# ACADEMIC AFFAIRS OFFICE INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

No. Acd./1296 /IAPC-108

Dated: September 63, 2021

# Head, Department of Management Studies

The IAPC in its 108<sup>th</sup> meeting held on 11.08.2021 vide Item No. 108.2.3 considered and approved the following proposals with minor modifications:

- 1. Syllabi of PECs for MBA term wise program (Appendix-A)
- 2. To replace/reword the title of the existing PECs (Appendix-B)

Assistant Registrar (Curriculum)

Encl: as above

### Copy to (through e mail):-

- 1. All faculty
- 2. Head of all Departments / Centres
- 3. Dean, Academic Affairs
- 4. Associate Dean of Academic Affairs (Curriculum)
- 5. Channel i/ Acad portal/ Academic webpage of iitr.ac.in

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-681 Course Title: Basics of Quantitative Finance

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5.** Credits: 1.5 **6.** Term: IV/ V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge of the contemporary mathematical framework for financial management.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Relevance of probabilistic concepts in financial markets, moments,	5
	conditional expectations, binomial distributions.	
2.	Normal distributions, attributes of lognormal distribution, relevance of	4
	lognormal distribution in financial modeling.	
3.	Markov processes and their relevance, convergence of random variables	3
4.	Random walk processes, Brownian motion	3
5.	Differentiation in stochastic environment, integration in stochastic	3
	environment, the Ito integral	
6.	Discrete time and continuous time martingales	3
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication</b> /
		Reprint
1.	Hull, J.C., "Options, Futures, and Other Derivatives", 7th Ed.,	2009
	Prentice Hall	
2.	Neftci, S.N., "Introduction to the Mathematics of Financial	2000
	Derivatives",2 <sup>nd</sup> Ed., Academic Press	
3.	Cerny, A., "Mathematical Techniques in Finance: Tools for	2009
	Incomplete Markets", 2 <sup>nd</sup> Ed., Princeton University Press	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-682 Course Title: Working Capital Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To acquaint the students with the lower part of the balance sheet and help them to understand the concepts of Short-term sources of funds and their uses.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Working capital management, meaning, concepts, classification and	2
	importance of working capital, objectives of working capital, factors	
	determining working capital requirements, working capital approaches.	
2.	Assessment and forecasting of working capital requirement, working capital	2
	financing, determining the working capital financing mix	
3.	Inventory management, purpose and benefits of holding inventory, risk and	3
	cost of holding inventory.	
4.	Receivables management, cost of maintaining receivables, factors	3
	influencing receivables, formation and execution of credit policy.	
5.	Management and nature of cash, motives of holding cash, cash management,	4
	managing cash flows, determining optimum cash balance, cash management	
	models, Investment of surplus funds.	
6.	Management of payables, meaning, objectives and dimensions of payables	3
	management.	
7.	Sources of working capital, new trends in financing of working capital by	4
	banks, Brief review of the recommendations of different committees on	
	working capital.	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Bhattacharya H, "Working Capital Management: Strategies	2016
	and Techniques", PHI Publishing, 4 <sup>th</sup> edition.	
2.	James.S.S., "Working Capital Management: Applications and	2016
	Case Studies" John Wiley & Sons, 6th edition.	
3.	Mathur S.B., "Working Capital Management & Control-	2019
	Principles and Applications", New Age International	
	Publishers, 2 <sup>nd</sup> edition.	
4.	James, O., "Cash and Working Capital Management: A Guide	2019
	to Understanding the Strategic role of Cash and Working	
	Capital Management in the Long - term Viability of an	
	Organisation, Kindle edition.	
5.	Brealy, Myers, Allen; "Principles of Corporate Finance",	2018
	McGraw Hill Education., 12 <sup>th</sup> Edition.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-683 Course Title: Security Analysis for Investment

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5.** Credits: 1.5 **6.** Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To provide a comprehensive view of Security Analysis for investment decisions.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Financial Market Operations: Market infrastructure (trading system	3
	design, short-selling, etc.), money markets and capital markets, instruments	
	and interest rates	
2.	Measures of Risk and Return: Risk-return framework, standard deviation	3
	(variance), VaR, ES, etc.	
3.	Financial Market Microstructure: Theories of market-microstructure:	3
	Limit order books and quote-driven markets; Market quality, price discovery,	
	and liquidity;	
4.	Fundamental valuation of securities: Cash flow discounting, estimating	3
	cost of equity and cost of firm (FCFF vs FCFE)	
5.	Efficient Market Hypotheses and Behavioral Finance: Weak, semi-	3
	strong, and strong form of efficiency; Overreaction and Under reaction	
	hypothesis; Effect of investor sentiment on security prices	
6.	Introduction to Fixed Income Securities (Bonds, Notes, etc.): Yield-to-	3
	maturity computation, valuation of fixed income securities; Term structure of	
	interest rates, introduction to forward contracts	
7.	Introduction to Derivatives: Risk management with futures & options (Call,	3
	Put), pricing of derivatives; Put-Call parity, creation of synthetic options	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Brealy, Myers, Allen; "Principles of Corporate Finance",	2018
	McGraw Hill Education., 12 <sup>th</sup> Edition.	
2.	Elton & Gruber, "Modern Portfolio Theory", Wiley, 9th	2014
	Edition	
3.	Reilly, Frank, K., "Investment Analysis and Portfolio	2017
	Management", Cengage, 10 <sup>th</sup> Edition,.	
4.	Mishkin & Eakins, "Financial Markets and Institutions" ",	2018
	Pearson, 9 <sup>h</sup> Edition.	
5.	John C Hull, "Options, Futures, and other Deriavatives",	2018
	Pearson, 10 <sup>th</sup> Edition	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. **Subject Code:** BMN-684 **Course Title:** Indian Financial System

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

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

3. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**4.** Credits: 1.5 **6.** Term: IV/V/VI/VII

7. Pre-requisite: None 8. Subject Area: PEC

9. Objective: To provide a comprehensive overview of Indian Financial System.

S.No.	Contents	Contact
		hours
1.	Overview of the Indian financial system – The big picture on financial	3
	Markets, mutual funds, banking, regulatory bodies, etc.	
2.	Government security and money markets in India- G-Sec market (T-Bills	3
	and dated securities), auction mechanisms, repo markets (overnight, term),	
	Tri-party repo, call money market.	
3.	Corporate Bond market in India: Market infrastructure and other	3
	properties (performance, liquidity, market quality, price discovery etc.),	
	Indian market vis-à-vis global corporate bond markets, issues afflicting the	
	development of Indian bond market	
4.	Equity and derivative markets in India: Market infrastructure and other	3
	properties (performance, liquidity, market quality, price discovery etc.),	
	Comparison with developed markets, issues afflicting the development of	
	equity market in India	
5.	Mutual Fund Industry in India: Evolution of the industry over the years,	3
	current scenario, performance relative to other developed country mutual	
	fund industries, contribution to financial inclusion	
6.	Contemporary financial intermediation in India: Role of Banking, project	3
	finance, and credit rating industry in India	
7.	<b>Regulatory aspects of Indian financial system:</b> Role of SEBI and RBI as	3
	regulatory and monitoring authorities, key prudential norms and regulations	
	pertaining to banking and financial services, mutual fund industry, credit	
	rating, etc.	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Anthony Saunders; "Financial Institutions Management: A	2017
	Risk Management Approach", McGraw Hill Education., 7th	
	Edition.	
2.	Mishkin & Eakins, "Financial Markets and Institutions",	2018
	Pearson, 9 <sup>h</sup> Edition.	
3.	Cooperman "Managing Financial Institutions", Routledge, 1st	2016
	Edition	
4.	Donald and Koch, "Bank Management", Cengage Learning,	2014
	8 <sup>th</sup> Edition	
5.	Frederic S. Mishkin, "The Economics of Money, Banking and	2019
	Financial Markets", Pearson, 11th Edition	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-685 Course Title: International Corporate Finance

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge about financial management in an international business environment in the light of currency risk, political situations, imperfect markets, and diversified opportunity sets.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	International Bond and Equity Market, International Capital Structure and	4
	Cost Of Capital	
2.	Foreign Direct Investment and Cross Border Acquisition, International	5
	Capital Budgeting.	
3.	Multinational Working Capital Management: Management of International	4
	Cash Balances, Cash Management in Practice. Receivable and Inventory	
	Management	
4.	Country Risk Analysis, International Tax Environment and Transfer Pricing.	3
5.	International Portfolio Investment; Optimum Portfolio Selection,	5
	International Diversification Through ADRs, Hedge Funds And ETFs etc.	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Laurent L. Jacque, "International corporate Finance", Wiley	2020
2.	P.G Apte. "International Financial management", Mc Graw	2011
	Hill	
3.	Cheol S Eun, Bruce G Resnick "International Financial	2017
	Management ", McGraw Hill	
4.	Jeff Madura "International Financial management" Cengage	2018
	Learning	
5.	Reid W. Click, Joshua D.Coval "The Theory and practice of	2007
	International Financial Management ", Pearson education	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-686 Course Title: Financial Engineering

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To impart knowledge on various aspects of financial risk management and provide exposure to the tools and techniques of financial engineering for design of new financial products.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Basics of futures	2
2.	Futures trading strategies, hedging, hedge ratio, cross hedging	3
3.	Option Greeks and their relevance in risk management & market trading	4
4.	Option strategies & their applications for risk management	3
5.	Speculation, its role in market equilibrium, spread strategies for speculative exposures	3
6.	Swaps, their characteristics & applications.	3
7.	Futures options, elementary applications & pricing.	3
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		Publication / Reprint
1.	Hull, John, C., "Risk Management & Financial Institutions",	2012
	Wiley Finance	
2.	Neftci, Salih, N. "Principles of Financial Engineering",	2008
	Academic Press	
3.	Saunders, Anthony & Cornett, Marcia Millon, "Financial	2008
	Institutions Management: A Risk Management Approach"	
	McGraw Hill/Irwin	
4.	Marshall, John, F & Bansal, Vipul, "Financial Engineering"	1992
	PHI Learning	
5.	Cuthbertson, Keith & Nitzsche, Dirk, "Financial Engineering:	2001
	Derivatives & Risk Management" John Wiley	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-687 Course Title: Applications of Quantitative Finance

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Basics of Quantitative Finance 8. Subject Area: PEC

9. Objective: To understand the mathematics of financial derivatives.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Stock price modelling in continuous time	2
2.	Financial derivatives, their characteristics & applications	2
3.	No arbitrage pricing of forward contracts, FRAs	2
4.	Futures contracts: features & applications	4
5.	Option contracts: Characteristics, Price Bounds, Put-Call parity- various	3
	scenarios.	
6.	Option pricing models: Discrete time models: binomial model	3
7.	Black Scholes continuous time model, Black Scholes PDE & its solution	3
8.	Features of Black Scholes Model	2
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Hull, J.C., "Options, Futures, and Other Derivatives", 7th Ed.,	2009
	Prentice Hall	
2.	Neftci, S.N., "Introduction to the Mathematics of Financial	2000
	Derivatives",2 <sup>nd</sup> Ed., Academic Press	
3.	Cerny, A., "Mathematical Techniques in Finance: Tools for	2009
	Incomplete Markets", 2 <sup>nd</sup> Ed., Princeton University Press	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-688 Course Title: Financial Risk Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge on various aspects of financial risk management and provide exposure to the tools and techniques of financial risk management.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Introduction to the various measures of financial risk and their mathematical and statistical properties.	4
2.	Measurement of interest rate risk, management of interest rate risk with STIFs & bond-futures.	3
3.	Concept of VaR, VaR of equity portfolios, modelling & empirical measurements	4
4.	VaR of bond & derivative portfolios, methods of measurement	4
5.	VaR measurement and application by financial institutions and banks for portfolio optimization. Concept of volatility in financial management.	2
6.	Modelling, measurement & management of volatility.	4
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Hull, John, C., "Risk Management & Financial Institutions",	2012
	Wiley Finance	
2.	Neftci, Salih, N. "Principles of Financial Engineering",	2008
	Academic Press	
3.	Saunders, Anthony & Cornett, Marcia Millon, "Financial	2008
	Institutions Management: A Risk Management Approach"	
	McGraw Hill/Irwin	
4.	Marshall, John, F & Bansal, Vipul, "Financial Engineering"	1992
	PHI Learning	
5.	Cuthbertson, Keith & Nitzsche, Dirk, "Financial Engineering:	2001
	Derivatives & Risk Management" John Wiley	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-689 Course Title: Financial Modelling

