

Academic Year: 2023-2024 Institute/ Branch Name : Symbiosis Centre for Management and Human Resource Development
Programme Name : Master of Business Administration (Infrastructure Development Management)

Color Code Description:		
Global	National / Local	Regional / National

Sr. No.	GA No.	Graduate Attributes	PO No.	Programme Outcomes
1	GA1	Scholarship: research, inquiry and lifelong learning	PO1	Interpersonal Skills and Team Effectiveness
2	GA1	Scholarship: research, inquiry and lifelong learning	PO2	Critical and Reflective Thinking Ability
3	GA2	Global citizenship: ethical, social and professional understanding	PO3	Awareness of Global & Regional Business Practices
4	GA4	Employability: equipped with skills, attributes, leadership and entrepreneurial qualities that society needs; being capable of making a contribution to society through earning a living	PO4	Effective Communication
5	GA3	Eco-literate: sensitivity towards a sustainable environment	PO5	Ethical behavior, social responsibility, sustainable attitude
6	GA4	Employability: equipped with skills, attributes, leadership and entrepreneurial qualities that society needs; being capable of making a contribution to society through earning a living	PO6	Domain Knowledge

Sr. No.	Semester	Institute Course Code	Catalog Course Code	Title	Course Outcome No	Course Outcome Statement	P01	P02	P03	P04	P05	P06
1	SEM III	0203440301 - PP	T2906	Summer Internship	CO1	Students will be able to identify, analyze and interpret relevant issues /situations	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
1					CO2	students will be able to analyze and synthesize relevant data	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
1					CO3	Student will be able to Demonstrate effective communication skills to	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
2	SEM III	0203440302 - PP	T2440	Advanced Contract Management	CO1	Evaluate various assessment techniques in providing Contract Administration.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
2					CO2	Appraise intricate commercial aspects of Contract.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
2					CO3	Interpret and assess issues of governance , pricing & transparency.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
2					CO4	choose appropriate contracts for successful public & private particiaption.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
2					CO5	Describe and apply the latest trends in Contracts related to infrastructure projects.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
3	SEM III	0203440303 - PP	T2438	Project Risk Management	CO1	Identify, catagorise and evaluate risks in an infrastructure projectCO Description	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M

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3					CO2	Plan and implement a risk response strategy if and when a risk emerges	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
3					CO3	Develop and deploy appropriate risk management strategies	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
4	SEM III	0203440304 - PP	F0002	Flexi-Credit Course- Infrastructure Analytics	CO1	To assess and interpret heterogeneous data merging physical and statistical information in infrastructural domain	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
4					CO2	To assess and interpret heterogeneous data merging physical and statistical information in infrastructural domain	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M	Weak-L
4					CO3	Develop an appropriate experiential learning for an infrastructural case study taking into account practical limitations and communicate the results.	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L	Moderate-M
5	SEM III	0203440307 - PP	T2060	Advanced Project Feasibility and Financial Engineering	CO1	To consolidate understanding of Ptoject Appraisal Technique	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
5					CO2	to grasp intricacies of Financial Modelling	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
5					CO3	To appraise real life infra. Projects in detail	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
6	SEM III	0203440309 - PP	T2421	EPC Project Procurement and Commissioning	CO1	Understand and get familiarized with the distinguishing features of EPC projects, their common types and the current challenges and opportunities in the Indian context, and be able to analyze specific cases	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
6					CO2	Understand the procurement life cycle, strategic planning for long and short term procurement, importance of supply chain, logistics, material management, vendor evaluation/development in EPC procurement, and be able to analyze specific cases	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
6					CO3	Get introduced to laws/regulations and relevant Procurement contracts applicable to Indian EPC projects, and PMI terminology on procurement, and be able to analyze specific cases	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
6					CO4	Understand testing/ commissioning and closeout of EPC projects under different types and contracts, and be able to analyze specific cases	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
6					CO5	Understand testing/ commissioning and closeout of EPC projects under different types and contracts, and be able to analyze specific cases	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
7	SEM III	0203440310 - PP	T2498	Financial Statement Analysis	CO1	To study , appraise and compare financial statements of various industries	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
7					CO2	To estimate and evaluate the financial health of a firm	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
7					CO3	To interpret the results of the company for managerial decision making	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M

