

Course Structure - M.Sc. in Geoinformatics

PGM-GIS	Odd Semester	Even Semester
Part One	First Semester	Second Semester
	Core Course Credits - 08	Core Course Credits - 08
	Elective Courses Credits - 08	Elective Courses Credits - 08
	Total First Semester Credits = 16	Total Second Semester Credits = 16
Part Two	Third Semester	Fourth Semester
	Core Course Credits – 08	Core Course- Credits - 16
	Elective Courses Credits – 08	
	Total Third Semester Credits = 16	Total Fourth Semester Credits = 16

Course Information (a)

Sr. No.	Course Title	Course Code	Course Credits
CORE COURSES			
SEMESTER I			
1	Basics of GIS and GPS	PGM-GIS-C1	4
2	Basic of RS and Photogrammetry	PGM-GIS-C2	4
SEMESTER II			
3	Spatial Analysis & Modelling	PGM-GIS-C3	4
4	Advanced Remote Sensing and GIS	PGM-GIS-C4	4
SEMESTER III			
5	GIS in Urban and Regional Planning	PGM-GIS-C5	4
SEMESTER IV			
6	Project Work	PGM-GIS-C6	20
Each course assigns 02 credits for Theory and 02 credits for Practical work.			

Course Information (b)

Sr. No.	Course Title	Course Code	Course Credits
ELECTIVE COURSES			
1	Digital Cartography	PGM-GIS-E1	4
2	Geo-statistics	PGM-GIS-E2	4
3	Principles of Computer and Programming	PGM-GIS-E3	4
4	Digital Image Processing	PGM-GIS-E4	4
5	Programming & Customization	PGM-GIS-E5	4
6	Field techniques and Report writing	PGM-GIS-E6	4
7	GIS for Disaster Management	PGM-GIS-E7	
8	WEB GIS and its Application in GIS	PGM-GIS-E8	4
9	Research methodology	PGM-GIS-E9	4
10	Applications of GIS in Resource Management	PGM-GIS-E10	4
11	Applications of GIS in Agriculture and Soil	PGM-GIS-E11	4
Each course assigns 02 credits for Theory and 02 credits for Practical work.			

Program outcomes

After successful completion of a Master degree in Geoinformatics, the student will:

Program outcome	Short Title of POs	Description of the Program outcome
PO 1	Personal development	Personal effectiveness and workplace competencies are practiced through engagement in discussion boards, following course guidelines, and interactions with the instructor and other students in the class
PO2	Technology of Geospatial aspect	Workplace competencies are strengthened as students apply the analytical and evaluative tools to GIS mapping and apps
PO3	Critical and analytical skills	Be able to demonstrate proficiency in quantitative reasoning and analytical skills
PO4	Development of practical Skills	Be equipped with practical skills and the ability to apply their theoretical concept to design, perform experiments, analyze and interpret data and thus develop proficiency in lab management
PO5	Analysis and problem solving	To be able use these skills to identify and analyzed real world problem and preparing them for a successful career in geospatial industry and research institute.
PO6	Developing an tendency towards research	Develop a tendency towards research through the compulsory internship in industry /research/ academic institutes which promote and inculcate professional ethics and code of practice among students, enabling them to work in a team with multidisciplinary approach.
PO7	Advanced knowledge of Geoinformatics	Acquire of fundamental and advanced knowledge of the different aspect in Geoinformatics with the means ability to specialize in a specific field.

For additional information contact:

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