Faculty Allocation Plan for Department of Machine Learning - Spring 2023

MS - AI

				Credit Hours	
\rightarrow	S/no	Course Code	Courses	CHs	Dept
	1	COMP-844	Advanced Machine Learning	3	
	2	COMP-849	Computational intelligence and IoT	3	
lacktriangle	3	COMP-845	Advanced Deep learning	3	
	4	COMP-941	AI for Biomedical Engineering	3	
es	5	COMP-840	Statistical and Mathematical Methods for Data Analysis	3	
E	8	COMP-833	Advanced Big Data Analytics	3	
S	9	COMP-831	Tools and Techniques for Data Science	2	
	10	COMP-830	Tools and Techniques for Data Science Lab	1	
Т	otal Credit	Hrs			

Department of Bio Medical Sciences

	Master of Sc				
	Batch Fall - :	2022	SEMESTER No 1 & 2	Credit Hours	
	S/no	Course Code	Courses	CHs	
	1	BTY-878	Bioentrepreneurship	3	
_	2	BMS-866	Health Informatics	3	
1st & 2	3	BMS-877	Elective III (Drug Induced Bio Signaling)	3	
2nd S	4	BTY-827	Elective IV (Advances in Protein Technology)	3	
em					
Semester					
er			Total Credit Hrs	12	

Master of Science in Biotechnology					
Batch Fall -	2022	SEMESTER No 1 & 2	Credit Hours		
S/no	Course Code	Courses	CHs		
1	BTY-878	Bio-entrepreneurship	3		
2	BTY-828	Advances in Genetic Engineering	3		
3	BTY-827	Elective III (Advances in Protein Technology)	3		
4	BMS-877	Elective IV (Drug Induced Bio Signaling)	3		
		Total Credit Hrs	12		

Department of Information Technology and Computer Science

MS in Data Science				
MS(DS)-F21/S22		SEMESTER NO 3/2/1	Credit Hours	
S/no	Course Code	Courses	Teaching	
		Satistical and Mathematical Methods for		
	1	Data Analysis	3	3
	2	Advanced big data analytics	3	3
	3	Tools and Tehniques of Data Science	2	2
Total Credit Hrs				

Department of Mineral Processing Engineering

2	MS - Department of Min	eral Processing Engineering		
2nd	Fall 2022		SEMESTER NO 1	Credit
	S/no	Course Code	Courses	CHs
2	1		Mineral Processing Engineering	
and	2		Extractive Metallurgy	
	3		Research Methodology	
4th	4			
	5			
∞	6			
en	7			
ne	8			
Semeste	9			
e	Total Credit Hrs			

Department of Mining Engineering

	MS - Department of Min	ing Engineering		
N	Fall 2022		SEMESTER NO 1	Credit
2nd	S/no	Course Code	Courses	CHs
	1			
and	2			
4	3			
4th	4			
\mathbf{x}	5			
Semester	6			
E	7			
te	8			
•	9			
	Total Credit Hrs			

Department of Mechanical and Manufacturing Engineering

•			3 3	<u> </u>	
		Course Code	Course Name	Credit Hours	Departme
					n
	1	MME841	Advanced Mechanical Design	3	
	2	MME 842	Introduction to Micro-Nanofabrication Techno	3	
	3	MME 862	Mechatronic System Design	3	
	4	MME 861	Robotics Technology and Applications	3	
	5	MME 821	Design Optimization and Analysis Techniques	3	
	6				
	7		Thermodynamics	3	

Department of Materials Science and Engineering

Batch 202	2F, 2023S	SEMESTER NO 1,2	Credit
S/no	Course Code	Courses	CHs
	1 MSE-821	Advanced Materials Characterization	3
	2 MSE-812	Phase Transformation & Microstructures	3
	3	Research Methodology (for 2023 intake)	2
	4 MSE-861	Corrosion and Surface Protection	3
Total Cre	dits	<u>.</u>	11

Department of Transportation and Railway Systems Engineering

MS in Railway Systems Engineering				
Spring 20	023	SEMESTER NO 1	Credit Hours	
S/no	Course Code	Courses	CHs	Program
	1 RSE-801	Introduction to Railway Systems	3	
	2 RSE-802	Train Operations and Safety Regime	3	
	3 RSE-811	Railway Infrastrcutre	3	
	4 RSE-821	Rolling Stock Dynamics	3	
	5 SS-821	Research Methodology	2	
Total Cr	edit Hrs			

12	9				
ğ	Spring 2023		SEMESTER NO 1	Credit Hours	
	S/no	Course Code	Courses	CHs	Program
Se			Urban and Sub Urban Transportation -		
H	1	TSE-802	Concepts, Strategy & Organization	3	
e	2	TSE-814	Pavement Design & Analysis	3	
Š	3	TSE-847	ITS	3	
Œ	Total Credit H	rs		9	

	Course Code	Course Name	Core/Elective	CHs
1	ECE-836	Advanced Computer Netowrks	Elective	3
2	ECE-865	Developing Industrial Internet of Things	Core	3
3	ECE-863	Advanced FPGA-based System Design	Core	3
4	SS-821	Research Methodology	Mandatory	2
5	ECE-898	MS Research Work		3
6	ECE-899	MS Thesis		3

MS Energy and Power Systems

	Course Code	Course Name	Core/Elective	CHs
1	ECE-821	Advanced Power System Transmission and Distribution	Core	3
2	ECE-823	Advanced Power System Operation and Control	Core	3
3	COMP-844	Advanced Machine Learning	Elective	3
4	COMP-845	Advanced Deep Learning	Elective	3
5	SS-821	Research Methodology	Mandatory	2
6	ECE-898	MS Research Work		3
7	ECE-899	MS Thesis		3