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7					CO4	To evaluate red flags and warning signs through financial statement analysis	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
7					CO5	To understand and apply International reporting and Accounting Standards	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
8	SEM III	0203440311 - PP	T2159	International Trade and Logistics	CO1	To plan, analyze and evaluate the domestic and international logistics operation	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	-
8					CO2	To analyze various critical factors for designing the logistics network.	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L	-
8					CO3	To explain airport, seaport, marine operations planning and scheduling	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
8					CO4	To design performance measurement system for various logistics networks	Moderate-M	Strong-H	Strong-H	Strong-H	-	-
8					CO5	To understand global sourcing processes to copeup with infra projects sourcing	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	-
9	SEM III	0203440312 - PP	T2437	Project Execution Planning and Control	CO1	Understand the corelation of Planning & Execution processes with Project Delivery methods & Types of Contracts; and apply them appropriately	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
9					CO2	Understand the different types of Project organizations and management styles, the effective role of a Project manager, and the duties/ selection of consultants on Infra projects	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
9					CO3	Plan the execution meaningfully and set up effective performance monitoring system at site, covering record keeping, documentation, contract/ sub-contract administration, cost control, billing & closeout	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
9					CO4	Manage the gaps in execution control and take effective steps including submitting and negotiating Project delay claims	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
10	SEM III	0203440313 - PP	T2439	Project Site Management	CO1	understand Project Site Management in terms of Schedule, Cost, Quality, and Safety	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
10					CO2	Understand Project members, and their roles and responsibilities	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
10					CO3	Review Project Procedures Manual to manage the sit	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
10					CO4	Understand common site problems	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
11	SEM III	0203440314 - PP	T2428	Safety and Quality Management	CO1	To understand and explain the basic concepts of EHS values, safety management and its importance for industries	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	-
11					CO2	Students will be able to demonstrate the application of safety management procedures	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M
11					CO3	Implement QMP during pre-construction and construction activities through quality control checklists	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M

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11					CO4	Measurement of Cost of Quality (COQ) using different models	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
12	SEM III	0203440315 - PP	T2165	Lean Six Sigma	CO1	To describe the concepts of Six Sigma as a quality improvement tool.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
12					CO2	To explain the complete DMAIC cycle in detail	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
12					CO3	To analyze when and how to use Six Sigma as a tool for process improvement	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
12					CO4	To analyze different cases of Six Sigma implementation	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
12					CO5	To apply Six Sigma concepts using software systems	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
13	SEM I	0203440101 - PP	T2239	Business Communication	CO1	To apply the language, non verbal and cross cultural skillsto communicate at workplace.	Strong-H	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
13					CO2	To develop abilities to effectivly communicate within and outside the teams/ organization.	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M	Weak-L
13					CO3	To develop upon these skills for effective verbal and written communications.	Strong-H	Weak-L	Moderate-M	Strong-H	Moderate-M	Moderate-M
14	SEM I	0203440102 - PP	T2216	Business Statistics	CO1	To enable students to present, analyze and interpret data	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
14					CO2	To enable students to use concepts of probability in business situation	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H	Weak-L
14					CO3	To enable students to make inferences from samples drawn from large datasets	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
14					CO4	To enable students to apply univariate and multivariate statistical techniques.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
15	SEM I	0203440103 - PP	T2423	Introduction to Power Sector	CO1	Interpret the status of power generation with respect to demand and supply situation	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
15					CO2	Apply knowledge of main sources of power generation, present constraints and future prospects	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
15					CO3	Discover the criticality of transmission, distribution, utilities and need for enhancing delivery mechanism	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
15					CO4	Obtain a holistic perspective of power infrastructure with respect to fuels, resources and environment	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
16	SEM I	0203440104 - PP	T2777	Management Accounting	CO1	To understand the concepts and fundamentals of management accounting;	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
16					CO2	To apply the concepts in managerial planning, decision making, controlling	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
16					CO3	To evaluate alternative solutions to given problem and to arrive at decisions	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
16					CO4	To use management accounting tools and techniques for estimating and evaluatin	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M