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5.** Credits: 1.5 **6.** Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge on various aspects of financial modelling provide exposure to the tools and techniques of financial modelling.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Random Variables, Probability Distributions, Moments, MGFs &	3
	Characteristic Functions, Stochastic Processes, Markov Processes,	
	Filtrations, Central Limit Theorem, Linear Regression.	
2.	Ito Processes, Stochastic Differential Equations, Generalization to Several	4
	Dimensions, Solution of Stochastic Differential Equations, Arithmetic	
	Brownian Motion, Ornstein- Uhlenbeck Process, Geometric Brownian	
	Motion	
3.	Optimization: Maxima and Minima, Lagrange Multipliers, Quadratic	4
	Programming, Calculus of Variations, Stochastic Programming	
4.	Random walk models, Multifactor models, APT models, Cointegration,	3
	State-space modeling and cointegration, ARCH/GARCH models.	
5.	Arbitrage principle, Arbitrage pricing in a one-period setting, Risk-Neutral	3
	probabilities, Complete markets, Arbitrage pricing in a multiperiod finite-	
	state setting, Equivalent martingale measures, Path dependence and Markov	
	models	
6.	Arbitrage Pricing in continuous-state, continuous-time models: The	4
	Arbitrage principle in continuous time, Arbitrage pricing in continuous-state,	
	continuous-time.	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Focardi, S.M. & Fabozzi, F.J, "The mathematics of financial	2004
	modelling & investment management,", Wiley Finance, 2004	
2.	Neftci, Salih, N. "Principles of Financial Engineering",	2008
	Academic Press	
3.	Reilly, F K, Brown, K C & Leeds, S J, "Investment Analysis	2018
	and Portfolio Management", 11th ed., Cengage	
4.	Marshall, John, F & Bansal, Vipul, "Financial Engineering"	1992
	PHI Learning	
5.	Cuthbertson, Keith & Nitzsche, Dirk, "Financial Engineering:	2001
	Derivatives & Risk Management" John Wiley	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-690 Course Title: Banking and Bank Finance

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To provide a comprehensive overview of banking operations and risk management in

banks

S.No.	Contents	Contact
		hours
1.	Introduction to Banking Operations: Commercial Banking, Investment	3
	Banking, Retail and Rural banking, etc.; Contemporary issues in banking	
	(Shadow banking)	
2.	Introduction to Risk in Banking: Default risk, interest risk, liquidity risk;	3
	Liquidity and solvency	
3.	Risk management of Banks: Interest Rate Risk Management (Duration and	3
	Dollar GAP, SWAPs, FRAs); Credit Risk Models in Banks (Altman Z-Score,	
	Merton's Option Pricing Model)	
4.	Capital Adequacy and Liquidity Management in Banks: Asset liability	3
	management (Management of deposits, reserve requirements); BASEL I, II,	
	& III regulations	
5.	Theories of Loan pricing: Introduction to credit risk analysis; Mathematics	3
	of loan pricing, expected loss, loss given default, default on single loan &	
	loan portfolios; Deposit insurance, loan pricing and moral hazard	
6.	<b>Project Finance:</b> Cash flow securitization; Structuring the project finance	3
	transaction, advantages and risks associated with a project finance	
	transaction, key counter-parties and their roles in project finance risk	
	management	
7.	Theories of bank capital structure: Leverage in banks, option model of	3
	bank leverage; Discipline of debt theory and monitoring theory	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Anthony Saunders; "Financial Institutions Management: A	2017
	Risk Management Approach", McGraw Hill Education., 7th	
	Edition.	
2.	Joel Bessis, "Risk Management in Banking", Wiley, 4th	2015
	Edition,	
3.	Frederic S. Mishkin, "The Economics of Money, Banking and	2019
	Financial Markets", Pearson, 11th Edition	
4.	Cooperman "Managing Financial Institutions", Routledge, 1st	2016
	Edition	
5.	Donald and Koch, "Bank Management", Cengage Learning,	2014
	8 <sup>th</sup> Edition	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-692 Course Title: Behavioral Finance

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To acquaint the students with the influence of psychology on the behaviour of investors or financial analysts

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Behavioural finance - Introduction- Psychology and market people -	2
	Investors, portfolio managers, analysts; Bounded rationality in real market	
	conditions. Decision-making process and behavioural biases. Simple	
	experiments on anchoring.	
2.	Rational market hypothesis and Challenges of Behaviouralists	2
3.	Foundations of rational finance – Expected utility theory, MPT, CAPM,	4
	EMH, AT, The influence of Psychology.	
4.	Heuristics and Biases – Working of human mind, Familiarity and Related	4
	Heuristics, Representativeness and related biases, Anchoring.	
5.	Self-Deception – forms of overconfidence, causes of overconfidence, Other	2
	forms of self-deception.	
6.	Prospect theory and mental accounting, Neuroscientific and evolutionary	4
	perspective.	
7.	Challenges to EMH, Emotional factors and social forces, Investor behavior,	3
	value investing	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Prasanna Chandra, "Behavioural Finance" 2 <sup>nd</sup> edition,	2020
	McGraw Hill Publication.	
2.	Baker, H.K., Filbeck G., & Nofsinger J.R., "Behavioural	2019
	Finance: What Everyone Needs to Know", Reprint edition,	
	Oxford University Press.	
3.	Pompain M.M., "Behavioural Finance and Wealth	2019
	Management: How to Build Investment Strategies That	
	Account for Investor Biases", 2 <sup>nd</sup> edition, John Wiley & Sons	
	Publishing.	
4.	Statman M., "Behavioural Finance", 2 <sup>nd</sup> Generation, CFA	2019
	Institute research foundation.	
5.	Pompain M.M., "Behavioral Finance and Your Portfolio:	2020
	Manage Your Biases to Make Better Investment Decisions"	
	John Wiley & Sons Publishing.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-693 Course Title: Business Valuation

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To acquaint the students with the concepts and process of business/corporate valuation.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Business valuation: An overview - context and approaches of valuation,	2
	intrinsic and stock market value.	
2.	Enterprise DCF Model, Cost of capital.	4
3.	Other DCF models- Equity DCF model, adjusted present value model,	4
	economic profit model, Relative valuation.	
4.	Non-DCF approaches to valuation – book value approach, stock and debt	3
	approach, strategic approach to valuation	
5.	Valuation of real options – Black & Scholes model, Binomial model for	4
	option valuation.	
6.	Valuation of intangible assets, Advanced issues in valuation, Regulatory	4
	oversight on valuation	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Prasanna Chandra, "Corporate Valuation", 2 <sup>nd</sup> edition,	2020
	McGraw Hill Publications.	
2.	Vikash Goel, "Business Valuation - A practitioner's guide to	2021
	valuation of companies", Bloomsbury Professional India.	
3.	Christopher M.Z. & Harms T.W., "Business valuation-An	2020
	Integrated theory", 3 <sup>rd</sup> edition, John Wiley & Sons.	
4.	Koller T., Marc G. & David W. "Valuation – Measuring &	2020
	managing the value of companies", 7th edition, Mckinsey &	
	Company.	
5.	Vijay P.K., & Sawheny C. "Business valuation in India -	2019
	Beyond the numbers", 2 <sup>nd</sup> edition, Wolters Kluwer Publishing	
6.	Damodaran A. "Damodaran on Valuation",2 <sup>nd</sup> edition, John	2016
	Wiley & Sons	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-694 Course Title: Infrastructure and Project Finance

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To acquaint the students with the concepts of infrastructure finance and financing of the projects, both greenfield and brownfield.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Definition of infrastructure and projects, project life cycle/ phases, stakeholders, organization and skills	2
2.	Create value through project and infrastructure finance, Understanding project versus corporate finance	2
3.	Project feasibility and appraisal, Project cost estimation and control	3
4.	Capital budgeting, project financing and managing cash flows,	3
5.	Financing sector specific projects.	4
6.	Understanding the public-private partnership (PPP) and private finance initiatives (PFI)	2
7.	Optimal restructuring of projects under distress	2
8.	Analyse project risk and rewards	3
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Chandra, P., "Projects - Planning, Analysis, Selection,	2018
	Financing, Implementation and Review",9th edition., McGraw	
	Hill Publishing	
2.	Paul D. Clifford, "Project Finance: Applications and Insights	2020
	to Emerging Markets Infrastructure", Wiley & Sons	
	publishers.	
3.	John E. Triantis, "Project Finance for Business Development",	2018
	Wiley & Sons publishers.	
4.	Yescombe E.R. & Edward F., "Public-Private Partnerships for	2018
	Infrastructure: Principles of Policy and Finance, 2 <sup>nd</sup> edition,	
	Butterworth-Heinemann publishing.	
5.	Anthony Higham, Carl Bridge, Peter Farrell, "Project Finance	2017
	for Construction, 1st edition, Routledge publishing.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. **Subject Code:** BMN-695 **Course Title:** Money and Central Banking

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

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

3. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

4. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To provide a comprehensive overview of monetary management of Central Bank and its implications for the Indian financial system.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Introduction to money and credit: Hierarchy of money and credit, different	3
	prices of money	
2.	Introduction to Central Banking: Evolution of global central banking, role	3
	of central banking around financial crisis	
3.	Currency system in India: Currency issuance, Types of Money supply and	3
	monetary aggregates (M0, M1, M2, M3), factors affecting supply of money	
4.	Money market operations of RBI: Introduction to key policy terminology	3
	Repo, reverse repo, LAF, MSF, CRR, SLR, etc.	
5.	Evolution of monetary policy in India: Evolution of central banking and	3
	monetary policy framework in India (monetary targeting, multiple indicator	
	approach, inflation targeting, etc.)	
6.	Introduction to liquidity management in India: Historical perspective,	3
	attributes of surplus and deficit liquidity management, contemporary aspects	
	of liquidity management	
7.	Conventional and unconventional monetary policies in the modern	3
	financial system: TLTRO, LTRO, Operation Twist, etc., crisis management	
	by RBI	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Anthony Saunders; "Financial Institutions Management: A	2017
	Risk Management Approach", McGraw Hill Education., 7th	
	Edition.	
2.	Joel Bessis, "Risk Management in Banking", Wiley, 4th	2015
	Edition,	
3.	Mishkin & Eakins, "Financial Markets and Institutions",	2018
	Pearson, 9 <sup>h</sup> Edition.	
4.	Cooperman "Managing Financial Institutions", Routledge, 1st	2016
	Edition	
5.	Frederic S. Mishkin, "The Economics of Money, Banking and	2019
	Financial Markets", Pearson, 11 <sup>th</sup> Edition	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-696 Course Title: Portfolio Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/VVI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To provide a comprehensive view of Portfolio Management for investment decisions.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Economic theory of choice under uncertainty- Investment and	3
	consumption behavior, Utility theory and risk (Risk averse, risk-neutral, risk-	
	loving, indifference curves)	
2.	<b>Portfolio Optimization</b> in the Mean-Variance Framework – Two Security	3
	Case- Correlation, covariance, diversification	
3.	<b>Portfolio Optimization</b> in the Mean-Variance Framework – Multi Security	3
	Case- Region of feasibility, short-sale constraints, efficient frontier	
	description, techniques for computing efficient frontier	
4.	Single Index & Arbitrage Pricing Model- Assumptions and derivation of	3
	expected return, variance, and covariance	
5.	Capital Asset Pricing Model and its variants- Mathematical derivation of	3
	CAPM and simple graphical approach to understand CAPM, non-standard	
	versions of CAPM (zero-beta, riskless lending and borrowing, short-sale,	
	etc.)	
6.	Mutual Funds and Portfolio Performance Appraisal- Closed-end and	3
	open-end funds, index funds, ETFs; Performance measures (Sharpe ratio,	
	Teynor's measure, Jensen's alpha), performance measurement with	
	downside risk, Selection and timing	
7.	Fixed Income Portfolio Management: Duration and convexity, portfolio	3
	immunization, active and passive portfolio management	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Brealy, Myers, Allen; "Principles of Corporate Finance",	2018
	McGraw Hill Education., 12 <sup>th</sup> Edition.	
2.	Elton & Gruber, "Modern Portfolio Theory", Wiley, 9th	2014
	Edition	
3.	Reilly, Frank, K., "Investment Analysis and Portfolio	2017
	Management", Cengage, 10 <sup>th</sup> Edition.	
4.	Mishkin & Eakins, "Financial Markets and Institutions",	2018
	Pearson, 9 <sup>h</sup> Edition.	
5.	Frederic S. Mishkin, "The Economics of Money, Banking and	2019
	Financial Markets", Pearson, 11th Edition	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-697 Course Title: Foreign Exchange Risk Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge on various aspects of foreign exchange risk management and provide exposure to the tools and techniques of forex management.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Unique challenges in International finance, International Monetary System,	3
	Balance of Payment, Various economic Currency Crisis.	
2.	Foreign Market: Basics, Forex Market Working, Spot Exchange Rates,	4
	Currency Arbitrage, Exchange Rate Quotations, Exchange rate systems.	
3.	Forex and Parity: International Parity Relationships: Interest rate parity,	4
	purchasing power parity, Forecasting Foreign Exchange Rates.	
4.	Currency Markets: Currency Futures, Currency Option, Currency Swaps.	4
5.	Foreign Exchange Exposure and Management: Management of Transaction	6
	Exposure, Management of Economic Exposure, Management of Translation	
	Exposure.	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	A.Alviniussen, H. Jankensgård, L. Oxelheim." Corporate	2020
	Foreign Exchange Risk Management", Wiley.	
2.	M.S.V. Prasad, G.V. Satya Sekhar. "Currency Risk	2018
	Management", Vernon Press.	
3.	Cheol S Eun, Bruce G Resnick. "International Financial	2017
	Management ", McGraw Hill	
4.	Jeff Madura., "International Financial management" Cengage	2018
	Learning	
5.	Ghassem A. Homaifar. "Managing Global Financial and	2004
	Foreign Exchange Rate Risk", Wiley Finance Book	

# NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-631 Course Title: Human Resource Planning and Development

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To develop skills for Human resource planning and development.

