BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI NEWCOURSE STRUCTURE - To be effective from academic session 2021-22

Based on CBCS system & OBE model

M. TECH. REMOTE SENSING

SEMESTER / Session of Study (Recomended)	Course Level	Category of Course	Course Code	Courses	Mode of delivery & credits L-Lecture; T-Tutorial;P- Practicals			Total Credits <i>C</i> - <i>Credits</i>
					L (Periods/w eek)	T (Periods/ week)	P (Periods/ week)	C
				THEORY				
FIRST /	Fifth	Programme Core (PC)	RS 501R1	Principles of Remote Sensing and Digital Satellite Image Processing	3	1	0	4
			RS 502R1	Geographic Information System and Satellite Navigation System	3	1	0	4
		Programme	RS *	ELECTIVE I	3	0	0	3
		Elective (PE)	RS *	ELECTIVE I LAB	0	0	4	2
Monsoon			1				1	
		Programme Core (PC)	RS 503	Remote Sensing and Digital Satellite	<i>c</i>	-		-
				Image Processing Laboratory	0	0	4	2
	T: 641.		RS 504	Geographic Information				
	Fifth			System&Satellite Navigation	0	0		
				SystemLaboratory	0	0	4	2
			RS 515	Programming and Customisation in	0			
				geospatial domain Laboratory	0	0	2	2
				TOTAL				19
	1		1					
SECOND/ Spring	Fifth	Programme Core (PC)	RS 511	Aerial and Satellite Photogrammetry				
				& Image Interpretation	3	0	0	3
			RS 512	Advanced Remote Sensing and				
				Geospatial Modelling	3	1	0	4
				Data Sources, Statistics and				
			RS 521	Research Methods in Geospatial	3	0	0	3
		Programme	RS *	ELECTIVE II	3	0	0	3
		Elective (PE)	RS *	ELECTIVE II LAB	0	0	4	2
				LABORATORIES				
	Fifth	Programme Core (PC)						
			DC 512					
			RS 513	Aerial and Satellite Photogrammetry				
				& Image Interpretation Laboratory	0	0	4	2
			RS 514	Geospatial Modelling Laboratory	0	0	4	2
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				TOTAL				19
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		Programme Core						
THIRD / Monsoon		(PC)	RS 601	Thesis (Part I)				8
	Sixth	Open Elective (OE)		OE I / MOOC	3	0	0	3
				OE II / MOOC	3	0	0	3
		TOTAL						
FOURTH/ Spring	Sixth		RS 604	Thesis (Part II)				
		(PC)		I				16
	TOTAL							16
								-
		GRAND TO	OTAL FOR M.	TECH PROGRAMME (38 + 30)				68

Elective 1 (Candidate need to take One theory +associated laboratory from Group 1)

- GROUP 1
- RS 505 Remote Sensing in Agriculture & Forestry
- RS 506 Remote Sensing in Disaster Management
- RS 507 Remote Sensing in Hydrology & Water Resources
- RS 508 Remote Sensing in Agriculture & Forestry Laboratory
- RS 509 Remote Sensing in Disaster Management Laboratory
- RS 510 Remote Sensing in Hydrology & Water Resources Laboratory

\$\$ Elective 2 (Candidate need to take One theory +associated laboratory from Group 2)

- **GROUP 2**
- RS 516 Remote Sensing in Snow and Glacier Hydrology
- RS 517 Remote Sensing in Climate Change and Environmental Impact Assessment
- RS 518 Remote Sensing in Snow and Glacier Hydrology Laboratory
- RS 519 Remote Sensing in Climate Change and Environmental Impact Assessment Labora

Open Elective refers to subjects hosted by other Departments, and student need to take a subject (having appropriate credit) of their own choice.