



“EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE”
GENBA SOPANRAO MOZE TRUST’S
GENBA SOPANRAO MOZE COLLEGE OF ENGINEERING
25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500

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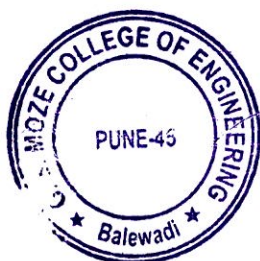
Department of MBA

PROGRAM EDUCATION OUTCOME

1. **Core Competency:** To make students familiarize with the concepts of various managerial competencies and approaches to management.
2. **Problem Solving & Innovation:** To prepare the students with ability to identify, formulate and provide innovative solution frameworks to real world complex business and social problems by systematically applying modern quantitative and qualitative problem-solving tools and techniques.
3. **Managerial Skills:** To prepare the students to work in group using moral, ethical practice, managerial, entrepreneurial skills for the welfare of the society.
4. **Effective Communication** – To prepare students to become professionals and have ability to effectively communicate in cross-cultural settings, in technology mediated environments, especially in the business context and with society at large.
5. **Global Orientation and Cross-Cultural Appreciation:** Empower students with ability to approach any relevant business issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of business and management.
6. **Social Responsiveness and Ethics** – Empower students of MBA with ability to exhibit a broad appreciation of the ethical and value underpinnings of managerial choices in a political, cross-cultural, globalized, digitized, socio-economic environment and distinguish between ethical and unethical behaviors & act with integrity.

PROGRAM SPECIFIC OUTCOME

- 1) Students will be able to apply subject knowledge to develop Managerial competence for the industrial need.
- 2) Students will be able to reflect the learnings through Proficiency in Communication, Collaboration, Teamwork and Leadership
- 3) Students will be able to evaluate and create a list of the decision-making criteria used by practicing managers, leaders, and entrepreneurs in routine and non-routine decision-making situations in a real-life business, startup and not-for-profit organizational context.



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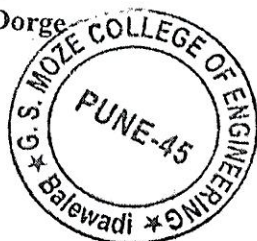
PROGRAM OUTCOME

Students after completion of the MBA programme the learner will be able to:

1. Successfully integrate core, cross-functional and inter-disciplinary aspects of management theories, models and frameworks with the real world practices and the sector specific nuances to provide solutions to real world business, policy and social issues in a dynamic and complex world.
2. Identify Analyse complex managerial problems and review the literature for the same.
3. Articulate, illustrate, analyze, synthesize and apply the knowledge of principles and frameworks of management and allied domains to the solutions of real-world complex business issues.
4. Identify, formulate and provide innovative solution frameworks to real world complex business and social problems by systematically applying modern quantitative and qualitative problem solving tools and techniques.
5. Conduct investigation of multidimensional business problems using research based knowledge and research methods to arrive at data driven decisions
6. Work effectively in diversified, multidisciplinary environment to achieve common goal
7. Effectively communicate in cross-cultural settings, in technology mediated environments, especially in the business context and with society at large
8. Collaborate in an organizational context and across organizational boundaries and lead themselves and others in the achievement of organizational goals and optimize outcomes for all stakeholders.
9. Approach any relevant business issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of business and management
10. Demonstrate knowledge of and need for sustainable development and assess the impact of managerial decisions and business priorities on the societal, economic and environmental aspects
11. Operate independently in new environment, acquire new knowledge and skills and assimilate them into the internalized knowledge and skills

HOD MBA

Prof. Sambhaji Dorge



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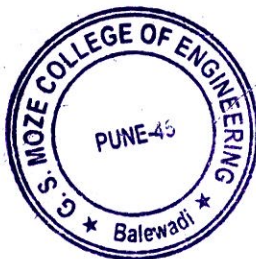
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Department of MBA

Course Outcomes

I-Term

Course No	Course Code	Subject:
101	GC - 01	Managerial Accounting
102	GC - 02	Organizational Behaviour
103	GC - 03	Economic Analysis for Business Decisions
104	GC - 04	Business Research Methods
105	GC - 05	Basics of Marketing
106	GC - 06	Digital Business
107	GE - UL - 01	Management Fundamentals
109	GE - UL - 03	Entrepreneurship Development
111	GE - UL - 05	Legal Aspects of Business
113	GE - IL - 01	Legal Aspects of Business
115	GE - IL - 03	Selling & Negotiation Skills Lab
117	GE - IL - 05	Business Systems & Procedures



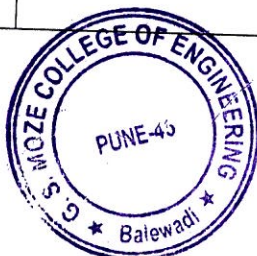
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Course Outcomes

II-Term

Course No	Course Code	Subject:
207	207 GE - UL - 07	Contemporary Frameworks in Management
209	209 GE - UL - 09	Start Up and New Venture Management
211	211 GE - UL - 11	Business, Government & Society
201	201 GC - 07	Marketing Management
202	202 GC - 08	Financial Management
203	203 GC - 09	Human Resources Management
204	204 GC - 10	Operations & Supply Chain Management
215	215 GE - IL - 10	Entrepreneurship Lab
205 MKT	205 MKT SC - MKT-01	Marketing Research
206 MKT	206 MKT SC - MKT-02	Consumer Behaviour
217 MKT	SE-IL - MKT- 01	Integrated Marketing Communications
220 MKT	SE - IL - MKT- 04	Digital Marketing - I
205 FIN	205 FIN SC - FIN - 01	Financial Markets and Banking Operations
206 FIN	SC - FIN - 02	Personal Financial Planning
219 FIN	SE - IL - FIN - 03	Direct Taxation
222 FIN	SE - IL - FIN - 06	Banking Laws & Regulations
205 HR	SC - HRM - 01	Competency Based Human Resource Management
206 HR	SC - HRM - 02	Employee Relations & Labour Legislation
217 HRM	SE - IL - HRM - 01	Labour Welfare
218 HRM	SE - IL - HRM - 02	Lab in Recruitment and Selection
205 BA	SC - BA - 01	Basic Business Analytics using R
206 BA	SC - BA - 02	Data Mining
217 BA	SE - IL - BA - 01	Marketing Analytics
218 BA	SE - IL - BA - 02	Retailing Analytics
205 OSCM	SC - OSCM - 01	Services Operations Management - I
206 OSCM	SC - OSCM - 02	Supply Chain Management
219 OSCM	SE - IL - OSCM - 03	Inventory Management
222 OSCM	SE - IL - OSCM - 06	Service Value Chain Management



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**GENERIC
CORE (GC)
COURSES – 3
Credits**

Managerial Accounting

Course Code: GC – 01

Teaching Scheme: LTP: 2:1:1

Examination Scheme: 50 Marks CCE, 50 Marks ESE

Outcomes: On completion of the course, learner will be able to –

CO1: DESCRIBE the basic concepts related to Accounting, Financial Statements, Cost Accounting, Marginal Costing, Budgetary Control and Standard Costing

CO2: EXPLAIN in detail, all the theoretical concepts of and terms used in accounting, Capital & Revenue Expenditure, Capital & Revenue Receipts, Users of Accounting Information. Accounting Concepts and Conventions, Fundamental Accounting Equation, Journal, Ledger and Trial Balance.

CO3: PERFORM all the necessary calculations through the relevant numerical Problems on Preparation of Cost Sheet, P/V Ratio, Break-Even Point (BEP), Cost Volume Profit (CVP) Analysis, Marginal Costing and Short-Term Business Decisions, Raw Material Purchase & Procurement Budget, Cash Budget, Flexible Budget, Material Variances and Labour Variances

CO4: ANALYSE the situation and decide the key financial as well as non-financial elements involved in the situation of Accounting in Business Organization, Accept or Reject Special Order Decisions, Shutting Down Decisions

CO5: EVALUATE the financial impact of the decision during preparation of Financial Statements, Preparation of Final Accounts, Relevant and Irrelevant Costs, Differential Costs, Sunk Cost, Opportunity Cost incurred and Exercising Control – Budgetary Control

**GENERIC
CORE (GC)
COURSES – 3
Credits**

Organizational Behaviour

Course Code: GC – 02

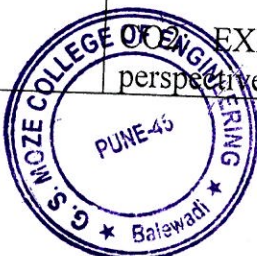
Teaching Scheme: LTP: 2:1:1

Examination Scheme: 50 Marks CCE, 50 Marks ESE

Outcomes: On completion of the course, learner will be able to –

CO1: DESCRIBE the major theories, concepts, terms, models, frameworks of Models of OB (Autocratic, Custodial, Supportive, Collegial & SOBC), personality indicators, models, perception-based frameworks, leadership theories and motivational theories and research findings in the field of organizational behavior.