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17	SEM I	0203440105 - PP	T2443	Oil and Gas Economies	CO1	Overall Energy scenario;Gas Demand & Supply Policy.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
17					CO2	Regulation and Pricing	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
17					CO3	Role of government and professional bodies	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
17					CO4	Separation and processing of oil and gas	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
18	SEM I	0203440106 - PP	T2193	Project Management	CO1	Importance of project management in Infrastructure project	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
18					CO2	Relevance and value of business case, feasibility studies, requirement management and planning a project	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
18					CO3	Execution of a project within preagreed schedule, cost and quality to meet project requirement	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
18					CO4	Project procurement and resource management	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
18					CO5	Project risk and stakeholder management	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
19	SEM I	0203440107 - PP	T2431	Tendering, Bidding and Contracting	CO1	Understand the tendering, bidding, and contracting process	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
19					CO2	Prepare tender document for any type of infrastructure project	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
19					CO3	Analyze quotations and select contractor or vendo	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
20	SEM I	0203440108 - PP	T6075	Managerial Economics	CO1	Understand the basic concepts in introductory economics	Moderate-M	Strong-H	Moderate-M	Moderate-M	Weak-L	Moderate-M
20					CO2	Understand the decisions taken by decision making authorities such as corporates/ government, from an economic analysis perspective	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
20					CO3	Apply the concepts in business transactions and case studies	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
20					CO4	Analyse the daily events/news and identify the relevant concepts	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Strong-H
21	SEM I	0203440109 - PP	T2237	Corporate Social Responsibility	CO1	To understand the larger theoretical and empirical aspects of Corporate Social Responsibility (CSR).	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M
21					CO2	To understand the larger theoretical and empirical aspects of Corporate Social Responsibility (CSR).	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M
21					CO3	To understand the larger theoretical and empirical aspects of Corporate Social Responsibility (CSR).	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M
21					CO4	To equip with emerging opportunities and challenges in the domain of CSR within corporate context by linking the micro context to that of macro context in a state and global context.	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M

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22	SEM I	0203440110 - PP	T2802	Project I	CO1	Students will be able to identify, analyze and interpret relevant issues /situations.	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
22					CO2	Students will be able to analyze and synthesize relevant data	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
22					CO3	Students will be able to write and present a business issue comprehensively	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
23	SEM I	0203440111 - PP	T2705	Infrastructure Planning and Development	CO1	To equip with emerging opportunities and challenges in the domain of CSR within corporate context by linking the micro context to that of macro context in a state and global context.	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
23					CO2	Understand Government initiatives and evaluate challenges in planned outcomes on the Infra front.	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
23					CO3	Evaluate role of Infrastructure in Economic and Social growth	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
23					CO4	Understand the components of Infrastructure, review current status and Evaluate the challenges and opportunities in development	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
23					CO5	Compare key aspects of Indian infrastructure with other rapidly developing nations and recommend actions to achieve parity	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
24	SEM I	0203440112 - PP	T2705	Organizational Behaviour	CO1	Describe how OB affects performance and effectiveness	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
24					CO2	Understand dynamics of group behavior	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
24					CO3	Understand basic framework of human behavior	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
24					CO4	Achieve better understanding of interpersonal relationship	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
25	SEM I	0203440113 - PP	T2572	Human Resource Management	CO1	Define the basic concepts, functions, scope & techniques used in HRM.	Moderate-M	Strong-H	Moderate-M	Moderate-M	Weak-L	Strong-H
25					CO2	Analyze the various contemporary issues in HRM function in current scenario	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Strong-H
25					CO3	Apply & demonstrate the HR skills of managers towards employees	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
25					CO4	Apply & demonstrate the HR skills of managers towards employee	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M
25					CO5	Develop understanding of HR as sustainable competitive advantage for organizations	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M
26	SEM I	0203440114 - PP	T2707	Roads, Highways and Bridges	CO1	Understand and get familiarized with the benefits, history, classification and the current development challenges/ opportunities/ Govt. Initiatives.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M