S.No.	Contents	Contact
		hours
1.	Manpower Planning – introduction and objectives, labor market analysis and	2
	labor supply, process, challenges, responsibility of HRP; Organizational	
	human resource planning, Attraction and retention of talent	
2.	Career management, Career planning vs human resource planning, career	3
	development, succession planning and management, career planning vs	
	succession planning, Career Stages, Career Anchors	
3.	Models and techniques of manpower demand and supply forecasting, staffing	3
	table, markov analysis, skills inventory, replacement chart	
4.	Recruitment-concept, constraint and challenge, source of recruitment,	3
	methods of recruitment, evaluation of the source of recruitment, recruitment	
	policies and procedures, Diversity & Inclusion, Employee Wellness,	
	Employee Engagement, Contingent Workforce, Gig-Work Network	
5.	Behavioral factors in human resource planning, redeployment and exit	4
	strategies, job analysis, behavioral factors in job analysis, job description, job	
	specification, job evaluation	
6.	HR challenges in IT industry, technology and Human resource planning and	2
	development, HR Bots – chatbots Digital HR, Augmented HR Practices, HR	
	Innovation Labs, Personalisation in HR	
7.	Human resource development, evolution of Human resource development,	2
	HRD vs HRM, Human resource development subsystems, principles of	
	HRD, HRD in Indian industries, HRD survey, TQM and HRD strategies,	
	HRD in strategic organizations, HRD climate	
8.	Human resource information system (HRIS), significance of HRIS, human	2
	capital management, human capital valuation: methods and models of	
	valuation, human capital valuation in manufacturing and service industry	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	McBey, K., "Strategic Human Resources Planning", 5th	2015
	Edition, Cengage Learning.	
2.	Belcourt, M., Strategic Human Resources Planning, 6 <sup>th</sup>	2015
	Edition, Cengage Learning.	
3.	Dessler, G. "Human Resource Management", 11th Edition,	2009
	Pearson Education.	
4.	Herman, A., "Performance Planning", 2 <sup>nd</sup> Edition, Pearson	2009
	Education	
5.	Flippo, E.B., "Personnel Management", 6th Edition, McGraw	2006
	Hill	
6.	Peel, "Career Development and Planning", Tata McGraw Hill	1992

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-632 Course Title: Organisational Development

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To impart knowledge about different steps of organizational development.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Designing Interventions –Effective Interventions and their design;	2
	Overview of various Interventions, OD Practitioner - Competencies and	
	Skills of Organization Development	
2.	Techniques of Organizational Development Intervention – Human	2
	Process Interventions: Interpersonal and group process interventions,	
	organizational process approaches	
3.	Human Process Interventions: Interpersonal and group process	4
	interventions, organizational process approaches	
4.	Technostructural interventions: Restructuring organizations, Employee	3
	involvement, Work Design	
5.	Technostructural interventions Continued: Restructuring organizations,	3
	Employee involvement, Work Design	
6.	Human Resources Management Interventions: Performance management,	4
	Developing Talent, managing workforce diversity and wellness, Human	
	Resources Management Interventions continued: Performance management,	
	Developing Talent, Managing workforce diversity and wellness	
7.	Strategic change interventions: Transformational change, Continuous	3
	change, Trans organizational change	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Palmer, Dunford, and Akin, Managing Organizational	2011
	Change, Tata McGrarw Hill, Edition	
2.	Cummings, T. G. & Worley, C. Theory of Organization	2009
	Development and Change, Cengage Learning.	
3.	French, W. L. & Jr. Bell, C. H., Organization Development:	2008
	Behavioural Science Interventions for Organization	
	Improvement. Prentice-Hall of India Private Ltd.	
4.	Radha Sharma, Change Management and Organizational	2014
	Transformation, Tata McGraw Hill, 2 <sup>nd</sup> Edition.	
5.	Radha Sharma, Change Management: Concepts and	2010
	Applications, Tata McGraw Hill.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-633 Course Title: Labour Legislation and Industrial Relations

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** The course discusses Historical reasons for the formation of combinations of workers, legal impediments Constitutional freedom to form associations and unions – Constitution of India.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	The Factories Act, 1948	2
2.	Trade Unions Act ,1926	2
3.	The Payment of Wages Act, 1948	2
4.	The Payment of Bonus Act, 1965. Workmen's Compensation Act,1923.	2
5.	ESI Act,1948, Employee Provident Fund Act,1952	2
6.	Maternity Act,1961, Contract Labour,1970	2
7.	Introduction and Importance of Industrial Relations	2
8.	Workers Participation In Management	3
9.	Payment of Gratuity Act,1972	1
10.	Collective Bargaining, Industrial Dispute Act,1947	3
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Seema Priyadarshini Shekhar, P. R. N. Sinha, InduBala Sinha.	2017
	Industrial Relations, Trade Unions and Labour Legislation.	
	McGraw-Hill Education, USA.	
2.	P L Malik., Law Relating to Trade Unions and Unfair Labour	2017
	Practices in India (25th Edition). Eastern Book Company.	
3.	S. C. Srivastava (Rev. (2012) Labour Law and Labour	2012
	Relations: Cases and Materials. Vikas Publishing	
4.	Piyali Ghosh and Shefali NandaN. Industrial Relations and	2015
	Labour Laws. McGraw-Hill Education.	
5.	Bare Acts of Labour Laws. Manchanda & Sons. Eastern Books	2020
	Company.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-634 Course Title: Career Planning and Performance Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To develop skills for career planning and development.

S.No.	Contents	Contact
		hours
1.	Concept of career, stages, choices, anchors, development, Career Exploration, development programs, counseling, patching, career planning and performance	3
2.	Career information systems (CIS), management and supervisory development, organizational assessment programs- assessment centers, Networking Search Strategies, Influencing Networking Partners	2
3.	Psychological testing, training, special groups issues, development of different career stages, career development problems and issues, Career Planning: Self-Assessment, Identifying Professional Talents, Professional Communications	2
4.	Performance audit and its rationale, appraisal systems, rating scales, human errors in ratings, employees' participation in appraisal process, performance management systems - benefits, steps, importance, features, processes, dimensions, conceptual framework, performance-based career planning.	3
5.	PM and mentoring, Importance of selection of PM criteria, integrated PM systems, Performance matrix and models, productivity indices, team PM, principles of team PM, approaches to change team behaviors	3
6.	Frequency of appraisals, appraisal counseling, analyzing existing appraisal system, designing new appraisal system, methods of calculation of appraisals	4
7.	International performance management – structure and strategy, effect of culture on performance, diversity management and training, performance management in international assignments, compensation management	2
8.	Ethical and legal issues of performance management – concepts, perspectives, objectives, benefits, dilemmas; contemporary issues of performance management, organizational development tools as drivers of PM, lean management and culture	2
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Bhattacharya, D. K., "Performance Management Systems and	2011
	Strategies", Pearson Education, 1st Edition	
2.	Peel, "Career Development and Planning", Tata McGraw Hill	1992
3.	Career Management and Succession Planning Study Paperback	1993
	- 1, By Great Britain: Cabinet Office	
4.	Herman, A., "Performance Planning", 2 <sup>nd</sup> Edition, Pearson	2009
	Education	
5.	Rao, V.S.P., "Human Resource Management", 2 <sup>nd</sup> Edition, Excel	2009
	Books	
6.	Dessler, G. "Human Resource Management", 11th Edition,	2009
	Pearson Education.	
7.	Flippo, E.B., "Personnel Management", 6th Edition, McGraw	2006
	Hill	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-635 Course Title: Training and Talent Development

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: The course discusses how an organization can create a culture to develop employee talent through various talent management processes.

S.No.	Contents	Contact hours
1.	Creating a talent Management Program for Organizational Excellence: Designing the Building Blocks for Organization Excellence: The Talent Management Model, Strategies of success of leading companies – Case Discussions	3
2.	<b>Competency Models:</b> Fundamentals of competency modeling to create workforce for future, Designing performance appraisal for driving organizational success; Conducting Performance Review to Improve Quality of the Talent Base	3
3.	Succession and Career Planning: Integrating Succession Planning and Career Planning; Determining Employees Potential for Growth, Coaching, Training and Development Approaches to Drive Talent Management Processes	3
4.	<b>Training and development: A new Context of Learning:</b> Strategic training, Models of training, Globalization and training practices in Indian organizations	3
5.	<b>Training needs assessment:</b> Methods for need assessment, process of need assessment- organizational analysis, person analysis, task analysis, competency model of need assessment	3
6.	<b>Organizational strategies for employee development:</b> E-Learning and use of technology in training, E-learning and employee development, developing effective online learning, blended learning	3
7.	<b>Training methods and techniques</b> : use of technologies for training delivery, training for virtual work arrangements, sharing of intellectual capital through information technologies	3
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Larry Isrealite, Talent Management: strategies for success	2011
	From Six leading Companies, (American society of Talent and	
	Development), Cengage Learning,	
2.	Lance Berger, Dorothy Berger, The Talent Management	2010
	Handbook: Creating a Sustainable Competitive Advantage by	
	Selecting, Developing, and Promoting the Best People	
3.	Raymond, A. N. and Kodwani A.D., Employee Training and	2008
	Development, 4th Edition, Tata McGraw Hill	
4.	Janice Caplan, The Value of Talent: Promoting Talent	2011
	Management Across Organizations, Kogan Page	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-636 Course Title: Competency Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To develop skills and competencies of the Human Resources of the organisation.

S.No.	Contents	Contact
1		hours
1.	Introduction to competency: Introduction to role and competencies-	
	evolution of competency concept, definition and scope of competencies,	3
	components of competencies, types of competencies, competency levels, and competency profiles; Core competencies; Criteria for determining core	3
	competencies; Issues involved in overlooking core competencies;	
	Competencies as link between strategy and human resource programmes.	
2.	Competency mapping: Concept of competency mapping- evolution of	
2.	competency mapping. Concept of competency mapping evolution of competency mapping, understanding significance and need of competency	4
	mapping, elements of competency mapping, classification of competency	7
	mapping, and tools and techniques for competency mapping.	
3.	Competency modelling and competency models: Competency	
	identification process; Competency modelling- assumptions and guidelines	
	for model development, strategies to develop a model, steps in developing a	
	model; Factors affecting competency framework; Current trends in	4
	competency modelling.	
	Need of competency models; Competency models; Validation of competency	
	models; Applications and uses of competency models; Linking competency	
	models to HR systems.	
4.	Process of Competency management: Competency management process	
	and methods; Building a competency management system; Manager's role in	
	competency management; Team competency management; Issues in team	
	competency management.	4
	Competency management in organizations- competency-based recruitment &	
	selection, competency-based training & development, competency-based	
	career management, competency-based performance management,	
	competency-based succession planning; competency-based talent	
	management.	
5.	Competency driven success: Assumptions and Methodology of Career	
	Management; Career Review Meetings; Model for Competency Driven	
	Career Progression; Coaching Linkages; 360-degree Feedback (360-degree Review); Career driven managerial and enabling competencies; Guidelines	3
	to foster core competencies for competitive advantage; Developing Core	3
	Competencies for Competitive Advantage; Impact of competency	
	development process.	
6.	Competency assessment: Concept; Characteristics and types of Assessment;	
	Factors Affecting Assessment; Competency Assessment Frameworks;	
		L

Involvement of Stakeholders in assessment; Assessment process; Assessmen	t 3
Guidelines; Paradigm shift in Assessment.	
History of Assessment Centres; Early stages of Assessment Centres	;
Characteristics, Elements of Assessment Centres; Tools & Technique	e
deployed in Assessment Centres; Training of Assessors; Role of Assessor in	n
Assessment centre; Competency Coaching Skills and Mentoring.	
Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Sanghi S., "The Handbook of Competency Mapping:	2016
	Understanding, Designing and Implementing Competency	
	Models in Organizations", Sage Publications India Private	
	Limited (3rd edition)	
2.	Shermon G. and Shermon A., "Talent Mapping - Competency	2016
	Based Workforce Planning", lulu.com, 1st Edition	
3.	Bhatawdekar S. and Bhatawdekar K., "Competency	2015
	Management: Competency Matrix and Competencies", Create	
	space Independent Publishing. 1st Edition	
4.	Gupta B., "Competency framework for human resources	2011
	management", Concept Publishing Company. 1st Edition	
5.	Mukherjee S., "Competency mapping for superior results",	2011
	Tata McGraw-Hill Education, 1st Edition	
6.	Holt J. and Perry S.A., "A Pragmatic Guide to Competency",	2011
	BCS, The Chartered Institute for IT".	
7.	Shermon G., "Competency based HRM: A strategic resource	2004
	for competency mapping, assessment and development	
	centres", Tata McGraw-Hill Education.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-637 Course Title: Management of Change

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge regarding planning and managing change and provides framework and tools to implement it.