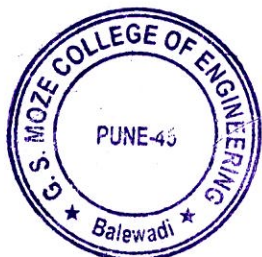
CO2: EXPLAIN the implications of organizational behavior from the perspectives of employees, managers, leaders and the organization.



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	<p>CO3: MAKE USE OF the Theories, Models, Principles and Frameworks of organizational behavior in specific organizational settings under individual interactions, group dynamics and culture dynamics.</p> <p>CO4: DECONSTRUCT the role of individual, groups, managers and leaders in influencing how people behave and in influencing organizational culture, Functions, Types, Creating and Maintaining Organization Culture, Managing Cultural Diversity at large.</p> <p>CO5: FORMULATE approaches to reorient individual, team, managerial and leadership behaviour in order to achieve organizational goals.</p> <p>CO6: ELABORATE UPON the challenges in shaping organizational behavior, organizational culture and organizational change.</p>
<p>GENERIC CORE (GC) COURSES – 3 Credits</p>	<p><u>Economic Analysis for Business Decisions</u> Course Code: GC – 03 Teaching Scheme: LTP: 2:1:1 Examination Scheme:50 Marks CCE, 50 Marks ESE</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DEFINE the key terms in micro-economics.</p> <p>CO2: EXPLAIN the key terms in micro-economics, from a managerial perspective.</p> <p>CO3: IDENTIFY the various issues in an economics context and DEMONSTRATE their significance from the perspective of business decision making.</p> <p>CO4: EXAMINE the inter-relationships between various facets of micro-economics from the perspective of a consumer, firm, industry, market, competition and business cycles</p> <p>CO5: DEVELOP critical thinking based on principles of micro-economics for informed business decision making.</p> <p>CO6: ANTICIPATE how other firms in an industry and consumers will respond to economic decisions made by a business, and how to incorporate these responses into their own decisions</p>



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**GENERIC
CORE (GC)
COURSES – 3
Credits**

Business Research Methods

Course Code: GC – 04

Teaching Scheme: LTP: 2:1:1

Examination Scheme: 50 Marks CCE, 50 Marks ESE

Outcomes: On completion of the course, learner will be able to –

CO1: DEFINE various concepts & terms associated with scientific business research.

CO2: EXPLAIN the terms and concepts used in all aspects of scientific business research.

CO3: MAKE USE OF scientific principles of research to SOLVE contemporary business research problems.

CO4: EXAMINE the various facets of a research problem and ILLUSTRATE the relevant aspects of the research process from a data driven decision perspective.

CO5: JUDGE the suitability of alternative research designs, sampling designs, data collection instruments and data analysis options in the context of a given real-life business research problem from a data driven decision perspective

CO6: FORMULATE alternative research designs, sampling designs, data collection instruments, testable hypotheses, data analysis strategies and research reports to address real-life business research problems.

**GENERIC
CORE (GC)
COURSES – 3
Credits**

Basics of Marketing

Course Code: GC – 05

Teaching Scheme: LTP: 2:1:1

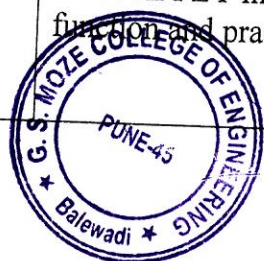
Examination Scheme: 50 Marks CCE, 50 Marks ESE

Outcomes: On completion of the course, learner will be able to –

CO1: RECALL and REPRODUCE the various concepts, principles, frameworks and terms related to the function and role of marketing

CO2: DEMONSTRATE the relevance of marketing management concepts and frameworks to a new or existing business across wide variety of sectors and ILLUSTRATE the role that marketing plays in the 'tool kit' of every organizational leader and manager

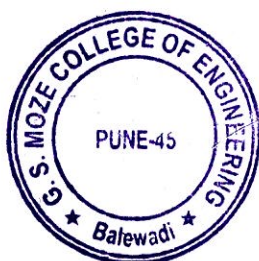
CO3: APPLY marketing principles and theories to the demands of marketing function and practice in contemporary real world scenarios



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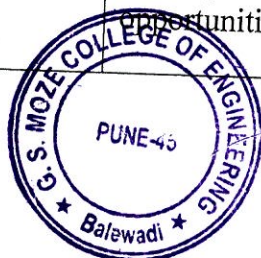
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	<p>CO4: EXAMINE and LIST marketing issues pertaining to segmentation, targeting and positioning, marketing environmental forces, consumer buying behavior, marketing mix and Product Life Cycle in the context of real world marketing offering (commodities, goods, services, e-products/ e-services)</p> <p>CO5: EXPLAIN the interrelationships between segmentation, targeting and positioning, marketing environment, consumer buying behavior, marketing mix and Product Life Cycle with real world examples.</p> <p>CO6: DISCUSS alternative approaches to segmentation, targeting and positioning, the marketing environment, consumer buying behavior, marketing mix and Product Life Cycle in the context of real world marketing offering (commodities, goods, services, e-products/ e-services.).</p>
<p>GENERIC CORE (GC) COURSES – 3 Credits</p>	<p><u>Digital Business</u> Course Code: GC – 06 Teaching Scheme: LTP: 2:1:1 Examination Scheme: 50 Marks CCE, 50 Marks ESE</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DESCRIBE the conceptual framework of e commerce, mobile commerce and social commerce</p> <p>CO2: SUMMARIZE the impact of information, mobile, social, digital, IOT and related technologies on society, markets & commerce.</p> <p>CO3: ILLUSTRATE value creation & competitive advantage in a digital Business environment.</p> <p>CO4: EXAMINE the changing role of intermediaries, changing nature of supply chain and payment systems in the online and offline world.</p> <p>CO5: ELABORATE upon the various types of digital business models and OUTLINE their benefits and limitations.</p> <p>CO6: DISCUSS the various applications of Digital Business in the present day world</p>



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<p>GENERIC ELECTIVES UNIVERSITY LEVEL (GE - UL) COURSES - 2 Credits</p>	<p><u>Management Fundamentals</u> Course Code: GE - UL - 01 Teaching Scheme: LTP: 2:0:0 Examination Scheme: 00 Marks CCE , 50 Marks ESE</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: ENUMERATE various managerial competencies and approaches to management</p> <p>CO2: EXPLAIN the role and need of Planning, Organizing, Decision Making and Controlling</p> <p>CO3: MAKE USE OF the principles of goal setting and planning for simple as well as complex tasks and small projects</p> <p>CO4: COMPARE and CONTRAST various organizational structures of variety of business and not-for-profit entities in a real-world context.</p> <p>CO5: BUILD a list of the decision making criteria used by practicing managers, leaders and entrepreneurs in routine and non-routine decision making situations and EVALUATE and EXPLAIN the same</p> <p>CO6: FORMULATE and DISCUSS a basic controlling model in a real life business, startup and not-for-profit organizational context</p>
<p>GENERIC ELECTIVES UNIVERSITY LEVEL (GE - UL) COURSES - 2 Credits</p>	<p><u>Entrepreneurship Development</u> Course Code: GE - UL - 03 Teaching Scheme: LTP: 2:0:0 Examination Scheme:00 Marks CCE, 50 Marks ESE</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DEFINE the key terms, LIST the Attributes and Characteristics of Entrepreneurs features and ENUMERATE the Factors influencing Entrepreneurship Growth</p> <p>CO2: DISCUSS various theories of entrepreneurship and the entrepreneurship development ecosystem in Indian context</p> <p>CO3: APPLY the theories of entrepreneurship and entrepreneurship development framework to analyze and identify entrepreneurial opportunities</p>

