



**JINDAL GLOBAL
BUSINESS SCHOOL**
INDIA'S FIRST / MULTI-DISCIPLINARY GLOBAL BUSINESS SCHOOL



O.P. Jindal Global University
A Private University Promoting Public Service
NAAC Accreditation - 'A' Grade

Jindal Global Business School
Course Outline

Course Title	Project Management Analytics
Program and Batch	MBA-2025, IBM-2022, IBM-2023
Semester & Academic Year	Fall 2026
Credits	1.5
Discipline/Area	Operations Management and Supply Chain
Name of the Faculty Member/Course Instructor	Dr. Ashish Trivedi
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Faculty Member's Open Office Day/s & Time	TBA

Introduction to the Course

The Project Management Analytics Course intends to develop project-based planning and control competencies for prospective managers. The course will focus on building an understanding of managing projects within the scope, limitations, and challenges of time, human resources, and other inputs, successfully driving the project toward favourable outcomes.

Course Learning Outcomes:

At the end of the course, the students will be able to:

- CLO 1: Develop work breakdown structures for projects.
- CLO 2: Learning tools for planning and controlling of projects.
- CLO 3: Develop network schedules through PERT and CPM.
- CLO 4: Understand and execute resource optimization.

Programme Competency Goals

MBA Programme Competency Goals (PCGs)		MBA Programme Learning Objectives (PLOs)
		Students will be able to
1	Technological Agility: Ability to adopt relevant technologies for better business decision making.	1. Understand relevant business technologies
		2. Understand future business technologies in business domain
2	Responsible Global Citizenship: Ability to understand the interplay between local and global issues and to act with sensitivity towards ethical and social issues	3. Understand the interplay between local and global business issues
		4. Demonstrate sensitivity towards ethical issues
		5. Demonstrate sensitivity towards social issues
		6. Address societal issues
3	Effective communication: Ability to effectively exchange ideas and information	7. Present their ideas with clarity
		8. Prepare an organized and logical business document
		9. Use technology for effective communication
4	Critical Thinking: Ability to identify, analyze business problems and propose effective solutions	10. Identify main issues of business problems
		11. Examine information from different sources
		12. Draw inferences from analysis
		13. Evaluate alternatives
		14. Summarize and conclude
5	Leadership: Ability to take initiative, inspire and collaborate with others	15. Take initiative
		16. Contribute effectively in groups

CLO-PLO-PCG Assessments Mapping Matrix

Program Learning Objectives (PLOs)	Program Competency Goals (PCGs)	Course Assessment Item
This course helps you to develop the following Program Learning Outcomes:	This course helps you to develop the following Program Competency Goals:	This learning outcome will be assessed in the following items

PLO7 & PLO8	PCG3	A1, A2, A3 & A4
PLO11, PLO12 PLO13	PCG4	A1, A2, A3 & A4

Evaluation Schema

The course grade will be determined on the basis of

Assessment Task	Weightage	Nature	Week of Assessment	PLOs to be Assessed
A1: Class Participation	10%	Individual	Week 1-7	PLO7, PLO8, PLO11, PLO12, PLO13
A2: Quiz (2)	20%	Individual	Week 4 & 6	PLO7, PLO8, PLO11, PLO12, PLO13
A3: Project Interim Submission	40%	Individual	Week 7	PLO7, PLO8, PLO11, PLO12 & PLO13
A4: Final Submission of Project	30%	Individual	After Week 7	PLO7, PLO8, PLO11, PLO12, PLO13

Description of Assessments

A1: Class Participation (10%): Students' participation in class discussions, hands-on practice problems, and guest lectures will be evaluated on a scale of 10 marks.

A2- Assignment/Quiz (20%) - During the semester, there will be an assignment submission and/or a quiz. The quiz shall be announced one session in advance and no requests for re-quiz/ make-up quiz/ alternate assignments shall be entertained.

A3- Project Interim Submission Presentation (40%) - There will be an interim report submission based on the course's learning, which will carry 30 marks, and the students may be asked to make a presentation out of the submitted assignment.

A4- Final report submission and Presentation (30%) - There will be a final report submission based on the course's learning, which will carry 30 marks, and the students may be required to make a presentation out of the submitted project.

- Suitability of Topic (25%)

- Exhaustiveness of the applied tools and their understanding (60%)
- Report structure and format (10%)

Rubrics for Assessments

Project Submission:

Criteria	Exceeds Expectations	Meets Expectations	Below Expectations
Content	The assignment demonstrates exceptional knowledge and understanding of the subject matter. The content is thorough, well-organized, and insightful.	The assignment demonstrates a good understanding of the subject matter. The content is well-organized and presents relevant information.	The assignment demonstrates limited understanding of the subject matter. The content is disorganized and presents incomplete or inaccurate information.
Analysis	The assignment provides insightful and original analysis of the topic, using relevant examples and evidence to support arguments.	The assignment provides a good analysis of the topic, using some examples and evidence to support arguments.	The assignment provides limited or no analysis of the topic, with little or no use of examples or evidence.
Presentation	The assignment is well-presented, with clear and concise writing, appropriate use of visuals, and effective use of referencing and citation.	The assignment is adequately presented, with clear writing, appropriate use of visuals, and adequate referencing and citation.	The assignment is poorly presented, with unclear writing, inadequate use of visuals, and insufficient referencing and citation.
Research	The assignment demonstrates extensive research, using a variety of high-quality sources to support arguments.	The assignment demonstrates some research, using a mix of sources to support arguments.	The assignment demonstrates limited research, using few or unreliable sources to support arguments.
Overall	The assignment exceeds expectations in all areas and demonstrates exceptional work.	The assignment meets expectations in most areas and demonstrates good work.	The assignment falls short of expectations in most areas and demonstrates inadequate work.