S.No.	Contents	Contact
		hours
1.	Introduction to Organizational Change: Reasons of organizations' change,	3
	Forces of change, elements of changes in organizations: types of change,	
	Recent developments and theoretical frameworks.	
2.	Perspectives of Organizational Change: Environment dependent	3
	organizational perspective, contingency perspective, population ecology,	
	resource dependence, and process oriented perspectives	
3.	Diagnosis for Change: Models and approaches based on process, content,	3
	evolving managerial interpretations, and integration of change models	
4.	Readiness to change: Factors contributing to resistance, mechanism	3
	underlying resistance: individual factors, group, and organizational factors,	
	Human, behavioral, cognitive and affective processes underlying resistance	
	to change, Strategies for introducing planned change: Empirical-rational,	
	normative-reductive, power-coercive strategies, techniques to manage	
	resistance	
5.	Leaders and change agents in managing change: Six roles of change	3
	managers, Managing Resistance, Managing change in self and others,	
	Leading change	
6.	<b>Organizational Development interventions to manage change:</b> Designing	3
	Interventions, Objectives, Definition, Organizational development	
	interventions and classifications, Overview of various Interventions, OD	
	Practitioner – Competencies and Skills of Organization Development	
7.	Human Process Interventions: Human Resource Interventions,	3
	Technostructural Interventions, Strategic interventions: Organizational	
	learning and knowledge management	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Palmer, Dunford, and Akin, Managing Organizational Change,	2011
	Tata McGrarw Hill,	
2.	Cummings, T. G. & Worley, C. Theory of Organization	2009
	Development and Change, Cengage Learning.	
3.	French, W. L. & Jr. Bell, C. H. Organization Development:	2008
	Behavioural Science Interventions for Organization	
	Improvement. Prentice-Hall of India Private Ltd.	
4.	Radha Sharma, Change Management and Organizational	2014
	Transformation, Tata McGraw Hill, 2 <sup>nd</sup> Edition.	
5.	Radha Sharma, Change Management: Concepts and	2010
	Applications, Tata McGraw Hill.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-638 Course Title: Managing Innovation and Creativity

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** The course aims to develop an understanding of creative processes and creative problem solving techniques.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Managing Creativity: An Overview, Introduction to Creativity and	3
	Innovation, Nature of Creativity: Person, Process, Product and Environment,	
	Nature of Innovation: Making the Idea a Reality, Strategies for Innovation	
2.	Understanding Creativity: Need for Creativity and Innovation in	3
	Organizations, Role of Creativity and Innovation in the Organisation	
	Dynamics that underlie Creative Thinking	
3.	Creative insight: Source of good ideas, Idea evaluation, handling available	4
	ideas, Creativity in Teams	
4.	Developing and Contributing to a Creative-Innovation Team Managing	5
	for Creativity and Innovation Tools and Techniques in Creativity, Creativity	
	Techniques (Brainstorming; lateral Thinking; Morphological Analysis;	
	Attribute Listing, etc.)	
5.	Managing Creativity in Organisation: Evolving a Culture of Creativity and	3
	Innovation in Organizations, Creativity in the Workplace Creativity and	
	Change Leadership	
6.	Global Perspectives on Creativity including popular cases	3
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Allan Afuah, Innovation Management: Strategies	2009
	Implementation & Profits, Oxford Publications	
2.	Steve Conway & Fred Steward, Shaping Innovation, Oxford	2010
	Publications	
3.	Rogers Everett, Diffusion of Innovations, 5th Edition	2003
4.	Clayton M. Christensen, The Innovator's Dilemma: When	2016
	New Technologies Cause Great Firms to Fail.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-640 Course Title: Strategic Human Resource Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5.** Credits: 1.5 **6.** Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To develop the perspective of strategic human resource management and understand the relationship of HR strategy with overall corporate strategy.

S.No.	Contents	Contact
		hours
1.	Overview of Strategic Management: Need and Importance, The resource-	3
	based view of the firm, Strategic Fit: A conceptual framework, Mission,	
	Values and Objectives, Analysis of organizational resources and capabilities	
2.	Strategic Human Resource planning: Classification of organizations based	3
	on the purpose of HR plan, Integration of HR plan and business plan,	
	Activities related to strategic HR planning, Techniques of HR planning,	
	Significance of HR planning in Indian industries	
3.	Strategic approach to manpower acquisition and selection: Strategic	3
	recruitment, Location based employee market segmentation: Internal vs.	
	External market, HR strategy driven employee market choice, Business	
	strategy driven external employee market choice, Segmenting employee	
	market, Developing knowledge stock for future use. Managerial selection for	
	supporting the strategy of diversity.	
4.	Strategic approach to management structure, job design and work	3
	systems: Introduction to organizational structure, Evolution of structure,	
	Structure when market knowledge assets are more valuable than purchased	
	assets, Structure and organizational culture, Job Design, Alternative and	
	high-performance work systems, Developing knowledge resource for	
5.	management of manpower.	4
3.	Strategic management of performance: Introduction to Strategic management of performance, linking strategy to results at different levels,	4
	assessing performance at different levels, Assessing the performance of	
	organization's human infrastructure, developing effective performance	
	management systems, Correcting the performance gaps.	
6.	Strategic approach to compensations and benefits: Introduction to	3
0.	employee compensation, Generic approach to strategic compensation,	
	Strategic approach to compensation, Trends in Top-level Executive	
	Compensation, Business Strategy and Compensation, Total Compensation	
	and Rewards Strategy, Executive compensation.	
7.	<b>Developing HR as strategic value addition Function:</b> Gaining competitive	2
	advantage through HR, HR as a strategic business partner, the VRIO	
	framework, Changing role of HR, Future challenges of HR	
Total		

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Gary Dessler., Gary Varkkey, Biju. Human Resource Management, Pearson Education; Sixteenth edition	2020
2.	Mello, Jeffrey A., Strategic human resource management. 4 <sup>th</sup> Edition, Cengage Learning.	2019
3.	Das, Pulak. "Strategic Human Resource Management", 3 <sup>rd</sup> Edition, Cengage Learning	2012
4.	Agarwala, T., "Strategic Human Resource Management", 4 <sup>th</sup> Edition, Oxford University Press	2007
5.	Mello, Jeffrey A. "Strategic Human Resource Management", 3 <sup>rd</sup> Edition, Cengage Learning	2010
6.	Armstrong, M., "Armstrong's Handbook of Strategic Human Resource Management", 5 <sup>th</sup> Edition, Kogan Page	2011
7.	Stewart, L. Greg and Brown, Kenneth, "Human Resource Management: Linking strategy to practice, 2nd edition, John Wiley	2012
8.	Bratton, J.; Gold, J., "Human Resource Management: Theory and Practice", 5 <sup>th</sup> Edition, Palgrave Macmillan	2012
9.	Mondy, W. "Human Resource Management", 10th Edition, Pearson	2009

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-641 Course Title: Human Resource Analytics

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5.** Credits: 1.5 **6.** Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To discuss use of predictive analytical techniques in the hiring and effective management of workforce management, and illustrates design and implementation of strategies in a competitive business.

S.No.	Contents	Contact
		hours
1.	Introduction to human resource analytics: HR Decision making and HR	3
	Analytics, Concepts, definition, importance, and benefits of HR analytics.	
	Steps to implement HR Analytics. Critical HR decision making and HR	
	Analytics, HR analytics and changing role of HR managers	
2.	2. <b>Aligning human resources to business through HR Analytics</b> : Alignment of HR Analytics with Business Goals and Strategies, Application of HR and	
	Predictive Analytics, HR Analytics Frameworks and Models	
3.	3. HR Business process and HR Analytics: Statistics and Statistic	
	Modelling for HR Research and HR Decision making, HR Research tools and	
	Techniques, Data analysis for Human Resources, Parametric and Non-	
	parametric Tests	
4.	,	
	Metrics for Training and Development Functions, HR Scorecard, HR	
	Dashboards, HR Analytics as a Better tool for HR Decisions	
5.	HR Value propositions with HR Analytics: Value proposition and HR	3
	Decisions, HR Analytics and HR Value Propositions, HR Optimisation	
	through HR Analytics, HR Forecasting, HR Plan and HR Analytics,	
	Predictive HR Analytics	
6.	HR Analytics and Data: HR Data and Data Quality, HR Data collection,	3
	Big Data for Human Resources, Transforming HR Data into Information,	
	Process of Data Collection for HR Analytics, Data Collection for Effective	
	HR Measurement, HR Reporting	
7.	HR Analytics Predictive Modelling: Different phases of HR Analytics or	3
	HR Predictive Modelling, Examples of Predictive Analytics, Data and	
	information for HR Predictive Analysis, Predictive Analytics Tools and	
	Techniques, Scenario modelling and business cases, Predictive modelling	
	scenarios, Modeling the potential impact of a training program	
Total		

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Martin R. Edwards and Kirsten Edwards, Predictive HR	2016
	Analytics: Mastering the HR Metric. Kogan Page.	
2.	Dipak Kumar Bhattacharya, HR Analytics: Understanding	2017
	Theories and Applications, Sage Publications.	
3.	Jack Fitz-enz, The New HR Analytics: Predicting Economic	2010
	Value of Your Company's Human Capital Investments	
4.	Jean Paul Isson and Jesse S. Harriott, People Analytics in the	2016
	Era of Big Data: Changing the Way You Attract, Acquire,	
	Develop, and Retain Talent. Wiley.	
5.	HBR Guide to Data Analytics Basics for Managers:	2018
	Understand the numbers, Make better decisions, Present and	
	persuade, Harvard Business Review Press	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-642 Course Title: Training of Trainers

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge related to self-management skills and characteristics that predict professional and personal success.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Introduction to Training	2
2.	Training need assessment and its method	2
3.	Training design and types of training	2
4.	Design thinking and role of technology in training	2
5.	Introduction to training methods and its selection process	2
6.	Understanding training groups and its dynamics and training method – Case	2
	study	
7.	Training method – Business game	2
8.	Training method – Role Play	2
9.	Training method – Behavioral Modeling	2
10.	Training method – decision making exercises, Introduction to group training	3
	methods - Brainstorming, group discussion and panel discussion, Research	
	approach in training and training evaluation	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Pareek, U. Understanding organizational Behaviour, 3 <sup>rd</sup>	2012
	Editions, Oxford University Press, USA	
2.	Steven A. Beebe, Timothy P. Mottet and K. David Roach,	2018
	Training and Development: Enhancing Communication and	
	Leadership Skills, Texas State University - San Marcos.	
3.	Julie Dirksen, Design For How People Learn (Voices That	2011
	Matter)	
4.	Raymond Andrew Noe, Employee Training & Development	2012

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-643 Course Title: Leadership and Team Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To provide a framework to understand the importance of Leadership and team management, interpersonal processes, group dynamics.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Leadership Foundations: Meaning of Leadership, Leadership development,	2
	Skills for developing oneself as a leader, Leadership styles: Charismatic and	
	Transformational styles	
2.	Matching leadership to the situation: The Situation, Contingency theories of	2
	Leadership	
3.	Leadership and Change, The dark side of Leadership, Skills for optimizing	2
	leadership as situations change	
4.	Leadership and culture: Creating culture by leaders, Leadership in the Indian	2
	context, Leadership in Eastern and Western culture	
5.	Leadership under a crisis situation: Crisis behavior, Leadership judgment and	2
	decision under crisis, Leadership Skills in crisis and uncertainty	
6.	Teams: conceptual foundations, Team effectiveness	2
7.	Leading teams: Enhancing teamwork within a group: The leader's role in	2
	team-based organizations.	
8.	Virtual teams, managing multicultural teams, Building great teams.	2
9.	Understanding team processes and Team Coaching, Team decision making	2
	and conflict management	
10.	Leader actions that foster teamwork, Offsite training and team development,	3
	the leader-member exchange model, and teamwork	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Hughes, R.L., Ginnett, R.C., & Curphy, G.J., Leadership:	2019
	Enhancing the lessons of experience, 9 <sup>th</sup> Edition, McGraw Hill	
	Education	
2.	Northouse, P., Leadership: Theory and Practice. Sage	2019
3.	Bass, B., The Bass Handbook of Leadership: Theory, research,	2009
	and managerial applications. Free Press	
4.	Harvard Business Essentials, Creating teams with an edge,	2004
	Harvard Business School Press	
5.	Uday Kumar Haldar, Leadership and Team Building, Oxford	2010
	University Press	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-644 Course Title: Talent Acquisition and Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5.** Credits: 1.5 **6.** Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To familiarize the Students with Talent Management and help them understand the Acquisition, Retention, Development and Compensation practices also enhances understanding of the Talent Management Practices in India, USA, Europe and Asia.

S.No.	Contents	Contact
		hours
1.	Introduction to Talent Acquisition Attracting Talent Easy to approach Top	2
	Talent ,Creating Work place to attract Talent	
2.	Six Principles of Talent Management, Role satisfaction and psychological	2
	empowerment as determinants of Talent Management	
3.	Nurturing Talent Leadership for Talent Management, Engaging Talent	2
	Preparing Talent through on Boarding World-class Talent Management	
	Practices	
4.	The Secrets of Leadership and Talent Management- Talent Management	2
	Leadership Differentiating different Leadership Styles, Leadership for Talent	
	Employees	
5.	Dynamic Approach to Talent Management, Talent Analytics Understanding	2
	and Motivation, Talent Success Drivers	
6.	Trends and Comparison of Hr Practices Across Asia, Europe and USA,	2
	Growing Talent Adapting Changing Workforce, Talent Bidding	
7.	Talent Engagement, Talent Mobility, Big Data _Talent Analytics,	2
	Embedding and sustaining Talent Power.	
8.	Employment to Consultation, Impact of Globalization on Talent	2
	Management	
9.	Talent Enhancement & Drivers of Success, Model of Integrated Talent	2
	Management	
10.	Building sustainable talent through Talent Management, Feeling and	3
	Sentiments analysis, Talent powered Organization, Critical Issues in Talent	
	Management Organizational Culture-Sustainable Talent and Talent	
	Retention	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Lance A. Berger & Dorothy R. Berger, Talent Management	2018
	Handbook (Third Edition), McGraw-Hill Education, USA.	
2.	Terry Bickham, (Editor), Talent Management Handbook, Viva	2017
	Books Private Limited, India.	
3.	Robert F. Silzer& Ben Dowell (Editors), Strategy Driven	2010
	Talent Management: A Leadership Imperative, Jossey-Bass	
	Inprint, USA.	
4.	Peter Cheese, Robert J Thomas and Elizabeth Craig, The	2008
	Talent Powered Organization: Strategies for Globalization,	
	Talent Management and High Performance, British Library	
	Cataloguing-in-Publication Data, USA.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-645 Course Title: Future of Work

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To develop skills that are future ready.