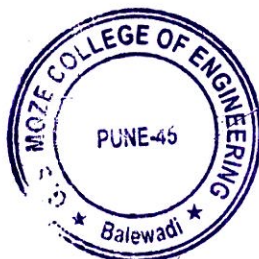


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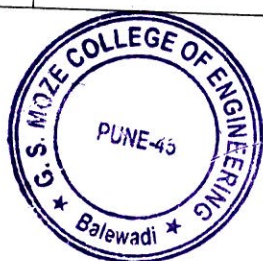
	<p>CO4: DISCRIMINATE between potential options available for entrepreneur for embarking on establishing a Start Up</p> <p>CO5: EVALUATE the start up ecosystem and the entrepreneurial opportunities in light of requirements of a business plan</p> <p>CO6: CREATE a business plan that captures entrepreneurs and variety of entrepreneur motivations, entrepreneur culture and sectoral opportunities and financing options.</p>
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<p>GENERIC ELECTIVES INSTITUTE LEVEL (GE – IL) COURSES – 2 Credits</p>	<p><u>Legal Aspects of Business</u> Course Code: GE - UL - 05 Teaching Scheme: LTP: 2:0:0 Examination Scheme:00 Marks CCE, 50 Marks ESE</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DESCRIBE the key terms involved in each Act of Business and Corporate Laws</p> <p>CO2: SUMMARIZE the key legal provisions of each Act</p> <p>CO3: ILLUSTRATE the use of the Acts in common business situations</p> <p>CO4: OUTLINE the various facets of basic case laws of each Act from a legal and managerial perspective.</p> <p>CO5: DEVELOP critical thinking by making judgments related to use of various provisions of the Acts in business situations</p>
<p>GENERIC ELECTIVES INSTITUTE LEVEL (GE – IL) COURSES – 2 Credits</p>	<p><u>Verbal Communication Lab</u> Course Code: GE - IL - 01 Teaching Scheme: LTP: 0:3:1 Examination Scheme:50 Marks CCE, 00 Marks ESE</p>



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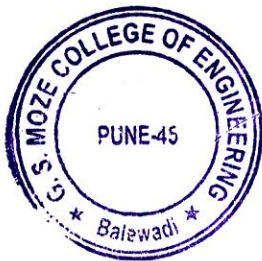
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: RECOGNIZE the various elements of communication, channels of communication and barriers to effective communication</p> <p>CO2: EXPRESS themselves effectively in routine and special real world business interactions</p> <p>CO3 DEMONSTRATE appropriate use of body language</p> <p>CO4: TAKE PART IN professional meetings, group discussions, telephonic calls, elementary interviews and public speaking activities.</p> <p>CO5: APPRAISE the pros and cons of sample recorded verbal communications in a business context</p> <p>CO6: CREATE and DELIVER effective business presentations, using appropriate technology tools, for common business situations.</p>
<p>GENERIC ELECTIVES INSTITUTE LEVEL (GE – IL) COURSES – 2 Credits</p>	<p><u>Selling & Negotiation Skills Lab</u> Course Code: GE - IL - 03 Teaching Scheme: LTP: 0:3:1 Examination Scheme:50 Marks CCE, 00 Marks ESE</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DESCRIBE the various selling situations and selling types, selling situations, New business versus service selling</p> <p>CO2: OUTLINE the pre-sales work to be carried out by a professional salesperson</p> <p>CO3: IDENTIFY the key individuals involved in a real world sales process for a real world product/ service / e-product / e-service.</p> <p>CO4: FORMULATE a sales script for a real world sales call for a product/ service / e-product / e-service</p> <p>CO5: DECONSTRUCT the pros and cons of sample real world sales calls for a product/ service / e-product / e-service.</p> <p>CO6: DEVELOP a sales proposal for a real world product/ service / e-product / e-service and for a real world selling situation</p>



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GENERIC CORE (GC) COURSES – 3 Credits	<u>Business Systems & Procedures</u> Course Code: GE - IL - 05 Teaching Scheme: LTP: 0:3:1 Examination Scheme:50 Marks CCE, 00 Marks ESE
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: TABULATE the key elements of a typical business system and related work flow procedures.</p> <p>CO2: EXPLAIN a business system and related procedures</p> <p>CO3: PREDICT the fail points / bottle necks in a typical business process</p> <p>CO4: BREAK DOWN a business system into simpler components and explain the inter-relationship</p> <p>CO5: DEVELOP a process-based thinking approach</p> <p>CO6: CREATE standard operating procedures and flow charts / other visual representations for typical business systems and processes</p>

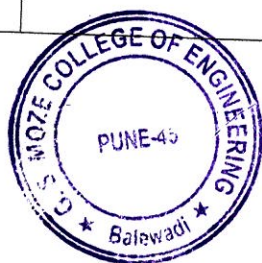


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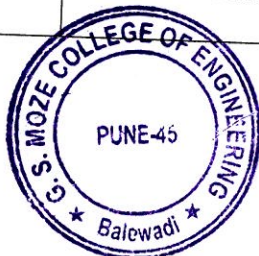
Term II-

<p>GENERIC CORE (GC) COURSES – 3 Credits</p>	<p><u>Marketing Management</u> Course Code: GC – 07 Teaching Scheme: LTP: 2:1:1</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DESCRIBE the key terms associated with the 4 Ps of marketing.</p> <p>CO2: COMPARE and CONTRAST various approaches to pricing for a real world marketing offering (commodities, goods, services, e-products/ e-services.</p> <p>CO3: DEMONSTRATE an understanding of various channel options for a real world marketing offering (commodities, goods, services, e-products/ eservices.)</p> <p>CO4: EXAMINE the product line of a real world marketing offering (commodities, goods, services, e-products/ e-services.)</p> <p>CO5: EXPLAIN the role of various communication mix elements for a real world marketing offering (commodities, goods, services, e-products/ e-services.)</p> <p>CO6: DESIGN a marketing plan for a real world marketing offering (commodities, goods, services, e-products/ e-services.)</p>
<p>GENERIC CORE (GC) COURSES – 3 Credits</p>	<p><u>Financial Management</u> Course Code: GC – 08 Teaching Scheme: LTP: 2:1:1</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DESCRIBE the basic concepts related to Financial Management, Various techniques of Financial Statement Analysis, Working Capital, Capital Structure, Leverages and Capital Budgeting.</p> <p>CO2: EXPLAIN in detail all theoretical concepts throughout the syllabus</p> <p>CO3: PERFORM all the required calculations through relevant numerical problems</p>



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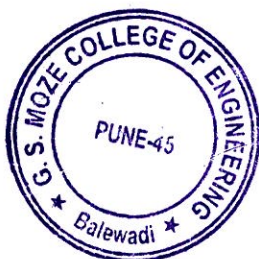
	<p>CO4: ANALYZE the situation and • comment on financial position of the firm • estimate working capital required • decide ideal capital structure • evaluate various project proposals</p> <p>CO5: EVALUATE impact of business decisions on Financial Statements, Working Capital, Capital Structure and Capital Budgeting of the firm</p>
<p>GENERIC CORE (GC) COURSES – 3 Credits</p>	<p><u>Human Resources Management</u> Course Code: GC – 09 Teaching Scheme: LTP: 2:1:1</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DESCRIBE the role of Human Resource Function in an Organization.</p> <p>CO2: ENUMERATE the emerging trends and practices in HRM.</p> <p>CO3: ILLUSTRATE the different methods of HR Acquisition and retention</p> <p>CO4: DEMONSTRATE the use of different appraisal and training methods in an Organization</p> <p>CO5: OUTLINE the compensation strategies of an organization</p> <p>CO6: INTERPRET the sample job descriptions and job specifications for contemporary entry level roles in real world organizations</p>
<p>GENERIC CORE (GC) COURSES – 3 Credits</p>	<p><u>Operations & Supply Chain Management</u> Course Code: GC – 10 Teaching Scheme: LTP: 2:1:1</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DEFINE basic terms and concepts related to Production, Operations, Services, Supply Chain and Quality Management</p> <p>CO2: EXPLAIN the process characteristics and their linkages with process-product matrix in a real world context.</p> <p>CO3: DESCRIBE the various dimensions of production planning and control and their inter-linkages with forecasting.</p> <p>CO4: CALCULATE inventory levels and order quantities and MAKE USE OF various inventory classification methods.</p>



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	<p>CO5: OUTLINE a typical Supply Chain Model for a product / service and ILLUSTRATE the linkages with Customer Issues, Logistic and Business Issues in a real world context.</p> <p>CO6: ELABORATE upon different operational issues in manufacturing and services organisations where the decision-making element is emphasized.</p>
<p>GENERIC ELECTIVES UNIVERSITY LEVEL (GE – UL) COURSES – 2 Credits</p>	<p><u>Contemporary Frameworks in Management</u> Course Code: GE - UL - 07 Teaching Scheme: LTP: 2:0:0</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DEFINE Emotional Intelligence (EQ), IDENTIFY the benefits of emotional intelligence and RELATE the 5 Dimensions of Trait EI Model to the practice of emotional intelligence.</p> <p>CO2: DESCRIBE how companies achieve transition from being good companies to great companies, and DISCUSS why and how most companies fail to make the transition.</p> <p>CO3: APPLY the 21 laws that make leadership work successfully to improve your leadership ability and ILLUSTRATE its positive impact on the whole organization.</p> <p>CO4: EXAMINE the fundamental causes of organizational politics and team failure.</p> <p>CO5: EXPLAIN the approach to being effective in attaining goals by aligning oneself to the "true north" principles based on a universal and timeless character ethic</p>
<p>GENERIC ELECTIVES UNIVERSITY LEVEL (GE – UL) COURSES – 2 Credits</p>	<p><u>Start Up and New Venture Management</u> Course Code: GE - UL - 09 Teaching Scheme: LTP: 2:0:0</p>



