EngineersHub Windows 8 Mobile Application

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Andhra Pradesh Act No.30 of 2008) Kukatpally, Hyderabad – 500 085, Andhra Pradesh (India)

B.TECH. MINING ENGINEERING

IYEAR

Code	Subject	L	T/P/D	Credits
	English	2	-	4
	Mathematics – I	3	1	6
	Engineering Mechanics	3	-	6
	Engineering Physics	3	-	6
	Engineering Chemistry	3	-	6
	Computer Programming	3	-	6
	Engineering Drawing	2	3	6
	Computer Programming Lab.	7	3	4
	Engineering Physics & Engineering Chemistry Lab	- 0	3	4
	English Language Communication Skills Lab.		3	4
	Engineering Workshop / IT Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

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IESTER		11	1/0	
Code	Subject	1	T/P/D	С
	Environmental Studies	4	-	4
	Probability and Statistics	4	-	4
	Elements of Electrical and Electronics	4	-	4
	Engineering			
	Mechanical Technology	4	-	4
	Fundamentals of Geology	4	-	4
	Development of Mineral Deposits	4	-	4
	Electrical and Electronics Engineering Lab	-	3	2
	Geology Lab	-	3	2
	Total	24	6	28

II YEAR II SEMESTER

Code	Subject	L	T/P/D	С
	Mathematics-II	4	-	4
	Mechanics of Fluids and Hydraulic Machines	4	-	4
	Machine Drawing and Computer Aided Graphics	-	6	4
	Mechanics of Solids	4	-	4
	Mining Geology	4	-	4
	Drilling and Blasting	4	-	4
	Mechanics of Fluids and Hydraulic Machines Lab	-	3	2
	Mechanics of Solids Lab	-	3	2
	Total	20	12	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	С
	Managerial Economics and Financial Analysis	4	-	4
	Mine Surveying-I	4	-	4
	Mine Environmental Engineering-I	4	-	4
	Surface Mining Technology	4	-	4
	Underground Coal Mining Technology	4	-	4
	Mine Mechanisation-I	4	-	4
	Mine Surveying-I Lab	-	3	2
	Mine Environmental Engineering Lab	-	3	2
	Total	24	6	28

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III YEAR II SEMESTER

Code	Subject	L	T/P/D	С
	Industrial Management	4	-	4
	Mine Surveying-II	4	-	4
	Underground Metal Mining Technology	4	-	4
	Mine Environmental Engineering-II	4	-	4
	Mine Mechanisation-II	4	-	4
	Open Elective	4	-	4
	Human Values and Professional Ethics			
	Intellectual Property Rights			
	Disaster Management			
	Mine Surveying –II Lab	-	3	2
	Advanced Communication Skills Lab	-	3	2
	Total	24	6	28

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	С
	Mineral Processing	4	-	4
	Rock Mechanics	4	-	4
	Operations Research	4	-	4
	Mine Legislation	4	-	4
	Elective-I	4	-	4
	Rock Slope Engineering			
	Mine Subsidence Engineering			
	Rock Excavation Engineering			
	Rock Fragmentation Engineering			
	Mine Economics	4 4		
	Elective-II	4	-	4
	Computer Applications in Mining			
	Mine Construction Engineering			
	Tunneling Engineering			
	Strata Control Technology			
	Mineral Processing Lab	-	3	2
	Rock Mechanics Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

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Code	Subject	L	T/P/D	С
	Mine Ground Control	4	-	4
	Elective-III	4	-	4
	Planning of Surface Mining Project			
	Planning of Underground Coal Mining Project			
	Planning of Underground Metal Mining Project			
	Mine Electrical Engineering			
	Elective-IV	4	-	4
	Geological & Technological factors of Coal			
	Gasification CBM, Shale Gab			
	Mine Health & Safety Engineering			
	Maintenance & Reliability Engineering			
	Deep Seam Mining			
	Industrial Training	-	-	2
	Seminar	-	6	2
	Project work	-	15	10
	Comprehensive Viva	-	-	2
	Total	12	21	28

Note: All End Examinations (Theory and Practical) are of three hours duration.

T-Tutorial L – Theory P – Practical/Drawing C – Credits