S.No.	Contents	Contact hours
1.	Future of Work – introduction and objectives, Future of work and technological changes, dimensions shaping Future of work, Drivers and challenges; Disruption in work, Artificial and Augmented Intelligence, creation of new jobs	3
2.	Labour model for Future of work – development and future of gig and contractor economy; Gig workforce, regulatory issues around the gig workforce; business responsibility towards employees, employee-centric organizations; workforce ecosystems; flexible work solutions	3
3.	Skills and education in the future workplace – Automation of the workforce; human and automation, transitions in skills in the age of automation; AI and robotics in work; workforce transformation – concept and model; Education for workplace readiness	3
4.	Remote working – concept and evolution; telework, telecommuting, remote work, and virtual work; current trends in remote working, challenges; digital employee well-being, work-life challenges of remote working; Future of remote work	3
5.	Virtual workspace – traditional and virtual work, challenges; transitioning to a virtual workspace; managing a virtual workspace; Virtual teams and collaboration; communication in virtual teams; management and challenges in virtual teams; culture values of a virtual workforce; Diversity and inclusion issues in a virtual space	3
6.	Designing the future of work – cultural transformation, role and challenges; digital transformation, employee experience and its evolution, employee engagement, trends reshaping employee experience; people management, the role of employers.	3
7.	Developing economies and future of work – developing vs developed economies shaping future of work; technological changes and developing economy, disruption and labour factors, the role of government; quality of jobs	3
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Fred Oswald, Tara S. Behrend, Lori Foster, Workforce	2019
	Readiness and the Future of Work. Taylor & Francis. 1st	
	Edition.	
2.	Adrian Wilkinson, Michael Barry, The Future of Work and	2020
	Employment. Edward Elgar Publishing. 1st Edition.	
3.	Jacob Morgan, The Future of Work: Attract New Talent, Build	2014
	Better Leaders, and Create a Competitive	
	Organization". Wiley. 1st Edition.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-646 Course Title: Managing Workforce Diversity

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5.** Credits: 1.5 **6.** Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To recognize importance of skills required for effective management of workplace diversity.

#### 10. Details of the Course

S.No.	Contents	
		hours
1.	Introduction to workplace diversity, Learning: Individual Perspectives of	3
	Diversity Prejudice, stereotypes, discrimination Privilege Differences and	
	conflict Organizational diversity	
2.	<b>Primary Dimensions of Diversity</b> : Race, ethnicity, age, gender, sexual orientation, physical and mental challenges, Differences between primary and secondary dimensions of diversity, Group memberships-social identity Organizational adaptation-culture, practice, policies Effective communication among cultures	3
3.	<b>Secondary Dimensions of Diversity</b> Social class, religion, appearance/weight, language/communication, military service Impact on work and personal experiences Ramifications of social class privileges	3
4.	<b>Ethical, legal, media and marketing issues in managing diversity</b> Ethical and legal implications in managing diversity	3
5.	Business opportunities and diverse consumers Media effectiveness in reaching diverse consumers	3
6.	Organizational Strategies for Managing Workforce Diversity, Workplace inclusion strategies through corporate leadership	3
7.	<b>Diversity training,</b> mentoring, employee resource groups, supplier diversity programs, corporate social responsibility initiatives Flexible work programs Workplace bullying Inclusion and benefits	3
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Carol P. Harvey and M. June Allard, Understanding and	2014
	Managing Diversity: Readings, Cases, and Exercises, Pearson	
	International Edition	
2.	Managing Diversity, Harvard Business School Publishing	2001
	Corporation, Boston.	
3.	Gardenswartz, Lee, Rowe, Anita, Digh, Patricia and Bennett,	2005
	Martin, The Global Diversity Desk Reference: Managing an	
	International Workforce, Wiley.	
4.	Loden, Marilyn, Implementing Diversity, McGraw-Hill.	1996

5.	Stockdale, Margaret S. and Crosby Faye J. ed., The	2009
	Psychology and Management of Workplace Diversity.	
	Blackwell Publishing	
6.	Mor Barak, Michalle E, Managing Diversity: Toward a	2005
	Globally Inclusive Workplace, Sage Publications.	
7.	Sparke, Matthew Malden, introducing globalization: ties,	2013
	tensions, and uneven integration.: Wiley-Blackwell.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-611 Course Title: Knowledge Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To give perspectives on utilization of knowledge in contemporary organizations to have a sustainable competitive advantage.

S.No.	Contents	Contact hours
1.	Introduction to Knowledge Economy: Context and relevance of KM in the changing landscape of business, Emergence of Knowledge economy, Demanding knowledge driven strategic approach	3
2.	Data, Information, and knowledge: Data, information, Knowledge, Business intelligence, Types of knowledge, tacit and explicit knowledge, Knowledge: a driver for creativity and innovation, Knowledge a strategic resource, Business benefits of knowledge	3
3.	Knowledge management: Knowledge Management, Knowledge Development Cycle, Thematic analysis of knowledge Management, Knowledge transformation and its dynamics, SECI model, Business Cases on Knowledge Management	3
4.	Knowledge management design and architecture: Generic model of knowledge management system, Challenges in developing knowledge management system, KM system design and architecture, Knowledge Construction architecture, Implementation of KMS	3
5.	Business strategy and (Identification, validation, creation, and acquisition of knowledge: KM business strategy and knowledge link, A knowledge strategy framework, Validation of knowledge through knowledge models, Creation and acquisition of knowledge, Knowledge Capturing tacit knowledge: Knowledge capture techniques	3
6.	Knowledge codification and system implementation, Knowledge transfer and knowledge sharing	2
7.	Management of human capital: Organizational Learning and Learning Organization, Concept of building a learning organization; Five core disciplines of a learning organization, Organization learning, Human resource management for KM and paradigm shift in HRM functions	2
8.	Case illustrations of knowledge management: KM in Indian organizations and MNC, sharing tacit knowledge, case studies of companies	2
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Waman S Jawadekar, knowledge Management: Text & Cases,	2011
	Tata Mc Grawhill	
2.	Elais M Awad and Hassan M Ghaziri., Knowledge	2013
	Management, 2 <sup>nd</sup> Edition, PHI Learning	
3.	Shelda Debowski, Knowledge Management, Wiley	2007
	Publications	
4.	Barnes, S., "Knowledge Management Systems: Theory &	2002
	Practice", Thomson Learning Press	
5.	Maier, R., "Knowledge Management System", Springer	2002
6.	Tiwana, A., "Knowledge Management Tool Kit", Pearson	2002
	Education	
7.	Thomas H. Davenport, Laurence Prusak, Working	2000
	Knowledge. Harvard Business School Press.	
8.	Sultan Kermally, Effective Knowledge Management; A Best	2002
	Practice Blueprint, John Wiley & Sons Inc	
9.	Peter F. Drucker, David Garvin, Leonard Dorothy, Straus	1998
	Susan, John Seely Brown Harvard Business Review on	
	Knowledge Management.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-671 Course Title: Advanced Consumer Behavior Analysis

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To develop an understanding of the consumer decision making process, various factors influencing the decision-making process and the strategic applications of understanding consumer behavior in marketing functions of firms.

S.No.	Contents	Contact
		hours
1.	Consumer behavior introduction: Nature, scope, understanding core	4
	marketing concepts - market segmentation, targeting, and positioning,	
	customer value, satisfaction, and retention. Consumer Decision Making	
	Process	
2.	Individual determinants of consumer behavior -consumer motivation,	4
	<b>personality, and perception:</b> The dynamics of motivation, theories of needs,	
	personality and self-perception, personality traits, personality development,	
	personality theories and application, sensory information, absolute and	
	differential thresholds, perceptual selection, organization, and interpretation.	
3.	Individual determinants of consumer behavior - consumer learning,	4
	attitude formation and change: Elements of consumer learning-motives,	
	cues, reinforcement; classical conditioning, instrumental conditioning,	
	observational learning, cognitive learning; information processing; outcomes	
	and measures of consumer learning -recognition and recall, brand loyalty and	
	brand equity; characteristics and functions of attitude ,attitude theories and	
	models.	
4.	Environmental influences on consumer behavior: Role of culture in	5
	understanding consumer behavior, cultural values, subcultures, ethnicity,	
	cross-cultural consumer behavior, social class, process of social stratification,	
	family and household influences, consumer socialization, family life cycle,	
	family decision- making and role of members.	
5.	Influencing Consumer Behavior: Persuading consumers- elements of	4
	communication, channels of communication; shaping consumers' opinion-	
	reference groups and communities, endorsers, spokesperson, opinion leaders,	
	and word-of-mouth.	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Blackwell, R.D., Miniard, P.W. and Engel, J. F, Rahman,	2017
	Z., "Consumer Behavior", I0 <sup>th</sup> Ed., Cengage India	
2.	Schiffman, L. and Kanuk, L., "Consumer Behavior", 12 ed.,	2018
	Prentice Hall	
3.	Jain, V., and Seth, J, "Consumer Behaviour: A Digital	2019
	Native", Pearson	
4.	Solomon, M.R., "Consumer Behavior", 13 Ed., Prentice Hall	2020

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-672 Course Title: Brand Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge on complexities of a company's market offer and Product and Brand Management.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Concept and role of brand management in current dynamic environment,	3
	value creation through brand management, branding challenges and opportunities	
2.	Customer brand equity and positioning, brand resonance and brand value	3
	chain	
3.	Brand Image, brand identity and brand valuation and conceptual implications	4
	of the approaches to brand loyalty	
4.	Understanding brand life cycle and brand marketing, designing marketing	4
	programs to build brand equity covering aspects of integrated marketing	
	communications	
5.	Designing and implementing brand architecture strategies, new products and	4
	brand extensions, managing brands over time, geographic boundaries and	
	market segments	
6.	Developing a brand equity measurement and management system, brand	3
	equity source measurement and measuring outcomes	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Keller, K.L. and Swaminathan V., "Strategic Brand	2019
	Management: Building, Measuring, and Managing Brand	
	Equity", 5 <sup>th</sup> Ed., Prentice Hall	
2.	Kapferer, J., "The New Strategic Brand Management:	2012
	Advanced Insights and Strategic Thinking", 5th Ed., Kogan	
	Page	
3.	Trott, P., "Innovation Management and New Product	2008
	Development", 4 <sup>th</sup> Ed., Prentice Hall	
4.	Donald, R.L. and Russell S.W., "Product Management", 3 <sup>rd</sup>	2002
	Ed., Tata McGraw Hill	
5.	Reis, A. and Trout, J., "Positioning: The Battle for Your	2001
	Mind", McGraw Hill Education	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-673 Course Title: Integrated Marketing Communications

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To impart knowledge on integrated role of marketing communications.

S.No.	Contents	Contact
		hours
1.	Introduction to IMC, role in the marketing process and its various components, emerging trends in IMC. Fundamental IMC planning background and decisions, determination of promotion mix and its relevance and interrelationship in IMC process	3
2.	Communication process and consumer behaviour, role of persuasion in IMC.  Objective setting and understanding budgeting decisions. Role of advertising agencies and other media organizations in defining and redefining integrated marketing communication	3
3.	Developing IMC program; planning, development, implementation and evaluation of creative strategy, understanding media planning and strategy	3
4.	Advertising media- traditional and modern, function and integration with support media	3
5.	Direct Marketing/database marketing, role, functions, application and comparative advantages. Sales promotion- scope, role, growth and techniques, integration of sales promotion with other promotion elements. Personal selling- role in IMC, advantages, steps, selling activities and types of selling jobs	4
6.	Public relations, word-of-mouth influence and sponsorships. The Internet: Mobile advertising, digital and social media.	3
7.	Measurement of effectiveness of IMC program, evaluation of social ethical and economical aspects of promotional strategies	2
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Belch, G.E. and Belch, M.A., "Advertising and Promotion: An	2017
	Integrated Marketing Communications Perspective, 11 <sup>th</sup> Ed.,	
	McGraw-Hill Higher Education	
2.	Terence, A.S. and Andrews, J.A., "Advertising, Promotion and	2017
	other aspects of Integrated Marketing Communications", 10 <sup>th</sup>	
	Ed., Cengage Learning	
3.	Clow, K.E. and Baack, D., "Integrated Advertising, Promotion	2017
	and Marketing Communications", 8th Ed., Pearson	
4.	Shah, K., "Advertising and Integrated Marketing	2017
	Communications", McGraw Hill Education	
5.	Wind, Y. and Hays, C.F., "Beyond Advertising: Creating	2016
	Value through all Customer Touchpoints", Wiley	
6.	Berger, J., "Contagious: Why Things Catch On", Simon &	2013
	Schuster	
7.	Cialdini, R.B., "Influence: The Psychology of Persuasion",	2009
	HarperCollins	
8.	Heath C. and Heath D., "Made to Stick: Why Some Ideas	2007
	Survive and Others Die", Random House	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-674 Course Title: Sales and Distribution Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To impart knowledge of sales and distribution channel management in coherence with complete supply chain management system.

