ideas that Drive Business Growth",	2017
	Pearson Education Limited	
5.	Raphael Amit and Christoph Zott, Business Model Innovation	
	Strategy: Transformational Concepts and Tools for Entrepreneurial	2020
	Leaders", Wiley	

## NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-514 Course Title: Financing and Marketing of Innovation

**2. Contact Hours:** L: 3 T: 0 P: 0

3. Examination Duration (Hrs.): Theory: 3 Practical: 0

**4. Relative Weightage: CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0

5. Credits: 3 6. Semester: Spring 7. Subject Area: PCC

**8. Pre-requisite:** Nil

9. Objective: To impart knowledge on financing and marketing innovation effectively.

### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Sources of finance for financing innovation: Venture capital, Angel investors,	8
	Private equity and crowd funding etc.	
2.	Framework of financing innovation, Financing innovation at different stages,	8
	Financing Innovation in Emerging Markets	
3.	Marketing of Innovation, Types of Innovations from Marketing Science Perspective	8
	and common characteristics of High-Technology Environment, Value creation	
	communication and delivery of Innovative Solutions.	
4.	Value Capture with Innovative Solutions, Partnerships and Strategic Alliances in	6
	New Product Development	
5.	Marketing Research and Innovations, Marketing mix for innovations	6
6.	Consumer Behaviour, Segmentation and Adoption Process, Strategic Market	6
	Planning in Innovative Firms	
	Total	42

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Lourdes Casanova, Peter Klaus Cornelius and Soumitra	2018
	Dutta, Financing Entrepreneurship and Innovation in Emerging	
	Markets' Academic Press.	
2.	Michael Kahn, Luiz Martins Melo, Marcelo G. P Matos 'Financing	2017
	Innovation-BRICS National Systems of Innovation', Routledge India.	
3.	Cooper, R. G. 'Winning at New Products: Creating Value Through	2017
	Innovation' New York: Basic Books, Fifth edition	
4.	Eleonora Pantano, Clara Bassano, Constantinos-Vasilios Priporas,	2019
	Technology, and Innovation for Marketing, Routledge	
5.	Peter Doyle, Susan Bridgewater, Innovation in Marketing, Routledge	1999

NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-521 Course Title: IP Portfolio Management

**2.** Contact Hours: L: 2 T: 1 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

**4. Relative Weightage: CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0

5. Credits: 3 6. Semester: Autumn 7. Subject Area: PEC

**8. Pre-requisite:** Nil

**9. Objective:** To impart knowledge how to manage portfolio of IP in an organization.

### 10. Details of the Course

S.No.	Contents	Contact hours
1.	Strategizing patent portfolio management: - Aligning IP strategy with R&D and business strategies, IP SWOT (strengths, weaknesses, opportunities and threats) analysis	4
2.	Budgeting and organizing patent portfolio management: - General cost-saving measures; centralization of patent renewals and translations; monitoring-based countermeasures, Generation of inventions; invention portal; invention disclosure form; submission of inventions, Screening; novelty search; review processes, Invention assessment.	6
3.	Patent filing strategies: - Priority filings: strategies, Further filings and country selection for patent granting strategies, ranking-based tiers strategies	6
4.	Ensuring quality and extracting value from the patent portfolio: - Criteria for a valuable patent portfolio, identifying valuable patents: strategies for patent portfolio review; inventor review questionnaires, third party product searches, Patent intelligence tools i.e. Derwent Innovation Software, Analyzing and confirming value of identified patents: ranking systems; claim charting, dynamically adapting prosecution to value: ranking and target-based prosecution.	6
5.	Pruning the patent portfolio: - Monthly/yearly pruning, Pruning Recommendation Tool: criteria, scores, recommendations, Understanding the logic of strategy maps and balanced scorecards for IP management	6
	Total	28

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Brant Jennifer and Lohse Sebastian, Enhancing Intellectual Property	2013
	Management and Appropriation by innovative SMEs, International	
	Chamber of Commerce	
2.	WIPO, Conceptual Study on Innovation, Intellectual Property and	2013
	Informal Economy	
3.	Ian Ellis and Kenan Patrick Jarboe, Intangible assets in capital	2010
	markets, Intellectual Asset Management	

NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-522 Course Title: Intellectual Value and Corporate Value Creation