Presentation Rubric

Criteria	Exceeds Expectations	Meets Expectations	Below Expectations
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Content	The presentation demonstrates exceptional knowledge and understanding of the subject matter. The content is thorough, well-organized, and insightful.	The presentation demonstrates a good understanding of the subject matter. The content is well-organized and presents relevant information.	The presentation demonstrates limited understanding of the subject matter. The content is disorganized and presents incomplete or inaccurate information.
Delivery	The presentation is engaging and dynamic, with clear and confident delivery, appropriate use of body language, and effective use of visual aids.	The presentation is engaging, with clear delivery, appropriate use of body language, and adequate use of visual aids.	The presentation is dull or unengaging, with unclear delivery, inappropriate use of body language, and insufficient use of visual aids.
Time Management	The presentation is well-timed and covers all relevant topics within the allotted time.	The presentation is adequately timed and covers most relevant topics within the allotted time.	The presentation is poorly timed and fails to cover relevant topics within the allotted time.
Interaction	The presentation encourages interaction and engagement with the audience, using appropriate questioning and responding effectively to audience feedback.	The presentation attempts to engage the audience, but with limited success in encouraging interaction or responding to audience feedback.	The presentation does not attempt to engage the audience or respond to audience feedback.

Teaching Method

The pedagogy would comprise of explanation of the topics and concepts through a mix of PowerPoint presentations as well as whiteboard. The students will also get exposure of developing schedules in Excel Solver. Further, there would be interactive discussions of the latest case studies in the domain. The focus would be to facilitate individual learning through discussions, presentations, and timely assessments.

Textbook / Course Package / Other Readings

1. *Project Management: A Managerial Approach*, 8e, J.Meredith & S.Mantel, John Wiley.
2. Project Management Body of Knowledge (PMBOK), PMI.
3. *Project Management: A Systems Approach to planning scheduling and controlling*, Harold Kerzner, Wiley.
4. *Project management and Appraisal*, Sitangshu Khatua, Oxford publishing.

5. Project Management by Grey, Larsen & Desai. (Sage Pub.)

Session Plan

Sessions	Topics	PLOs covered
Session-1	Understanding Project Management	PLO 8
Objective of the session	At the end of this week students will learn: Fundamental aspects of Projects & management of projects focusing on Life cycle of projects	
Subtopics to be covered	Life cycle of projects	
Readings	Textbook Chapters & Readings provided in Class	
Case title & Number	NA	
Pedagogy (choose one of the following)	Class discussion and Q&A Session with the help of PPT presentation and White board	
Session-2	Project management body of knowledge (PMBOK): knowledge areas	
Objective of the session	At the end of this week students will learn the knowledge areas and the processes involved in managing projects.	
Subtopics to be covered	PMBOK Knowledge Areas	
Readings	PMBOK Handbook	
Case title & Number	NA	
Pedagogy	Class discussion and Q&A Session with the help of PPT presentation and White board	
Session-3	Project Selection	PLO 11, PLO 12, PLO 13
Objective of the session	At the end of these weeks' students will learn Various project selection criteria and models.	
Subtopics to be covered	project selection criteria	
Readings	Operations research: An Introduction & Readings	

Case title & Number	To be distributed in class	
Pedagogy	Class discussion and Q&A Session with the help of PPT presentation, White board, and Excel	
Session-4	Project Planning	PLO 8, PLO 11, PLO 12, PLO 13
Objective of the session	At the end of this week students will learn: Key aspects of project planning, developing WBS and other elements of projects	
Subtopics to be covered	Work Breakdown Structure	
Readings	Textbook Chapters & Readings provided in Class	
Case title & Number	NA	
Pedagogy	Class discussion and Q&A Session with the help of PPT presentation and White board	
Session-5	Project Budgeting-1	PLO 8, PLO 11, PLO 12, PLO 13
Objective of the session	At the end of this week students will learn: Fundamentals of Budgeting & costing of Projects focusing on uncertainty & risks involved	
Subtopics to be covered	Budgeting & costing of Projects	
Readings	Textbook Chapters & Readings provided in Class	
Case title & Number	To be distributed in class	
Pedagogy	Class discussion and Q&A Session with the help of PPT presentation & White board	
Session-6	Project Budgeting-2	PLO 8, PLO 11, PLO 12, PLO 13
Objective of the session	At the end of this week students will learn: Fundamentals of Budgeting & costing of Projects focusing on uncertainty & risks involved	
Subtopics to be covered	Risk Associated with the Project	
Readings	Textbook Chapters & Readings provided in Class	
Case title & Number	To be distributed in class	