S.No.	Contents	Contact
		hours
1.	Introduction: Meaning, Evolution, Objectives and Scope of Sales	2
	Management, Types and Role of Sales Managers, Emerging Trends in Sales	
	Management	
2.	Personal Selling, Sales Management and Salesmanship: Buyer-Seller	3
	Dyads, Theories of Selling, Phases in the Selling Process	
3.	Personal Selling Objectives: Types of Personal Selling Objectives,	2
	Analyzing Market Potential, Sales Forecasting Methods	
4.	Sales Related Marketing Policies and Strategy Formulation: Product,	2
	Distribution and Price Related Marketing Polices, Formulating a Personal	
	Selling Strategy	
5.	Sales Organization: Purpose, Types of Sales Organizations Structure,	3
	Setting up a Sales Organization, Interdepartmental Coordination	
6.	Sales Force Management: Recruitment and Selection, Training, Motivation	3
	and Compensation	
7.	Controlling Sales Effort: Evaluation and Control, Targets and Sales	2
	Management, Territory Management	
8.	Channel Management: Channel functions, Managing Channel Partners,	4
	Conflict Management, Logistics and Supply Chain Management	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of Publication / Reprint
1.	Still, R. Cundiff, E.F., Govoni, A.P.N. and Puri, S., "Sales and	2017
	Distribution Management, 6 <sup>th</sup> Edition, Pearson	
2.	Havaldar, K.K. and Cavale, V.M., "Sales and Distribution	2017
	Management - Text and Cases" 3rd Edition, McGraw Hill India	
3.	Nag, A., "Sales and Distribution Management", 1st Ed., McGraw	2013
	Hill India.	
4.	Jobber, D. and Lancaster, G., "Selling and Sales Management", 9th	2012
	Ed., Pearson.	
5.	Tanner, J., Honeycutt, E.D., and Erffmeyer, R.C., "Sales	2008
	Management.	
6.	Venugopal Pingali, Sales and Distribution Management: An	2021
	Integrative Approach, Sage Publishing	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-675 Course Title: Pricing Strategies

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge of importance of pricing strategies and its effect on the overall sales and profitability of a company.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	<b>Introduction:</b> Importance of Pricing, The role of pricing in value creation,	3
	Conventional approaches – and their limitations, Course overview and	
	administrative issues, Break-even analysis, Economic Value and Pricing	
	Economic value to the consumer, Willingness-to-Pay.	
2.	<b>Pricing to Maximize Profits:</b> Primarily review topics from the core with an	3
	emphasis on their relationship to pricing, Pricing for profit-maximization,	
	The Prospect Theory of Daniel Kahneman; St. Petersburg's paradox and the	
	related issues, The Role of Costs.	
3.	Measuring Willingness to Pay: Measuring price sensitivity using surveys,	3
	Brief discussion of designing surveys for pricing research, Methods to elicit	
	willingness-to-pay, Conjoint analysis to estimate elasticity.	
4.	Pricing a new product/Multi Product pricing: Using regression to	3
	estimate elasticity, Pricing multiple products, Complements and substitutes,	
	Cross-price elasticity.	
5.	Segmentation & Product Line Pricing: Benefits of segmented pricing,	3
	Techniques for segmented pricing	
6.	<b>Pricing over Time:</b> Role of promotions to achieve price objectives, Hi-Lo	3
	vs. EDLP pricing strategy, Skimming and penetration pricing,	
	Experimentation, and mark-downs.	
7.	Competition and Pricing: Incorporating competition into pricing strategy,	3
	Effective responses to competitive pricing moves, Managing price wars,	
	Pricing and the Law, Legal constraints on pricing, Antitrust laws, Discussion	
	of recent merger and antitrust cases	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Vohra and Krishnamurthy, Principles of Pricing, Cambridge	2012
	Publications	
2.	Tim J Smith, Pricing Strategy: Setting Price Levels, Managing	2015
	Price Discounts and Establishing Price Structures, Cengage	
	Learning	
3.	Hermann Simon, Confessions of the Pricing Man: How Price	2015
	Affects Everything, Springer	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-676 Course Title: Business to Business Marketing

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge of B2B marketing with knowledge of the realities of industrial market place, cross-functional decision-making processes, supply chain management, e-commerce and related areas.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Introduction to B2B Marketing: Introduction, B2B versus B2C,	3
	Understanding the B2B market environment	
2.	Buying Behaviour: Growth, Trends, Competition and Organizational	3
	Buying Behavior	
3.	Product Strategy in B2B Markets: Segmentation, Position & Targeting	3
	Business to Business Branding	
4.	Pricing: Pricing Strategy in B2B Markets	3
5.	Channel Management: Marketing Channels, Supply Chain Management,	3
	Developing and Managing Channels of Distribution	
6.	Communication Strategy: Communication Strategy in B2B Markets,	3
	Managing the Personal Selling Function	
7.	Sales Force Management: Sales Force Design and Management in B2B	3
	Markets	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		Publication / Reprint
1.	Sharma Dheeraj, Michael D. Hutt, Thomas W. Speh, B2B	2015
	Marketing: A South-Asian Perspective, Cengage, 8th edition	
2.	James C. Anderson, Business Market Management (B2B),	2010
	Pearson Publications.	
3.	K.K. Havaldar, Business Marketing: Text and Cases, McGraw	2017
	Hill Publications 4 <sup>th</sup> edition	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-677 Course Title: Services Marketing

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge of marketing of services.

# 10. Details of the Course

S.No.	Contents	Contact	
		hours	
1.	Introduction: Characteristics of services compared to goods, services	2	
	marketing mix.		
2.	Focusing on the customer: Consumer behavior in services; consumer	4	
	experience, post purchase evaluation, customer expectations, factors		
	influencing customer expectations, customer perceptions, service quality,		
	service encounters.		
3.	Customer requirement analysis: Market research for services, customer	3	
	relationship management and service recovery.		
4.	Service design and standards: Service development, design and standards,	3	
	physical evidence and servicescape.		
5.	<b>Delivering services:</b> Employees' and customers' roles in service delivery,	3	
	delivering services through intermediaries and electronic channels, managing		
	demand and capacity.		
6.	Managing service promises: Managing integrated marketing	3	
	communications and pricing services.		
7.	Economic and financial impact of service: Customer retention, balanced	3	
	performance scorecard, strategy maps.		
	Total	21	

S.No.	Name of Authors/Book/Publisher	Year of
		Publication / Reprint
1.	Zeithaml, VA., Bitner, M.J., "Services Marketing - Integrating	2019
	Customer Focus Across the Firm", 8th Ed., McGraw-Hill	
	Higher Education	
2.	Wirtz, J., Lovelock, C.," Services Marketing People	2017
	Technology Strategy", 8th ed, Pearson Education.	
3.	K. Douglas H, John E.G. B, "Services Marketing: Concepts,	2017
	Strategies and Cases, 6 <sup>th</sup> Ed., Cengage India	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-679 Course Title: Retail Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To impart knowledge of retail management.

S.No.	Contents	Contact
		hours
1.	Introduction to the World of Retailing: Meaning, Functions of Retailing,	2
	Economic Significance of Retailing, Retailing Management Decision Process,	
	Traditional vs. Organized Retailing in India, Ethical aspects in Retailing	
2.	Retail Formats and the Marketing Environment: Key Retailing Formats,	3
	Understanding the Retail Environment, Overview of Private Label Brands and	
	National Brands	
3.	Understanding the Retailing Consumer: Factors influencing Retail Shoppers,	2
	Consumer Decision Making Process, Understanding Multi-channel Shopping	
	Behaviour	
4.	Retail Marketing Strategies: Target Market and Retail Formats, Building a	3
	Sustainable Competitive Advantage, Strategic Retail Planning Process,	
	Overview of Financial Strategy	
5.	Store Location and Layout: Types of Retail Stores Location, Factors Affecting	2
	Retail Location Decisions, Location Based Retail Strategies	
6.	Retail Merchandising: Understanding Merchandising Management,	3
	Merchandising Management Process and Merchandise Buying	
7.	Store Design, Layout and Visual Merchandising: Concept, Principle and	2
	Elements of Store Design, Visual Merchandising	
8.	Retail Pricing: Establishing Pricing Policies, Factors Influencing Pricing and	2
	Popular Pricing Strategies	
9.	<b>Retail Distribution:</b> Role of Distribution in Retailing, Role of Technology in	2
	Retailing, Factors Influencing the Retail Supply Chain, E-tailing	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		Publication / Reprint
1.	Robert F. Lusch, James R. Carver, Patrick M. Dunne, Retailing,	2015
	Cengage, 8th edition	
2.	Barry Berman, Joel R Evans, Patrali Chatterjee, Ritu Srivastava,	2018
	Retail Management: A Strategic Approach, Pearson, 13th	
	edition	
3.	Michael Levy, Barton A. Weitz, Ajay Pandit, Retailing	2017
	Management, McGraw Hill, 8th edition	
4.	J.K. Nayak & Prakash Dash, Retail Management, Cengage	2016
5.	Swapna Pradhan, Retail Management: Text and Cases, McGraw	2020
	Hill, Edition 6e	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-680 Course Title: Rural Marketing

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To provide knowledge of rural markets, consumers, rural products, and services and to promote entrepreneurship and help in the development of new startup's in the field of rural marketing.

S.No.	Contents	Contact
		hours
1.	Introduction to rural marketing: Rural Marketing Concept, Nature, scope	4
	and significance of Rural Marketing, factors contributing to growth of rural	
	markets, Rural Market vs. Urban Market, e-rural marketing, rural economic	
	structure, rural infrastructure, rural consumer behavior, buying decision	
	making of rural consumers.	_
2.	Product, pricing, and promotional strategy for rural consumers: Rural	5
	marketing research, 4A's of rural marketing, Segmenting and targeting rural	
	markets, product strategy for rural markets, Pricing in rural markets,	
	advertising and promotion for the rural consumers, Rural Marketing	
	Information System.	4
3.	Marketing of Agri-related products and services: Marketing of	4
	Agricultural Produce and Inputs, Regulated markets, Cooperative Marketing	
	& Processing Societies, Corporate Sector in Agri-Business: Cultivation,	
	Processing & Retailing, Rural Marketing of FMCGs, Durables & Financial Services.	
4.	Channel management for rural markets: Channel dynamics and rural	3
4.	channel members, Distribution models in rural markets, communication	3
	strategies for rural markets, Logistics Management - Problems encountered -	
	selection of appropriate channels - New approaches to reach out rural	
	markets, Distribution System in Rural Marketing, warehousing.	
5.	Incubation and Start-ups: Start-up Village Entrepreneurship Development	5
	Programme (SVEP), Skill development, Entrepreneurship, Innovations,	
	popular case studies of new startup's, agencies supporting and funding	
	startup's, AI and IoT based startups in rural marketing (Escorts, TCS), Digital	
	revolution, Special initiatives taken by government of India, Agriculture	
	Technology Incubation – Prospects of future functioning of start-ups in	
	Agriculture space.	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Rural marketing by Pradeep Kashyap, 3 <sup>rd</sup> Edition, Pearson	2016
	Publication.	
2.	Rural marketing: challenges and opportunities by Dinesh	2017
	Kumar and Punam Gupta, Sage Publications.	
3.	Rural marketing: text and cases by Krishnamacharyulu, 2 <sup>nd</sup>	2010
	edition, Pearson Publication	
4.	Rural marketing concepts and practices by Balram Dogra and	2007
	Karminder Ghuman, McGraw Hill Publication.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-623 Course Title: Global Marketing Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5.** Credits: 1.5 **6.** Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To acquaint the students with environmental procedural, institutional and decisional aspects of cross border marketing with an emphasis on the global nature of marketing.

#### 10. Details of the Course

S.No.	. Contents	
		hours
1.	Introduction to Global Marketing: Globalization Imperative,	3
	Understanding the Global Consumer, Globalization of Markets, Evolution of	
	Global Marketing	
2.	Global Marketing Environment: Economic Environment, Country	4
	Competitiveness, Trading Agreements, Financial Environment, Political and	
	Legal Environment, Law and Legal Requirements, Issues transcending	
	national boundaries	
3.	Developing Competitive Marketing Strategies: Global Market Research,	4
	Segmentation, Targeting and Positioning in Global Markets, Regionalization	
	of Global Markets, Market Entry and Exit Strategies, Global Sourcing	
	Strategies and Value chain	
4.	Global Marketing Strategy Development 1: New Product Development in	4
	Global Markets, Managing Products and Services Globally, Branding in	
	International Markets, International Pricing	
5.	Global Marketing Strategy Development 2: Global Distribution and	3
	Logistics, Global Retailing and Communicating with Global Customers and	
	Media Decisions in International Markets, Export and Import Management	
6.	Managing Global Operations: Planning, Organizing and Control of Global	3
	Marketing Operations, Using Technology for Global Marketing	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		Publication / Reprint
1.	Kotabe, Masaaki and Helsen, Kristiaan, "Global Marketing	2021
	Management", 8 <sup>th</sup> ed, Wiley	
2.	Alon, I and Jaffe, E., "Global Marketing: Strategy, Practice,	2020
	and Cases", 3 <sup>rd</sup> Ed, Routledge	
3.	Beveridge, I, "Intercultural Marketing: Theory and Practice",	2020
	1st Ed Routledge	
4.	Keegan, W J, "Global Marketing", 9th ed, Pearson Education	2018

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-651 Course Title: Manufacturing Strategy

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5. Credits:** 1.5 **6. Term:** IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge regarding use of manufacturing and operations activities for improving the competitiveness of the organization.

