BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI NEWCOURSE STRUCTURE - To be effective from academic session 2018-19 Based on CBCS system & OBE model

M. Tech. (Environmental Science and Engineering)

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SEMESTER / Session of Study (Recomended)	Course Level	Category of course	Course Code		Mode of delivery & credits L-Lecture: T-Tutorial;P-Practical			Total Credits C- Credits	
					L (Periods/week)	T (Periods/week)	P (Periods/week)	С	
FIRST / Monsoon	FIFTH	PC PE	CE527	Ecology and Environment	3	0	0	3	
			CE528	Environmental Chemistry and Microbiology	3	0,	0	3	
			CE529	Water Supply Engineering	3	0	0	3	
				Programme Elective – I	3	U	U	3	
		OE		Open Elective – I	3	0	0	3	
		LABORATORY							
	FIFTH		CE530	Environmental Engineering Laboratory – I	0	0	4	2	
		PC	CE531	Ecology and Microbiology Lab	0	0	4	2	
				TOTAL				19	
			CE532	Wastewater Engineering	3	0	0	3	
SECOND/ Spring	FIFTH	PC	CE533	Air Pollution and Control Technology	3	0	0	3	
			CE534	Solid Waste Management	3	0	0	3	
		PE		Programme Elective – II	3	0	0	3	
		OE		Open Elective – II	3	0	0	3	
		LABORATORY							
	FIFTH	PC	CE535	Environmental Engineering Laboratory - II	0	0	4	2	
			CE536	Design of Water and Wastewater System	0	0	4	2	
	TOTAL						19		
			TOTAL F	OR FIRST YEAR				38	
	FIFTH	FIFTH PE	CE537	Environmental Impact Assessment and Legislation	3	0	0	3	
				Programme Elective - III	3	0	0	3	
THIRD/		LABORATORY							
Мольооп	FIFTH	PC	CE538	System Engineering Sessional	0	0	4	2	
			CE539	Thesis Part 1				8	
		TOTAL.					16		
FOURTH/ Spring	FIFTH	PC	CE540	Thesis Purt 2				16	
				TOTAL				16	
TOTAL FOR SECOND YEAR							32		
		GRAN	D TOTAL FOR M.	TECH PROGRAMME (38 +	32)			70	

		DEPARTMENT OF CIVIL AN PROGRAMM OFFERED FOR M.Tech. (En	D ENVIRONMENTAL ENGIN ME ELECTIVES (PE) vironmental Science and Engine				
PE/LEVEL	Code no.	Name of the PE subjects	Prerequisites Subjects with code	L	Т	P	С
5	CE563	Climate Change and Adaptation		3	0	0	3
5	CE564	Instruments for Environmental Engineering		3	0	0	3
5	CE565	Earth Sciences		3	0	0	3
5	CE566	Environmental Economics		3	0	0	3
5	CE567	Environmental Statistics		3	0	0	3
5	CE568	Environmental Toxicology		3	0	0	3
5	CE569	Environmental Biotechnology		3	0	0	3
5	CE570	Environment and Energy Management		3	0	0	3
5	CE571	Advanced Wastewater Engineering		3	0	0	3
5	CE572	Occupational health and Industrial Safety		3	0	0	3
5	CE573	Ecosystem Health and Eco-restoration		3	0	0	
5	CE574	Renewable Energy Resources		3	0	0	
ROGRAMME	ELECTIVES	TO BE OPTED ONLY BY THE DE	DADTMENT CTURRY				

23,5,2019

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING OPEN ELECTIVES (OE)* OFFERED FOR LEVEL 5-6

OE/LEVEL	Code no.	Name of the OE subjects	Prerequisites Subjects with code	L	Т	P	С
5	CE575	Environmental and Natural Resource Management		3	0	0	3
5		Environmental Science and Management		3	0	0	3
5	CE577	Industrial Pollution Control		3	0	0	3
5	CE578	Waste Management		3	0	0	3

^{*} OPEN ELECTIVES TO BE OPTED ONLY BY OTHER DEPARTMENT STUDENTS

Agosos 23.5,2019