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	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DESCRIBE the strategic decisions involved in establishing a startup. CO2: EXPLAIN the decision-making matrix of entrepreneur in establishing a startup CO3: IDENTIFY the issues in developing a team to establish and grow a startup CO4: FORMULATE a go to market strategy for a startup. CO5: DESIGN a workable funding model for a proposed startup. CO6: DEVELOP a convincing business plan description to communicate value of the new venture to customers, investors and other stakeholders.</p>
<p>GENERIC ELECTIVES UNIVERSITY LEVEL (GE – UL) COURSES – 2 Credits</p>	<p><u>Business, Government & Society</u> Course Code: GE - UL - 11 Teaching Scheme: LTP: 2:0:0</p>
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: DESCRIBE the economic roles of government in the Indian context. CO2: EXPLAIN the macroeconomic crises around the world. CO3: ILLUSTRATE the interlinkages between economic growth , poverty and inequality. CO4: EXAMINE the rationale, success and failures of Public Private Partnerships in the Indian context. CO5: ASSESS the forces for and against Globalization and the socio-economic impact of Globalization. CO6: DISCUSS the interplay between technology, business and society</p>
<p>GENERIC ELECTIVES INSTITUTE LEVEL (GE – IL) COURSES – 2 Credits</p>	<p><u>Entrepreneurship Lab</u> Course Code: 215 GE – IL - 10 Teaching Scheme: LTP: 0:3:1</p>



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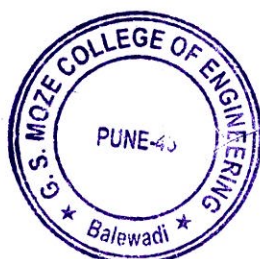
	<p>Outcomes: On completion of the course, learner will be able to –</p> <p>CO1: IDENTIFY a basket of potential business opportunities in the local, regional or national context</p> <p>CO2: COMPARE and CONTRAST the shortlisted business opportunities to SELECT the most suitable / promising opportunity</p> <p>CO3: DEVELOP a business model around the shortlisted business opportunity</p> <p>CO4: FORMULATE the organization structure for the proposed start up</p> <p>CO5: EVALUATE the market potential and ESTIMATE the financing requirements for the initial 1 to 3 years after launch.</p> <p>CO6: CREATE a proposal for funding the start up</p>
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Specialization-Subject Core (SC) Courses - Semester II

Semester II		205MKT: Marketing Research
3 Credits	LTP: 2:1:1	Subject Core (SC) Course – Marketing Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO205MKT.1	REMEMBERING	IDENTIFY and DESCRIBE the key steps involved in the marketing research process.
CO205MKT.2	UNDERSTANDING	COMPARE and CONTRAST various research designs, data sources, data collection instruments, sampling methods and analytical tools and SUMMARIZE their strengths & weaknesses.
CO205MKT.3	APPLYING	DEMONSTRATE an understanding of the ethical framework that market research needs to operate within.
CO205MKT.4	ANALYSING	ANALYSE quantitative data and draw appropriate Inferences to address a real life marketing issue.
CO205MKT.5	EVALUATING	DESIGN a market research proposal for a real life marketing research problem and EVALUATE a market research proposal.
CO205MKT.6	CREATING	PLAN and UNDERTAKE qualitative or quantitative Market Research and demonstrate the ability to appropriately analyse data to resolve a real life marketing issue.



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Semester II		206MKT: Consumer Behavior
3 Credits	LTP: 2:1:1	Subject Core (SC) Course – Marketing Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO206MKT.1	REMEMBERING	ENUMERATE social and psychological factors and their influence his/her behavior as a consumer.
CO206MKT.2	UNDERSTANDING	EXPLAIN fundamental concepts associated with consumer and organizational buying behavior.
CO206MKT.3	APPLYING	APPLY consumer behavior concepts to real world strategic marketing management decision making.
CO206MKT.4	ANALYSING	ANALYSE the dynamics of human behavior and the basic factors that influence the consumer's decision process.
CO206MKT.5	EVALUATING	EXPLAIN the consumer and organizational buying behavior process for a variety of products (goods/services).

Semester II		217MKT: Integrated Marketing Communications
2 Credits	LTP: 1:1:1	Subject Elective (SE) Course – Marketing Management

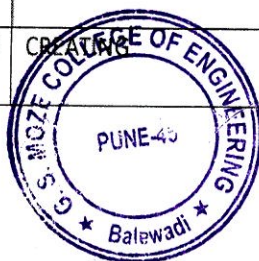
Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO217MKT.1	REMEMBERING	DESCRIBE the IMC mix and the IMC planning process.
CO217MKT.2	UNDERSTANDING	EXAMINE the role of integrated marketing communications in building brand identity, brand equity, and customer franchise.
CO217MKT.3	APPLYING	CONSTRUCT a marketing communications mix to achieve the communications and behavioural objectives of the IMC campaign plan.
CO217MKT.4	ANALYSING	ANALYZE and critically evaluate the communications effects and results of an IMC campaign to determine its success for a variety of brands.
CO217MKT.5	EVALUATING	DESIGN a sales promotion campaign and CHOOSE the avenues for Public Relations, Publicity and Corporate Advertising for a consumer and a business-to-business product.
CO217MKT.6	CREATING	DEVELOP an integrated cross-media strategy and creative message and concept to reach the target audience and deliver the brand promise through an IMC campaign for a variety of brands.

Semester II		220MKT: Digital Marketing - I
2 Credits	LTP: 0:3:1	Subject Elective (SE) Course – Marketing Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO220MKT.1	REMEMBERING	DEFINE various concepts related to Digital Marketing.
CO220MKT.2	UNDERSTANDING	EXPLAIN the role of Facebook, Google Ad words, Youtube and Email in digital marketing.
CO220MKT.3	APPLYING	MAKE USE OF Facebook, Google Ad words, Youtube and Email for carrying out digital marketing of real life products.
CO220MKT.4	ANALYSING	ILLUSTRATE the use of Facebook, Google Ad words, Youtube and Email in various contexts of Digital Marketing.
CO220MKT.5	EVALUATING	DESIGN digital media campaign using appropriate mix of Facebook, Google Ad words, Youtube and Email.
CO220MKT.6	CREATING	CREATE appropriate content for Facebook, Google Ad words, Youtube and Email campaigns.



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Semester II		205FIN: Financial Markets and Banking Operations
3 Credits	LTP: 2:1:1	Subject Core (SC) Course – Financial Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO205FIN.1	REMEMBERING	RECALL the structure and components of Indian financial system through banking operations & Financial Markets.
CO205FIN.2	UNDERSTANDING	UNDERSTAND the concepts of financial markets, their working and importance.
CO205FIN.3	APPLYING	ILLUSTRATE the working and contribution of Banks and NBFCs to the Indian Economy.
CO205FIN.4	ANALYSING	ANALYZE the linkages in the Financial Markets.
CO205FIN.5	EVALUATING	EXPLAIN the various banking and accounting transactions.
CO205FIN.6	CREATING	DEVELOP necessary competencies expected of a finance professional.

Semester II		206FIN: Personal Financial Planning
3 Credits	LTP: 2:1:1	Subject Core (SC) Course – Financial Management

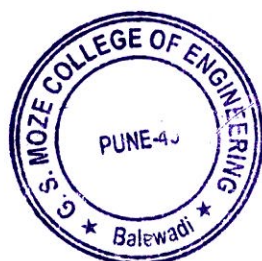
Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO206FIN.1	REMEMBERING	UNDERSTAND the need and aspects of personal financial planning
CO206FIN.2	UNDERSTANDING	Describe the investment options available to an individual
CO206FIN.3	APPLYING	IDENTIFY types of risk and means of managing it
CO206FIN.4	ANALYSING	DETERMINE the ways of personal tax planning
CO206FIN.5	EVALUATING	EXPLAIN retirement and estate planning for an individual and design a financial plan.
CO206FIN.6	CREATING	CREATE a financial plan for a variety of individuals.

Semester II		219FIN: Direct Taxation
2 Credits	LTP: 0:3:1	Subject Elective (SE) Course – Financial Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO219FIN.1	REMEMBERING	UNDERSTAND various basic concepts/ terminologies related Direct Taxation
CO219FIN.2	UNDERSTANDING	EXPLAIN how tax planning can be done.
CO219FIN.3	UNDERSTANDING	ILLUSTRATE how online filling of various forms and returns can be done.
CO219FIN.4	APPLYING	CALCULATE Gross Total Income and Income Tax Liability of an individual assessee.
CO219FIN.5	ANALYSING	ANALYZE and DISCOVER intrinsic value of a security.
	EVALUATING	DESIGN/ DEVELOP / CREATE tax saving plan.