#### 10. Details of the Course

S.No.	Contents	
		hours
1.	Strategic issues in manufacturing, Competing through manufacturing	2
2.	Developing an operations strategy: Principles and Concepts	4
3.	Concept of order winners and qualifiers: Basic characteristics and specific	4
	dimensions	
4.	Developing an operations and manufacturing strategy: Methodology	3
5.	Process Choice - overview, business implications, hybrid processes,	3
	technology strategy	
6.	Focus: Principles, concepts and methodology	3
7.	World Class Manufacturing – concepts and cases	2
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Hill T and Hill A, "Manufacturing Operations Strategy" 3 <sup>rd</sup>	2009
	Edition, Palgrave Macmillan	
2.	Todd, J. "World Class Manufacturing", 2 <sup>nd</sup> Ed, McGraw Hill	2008
3.	Schonberger R J, "World Class Manufacturing: The Lessons	2008
	of Simplicity Applied", 3 <sup>rd</sup> Ed. The Free Press	
4.	Slack N and Lewis M, "Operations Strategy", 2 <sup>nd</sup> Edition,	2009
	Pearson	
5.	Sahay B S, Saxena K B C and Kumar A, "World Class	2009
	Manufacturing- A Strategic Perspective" Macmillan	
6.	Skinner W., "Manufacturing in the Corporate Strategy", Wiley	1978

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-652 Course Title: Service Operations Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5. Credits:** 1.5 **6. Term:** IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart knowledge on various aspects of services operations management and provide exposure to tools and techniques to gain strategic advantage through service operations.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Understanding services economy, global trends in services sector, Rising service sector in India	2
2.	Understanding the challenges for operations managers, developing and using the service concept	3
3.	Understanding customers and relationships, managing customer expectations and perceptions, managing supply networks and supplier relationships	5
4.	Designing the customer experience and service process, measuring, controlling and managing operations and managing service resources	5
5.	Driving continuous improvement, learning from other operations- benchmarking, Service quality- Servqual	4
6.	Building a world class service organization	2
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Fitzsimmons J A and Fitzsimmons M J, "Service	2008
	Management: Operations, Strategy and Information	
	Technology", McGraw Hill	
2.	Johnston R., Clark G., and Shulver M., "Service Operations	2020
	Management", 4th Ed., Pearson	
3.	Haksever C., Render B., Russel S.R. and Murdick R.G.,	2007
	"Service Management and Operations", 2 <sup>nd</sup> Ed, Prentice Hall	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

Course Title: Supply Chain Analytics **Subject Code:** BMN-653

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

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

4. Relative Weightage: CWS: 50 **PRS:** 0 **MTE:** 0 **ETE:** 50 **PRE:** 0

**5.** Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

Objective: To impart knowledge about using of different analytical models for supply chain

decision making.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Different aspects of supply chain decision making and various tools for real	3
	time analysis	
2.	Designing global supply chain networks	2
3.	Demand forecasting in a supply chain, role of IT in forecasting, Use of AI	5
	tools in forecasting for supply chain	
4.	Sales and Operations planning, Use of different tools	4
5.	Managing economies of scale and uncertainties in a supply chain	5
6.	Optimal level of product availability	2
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Sunil Chopra, Peter Meindl, Supply Chain Management,	2019
	Pearson	
2.	D. Simchi-Levi, P. Kaminsky, E. Simchi-Levi, Ravi Shankar,	2017
	Designing and Managing the Supply Chain, Tata McGraw Hill	
3.	Shah Janat, Supply Chain Management, Pearson Education	2016

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-654 Course Title: Operations Analytics

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To impart knowledge of operations analytics for managers.

# 10. Details of the Course

S.No.	Contents	
		hours
1.	Foundations of descriptive analytics for operations, historical demand data to	2
	build forecasts for future demand, news vendor problem	
2.	Evaluation and comparison of decisions when their impact is uncertain-	2
	simulation models, measurement of risk and reward	
3.	Decision trees, Using Simulation with Decision Trees, Using Optimization	2
	together with Simulation	
4.	Revenue management-Quantity-based: introduction, Single-resource	2
	capacity Control	
5.	Revenue management-Quantity-based: network capacity control,	2
	overbooking	
6.	Revenue management: price-based- dynamic pricing	2
7.	Revenue management: price-based- auctions	2
8.	Multi attribute decision making techniques: Analytic Network Process and	4
	Fuzzy Analytic Network Process, Simple Additive Weighting Method	
9.	Multi attribute decision making techniques: TOPSIS and VIKOR,	3
	ELECTRE Method, Structural Models	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Nahmias, S., & Olsen, T. L., Production and operations	2015
	analysis. Waveland Press.	
2.	Talluri, K. T., Van Ryzin, G., & Van Ryzin, G. The theory and	2004
	practice of revenue management (Vol. 1). Boston: Kluwer	
	Academic Publishers.	
3.	Tzeng, G. H., & Huang, J. J. Multiple attribute decision	2011
	making methods and applications. CRC press.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-655 Course Title: Essential AI for Managers

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To build foundation on essential AI for managers.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Essential programming in python	5
2.	An overview of multi-armed bandits, contextual bandits, restless bandits,	6
	Algorithms such as UCB, greedy etc. Applications in dynamic pricing and	
	online advertisement.	
3.	Google search engine analytics, application of the PageRank algorithm,	3
	Analytics for kidney allocation, Layout design.	
4.	Fraud detection, reducing healthcare fraud, AI in asset management	3
5.	Introduction to Reinforcement Learning, Model free prediction, Q-learning	4
	in warehouse management	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Sugiyama, Masashi. Statistical reinforcement learning:	2015
	modern machine learning approaches. CRC Press.	
2.	Sutton, Richard S., and Andrew G. Barto. Reinforcement	2018
	learning: An introduction. MIT press.	
3.	Bertsimas, Dimitris, and Robert Michael Freund. Data,	2010
	models, and decisions: The fundamentals of management	
	science. South-Western Pub.	
4.	Bertsimas, Dimitris, K. O. Allison, and William R.	2016
	Pulleyblank. The analytics edge. Charlestown, MA: Dynamic	
	Ideas LLC.	
5.	OR Tools library by google developers	2020

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-656 Course Title: Advanced AI for Managers

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** The objective of this course is to introduce students advanced concepts in AI and analytics that are relevant to managers.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	End to end regression project: predicting housing prices, area burned, bike	5
	demand in future. End to end classification projects.	
2.	Ensemble Learning - Hard Voting, Soft Voting, Criteria, Accuracy,	4
	Ensemble - Classification or Regression, CNNs - Why CNNs Shine Now	
	RNNs - Language Translation.	
3.	Challenges in Machine learning projects, time series data imputation,	4
	Principle component analysis, Advantages of dimensionality reduction, Pre-	
	trained neural network models.	
4.	Case of missing value, overfitting or underfitting, methods to avoid	4
	overfitting. Pre-trained neural network models	
5.	Unsupervised learning, Generalized AI and real life large projects,	4
	Increasing revenue with analytics, Recommendations worth a million, online	
	advertising.	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Sugiyama, Masashi. Statistical reinforcement learning:	2015
	modern machine learning approaches. CRC Press.	
2.	Bertsimas, Dimitris, and Robert Michael Freund. Data,	2010
	models, and decisions: The fundamentals of management	
	science. South-Western Pub.	
3.	Bertsimas, Dimitris, K. O. Allison, and William R.	2016
	Pulleyblank. The analytics edge. Charlestown, MA: Dynamic	
	Ideas LLC.	
4.	U Dinesh Kumar "Business Analytics – The Science of Data	2017
	Driven Decision Making", Wiley,	
5.	Manaranjan Pradhan and U Dinesh Kumar, "Machine	2019
	Learning Using Python", Wiley.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-657 Course Title: Game theory for strategic advantage

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To build foundation on strategic thinking applied to managerial situations.

# 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Key notions in Game theory: preferences, utilities, rationality. Classification	4
	of Games: extensive and strategic form games.	
2.	Dominant strategy equilibrium, Pure and mixed strategy Nash equilibrium.	4
3.	Bargaining, Dynamic Price Competition, Introduction to Repeated	4
	Interaction, Long-run Relationships	
4.	Introduction to mechanism design, Social choice function, Incentive	5
	compatibility.	
5.	Introduction to Auctions, online auctions, designing optimal auctions,	4
	Sponsored search auctions.	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Y. Narahari, Game theory and Mechanism Design, Vol. 4.	2014
	World Scientific	
2.	Dixit, Avinash, Susan Skeath, and David Reiley. Games of	2015
	Strategy. 4th ed. W. W. Norton & Company.	
3.	Nisan, Noam, Tim Roughgarden, Eva Tardos, and Vijay V.	2010
	Vazirani. "Algorithmic Game Theory." Cambridge University	
	Press.	
4.	José Luis Ferreira, Game Theory: An Applied Introduction, 1st	2020
	edition International Higher Education.	
5.	M. Osborne, An Introduction to Game Theory, Oxford Univ.	2003
	Press	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-658 Course Title: Quality Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To provide an introduction to quality management and the basic methods to implement

S.No.	Contents	Contact
1.	Quality Improvement in the Modern Business Environment: The Meaning of Quality and Quality Improvement, Brief History of Quality and Quality Improvement, Statistical Methods of Quality Control and Improvement, Other Aspects of Quality Control and Improvement, Six Sigma, DMAIC	hours 3
2.	Modeling Process Quality: Describing Variations, Important Discrete Distributions, Important Continuous Distributions, Some Useful Approximations	3
3.	Inferences about Process Quality: Statistics and Sampling Distributions, Point Estimations of Process Parameters, Statistical Inference for a Single Sample, Statistical Inference for Two Samples, ANOVA	2
4.	Methods and Philosophy of Statistical Process Control (SPC): Introduction, Chance and Assignable Cause of Quality Variation, Statistical Basis of the Control Chart, The Rest of the "Magnificent Seven", Implementing SPC, Application of SPC, Non-manufacturing application of SPC	3
5.	<b>Control charts for variables and attributes:</b> Control charts for x and R, x and s, fraction non-conforming, non-conformities	3
6.	Process and Measurement System Capability Analysis: Introduction, Process Capability Analysis Using a Histogram or a Probability Plot, Process Capability Ratios, Process Capability Analysis Using a Control Chart, Process Capability Analysis Using Designed Experiments, Gauge and Measurement System Capability Studies, Setting Specification Limits on Discrete Components, Estimating the Natural Tolerance Limits of a Process	4
7.	<b>Cumulative Sum and Exponentially Weighted Moving Average Control</b>	3
	<b>Charts:</b> The Cumulative Sum Control Charts, The Exponentially Weighted Moving Average Control Charts, The Moving Average Control Charts	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		Publication / Reprint
1.	Douglas C. Montgomery," Introduction to Statistical Quality	2012
	Control" Wiley; 7 <sup>th</sup> edition	
2.	Dale H. Besterfield, C.B. Michna, G. H. Besterfield, M.B.	2015
	Sacre, "Total Quality Management", Pearson Prentice Hall, 4 <sup>th</sup>	
	Edition	
3.	Juran J. M. and Gryna, Jr. F.M., "Quality Planning and	2005
	Analysis", Tata McGraw Hill, 5th Edition	
4.	Ronald G Day, "Quality Function Deployment", Tata McGraw	1997
	Hill,1st edition	
5.	Howard Gitlow, Alan Oppenheim, Rosa Oppenheim, David	2017
	Levine, "Quality Management", Tata McGraw Hill, 3 <sup>rd</sup> Edition	
6.	I. Marash ,Marilyn Block, "Integrating ISO 14001 into a	2002
	Quality Management System", Tata Mc Graw Hill, 1st Edition	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-660 Course Title: Advanced Quality Management

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

**5.** Credits: 1.5 **6.** Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To survey advanced techniques in quality management and methods to implement it.

