

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WB
Syllabus of M. Tech. in Geoinformatics
(Effective for 2019-2020 Admission session)

Course Content

First Year

First Semester	
Theory	Lab
DGI-101.Principles of Remote Sensing and Photogrammetry(Credit:3)	DGI-191. Remote Sensing and Photogrammetry Lab(Credit:2)
DGI-102.Principles of Geographic Information Systems (GIS) (Credit:3)	DGI-192. GIS Lab(Credit:2)
DGI-103.Basics of GNSS, Cartography & Digital Mapping(Credit:3)	DGI-193. GNSS and Cartography Lab(Credit:2)
DGI-104. Mathematical Methods and Scientific Computing for Geospatial Data Analysis(Credit:3)	DGI-194. Web Technology Lab(Credit:2)
DGI-105. Recent Trends in Geo-informatics: Machine Learning and Big Data(Credit:3)	DGI-195. Programming in Python(Credit:2)
Second Semester	
Theory	Lab
DGI-201. Spatial Database, Analysis and Modeling and Satellite Image Processing(Credit:3)	DGI-291 Database Analysis and SIP Lab (Credit:2)
DGI-202. Elective I & II (any two of the following) (Credit:3) A. Applications of Geoinformatics B. Disaster Management C. Geoinformatics in Engineering Projects D. Geoinformatics in Water Resources Management	DGI-292. (Credit:2) A. Application of Geoinformatics Lab B. Disaster Management Lab C. Geoinformatics in Engineering Projects D. Geoinformatics in Water Resources Management Lab
DGI-293. Grand Viva (Credit:3)	
DGI-294 Project Work (Credit:3)	

Second Year

Third Semester	
Theory	Lab
DGI-301. WebGIS, Geospatial Cloud Computing (Client Server Architecture) (Credit:3)	DGI-391. WebGIS Lab(Credit:2)
DGI-302. Machine Learning in Geoinformatics(Credit:3)	DGI-392. Machine Learning in Geoinformatics Lab(Credit:2)
DGI-303. Elective III (any one) (Credit:3) i. Recent Trends in Geoinformatics (Big Data, Data Mining etc.) ii. Spatial Data Warehousing and Mining and Spatial Decision Support System	DGI-393. (Credit:2) A. Recent Trends in Geoinformatics Lab B Spatial Data Warehousing and Mining and Spatial Decision Support System Lab
DGI-394. Case Study based Mini Project . M. Tech. Dissertation I(Credit:10)	
Fourth Semester	
491. M. Tech. Dissertation II (Credit:16)	