## BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI

NEWCOURSE STRUCTURE - To be effective from academic session 2022- 23 Based on CBCS system & OBE model

## $\textbf{M. TECH. (REMOTE SENSING) - SPECIALISATIONS I. EARTH RESOURCES II. ENVIRONMENT \& CLIMATE$

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 C- Credits
					L (Periods/week)	T (Periods/week)	P (Periods/week)	С
FIRST / Monsoon	FIFTH	THEORY						
		Programme Core (PC)	RS 501	Principles of Remote Sensing and Digital Satellite Image Processing	3	0	0	3
			RS 502R2	Geographic Information System and Satellite Navigation System	3	0	0	3
			RS 511	Photogrammetry & Image	3	0	0	3
		Programme Elective (PE)	RS * ##	ELECTIVE - I	3	0	0	3
		LABORATORIES						
	FIFTH	Programme Core (PC)	RS 503	Remote Sensing and Digital Satellite Image Processing Laboratory	0	0	4	2
			RS 504	Geographic Information System &Satellite Navigation System Laboratory	0	0	4	2
			RS 513	Aerial and Satellite Photogrammetry & Image Interpretation Laboratory	0	0	4	2
		Programme	MT 132 RS * ##	Communication Skills I  ELECTIVE – I Laboratory	0	0	3	1.5
		Elective (PE)	<u> </u>		*	-	TOTAL	21.5
		THEORY					TOTAL	
SECOND/ Spring (Specialisation EARTH RESOURCES)	FIFTH		RS 512	Advanced Remote Sensing and Geospatial Modelling	3	0	0	3
		Programme Core (PC)	RS 521	Data Sources, Statistics and Research Methods in Geospatial Domain	3	0	0	3
			RS 522	Programming concepts for spatial data handling	3	0	0	3
		Programme Elective (PE)	RS * \$\$	ELECTIVE - II	3	0	0	3
		LABORATORIES						
		Programme Core (PC)	RS 514	Advanced Remote Sensing and Geospatial Modelling Laboratory	0	0	4	2
			RS 515R1	Programming and Customisation in geospatial domain Laboratory	0	0	4	2
		Programme	MT 133 RS * \$\$	Communication Skills II  ELECTIVE – II Laboratory	0	0	3 4	1.5
		Elective (PE)		,			H RESOURCES)	19.5
		THEORY						
SECOND/ Spring (Specialisation ENVIRONMENT & CLIMATE)	FIFTH	Programme Core (PC)	RS 523	Physical Meteorology	3	0	0	3
			RS 521	Data Sources, Statistics and Research Methods in Geospatial Domain	3	0	0	3
			RS 522	Programming concepts for spatial data handling	3	0	0	3
		Programme Elective (PE)	RS* \$\$	ELECTIVE - II	3	0	0	3
		LABORATORIES						
		Programme Core (PC)	RS 525	Meteorological Laboratory	0	0	4	2
			RS 515R1	Programming and Customisation in geospatial domain Laboratory	0	0	4	2
			MT 133	Communication Skills II	0	0	3	1.5
		Programme Elective (PE)	RS * \$\$	ELECTIVE – II Laboratory	0	0	4	2
		ERCUVE (FE)			TOTA	L (ENVIRONME)	NT & CLIMATE)	19.5
		<u> </u>				FIFTH	LEVEL TOTAL	41
THIRD / Monsoon	SIXTH	Programme Core (PC)	RS 601	Thesis (Part - I)				8
		Open Elective		OPEN ELECTIVE / MOOC	3	0	0	3
		(OE)	L	OPEN ELECTIVE / MOOC TOTAL	3	0	0	3 14
FOURTH/	SIXTH	Programme Core	RS 604	Thesis (Part – II)				16
Spring		(PC)		TOTAL		<u> </u>	ı	16
		•			AND TOTAL FOR		LEVEL TOTAL RAMME (41 + 30)	30 71