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26					CO2	Understand the process of Highway Planning and its components along with its Socio-Economic/Political implications, and various types of surveys necessary for the input	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
26					CO3	Understand and Apply the fundamentals of Geometric Design, Pavement structural Design, and Evaluate choices based on life cycle economics.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
26					CO4	Analyze and Evaluate Traffic control Engineering measures and choices (including lighting)	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
26					CO5	Understand and get familiar with techniques of road condition evaluation and maintenance, and ascertain the correct choices of methods.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
26					CO6	Understand and apply basic Bridge Engineering concepts and components	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
26					CO7	Get familiarized with practical road construction machinery and techniques, including QHSE, and Hill roads, DPR	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
27	SEM I	0203440115 - PP	T2653	Climate Change and Infrastructure	CO1	Understand the Scientific basis for climate change and cite the compelling evidence that climate change is occurring	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Strong-H
27					CO2	Describe various carbon inventory impact assessment tools and apply an appropriate tool to a sample project	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
27					CO3	Identify and explain the major challenges that climate change poses to critical infrastructure systems	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Strong-H
27					CO4	Become familiar with a variety of specific tools that practicing professionals are using to plan for adaptation to climate change relative to critical infrastructure systems	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Strong-H
28	SEM I	0203440116 - PP	T2224	Research Methodology	CO1	Comprehension of research issues	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
28					CO2	Ability to identify research questions and formulate research hypotheses	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
28					CO3	Ability to understand and apply various techniques of research design and data collection	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
28					CO4	Ability to synthesize qualitative and quantitative data crunching techniques	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
29	SEM IV	0203440401 - PP	T2715	City Housing, Townships and Smart Cities	CO1	Understand the issues regarding upgrading the urban housing status and future challenges	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
29					CO2	Understand the constitutional, legal and regulatory framework of urban housing and affordable housing in particular.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M

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29					C03	terpret various housing policies in JNNURM, Rajiv Awas Yojana, PMAY and Affordable Housing under Housing for all scheme	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
29					C04	understand and interpret policy and regulatory framework of SEZs and NMZs	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
30	SEM IV	0203440402 - PP	T2802	Project II	C01	Students will be able to identify, analyze and interpret relevant issues /situations.	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
30					C02	Students will be able to analyze and synthesize relevant data	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
30					C03	Students will be able to write and present a business issue comprehensively	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
31	SEM IV	0203440403 - PP	T2595	Concepts and Applications in Sustainability	C01	Apply the concept of sustainability in a business.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
31					C02	To compare sustainability practices amongst various industry sectors	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
31					C03	Discover the applications of sustainability in business processes	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
31					C04	Choose best practices in corporate sustainability processes.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
32	SEM IV	0203440404 - PP	T2710	Land Acquisition and Rehabilitation	C01	Understand the land acquisition procedure	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
32					C02	Understand the need for land acquisition for infrastructure development	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
32					C03	Understand the drawback in the present system particularly with reference to Rehabilitation and Resettlement of affected persons	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
32					C04	Understand the changes made in the LARR 2013. understand the concept of SEZ and various aspects of it	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
33	SEM IV	0203440405 - PP	T2430	Taxation for Infrastructure Projects	C01	Grasp and apply implications of various Direct & Indirect taxes to the project costs and feasibility	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
33					C02	Evaluate and take appropriate decisions on execution mechanism keeping in mind best options	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
33					C03	Relate with contractual obligations effectively by evaluating the tax incidences correctly	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
33					C04	Relate with contractual obligations effectively by evaluating the tax incidences correctly	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
33					C05	Understand how land can be used as resource for financing the urban infrastructure.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M

Sr. No.	Semester	Institute Course Code	Catalog Course Code	Title	Course Outcome No	Course Outcome Statement	P01	P02	P03	P04	P05	P06
34	SEM IV	0203440406 - PP	T2473	International Projects and Marketing	CO1	Understand the emerging scenario of International projects	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
34					CO2	Develop abilities to identify suitable markets for project businesse	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
34					CO3	Analysis the features , peculiarities of different countries, the risks and opportunities involved	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
34					CO4	Deal with challenges of doing business in overseas marke	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M
34					CO5	Grasp criticalities of inviting participation from overseas firm	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
34					CO6	Relate role of various domestic and overseas institutions	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
35	SEM IV	0203440409 - PP	TM 2049	Airport Development and Management	CO1	Illustrate the importance of Airport related infrastructure for smooth functioning of Aviation.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
35					CO2	Apply the engineering aspects of Airport working on Air side and City side in its management.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
35					CO3	Interpret the Regulatory and Safety aspects of Airport management and Private sector participation.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
35					CO4	Operation and management of airport infrastructure	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
35					CO5	Environmentally sustainable development of airports by considering natural resource management, carbon management etc.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
36	SEM IV	0203440411 - PP	T2709	Railways and Freight Corridor Development	CO1	Railways has been the prime mover of goods and passengers in the country and hence performs a role of major stakeholder in development of Indian economy	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
36					CO2	The concerns include new competitive pressures, outdated business structures and operational inefficiencies	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
36					CO3	Experts say that independent accountability, management focus on operational efficiency	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
36					CO4	Greater stakeholder participation are necessary milestones in transforming Railways.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
37	SEM II	0203440201 - PP	T2710	Land Acquisition and Rehabilitation	CO1	Understand the land acquisition procedure	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
37					CO2	Understand the need for land acquisition for infrastructure development	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
37					CO3	Understand the drawback in the present system particularly with reference to Rehabilitation and Resettlement of affected persons	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
37					CO4	Understand the changes made in the LARR 2013. underastand the concept of SEZ and various aspects of it.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M