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Semester II		222FIN: Banking Laws & Regulations
2 Credits	LTP: 0:3:1	Subject Elective (SE) Course – Financial Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO222FIN.1	REMEMBERING	REMEMBER various concepts taught in the syllabus.
CO222FIN.2	UNDERSTANDING	EXPLAIN the Regulatory Framework in the Indian Banking system.
CO222FIN.3	UNDERSTANDING	DESCRIBE the various legal aspects which need to be followed during daily banking operations.
CO222FIN.4	UNDERSTANDING	DISCUSS the various laws related to banking.
CO222FIN.5	APPLYING	APPLY the various commercial laws for the smooth functioning of banking operations.

Semester II		205HRM: Competency Based Human Resource Management System
3 Credits	LTP: 2:1:1	Subject Core (SC) Course – Human Resource Management

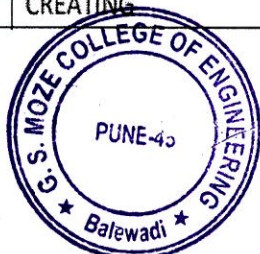
Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO205HRM.1	REMEMBERING	DEFINE the key terms related to performance management and competency development.
CO205HRM.2	UNDERSTANDING	EXPLAIN various models of competency development.
CO205HRM.3	APPLYING	PRACTICE competency mapping.
CO205HRM.4	ANALYSING	ANALYSE competencies required for present and potential future job roles at various levels and across variety of organizations.
CO205HRM.5	EVALUATING	DESIGN and MAP their own competency and plan better and appropriate career for themselves.
CO205HRM.6	CREATING	DEVELOP a customized competency model in accordance with the corporate requirements.

Semester II		206HRM: Employee Relations and Labour Legislations
3 Credits	LTP: 2:1:1	Subject Core (SC) Course – Human Resource Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO206HRM.1	REMEMBERING	SHOW awareness of important and critical issues in Employee Relations
CO206HRM.2	UNDERSTANDING	INTERPRET and relate legislations governing employee relations.
CO206HRM.3	APPLYING	DEMONSTRATE an understanding of legislations relating to working environment.
CO206HRM.4	ANALYSING	OUTLINE the role of government, society and trade union in ER.
CO206HRM.5	EVALUATING	EXPLAIN aspects of collective bargaining and grievance handling.
CO206HRM.6	CREATING	DISCUSS the relevant provisions of various Labour Legislations.



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Semester II		217HRM: Labour Welfare
2 Credits	LTP: 0:3:1	Subject Elective (SE) Course – Human Resource Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO217HRM.1	REMEMBERING	ENUMERATE the key concepts of the subject matter.
CO217HRM.2	UNDERSTANDING	DESCRIBE the key aspects of the labour policy regulation in the country.
CO217HRM.3	APPLYING	IDENTIFY the applicability of various legislations to variety of real world organizations.
CO217HRM.4	ANALYSING	EXAMINE the traditional concept of labour welfare in the industry.
CO217HRM.5	EVALUATING	EXPLAIN the conditions of labour and their welfare and social security needs in the country.
CO217HRM.6	CREATING	ELABORATE upon the perspective of labour problems and remedial measures in the country.

Semester II		218HRM: Lab in Recruitment and Selection
2 Credits	LTP: 0:3:1	Subject Elective (SE) Course – Human Resource Management

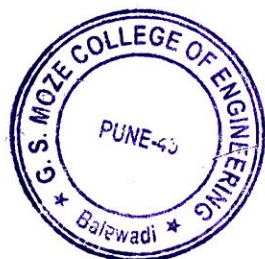
Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO218HRM.1	REMEMBERING	DESCRIBE the key concepts such as Job Specification, Job description, Recruitment and Selection.
CO218HRM.2	UNDERSTANDING	COMPARE and CONTRAST various methods of Recruitment and Selection.
CO218HRM.3	APPLYING	DEVELOP Job Specifications and Job descriptions in a variety of context.
CO218HRM.4	ANALYSING	ANALYZE various Personality types.
CO218HRM.5	EVALUATING	EXPLAIN the profiling techniques used to test Personality, Aptitude, Competency.
CO218HRM.6	CREATING	COMPILE a list of questions for Recruitment and Selection interviews.

Semester II		205OSCM: Service Operations Management – I
3 Credits	LTP: 2:1:1	Subject Core (SC) Course – Operations & Supply Chain Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO205OSCM.1	REMEMBERING	DESCRIBE the nature and CHARACTERISTICS of services and the services economy.
CO205OSCM .2	UNDERSTANDING	DESCRIBE the service design elements of variety of services.
CO205OSCM .3	APPLYING	USE service blueprinting for mapping variety of real life service processes.
CO205OSCM .4	ANALYSING	ANALYZE alternative locations and sites for variety of service facilities.
CO205OSCM .5	EVALUATING	JUDGE and EXPLAIN the service orientation at variety of service facilities / organizations.
CO205OSCM .6	CREATING	CREATE flow process layouts for variety of services.



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Semester II		206OSCM: Supply Chain Management
3 Credits	LTP: 2:1:1	Subject Core (SC) Course – Operations & Supply Chain Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO206OSCM.1	REMEMBERING	DESCRIBE the key concepts of Supply Chain Management and the – driving forces in contemporary Supply Chain Management.
CO206OSCM.2	UNDERSTANDING	EXPLAIN the structure of modern day supply chains.
CO206OSCM.3	APPLYING	IDENTIFY the various flows in real world supply chains.
CO206OSCM.4	ANALYSING	COMPARE and CONTRAST push and pull strategies in Supply Chain Management.
CO206OSCM.5	EVALUATING	EXPLAIN the key Operational Aspects in Supply Chain Management.
CO206OSCM.6	CREATING	DISCUSS the relationship between Customer Value and Supply Chain Management.

Semester II		219OSCM: Inventory Management
2 Credits	LTP: 1:1:1	Subject Elective (SE) Course – Operations & Supply Chain Management

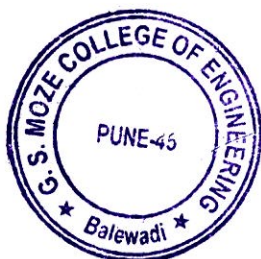
Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO219OSCM.1	REMEMBERING	DEFINE the key terms associated with Inventory Management.
CO219OSCM.2	UNDERSTANDING	CLASSIFY various types of inventory, and inventory costs.
CO219OSCM.3	APPLYING	CALCULATE Economic Order Quantity and stock levels under various conditions.
CO219OSCM.4	ANALYSING	COMPARE and CONTRAST various methods of inventory control.
CO219OSCM.5	EVALUATING	ASSESS various factors influencing Make or Buy decisions.
CO219OSCM.6	CREATING	SOLVE problems based on ABC classification of inventory.

Semester II		222OSCM: Service Value Management
2 Credits	LTP: 1:1:1	Subject Elective (SE) Course – Operations & Supply Chain Management

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO222OSCM.1	REMEMBERING	DEFINE the core concepts related to Service Value Chain, Service Profit Chain, Innovation, CRM, networks.
CO222OSCM.2	UNDERSTANDING	ILLUSTRATE managing the service process through service value chain.
CO222OSCM.3	APPLYING	IDENTIFY factors influencing Innovation and service organizational design.
CO222OSCM.4	ANALYSING	EXAMINE the inter-relationships between the Focal firm, Supplier Networks, Distribution Networks, etc.
CO222OSCM.5	EVALUATING	EVALUATE the role of Business Networks as partners in value creation.
CO222OSCM.6	CREATING	DEVELOP strategies built on Principles of Service Value Chain & Service Profit Chain for various types of organizations.



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Semester II		205BA: Basic Business Analytics using R
3 Credits	LTP: 2:1:1	Subject Core (SC) Course – Business Analytics

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO205BA.1	REMEMBERING	IDENTIFY opportunities for creating value using business analytics and DESCRIBE the basic concepts in Business Analytics, DATA Science and Business Intelligence.
CO205BA.2	UNDERSTANDING	EXPLAIN the applications of Business Analytics in multiple business domains and scenarios.
CO205BA.3	APPLYING	DEVELOP a thought process to think like a data scientist/business analyst.
CO205BA.4	ANALYSING	ANALYZE data graphically by creating a variety of plots using the appropriate visualization tools of R.
CO205BA.5	EVALUATING	SELECT the right functions of R for the given analytics task.
CO205BA.6	CREATING	COMBINE various tools and functions of R programming language and use them in live analytical projects in multiple business domains and scenarios.