Pedagogy	Class discussion and Q&A Session with the help of PPT presentation & White board	
Session-7	Guest Lecture by “Mr. Amitesh Dixit, Project Manager- TCS”	PLO 8, PLO 11, PLO 12, PLO 13
Objective of the session	To Understand the things in more practical way.	
Subtopics to be covered	High Risk Projects	
Readings	NA	
Case title & Number	NA	
Pedagogy	Online Guest Lecture Followed with Q&A	
Session-8	Project Scheduling- 1	
Objective of the session	At the end of this week students will learn: Fundamental aspects of Time management for projects focusing on sequencing & scheduling, determining project completion times using CPM.	
Subtopics to be covered	Critical Path Method	
Readings	Textbook Chapters & Readings provided in Class	
Case title & Number	To be distributed in class	
Pedagogy	Class discussion and Q&A Session with the help of PPT presentation, Excel and White board	
Session –9	Project Scheduling- 2	PLO 7, PLO 8, PLO 11, PLO 12, PLO 13
Objective of the session	At the end of this week students will learn: Fundamental aspects of Time management for projects focusing on sequencing & scheduling, determining project completion times using PERT, critical activities and slacks associated with them, various tools to manage time and approach to handle uncertainty in project durations	
Subtopics to be covered	Project Review and Evaluation Technique	
Readings	Textbook Chapters & Readings provided in Class	
Case title & Number	To be distributed in class	

Pedagogy	Class discussion and Q&A Session with the help of PPT presentation, Excel and White board	
Session-10	Resource Optimization-1	PLO 8, PLO 11, PLO 12, PLO 13
Objective of the session	At the end of this week students will learn: Optimization in allocation of resources for project activities.	
Subtopics to be covered	Resource Optimization	
Readings	Textbook Chapters & Readings provided in Class	
Case title & Number	To be distributed in class	
Pedagogy	Class discussion and Q&A Session with the help of PPT presentation and White board	
Session-11	Resource Optimization- 2	PLO 8, PLO 11, PLO 12, PLO 13
Objective of the session	At the end of this week students will learn: Fundamental aspects of Time management for projects focusing on sequencing & scheduling, determining project completion times using CPM, critical activities and slacks associated with them, various tools to manage time and approach to handle uncertainty in project durations	
Subtopics to be covered	sequencing & scheduling	
Readings	Textbook Chapters & Readings provided in Class	
Case title & Number	To be distributed in class	
Pedagogy	Class discussion and Q&A Session with the help of PPT presentation and White board	
Session-12	Agile Project Management-1	PLO 8, PLO 11, PLO 12, PLO 13
Objective of the session	At the end of this week, students will learn Fundamentals of agile project management .	
Subtopics to be covered	agile project management	
Readings	Textbook Chapters & Readings provided in Class	
Case title & Number	NA	

Pedagogy	Class discussion and Q&A Session with the help of PPT presentation, and White board	
Session-13	Agile Project Management-2	PLO 8, PLO 11, PLO 12, PLO 13
Objective of the session	At the end of this week, students will learn Fundamentals of agile project management	
Subtopics to be covered	Flexibility in Projects	
Readings	Textbook Chapters & Readings provided in Class	
Case title & Number	NA	
Pedagogy	Class discussion and Q&A Session with the help of PPT presentation, and White board	
Session -14	Reading & Revision Week/ Examination Week*	
Objective of the session	NA	
Subtopics to be covered	NA	
Readings	NA	
Case title & Number	NA	
Pedagogy	NA	
Session-15	Reading & Revision Week/ Examination Week*	PLO 7, PLO 8, PLO 11, PLO 12, PLO 13
Objective of the session	NA	
Subtopics to be covered	NA	
Readings	NA	
Case title & Number	NA	
Pedagogy	NA	

*Elective Endterm Examinations may take place in the last week of classes.

Disability Support

JGU endeavours to make all its courses accessible to students. The Disability Support Committee (DSC) has identified conditions that could hinder a student's overall wellbeing. These include physical and mobility-related difficulties, visual impairment, hearing impairment, mental health conditions, and intellectual/learning difficulties, e.g., dyslexia and dyscalculia. Students with any known disability needing academic and other support are required to register with the Disability Support Committee (DSC) by following the procedure specified at <https://jgu.edu.in/disability-support-committee/>

Students who need support may register any time during the semester up until a month before the end semester exam begins. Those students who wish to continue receiving support from the previous semester, must re-

register within the first month of a semester. Last-minute registrations and support might not be possible as sufficient time is required to make the arrangements for support.

The DSC maintains strict confidentiality about the identity of the student and the nature of their disability and the same is requested from faculty members and staff as well. The DSC takes a strong stance against in-class and out-of-class references made about a student's disability without their consent and disrespectful comments referring to a student's disability.

All general queries are to be addressed to disabilitysupportcommittee@jgu.edu.in

Disclaimer: This course outline including assessments, mode, nature and weightage of assessments, sessions, sequence of sessions and/or readings may be revised during the semester if such need arises.