Sr. No.	Semester	Institute Course Code	Catalog Course Code	Title	Course Outcome No	Course Outcome Statement	P01	P02	P03	P04	P05	P06
38	SEM II	0203440202 - PP	T2816	Renewable Energy Sources and Technologies	CO1	Relate various sources of renewable energy to energy security	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
38					CO2	Compute and predict the renewable energy demand scenario in India	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
38					CO3	Describe the fundamentals of various renewable energy conversion processes	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
38					CO4	Identify various factors that impact the performance of the different technologies.	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
38					CO5	Carry out field projects in the sector of renewable energy	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
38					CO6	Choose an approach for renewable energy production & management	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
38					CO7	Interpret the global renewable energy scenario with Indian Energy scenario	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
38					CO8	Interpret and apply the national policies on Renewable energy to business.	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
39	SEM II	0203440203 - PP	T2436	Contracts and Claims Management	CO1	Interpret contract documents in various infrastructure sectors.	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M
39					CO2	Analyse and demonstrate skills to manage the Contractual framework and compliance	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
39					CO3	Understand the provisions of Indian Contract Act & other relevant Acts.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M
39					CO4	Illustrate capability to interpret and apply the learnings from FIDIC Documents	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
39					CO5	Analyse causes of claims and identify solutions	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
39					CO6	Interpret the court decisions in cases related to claims.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
40	SEM II	0203440204 - PP	T2063	Project Feasibility and Financing	CO1	To grasp intricacies of Appraisal of Returns and Risks	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
40					CO2	To be able to appraise Infrastructure and capital investment projects	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
40					CO3	To be able to identify suitable financing forms, types and sources for various types on Infrastructure projects	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
41	SEM II	0203440205 - PP	T2035	Introduction to Financial Management	CO1	To understand the basic concepts of Financial Management and also the financial environment of business, including financial markets and regulatory framework	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M

Sr. No.	Semester	Institute Course Code	Catalog Course Code	Title	Course Outcome No	Course Outcome Statement	P01	P02	P03	P04	P05	P06
41					CO2	To understand the characteristics of long term and short term financial planning, principles of risk & return, cost of capital and related theories, including their practical application	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
41					CO3	To understand the importance and application of Capital Structuring, Capital Budgeting, Working Capital Management and Dividend Decisions in Financial Management functions	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
41					CO4	To appreciating the concept of Time Value of Money, with ability to demonstrate analytical and computational skills while applying the concept in various areas of Financial Management	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
41					CO5	To develop a broad understanding of areas like analysis of financial statements, financial distress, mergers & acquisitions, leverage, valuation of equity and bonds, etc	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
42	SEM II	0203440206 - PP	T2220	Operations Research	CO1	Develop a general understanding of the Operational Research (OR) approach to decision making.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
42					CO2	Model a real-world problem, given in words, into a mathematical formulation.	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
42					CO3	Solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
42					CO4	Analyse decision environment and propose the best strategy using decision making methods.	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
42					CO5	Demonstrate analytical approach to decision making	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
43	SEM II	0203440207 - PP	T2437	Project Execution Planning and Control	CO1	Understand the corelation of Planning & Execution processes with Project Delivery methods & Types of Contracts; and apply them appropriately	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
43					CO2	Understand the different types of Project organizations and management styles, the effective role of a Project manager, and the duties/ selection of consultants on Infra projects	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
43					CO3	Plan the execution meaningfully and set up effective performance monitoring system at site, covering record keeping, documentation, contract/ sub-contract administration, cost control, billing & closeout	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
43					CO4	Manage the gaps in execution control and take effective steps including submitting and negotiating Project delay claim	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
44	SEM II	0203440208 - PP	T3312	Project Management Suite	CO1	Use MS Project (MSP) proficiently	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
44					CO2	Create schedule in MSP by linking the activities and assigning predecessors and successors	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M