**2.** Contact Hours: L: 2 T: 1 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

**4. Relative Weightage: CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0

5. Credits: 3 6. Semester: Autumn 7. Subject Area: PEC

**8. Pre-requisite:** Nil

9. Objective: To understand meaning of IP value, and how IP can contribute in corporate value creation.

### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Importance of IP for SMEs, Trademarks and Industrial Designs, Invention and	4
	Patent, Legal aspects of innovation & IP, Case study	
2.	Trade Secrets, Copyright, Trademark, and other forms of IP; their importance and	6
	relevance	
3.	Technology Licensing in a Strategic Partnership, IP Licensing, Technology transfer	6
	agreement	
4.	Role of IP in digital economy, IP for identifying the business components, How IP	6
	recognizes the business opponent's	
5.	IP: National & International Trade, Valuation of IP Assets, IP Issues in Franchising.	6
	Total	28

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	OECD "Creating Value from Intellectual Assets", Policy Report,,	2007
	http://www.oecd.org/science/inno/36701575.pdf	
2.	Zorina Kahn, IP Rights and Economic Development: A Historical	2007
	Perspective", WIPO Magazine	
3.	John Henshall (Deloitte & Touché LLP, London), Supply chain	2008
	restructuring: IP transfer pricing and taxation (four pages): BNA	
	International	
4.	Joshua S. Gans "The Value of IP Protection in Markets for Ideas"	2003
	Australian Intellectual Property Law Bulletin, Vol.16, No.6,	
5.	WIPO, Valuation of Intellectual Property: What How and Why	2003

# NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-523 Course Title: Licensing and Commercialization of IP

**2.** Contact Hours: L: 2 T: 1 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

4. Relative Weightage: CWS: 20-35 PRS: 0 MTE: 20-30 ETE: 40-50 PRE: 0

5. Credits: 3 6. Semester: Autumn 7. Subject Area: PEC

**8. Pre-requisite:** Nil

**9. Objective:** To impart knowledge about Licensing, Commercialization and Management of various Intellectual Properties such as patents, copyrights, trademarks, industrial designs geographical designs etc.

S.No.	Contents		
		hours	
1.	Intellectual Property (IP): Discoveries, Innovations and Inventions; Invention $v/s$	2	
	Innovation; Types of IP Rights; Single and Multiple IPR for a Product.		
2.	Patent IPs: Patentee, Inventor and Assignee; The Indian Patent Act (1970) as		
	Amended in 2005; Patentable Work and Not Patentable Work; Categories of		
	Inventions Not Patentable in India; Patenting in India, Patenting Outside India.		
3.	SEP: IPR and Standards and their Compliance, Standard Development	4	
	Organizations (SDOs) and their Role during and after Standardization; Standard and		
	Essential Patents (SEP), their interface, particularly with engineering and		
	technology; their preparation; the rights of owners and users of SEP		
4.	IP Law and Competition Law and its importance for information and	4	
	communication technology (ICT); Cases of anti-competitive behaviour by SEP		
	holder; FRAND its concept, significance and importance; FRAND licencing and its		
	applications with examples for Internet of Things (IoT), 5G and other technology		
5.	Agreements for IPs: Types of Agreements; Licensing Agreements; Non-Discloser	4	
	Agreements; Technology-Transfer Agreements; Joint Venture Agreements;		
	Franchising Agreements		
6.	Licenses for Various IPs: License and Compulsory License, Patent Licenses, Know-		
	How and Trade Secret Licenses, Trademark Licenses, Copyright Licenses; Time		
	duration to initiate licencing and strategies		
7.	Analysis for Commercialization of IP: Use or Lose IP!; Time duration to initiate	4	
	commercialization and strategies; Market Analysis, IP Audit, IP Valuation		
8.	Commercialization and Royalty on IP: Financing and Capital through IPR,		
	Branding, Advertising and Marketing; Commercializing IP; Royalty on IP.		
	Total	28	

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Stoianoff NP, Chilton F, Monotti AL, Giles K (Lawyer), Harris JR;	2019
	Commercialisation of Intellectual Property, Lexis Nexis Butterworths.	
2.	McManus, JP; Intellectual Property: From Creation to	2012
	Commercialisation; Oak Tree Press	
3.	Richard Raysman R, Pisacreta EA, Adler KA, Ostrow SH; Intellectual	2021
	Property Licensing: Forms and Analysis; Law Journal Press	
4.	Nikolic, Igor Licensing Standard Essential Patents, FRAND and the	2021
	Internet of Things; Zed Books	
5.	Petrovic, Urska Competition Law and Standard Essential Patents;	2014
	Kluwer Law International	

# NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-524 Course Title: Diffusion of Innovations in Social networks

**2.** Contact Hours: L: 2 T: 1 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

4. Relative Weightage: CWS: 20-35 PRS: 0 MTE: 20-30 ETE: 40-50 PRE: 0

5. Credits: 3 6. Semester: Both 7. Subject Area: PEC

**8. Pre-requisite:** Nil

**9. Objective:** To impart knowledge on use of social networks for innovation diffusion.

### 10. Details of the Course:

S.No.	. Contents		
		Hours	
1.	Introduction to social networks, types of networks: one mode networks, two mode		
	networks, ego centered and special dyadic networks		
2.	Innovation from a networked, ecosystem perspective	2	
3.	Strategic intelligence: the synergy of knowledge management, business	3	
	intelligence and competitive intelligence		
4.	The micro and the individual innovator, traits of innovator, role of shared language	3	
	in innovation, "T" professionals		
5.	Innovation and diffusion at the Meso level, participation of non-human actors in	4	
	innovation, Macro: innovation as renovated connections		
6.	Social networking analysis and its use, knowledge mapping using social network	4	
	analysis		
7.	Applying social networking for organizations, social network analysis for cross- generational knowledge flows	4	
8.	Communities, exploring the social in innovation networks, community and	4	
	spatially distributed production of knowledge, academic and vernacular		
	communities in an entrepreneurial region		
Total		28	

Name of Authors/Book/Publisher	Year of Publication / Reprint
Chandler J.D., Innovation, Social Network and Service Ecosystem:	2020
Managing Value in the Digital Economy, Palgrave Macmillan	
Cham	
Liebowitz J., Social Networking The essence of innovation,	2007
Scarecrow Press	
Rutten R., Benneworth P., Irawati D., Boekema F. (Ed.), The social	2014
dynamics of Innovation networks, Routledge	
Bittu Kumar, Social Networking, V&S publishers	2014
	Chandler J.D., Innovation, Social Network and Service Ecosystem: Managing Value in the Digital Economy, Palgrave Macmillan Cham Liebowitz J., Social Networking The essence of innovation, Scarecrow Press Rutten R., Benneworth P., Irawati D., Boekema F. (Ed.), The social dynamics of Innovation networks, Routledge

# NAME OF DEPARTMENT/CENTRE: Department of Design

1. Subject Code: IMN-525 Course Title: Design for Extreme Affordability

**2.** Contact Hours: L: 2 T: 1 P: 0

3. Examination Duration (Hrs.): Theory: 2 Practical: 0

**4. Relative Weightage: CWS:** 20-35 **PRS:** 0 **MTE:** 20-30 **ETE:** 40-50 **PRE:** 0

5. Credits: 3 6. Semester: Both 7. Subject Area: PEC

**8.** Pre-requisite: Nil

**9. Objective:** To provide an insight for innovating for low resource communities.

#### 10. Details of the Course:

S.No.	Contents	
		Hours
1.	Low resource communities especially poverty, bottom of the poverty, opportunity	3
	for innovators	
2.	The ecosystem for wealth creation through design and innovation	4
3.	Development of societies through innovation, freedom to access credit, innovation	4
	for income supplements and unemployment relief	
4.	Multidimensional poverty assessment, indicators and composite indices, the	6
	dominance approach, statistical approach, fuzzy set approach	
5.	Counting approach, definitions, origins and implementations, The Alkaire-Foster	5
	Counting Methodology	
6.	Development as social transformation, transaction governance capacity	3
7.	Discussion on popular cases related to connecting rural India to Global Markets,	3
	Retail for the Poor, Homes for the Poor etc.	
Total		28

S.No.	Name of Authors/Book/Publisher	Year of
		Publication / Reprint
1.	Prahalad, C.K., The Fortune at the Bottom of the Pyramid	2006
	Eradicating Poverty through Profits, Pearson	
2.	Sen, A., Development as Freedom, Oxford	2001
3.	Comin F., Qizilbash M., Alkire S. (Ed.) The Capability Approach:	2010
	Concepts, Measures and Applications, Cambridge	
4.	Alkire S., Foster J., Seth S., Santos M E., Roche J.M., Ballon P.,	2015
	Multidimensional Poverty Measurement and Analysis, Oxford	