Semester II		206BA: Data Mining
3 Credits	LTP: 2:1:1	Subject Core (SC) Course – Business Analytics

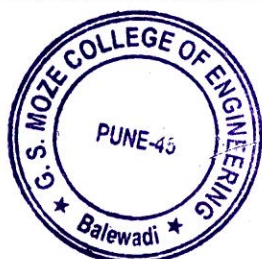
Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO206BA.1	REMEMBERING	DEFINE the key terms associated with Data Mining
CO206BA.2	UNDERSTANDING	EXPLAIN the various aspects of Data
CO206BA.3	APPLYING	APPLY classification models
CO206BA.4	ANALYSING	ANALYSE using clustering models
CO206BA.5	EVALUATING	SELECT appropriate association analysis and anomaly detection tools.
CO206BA.6	CREATING	COMBINE various data mining tools and use them in live analytical projects in business scenarios.

Semester II		217BA: Marketing Analytics
2 Credits	LTP: 1:1:1	Subject Elective (SE) Course – Business Analytics

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO217BA.1	REMEMBERING	DESCRIBE the use of Voice of the Customer data in making data driven marketing decisions.
CO217BA.2	UNDERSTANDING	DEMONSTRATE an understanding of utility theory to measure customer preferences and choices.
CO217BA.3	APPLYING	IDENTIFY what customers' value in a product, and assess what they are willing to pay for it.
CO217BA.4	ANALYSING	ILLUSTRATE the use of various tools and frameworks to solve strategic marketing problems using marketing data.
CO217BA.5	EVALUATING	DETERMINE the most effective target markets.
CO217BA.6	CREATING	DESIGN a study that incorporates the key tools of Marketing Analytics.



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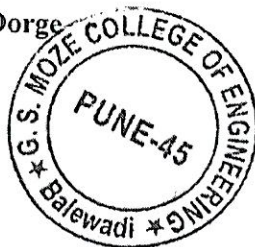
Semester II		218BA: Retailing Analytics
2 Credits	LTP: 1:1:1	Subject Elective (SE) Course – Business Analytics

Course Outcomes: On successful completion of the course the learner will be able to

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO2018BA.1	REMEMBERING	ENUMERATE the characteristics, opportunities and challenges of New Age Retailing and Digital Consumers.
CO2018BA.2	UNDERSTANDING	UNDERSTAND Consumer Buying Behavior and Trends in new age retailing.
CO2018BA.3	APPLYING	USE various kinds of data for performing Retailing Analytics.
CO2018BA.4	ANALYSING	ILLUSTRATE the use of various tools and frameworks for predictive retail analytics.
CO2018BA.5	EVALUATING	DERIVE a variety of metrics and quantify key outcomes in multiple areas of Retail.
CO2018BA.6	CREATING	BUILD value for Retail and Marketing by deriving Marketing ROI metrics..

HOD MBA

Prof. Sambhaji Dorge



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“EMPOWERMENT THROUGH TECHNOLOGICAL EXCELLENCE”

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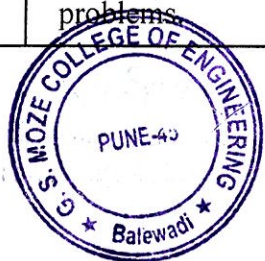
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(Recognized by AICTE, New Delhi; Approved by Govt. of Maharashtra; Affiliated to
Pune University)

25/1/3, Balewadi, Pune – 411045. Ph: 020-27390500
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Department of Master of Computer Application

Course Outcomes

FY MCA 2020 PAT	
Course Code	Subject: Sem-I
310901	Discrete Mathematics: CO1: Solve real world problems logically by using set and induction approaches. CO2: Describe and implement relations and functions. CO3: Apply logical reasoning to solve a variety of problems. CO4: Apply statistical concepts to solve basic problems. CO5: Solve the problems of Discrete Distributions and Continuous Distributions. CO6: Explain various Descriptive Statistical concepts.
310902	Data Structures and Algorithms: CO1: Explain the Complexity of Algorithms & fundamentals of Data Structures. CO2: Describe representation & application of Linked List . CO3: Write programs that uses stacks, queues. CO4: Apply nonlinear data structure trees to solve mathematical problems.

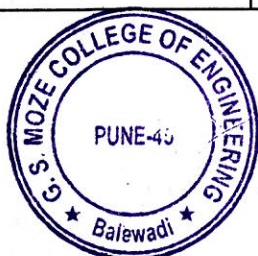


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	<p>CO5: Explain representations & the applications of graphs.</p> <p>CO6: Implement different searching and sorting algorithms.</p>
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310903	<p>Object Oriented Programming:</p> <p>CO1: Explore the basics of OOP.</p> <p>CO2: Analyze the strengths of object oriented programming.</p> <p>CO3: Design and apply OOP principles for effective programming.</p> <p>CO4: Develop programming application using object oriented programming language C++.</p> <p>CO5: Achieve applicability of OOP.</p> <p>CO6: Percept the utility of OOP for advanced programming.</p>
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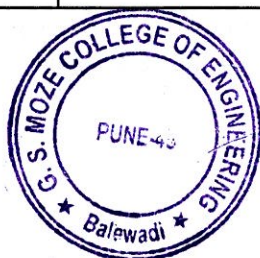
310904	<p>Software Engineering & Project Management:</p> <p>CO1: Choose and apply appropriate lifecycle model of software development.</p> <p>CO2: Analyze software requirements by applying various modelling - techniques.</p> <p>CO3: Describe principles of agile development, discuss the SCRUM process and distinguish Agile process model from other process models.</p> <p>CO4: Describe project schedule and cost estimation.</p> <p>CO5: Understand IT project management through life cycle of the project and future trends in IT Project Management.</p> <p>CO6: Define ethics and understand its importance in project leadership.</p>
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<p>310905</p>	<p>Information Systems and Engineering Economics: CO1: Understand the need, usage and importance Management Functions, Organisational structure and Information Systems.</p> <p>CO2: Understand the Information Systems, Project Management, Managing Data resources, Knowledge Management, Business Process Integration and Enterprise Systems.</p> <p>CO3: Understand the Management Information Systems Applications using in an Organization.</p> <p>CO4: Elaborate Managerial Decision Making Models and applying to Business Intelligence.</p> <p>CO5: Implement the basic Accounting concepts in the banking and financial applications.</p> <p>CO6: Apply the basic concepts of cost accounting in real world problem</p>
<p>310906</p>	<p>Data Structures and Algorithms Laboratory: CO1: Implement elementary data structures such as Arrays, linked lists CO2: Implement representation & application of Linked List CO3: Demonstrate practical knowledge on the applications of stacks, queues CO4: Implement nonlinear data structure trees to solve mathematical problems. CO5: Implement representations & the applications of graphs. CO6: Implement different searching and sorting algorithms.</p>
<p>310907</p>	<p>Object Oriented Programming Laboratory:</p>



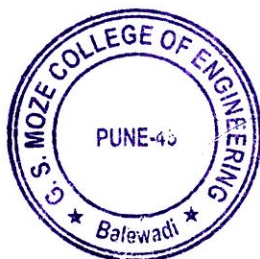
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<p>310908</p>	<p>Python Programming Laboratory: CO1: Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements. CO2: Express proficiency in the handling of strings and functions. CO3: Articulate the Object-Oriented Programming concepts using Python. CO4: Create Python programs by utilizing the data structures like lists, dictionaries, tuples and sets. CO5: Design program using string manipulation functions. CO6: Implement OOP's concept in Python.</p>
<p>310909</p>	<p>Business Communication Lab: CO1: Apply business communication strategies and principles to prepare effective communication for domestic and international business situations CO2: Identify ethical, legal, cultural, and global issues affecting business communication. CO3: Utilize analytical and problem solving skills appropriate to business communication. CO4: Participate in team activities using collaborative work skills. CO5: Select appropriate organizational formats and channels used in developing and presenting business messages. CO6: Communicate via electronic mail, Internet, and other technologies. CO7: Deliver an effective oral business presentation</p>
<p>310910</p>	<p>Audit Course-1-I-Foreign Language- Japanese: CO1: Have ability of basic communication. CO2: Have the knowledge of Japanese script. CO3: Get introduced to reading , writing and listening skills CO4: Will develop interest to pursue professional Japanese Language course.</p>




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<p>Sem-II</p> <p>310912</p>	<p><u>Subjects- Sem-II</u></p> <p>Database Management System: CO1: Design E-R Model for given requirements and convert the same into database tables.</p> <p>CO2: Use database techniques such as SQL & PL/SQL.</p> <p>CO3: Use modern database techniques such as NOSQL.</p> <p>CO4: Explain transaction Management in relational database System.</p> <p>CO5: Describe different database architecture and analyses the use of appropriate architecture in real time environment.</p> <p>CO6: Students will be able to use advanced database Programming concepts Big Data – HADOOP</p>
<p>310913</p>	<p>Computer Network: CO1: Analyze the requirements for a given organizational structure to select the most appropriate networking architecture, topologies, transmission mediums, and technologies.</p> <p>CO2: Demonstrate design issues, flow control and error control.</p> <p>CO3: Analyze data flow between TCP/IP model using Application, Transport and Network Layer protocols.</p> <p>CO4: Illustrate applications of Computer Network capabilities, selection and usage for various sectors of user community.</p> <p>CO5: Illustrate Client-Server architectures and prototypes by the means of correct standards and technology.</p> <p>CO6: Demonstrate different routing and switching algorithms.</p>