S.No.	o. Contents	
		hours
1.	Univariate Statistical Process Monitoring and Control Techniques : SPC	
	for Short Production Runs, Modified and Acceptance Control Charts, Control	
	Charts for Multi-Stream Processes, SPC with Auto correlated Process Data,	
	Adaptive Sampling Procedures, Economic Design of Control Charts,	
	Overview Other Procedure	
2.	Multivariate Process Monitoring and Control: The Multivariate Quality	3
	Control Problem, Description of Multivariate Data, The Hoteling T <sup>2</sup> Control	
	Chart, The Multivariate EWMA control Chart, Regression Adjustment,	
	Control Charts for Monitoring Variability, Latent Structure Methods.	
3.	Engineering Process Control (EPC) and SPC: Process Monitoring and	3
	Process Regulation, Process Control by Feedback Adjustment, Combining	
	SPC and EPC	
4.	Factorial and Fractional Experiments for Process Design and	3
	Improvement: Experimental Design, Example of Experimental Design in	
	Process Improvement, Guidelines for Designing Experiments, Factorial	
	Experiments, The 2 <sup>k</sup> Factorial Design, Fractional Replication of 2 <sup>k</sup> Design	
5.	Process Optimization with Designed Experiment: Response Surface	3
	Methods and Design, Process Robustness Studies, Evolutionary Operation	
6.	Lot-by-Lot Acceptance Sampling for Attributes: The Acceptance	3
	Sampling Problems, Single-Sampling Plans for Attributes, Double, Multiple	
	and Sequential Sampling, Military Standard 105E (ANSI/ASQCZ1.4,	
	ISO2859), The Dodge-Roming Sampling Plans	_
7.	Other Acceptance Sampling Techniques: Acceptance Sampling by	3
	Variables, Designing a Variables Sampling Plan With a Specified OC Curve,	
	IL STD 414 (ANSI/ASQCZ1.9), Other Variables Sampling Procedure, Chain	
	Sampling, Continuous Sampling, Skip-Lot Sampling Plans	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		Publication / Reprint
1.	Douglas C. Montgomery," Statistical Quality Control" Wiley;	2012
	7 <sup>th</sup> edition	
2.	Dale H. Besterfield, C.B. Michna, G. H. Besterfield, M.B.	2015
	Sacre, "Total Quality Management", Pearson Prentice Hall, 4 <sup>th</sup>	
	Edition	
3.	Juran J. M. and Gryna, Jr. F.M., "Quality Planning and	2005
	Analysis", Tata McGraw Hill, 5th Edition	
4.	Ronald G Day, "Quality Function Deployment", Tata McGraw	1997
	Hill, 1 <sup>st</sup> edition	
5.	Howard Gitlow, Alan Oppenheim, Rosa Oppenheim, David	2017
	Levine, "Quality Management", Tata McGraw Hill, 3 <sup>rd</sup> Edition	
6.	I. Marash ,Marilyn Block, "Integrating ISO 14001 into a	2002
	Quality Management System", Tata Mc Graw Hill, 1st Edition	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-669 Course Title: Case studies in application of decision models

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Basic knowledge of mathematical programming 8. Subject Area: PEC

**9. Objective:** To use modelling techniques through hands-on data analysis in a variety of application domains.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Introduction about advanced decision making models	1
2.	The Duckworth-Lewis-Stern method: For setting targets in shortened limited overs cricket matches	4
3.	<b>Mars orbit</b> : From Tycho Brahe's observations to the conclusion that Mars moves in an elliptical orbit	4
4.	<b>Renewable energy integration</b> : Power purchasing agreements; Feed in tariffs, RE certificates, Spot markets: Day ahead market, real time markets; Power procurement portfolios; Dispatch optimization: Ramping, cold start, warm start hot start, start-up cost; Generation capacity expansion planning.	6
5.	<b>Decarbonization</b> : Carbon markets; Carbon capture, storage and utilization, CO2 transportation: pipelines & Shipping; Shipping terminal catchment areas; Source sink matching	3
6.	<b>Select topics in water management</b> : Forecasting; sectoral allocation; conflict characterization	3
	Total	21

#### 11. Suggested Reading:

There is no textbook for this course. Slides of lectures and the relevant papers will be provided. Cases will be updated as the course evolves.

Following research papers will be primary reference source:

- 1. Duckworth, F. C., and Lewis, A.J. "A fair method for resetting the target in interrupted one-day cricket matches" Journal of the Operational Research Society, (Mar 1998)
- 2. Duckworth, F. C., and A. J. Lewis. "A successful operational research intervention in one-day cricket." Journal of the Operational Research Society, (Jul 2004). Sharma, T., & Balachandra, P. (2015). Benchmarking sustainability of Indian electricity system: An indicator approach. Applied Energy, 142. https://doi.org/10.1016/j.apenergy.2014.12.037

- 3. Sharma, Tarun, & Balachandra, P. (2019). Model based approach for planning dynamic integration of renewable energy in a transitioning electricity system. International Journal of Electrical Power & Energy Systems, 105, 642–659. https://doi.org/10.1016/J.IJEPES.2018.09.007
- 4. Sharma, Tarun, Gallachóir, B., & Rogan, F. (2020). A new hybrid approach for evaluating technology risks and opportunities in the energy transition in Ireland. Environmental Innovation and Societal Transitions, 35 (February), 429–444. https://doi.org/10.1016/j.eist.2020.01.012

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-670 Course Title: Circular supply chain for Sustainability

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To impart the knowledge of circular supply chain for sustainability in business.

# 10. Details of the Course

S.No.	No. Contents	
		hours
1.	The limits of linear consumption, From linear to circular, seven pillars of	2
	circular Economy, Case examples of circular products	
2.	Circular Economy Principles, basic circular economy framework, Growth	2
	and Sustainability	
3.	Waste and Systems-Level Thinking, Biological Cycles- cycles for biological	2
	materials	
4.	Material and Product Design, circular Supply Chains	2
5.	Business Models- offering products "as a service" instead of selling products	2
	and transferring ownership to consumers, opportunities, and challenges of	
	circular business models.	
6.	Policy - existing and potential policy changes to encourage greater circular	2
	flows, taxing material resource consumption	
7.	Role of Consumers, sharing Economy for circular Economy	2
8.	Technological developments for circular Economy, IoT and 3D printing for	2
	circular Economy	
9.	Financing requirement for circular Economy, innovative funding models	2
10.	Circular economy indicators and measurements, metrics of the circular	3
	economy company, city, and country levels	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Webster, K. The circular Economy: A wealth of flows. Ellen	2017
	MacArthur Foundation Publishing.	
2.	Grant, D. B., Wong, C. Y., & Trautrims, A. Sustainable	2017
	logistics and supply chain management: principles and	
	practices for sustainable operations and management. Kogan	
	Page Publishers.	
3.	Genovese, A., Acquaye, A. A., Figueroa, A., & Koh, S. L.	2017
	Sustainable supply chain management and the transition	
	towards a circular economy: Evidence and some	
	applications. Omega, 66, 344-357.	
4.	Stahel, W. R., & MacArthur, E. The circular Economy: A	2019
	user's guide. Routledge.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-620 Course Title: Industrial Internet of Things for Managers

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

**9. Objective:** To impart the knowledge of different cyber-physical systems for industrial applications.

#### 10. Details of the Course

S.No.	Contents	
		hours
1.	Introduction to IoT, Sensing & actuation, IoT Connectivity, The Fourth	3
	Revolution, industry 4.0	
2.	Smart and connected business perspective, Smart factories, Cyber-Physical	2
	Systems and Next Generation Sensors	
3.	Collaborative Platform Product Lifecycle Management, Augmented Reality	3
	and Virtual Reality, Artificial Intelligence	
4.	Big Data and Advanced Analysis, Cybersecurity in Industry 4.0	2
5.	Industrial Internet systems, Industrial Sensing & Actuation, Industrial	2
	Process	
6.	Business Models and Reference Architecture for IIoT, Enablers of IIoT:	2
	Sensing, connectivity, processing, and process control	
7.	IIoT Analytics and Data Management: Machine Learning and Data Science	2
8.	Cloud computing in IIoT, data centre networks, Software-defined networking	3
	(SDN)	
9.	Industrial IoT- Application Domains: Manufacturing and service industries	2
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Gilchrist, A., Industry 4.0: the industrial internet of things.	2016
	Apress.	
2.	Rawat, D. B., Brecher, C., Song, H., & Jeschke, S. Industrial	2017
	Rawat, D. B., Brecher, C., Song, H., & Jeschke, S. Industrial Internet of Things: Cybermanufacturing Systems. Cham,	
	Switzerland: Springer.	
3.	Misra, S., Roy, C., & Mukherjee, A. Introduction to Industrial	2021
	Internet of Things and Industry 4.0. CRC Press.	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-621 Course Title: Spreadsheet Modelling

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To introduce the participants to advanced interactive features of the popular spread sheet packages and the programming languages such as Visual Basic for Applications (VBA), embedded in some popular spreadsheet packages.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Recap of Basics of Excel and Database Arithmetic - VLOOKUP,	2
	HLOOKUP, Advanced Filtering, PIVOT Table	
2.	<b>TEXT and DATE Handling</b> – Code, Char, and Date Functions	2
3.	Array Functions, Matrix Operations and Regression	2
4.	Simulation, Macros and Solver Feature - Introduction to VBA	4
	Environment, Sub and Functions in VBA – Introduction using elementary	
	examples	
5.	If Then, Else Condition in VBA – Introduction to control constructs, Loops	4
	in VBA – For NEXT, Loops in VBA – DoLOOP, Select Case Control	
	Construct	
6.	Arrays in VBA, Declaring arrays and Elementary Examples, Solving	5
	Travelling Salesman Problem and Bin Packing problem using a heuristic,	
	User Forms in VBA	
7.	Examples to enhance the usage of interactive version of spreadsheet -	2
	Goal Seek, Generalized VLOOKUP, etc.	
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Winston Wayne, Microsoft Excel 2019 Data Analysis and	2019
	Business Modelling, Microsoft	
2.	Ragsdale Cliff, Spreadsheet Modelling & Decision Analysis,	2010
	6 <sup>th</sup> Ed, Cengage	
3.	Spreadsheet Through Examples: Microsoft Excel 2010	2013
	Version. (IIMA)	
4.	https://www.excelfunctions.net/excel-vba-tutorial.html VBA	WebLink
	tutorial	
5.	https://powerspreadsheets.com/create-excel-userforms/ User	WebLink
	Forms tutorial	

NAME OF DEPARTMENT/CENTRE: Department of Management Studies

1. Subject Code: BMN-622 Course Title: Business Analytics

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

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

4. Relative Weightage: CWS: 50 PRS: 0 MTE: 0 ETE: 50 PRE: 0

5. Credits: 1.5 6. Term: IV/V/VI/VII

7. Pre-requisite: Nil 8. Subject Area: PEC

9. Objective: To familiarize the participants with new and state of the art modelling techniques to typical business decision making problems with the aid of software like MS Excel, R and/or Python.

#### 10. Details of the Course

S.No.	Contents	Contact
		hours
1.	Review of Basics of Probability, Linear Algebra and Statistics for Analytics,	3
	Data Visualization	
2.	Confidence Interval, Hypothesis Testing	3
3.	Logistic Regression	3
4.	Clustering and Factor Analysis using Python	3
5.	Naïve Bayes Classifier	2
6.	K-Nearest Neighbor	2
7.	Artificial Neural Networks	2
8.	Text Analytics using Python	3
	Total	21

S.No.	Name of Authors/Book/Publisher	Year of
		<b>Publication / Reprint</b>
1.	Galit Shmueli, Peter Bruce and Nitin R. Patel, "Data Mining	2016
	for Business Analytics – Third Edition" Wiley	
2.	Dimitris Bertsimas, Allison O'Hair, William Pulleyblank,	2016
	"The Analytics Edge", Dynamic Ideas LLC	
3.	Foster Provost and Tom Fawcett, "Data Science for Business"	2013
	by O'Reilly Media	
4.	Larose, D. T. and Larose, C. D., "Data Mining and Predictive	2015
	Analytics", Wiley	

The titles of following existing PECs have been revised:

#### 1. Finance Area

Course	Existing Name in the structure	Approved Revised Name
Code		
BMN-681	Quantitative Analysis for Financial	Basics of Quantitative Finance
	Management	
BMN-683	Security Analysis and Portfolio Management	Security Analysis for Investment
BMN-685	International Financial Management	International Corporate Finance
BMN-686	Financial Management Control Systems	Financial Engineering
BMN-687	Taxation and Tax Planning	Applications of Quantitative Finance
BMN-688	Merchant Banking and Financial Services	Financial Risk Management
BMN-689	Financial Statement Analysis and Reporting	Financial Modelling

# 2. Human Resource Management

Course	<b>Existing Name in the structure</b>	Approved Revised Name
Code		
BMN-634	Career Planning and Performance	Career Planning and Performance
		Management
BMN-635	Management of Training and Talent	Training and Talent Development
	Development	
BMN-636	Compensation Management and Reward	Competency Management
	System	
BMN-641	H R Analytics	Human Resource Analytics

# 3. Marketing Electives

Course	Existing Name in the structure	Approved Revised Name
Code		
BMN-671	Internet Marketing	Advanced Consumer Behavior Analysis
BMN-675	International Marketing	Pricing Strategies
BMN-676	Industrial Marketing	Business to Business Marketing

# 4. Operations Electives

Course	Existing Name in the structure	Approved Revised Name
Code		
BMN-654	Computer Integrated Manufacturing	Operations Analytics
BMN-655	Operations Planning and Control Systems	Essential AI for Managers
BMN-656	Total Productive Maintenance	Advanced AI for Managers
BMN-657	Productivity Management	Game theory for strategic advantage

**5.** Courses BMN-655: Essential AI for Managers, BMN-656: Advanced AI for Managers, BMN-657: Game theory for strategic advantage, BMN-669: Case studies in application of decision models, BMN-620: Industrial Internet of Things for Managers, BMN-621: Spreadsheet Modelling and BMN-622: Business Analytics to be considered for Operations and Information System specialization.