Sr. No.	Semester	Institute Course Code	Catalog Course Code	Title	Course Outcome No	Course Outcome Statement	P01	P02	P03	P04	P05	P06
44					CO3	Resource load (manpower, material, and equipment) activities	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
44					CO4	Find out critical path, and prepare recovery schedule	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
44					CO5	Run EVM, cash flow, and other reports from MSP	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
45	SEM II	0203440209 - PP	T2827	Supply Chain Management	CO1	Introduction to supply chain management and elements of supply chains	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
45					CO2	Understanding of various drivers of supply chains and relationships between them	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
45					CO3	Analysis of transportation mode trade-off and number of facilities	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
45					CO4	Inventory management and classification in supply chains	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
46	SEM II	0203440210 - PP	F0002	Flexi-Credit Course- Infrastructure Research Methods	CO1	to learn the process and inputs required for successful academic publications and technical reports by articulating business problems in the field of infrastructure, gathering relevant data, analyzing data by most appropriate statistical techniques, drawing precise understanding and identifying the best way forward	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
46					CO2	to understand applications of qualitative as well as quantitative research methods on infrastructural business issues	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
46					CO3	To deliver high quality journal manuscripts worthy of publication in peer reviewed journals. Publishable manuscripts can be emperical in nature, or could be literature reviews.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
46					CO4	To acquire sharper problem solving skills that can be applied to the issues arising during in the entire chain of infrastructure development	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
47	SEM II	0203440211 - PP	T6080	Transportation Economics	CO1	In this course, the tools of microeconomic analysis will be applied to the transport sector	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
47					CO2	The demand for transporting freight is explained using the theory of the derived demand for an input	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
47					CO3	The transport sector is very rich in terms of applications of concepts such as price discrimination	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
47					CO4	The course, in general, covers the relationship between transport and the economy	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
47					CO5	The Indian context to provide important insights into the economics and management of different parts of the transport sector	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
48	SEM II	0203440212 - PP	T2444	Public Private Partnerships	CO1	Establish the criteria for public private partnership(PPP)	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M

Sr. No.	Semester	Institute Course Code	Catalog Course Code	Title	Course Outcome No	Course Outcome Statement	P01	P02	P03	P04	P05	P06
48					CO2	II. Analyze stakeholders€™ requirements to meet PPP objectives.	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M
48					CO3	III. Choose the appropriate agreement	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
48					CO4	IV. Establish key success factors to createa successful PPP business mode	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
48					CO5	IV. Establish key success factors to createa successful PPP business mode	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M
48					CO6	Evaluate issues specific to various sectors and choose appropriate solutions	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M
49	SEM II	0203440213 - PP	T3152	Advanced Excel	CO1	statistical Data Analysis	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Strong-H
49					CO2	Sensitivity Analysis	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Strong-H
49					CO3	Multi-page Budget	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
49					CO4	Data Mining using Pivot Tables	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
49					CO5	Unconventional Financial X NPV & X IRR	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
50	SEM II	0203440214 - PP	T2440	Advanced Contract Management	CO1	Evaluate various assessment techniques in providing Contract Administration.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
50					CO2	Appraise intricate commercial aspects of Contract.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
50					CO3	nterpret and assess issues of governance , pricing & transparency.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
50					CO4	Choose appropriate contracts for successful public & private particiaption	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
50					CO5	Describe and apply the latest trends in Contracts related to infrastructure projects	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
51	SEM II	0203440216 - PP	T2439	Project Site Management	CO1	Understand Project Site Management in terms of Schedule, Cost, Quality, and Safety	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
51					CO2	Understand Project members, and their roles and responsibilities	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
51					CO3	Review Project Procedures Manual to manage the site	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
51					CO4	Understand common site problem	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
52	SEM II	0203440217 - PP	T2062	Project Cost Management and Social Cost Benefit Analysis	CO1	To grasp need, context and applicability of cost benefit analysis	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
52					CO2	To prepare cost benefit analysis of road, power and other infrastructure projects	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
52					CO3	nfrastructure projects involve large outlays and such outlays are irrevocable	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M

Sr. No.	Semester	Institute Course Code	Catalog Course Code	Title	Course Outcome No	Course Outcome Statement	P01	P02	P03	P04	P05	P06
53	SEM II	0203440218 - PP	T2043	Security Analysis and Portfolio Management	CO1	Analyse efficiency of security market	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
53					CO2	Analyse, value and recommend investing in a stock	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M