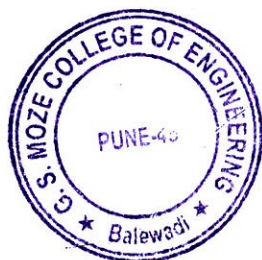
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<p>310914</p>	<p>Java Programming:</p> <p>CO1: Describe the core concept of Java programming.</p> <p>CO2: Discover the need for working with the multithreading and file handling.</p> <p>CO3: Illustrate the purpose of applet and AWT in Java programming.</p> <p>CO4: Indicate the use of database connectivity using Java Programming.</p> <p>CO5: Articulate the networking concepts in Java CO6: Implement Java Servlet and JSP concept in Java.</p>
<p>310915</p>	<p>Operating System:</p> <p>CO1: Fundamental understanding of the role of Operating Systems.</p> <p>CO2: To understand the concept of a process and thread.</p> <p>CO3: To apply the concept of process scheduling.</p> <p>CO4: To apply the concept of process synchronization, mutual exclusion and the deadlock.</p> <p>CO5: To realize the concept of disk scheduling and File system CO6: To understand the various memory management techniques.</p>



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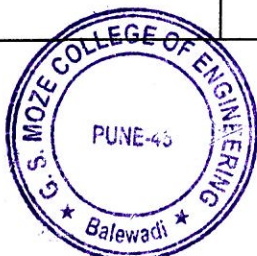
<p>310916</p>	<p>Elective-II-Mobile Computing: CO1: Describe the concept and technique of Wireless telephony. CO2: Explain the concept of wireless networking. CO3: Describe data management issue of mobile wireless network. CO4: Discuss the mobile operating system. CO5: Design Android mobile application. CO6: Manage database and features of mobile application.</p>
<p>310916</p>	<p>Elective I- Artificial Intelligence : CO1: Describe the modern view of AI as the study of agents that receive precepts from the Environment and perform actions. CO2: Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning. CO3: Describe the use of various search techniques CO4: Develop knowledge of decision making methods CO5: Explain about AI techniques for logical planning CO6: Explain the concept of Expert systems</p>



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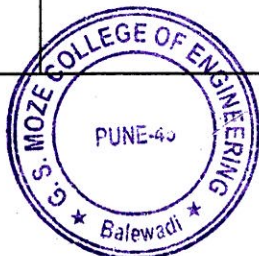
<p>310916</p>	<p>Elective I (Cyber Security): CO1: Analyze and evaluate the cyber security needs of an organization. CO2: Conduct a cyber security risk assessment. CO3: Measure the performance and troubleshoot cyber security systems. CO4: Implement cyber security solutions. CO5: Be able to study cyber security, information assurance, and cyber/computer forensics software/tools. CO6: Identify the key cyber security vendors in the marketplace.</p>
<p>310916</p>	<p>Elective-I Block Chain: CO1: Understand the structure of a block chain and why/when it is better than a simple distributed database CO2: Analyze the incentive structure in a block chain based system and critically assess its functions, benefits and vulnerabilities CO3: Explain Nakamoto consensus. Describe differences between proof-of-work and proof-of-stake consensus. CO4: Understand what constitutes a “smart” contract, what are its legal implications and what it can and cannot do, now and in the near future, CO5: Attain awareness of the new challenges that exist in monetizing businesses around block chains and smart contracts, CO6: State-of-the-art, open research challenges, and future directions.</p>
<p>310916</p>	<p>Open Elective: Open elective proposal can be offered with Industry partner. A proposal with syllabus, (Program educational Outcomes) PEO’s be forwarded to the Chairman BOS, before June / December every year. Approved syllabus through appropriate procedure can be taught in various colleges. Industry person and Teacher appointed together conduct the course</p>



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<p>310918</p>	<p>Operating System Lab: CO1: Understand the basics of Linux commands and program the shell of Linux. CO2: Develop various system programs for the functioning of operating system. CO3: Implement basic building blocks like processes, threads CO4: Develop various system programs for the functioning of OS concepts in user space like concurrency control and file handling in Linux. CO5: Implement page replacement algorithm. CO6: Develop the system program for the functioning of OS concepts in kernel space like embedding the system call in any Linux kernel.</p>
<p>310919</p>	<p>Java Programming Laboratory: CO1: Describe the core concept of Java programming CO2: Discover the need for working with the multithreading and file handling CO3: Illustrate the purpose of applet and AWT in Java programming CO4: Indicate the use of database connectivity using Java Programming CO5: Articulate the networking concepts in Java CO6: Implement Java Servlet and JSP concept in Java</p>
<p>310920</p>	<p>Project Based Learning-I (Mini Project- I): CO1: Able to analyze and solve problems by applying programming knowledge CO2: Prepare requirements and Design Documents CO3: Develop Inter-personal and leadership qualities CO4: Demonstrate system with results and interpretation CO5: Describe software testing methods CO6: Design and develop technical documentation</p>
<p>310921</p>	<p>Audit Course-2-I Foreign Language- Japanese:</p> <ul style="list-style-type: none"> • Have ability of basic communication. • Have the knowledge of Japanese script • Get introduced to reading , writing and listening skills • Will develop interest to pursue professional Japanese Language course.



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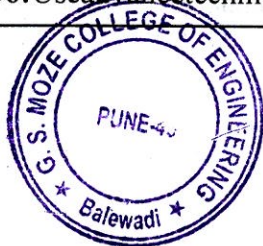
310921	Audit Course-2-I-Foreign Language- FRENCH: <ul style="list-style-type: none"> • Have ability of basic communication. • Have the knowledge of French script. • Get introduced to reading , writing and listening skills • Will develop interest to pursue professional French Language course.
310921	Audit Course-2-II-Environmental Studies: CO1: Recognize the physical, chemical, and biological components of the earth"s systems and show how they function. CO2: See how natural systems and human-designed systems work together, as well as in conflict with each other. CO3: Correlate the human population growth and its trend to the environmental degradation. CO4: Identify different types of environmental pollution and control measures CO5: Correlate the exploitation and utilization of conventional and non-conventional resources.
310921	Audit Course-2-III-Augmented Reality and Virtual Reality: CO1: Apply virtual reality concepts CO2: Understand the concepts of IO interface and visual computation CO3: Develop augmented reality applications using various tools and framework.




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Course Code	Subject: Sem-III
410901	DataScience: CO1: Explain flow process for data science problems. CO2: Elaborate data preprocessing and warehouse. CO3: Utilize various classification techniques for commercially available datasets. CO4: Implement association rule mining for commercially available datasets. CO5: Apply standard clustering methods for commercially available datasets. CO6: Compare appropriate data visualization method for effective visualization of data.
410902	WebTechnologies: CO1: Design web-based application using client-side Technology. CO2: Develop the structure of web sites using XML components. CO3: Analyze current client-side web technologies: JavaScript in detail. CO4: Apply recent client-side web technologies: Angular JS in detail. CO5: Apply the server-side technologies for web development CO6: Create the effective web applications for business functionality using ASP.NET
410903	CloudComputing: CO1: Understand the different Cloud Computing environment CO2: Use appropriate data storage technique on Cloud CO3: Analyze virtualization technology CO4: Develop and deploy applications on Cloud CO5: Apply security in cloud applications CO6: Use advanced techniques in Cloud Computing

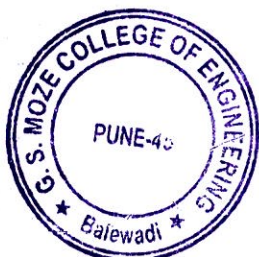


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410904A	<p>Elective:II-BigDataAnalytics:</p> <p>CO1:Understandbigdataanalyticsconcepts.</p> <p>CO2:Solve bigdata problems usingHadoop</p> <p>CO3:ApplydifferentSupervised learningand UnsupervisedLearningalgorithms</p> <p>CO4:Understanddifferentdatavisualizationtechniques.</p> <p>CO5:Understand HadoopArchitecture</p> <p>CO6:SolveComplexrealworldproblemsinvariousapplicationslikerecommender systems,socialmediaapplications, etc.</p>
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410904C	<p>Elective:II-ObjectOrientedAnalysisandDesign:</p> <p>CO1:Analyze theproblemstatement(SRS)andchooseproperdesigntechniquefordesigningweb-based/desktopapplication</p> <p>CO2:Applystaticmodelingdesign toapplications.</p> <p>CO3:UnderstandapplicationofUMLindifferentsystems</p> <p>CO4:Applydynamicmodelingdesign to applications.</p> <p>CO5:Evaluatesoftwarearchitectures</p> <p>CO6:Understandvarious softwaredesignpatterns</p>
410904D	<p>Elective:II-InternetofThings:</p> <p>CO1:Understand generalconceptsof Internet ofThings(IoT)</p> <p>CO2:AnalyzevariousM2Mand IoTarchitectures</p> <p>CO3:Implementanarchitecturaldesign forIoTforspecifiedrequirement</p> <p>CO4:AnalyzeapplicationsofIoTinrealtimescenario</p> <p>CO5:Analyze the challengesof IoTarchitectures.</p> <p>CO6:Recognizevariousdevices,sensors andapplications</p>



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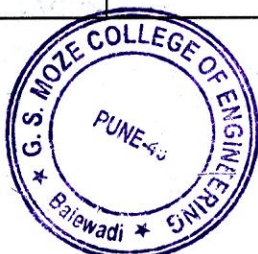
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410904B	<p>Elective:II-MachineLearning:</p> <p>CO1:UnderstandbasicconceptsofMachine Learning.</p> <p>CO2:Understandclassificationconcepts.</p> <p>CO3:Applydifferentregressionandgeneralizationtechniques.</p> <p>CO4:ApplyvariouslogicBased andalgebraicalgorithmsforrealworld applications.</p> <p>CO5:Useprobabilistic modelsformachine learning</p> <p>CO6:UnderstandtrendsInMachine Learning</p>
410904E	<p>Elective:II-OPENELCTIVE:</p> <p>Open elective proposalcan be offeredby thecollealong-withIndustry partner. A proposalwithsyllabus, (Program educational Outcomes) PEO's be forwarded to the Chairman BOS, before June /Decemberevery year.Approvedsyllabusthroughappropriateprocedurecanbetaughtinvariouscolleges.Industrypersonand Teacherappointed together conductthecourse.</p>
410905	<p>SoftwareTestingandQualityAssurance:</p> <p>CO1:Illustratedifferentapproachesofqualitymanagement,assurance,andqualitys tandardtosoftwaressystem</p> <p>CO2: Create test plan, test cases and defect repository using case study.</p> <p>CO3: Apply the concept of white box and block box testing techniques</p> <p>CO4:Analyzevarious testingtypes</p> <p>CO5:Toanalyzerecentautomationtoolsforsoftwaretesting.</p> <p>CO6:Applysoftwaretestingautomation conceptsusingSelenium</p>



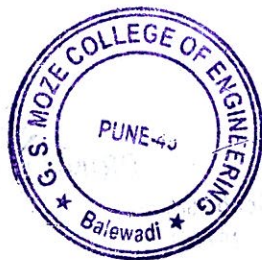
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<p>410906</p>	<p>WebTechnologiesLab:</p> <p>CO1:Designweb-based applicationusingclient-sideTechnology.</p> <p>CO2:Develop the structureof web sitesusingXMLcomponents.</p> <p>CO3: Analyze current client-side web technologies: JavaScript in detail.</p> <p>CO4: Understand recent client-side web technologies: Angular JS in detail.</p> <p>CO5:Understandcurrentserver-sidewebtechnologies anduses.</p> <p>CO6:AnalyzeASP.NETindetail.</p>
<p>314452</p>	<p>Data Science and Big Data Analytics</p> <p>CO1: Understand Big Data primitives.</p> <p>CO2: Learn and apply different mathematical models for Big Data.</p> <p>CO3: Demonstrate Big Data learning skills by developing industry or research applications.</p> <p>CO4:Analyze and apply each learning model comes from a different algorithmic approach and it will perform differently under different datasets.</p> <p>CO5: Understand, apply and analyze needs, challenges and techniques for big data visualization.</p> <p>CO6: Learn different programming platformsfor big data analytics.</p>
<p>410907</p>	<p>ComputerLaboratory (SoftwareTestingLaboratory+ElectiveIILaboratory)</p> <p>CO1:Implement whiteboxandblockboxtestingtechniquesfor anysoftwaresystems</p> <p>CO2:Create Test planand test casesusingcasestudies.</p> <p>CO3:Applyautomation testingusingtools</p> <p>CO4: Interpretbusinessmodelsandscientificcomputingparadigms,and</p>



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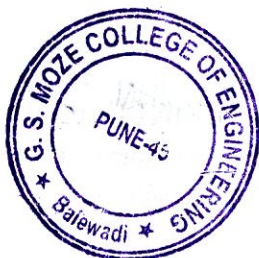
	<p>apply software tools for big data analytics.</p> <p>CO5: Design and develop machine learning model for real time applications</p> <p>CO6: Implement an architectural design for IoT for specified requirement</p> <p>CO7: Interpret the importance of Computational Intelligence for solving the different problems</p>
410908	<p>Data Science Laboratory:</p> <p>CO1: Describe framework of any Data Analytics Tool</p> <p>CO2: Write basic applications using the fundamentals of any Data Analytics Tool.</p> <p>CO3: Apply Modeling techniques using any Data Analytics Tool.</p> <p>CO4: Implement Mining techniques using any Data Analytics Tool</p> <p>CO5: Employ data analysis using graphs.</p> <p>CO6: Implement Data Visualization</p>
410909	<p>Project Based Learning –II (Mini Project-II):</p> <p>CO1: Identify the real life problem from societal need point of view</p> <p>CO2: Choose and compare alternative approaches to select most feasible one</p> <p>CO3: Analyze and synthesize the identified problem from technological perspective</p> <p>CO4: Design the reliable and scalable solution to meet challenges</p> <p>CO5: Inculcate the habit of lifelong learning.</p> <p>CO6: Design and develop technical documentation</p>



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410910A	<p>AC3-I: Foreign Language (Japanese Module 3):</p> <p>CO1: Apply language to communicate confidently and clearly in the Japanese language</p> <p>CO2: Understand and use Japanese script to read and write</p> <p>CO3: Apply knowledge for next advance level reading, writing and listening skills</p> <p>CO4: Develop interest to pursue further study, work and leisure</p>
410910B	<p>AC3-II: Professional Ethics and Etiquettes:</p> <p>CO1: Describe the major elements of ethical theory.</p> <p>CO2: Analyze and present results of complex ethics cases.</p> <p>CO3: Develop basic life skills and etiquettes in order to succeed in corporate culture.</p> <p>CO4: Acquire effective writing skills for drafting academic, business and technical documents</p> <p>CO5: Demonstrate the understanding of professionalism in terms of workplace behaviors and relationships</p> <p>CO6: Develop professional attitude</p>
410910C	<p>Audit Course AC3-III: Mobile App development:</p> <p>CO1: Install and configure Android application development tools.</p> <p>CO2: Design and develop User Interfaces for the Android platform.</p> <p>CO3: Understanding enterprise scale requirements of mobile applications.</p> <p>CO4: Demonstrate their ability to develop software with reasonable complexity on mobile platform.</p> <p>CO5: Demonstrate their ability to deploy software to mobile devices</p> <p>CO6: Apply development tools, techniques, programming languages and libraries required for Mobile app development</p>




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410911	<p>NCC3:MOOCCourse-III-Swayam/SpokenTutorial/NPTEL</p> <p>This course aims to create an excellent opportunity for students to acquire the necessary skill set for employability through massive online courses where the rare expertise of world famous experts from academics and industry are available.</p> <p>MOOCs (Massive Open Online Courses) provide an affordable and flexible way to learn new skills. MOOCs are courses delivered online and accessible to all for free.</p> <ul style="list-style-type: none"> • <i>Massive</i> because enrollments are unlimited and can run into hundreds of thousands. • <i>Open</i> because anyone can enroll— that is, there is no admission process. • <i>Online</i> because they are delivered via the internet. • <i>Course</i> because their goal is to teach a specific subject. <p>MOOCs typically comprise video lessons, readings, assessments, and discussion forums.</p>
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Course Code	Subject: Sem-IV

410912	<p>Major Project:</p> <p>CO1: Learn teamwork and professionalism.</p> <p>CO2: Apply SDLC to project</p> <p>CO3: Apply communication and presentation skills</p> <p>CO4: Recognize the importance of documentation.</p>
410914A	<p>Audit Course 4-I: Entrepreneurship Development:</p> <p>CO1: Develop awareness about entrepreneurship</p> <p>CO2: Develop an entrepreneurial mind-set by learning key skills such as design, personal selling, and communication</p> <p>CO3: Identify business opportunities.</p>



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	<p>CO4: Develop comprehensive business plans.</p> <p>CO5: Understand the entrepreneurial finances and policies</p>
410914B	<p>AC4-II Digital and Social Media Marketing:</p> <p>CO1: Understand social media marketing</p> <p>CO2: Define social media marketing goal setting necessary to achieve successful online campaigns.</p> <p>CO3: Understand digital marketing concepts</p>



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