



JHARKHAND Rai University

UGC RECOGNISED UNIVERSITY

ACCREDITED BY NAAC

Choice Based credit system

Diploma in Electrical Engineering Course scheme (2019-2022)

SEMESTER I

S. No	CODE	SUBJECT	Periods			Evaluation Scheme				Subject	Credit	Hour
			L	T	P	Assign.	TA	Total	ESE	Total		
1	9D.103	Basic Mathematics I	3	0	0	20	10	30	70	100	3	3
2	9D.106	Basic Physics I	3	0	0	20	10	30	70	100	3	3
3	9D.104	Basic Chemistry	3	0	0	20	10	30	70	100	3	3
4	9D.102	Computer fundamental	2	0	0	20	10	30	70	100	2	2
5	40D.101	Life Skills I	2	0	0	20	10	30	70	100	2	2

PRACTICAL/ DESIGN/DRAWING

1	9DP.106	Basic Physics Lab	0	0	2		30	30	20	50	1	2
2	9DP.104	Basic Chemistry Lab	0	0	2		30	30	20	50	1	2
3	9DP.107	Workshop Practice I	0	0	4		30	30	20	50	2	4
4	9DP.102	Computer fundamental Lab	0	0	2		30	30	20	50	1	2
5	9DP.105	Basic Engineering Graphics	0	0	4		30	30	20	50	2	4
Total										750	20	27

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SEMESTER II

S. No	CODE	SUBJECT	Periods			Evaluation Scheme				Subject	Credit	Hour
			L	T	P	Assign.	TA	Total	ESE	Total		
1	9D.154	Basic Mathematics II	3	0	0	20	10	30	70	100	3	3
2	9D.151	Basic Physics II	3	0	0	20	10	30	70	100	3	3
3	9D.152	Environmental Studies	3	0	0	20	10	30	70	100	3	3
4	9D.153	Engineering Mechanics	3	0	0	20	10	30	70	100	3	3
5	9D.155	Basic Electrical & Electronics Engineering	3	0	0	20	10	30	70	100	3	3
6	40D.151	Life Skills II	2	0	0	20	10	30	70	100	2	2
PRACTICAL/ DESIGN/DRAWING												
1	9DP.151	Basic Physics II Lab	0	0	2		30	30	20	50	1	2
2	9DP.153	Engineering Mechanics Lab	0	0	2		30	30	20	50	1	2
3	9DP.155	Basic Electrical & Electronics Engineering Lab	0	0	2		30	30	20	50	1	2
4	9DP.156	Workshop Practice II	0	0	4		30	30	20	50	2	2
Total										800	22	25

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SEMESTER III

S. No	CODE	SUBJECT	Periods			Evaluation Scheme				Subject Total	Credit	Hour
			L	T	P	Assign.	TA	Total	ESE			
			1	3D.205	Object Oriented Programming	2	0	0	20	10	30	70
2	6D.201	Electrical Power Generation	3	0	0	20	10	30	70	100	3	3
3	6D.202	Digital Electronics	3	0	0	20	10	30	70	100	3	3
4	6D.203	Electrical Circuit & Network	3	0	0	20	10	30	70	100	3	3
5	6D.205	Electronic Devices & Circuits I	2	0	0	20	10	30	70	100	2	2
6	9D.204	Applied Mathematics	3	0	0	20	10	30	70	100	3	3
7	40D.201	Communication & Soft Skills	2	0	0	20	10	30	70	100	2	2
8	14D.201	** Disaster Management	3	0	0	20	10	30	70	100	0	3
9	40D.101	*** Life Skills I	2	0	0	20	10	30	70	100	0	2
PRACTICAL/ SESSIONAL												
1	3DP.205	Object Oriented Programming Lab	0	0	2		30	30	20	50	1	2
2	6DP.202	Digital Electronics Lab	0	0	2		30	30	20	50	1	2
3	6DP.205	Electronic Devices & Circuits I Lab	0	0	2		30	30	20	50	1	2
Total										850	21	29

**** NOTE: Qualifying Non Credit Course**

***** NOTE: For Lateral students (Qualifying Non Credit Course)**

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SEMESTER IV

S. No	CODE	SUBJECT	Periods			Evaluation Scheme				Subject	Credit	Hour
			L	T	P	Assign.	TA	Total	ESE	Total		
1	6D.251	Transmission & Distribution of Electric Power	3	0	0	20	10	30	70	100	3	3
2	6D.252	Applied Electronics	3	0	0	20	10	30	70	100	3	3
3	6AD.257	Instrumentation & Measurement	3	0	0	20	10	30	70	100	3	3
4	6D.254	DC Machine & Transformer	3	0	0	20	10	30	70	100	3	3
5	6D.255	Electronic Devices & Circuit II	3	0	0	20	10	30	70	100	3	3
6	6D.256	Microprocessor and Interfacing	2	0	0	20	10	30	70	100	2	2
7	40D.251	Professional Skills	2	0	0	20	10	30	70	100	2	2
8	40D.151	***Life Skills II	2	0	0	20	10	30	70	100	0	2
PRACTICAL/SESSIONAL												
1	6DP.254	DC Machine & Transformer Lab	0	0	2		30	30	20	50	1	2
2	6DP.255	Electronic Devices & Circuit II Lab	0	0	2		30	30	20	50	1	2
3	6DP.256	Microprocessor and Interfacing Lab	0	0	2		30	30	20	50	1	2
Total										850	22	27

*** NOTE: For Lateral students (Qualifying Non Credit Course)

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SEMESTER V

S. No	CODE	SUBJECT	Periods			Evaluation Scheme				Subject	Credit	Hour
			L	T	P	Assign.	TA	Total	ESE	Total		
1	6D.301	Switch Gear and Protection	3	0	0	20	10	30	70	100	3	3
2	6D.302	AC Machine	3	0	0	20	10	30	70	100	3	3
3	6AD.307	Power Electronics	3	0	0	20	10	30	70	100	3	3
4	6D.304	Extra High Voltage Transmission	3	0	0	20	10	30	70	100	3	3
5	6AD.308	Embedded system	2	0	0	20	10	30	70	100	2	2
6	40D.401	***Seminar in Executive Communication	2	0	0	20	10	30	20	50	0	2
PRACTICAL/SESSIONAL												
1	6DP.302	AC Machine Lab	0	0	2		30	30	20	50	1	2
2	6ADP.307	Power Electronics Lab	0	0	2		30	30	20	50	1	2
Total										600	16	20

*** NOTE: Qualifying Non Credit Course & only Viva voce is conducted

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SEMESTER VI

S. No	CODE	SUBJECT	Periods			Evaluation Scheme				Subject	Credit	Hour
			L	T	P	Assign.	TA	Total	ESE	Total		
1	6AD.354	Electrical Installation	3	0	0	20	10	30	70	100	3	3
2	6AD.353	Electrical Drives	3	0	0	20	10	30	70	100	3	3
3	6AD.355	Control Engineering	3	0	0	20	10	30	70	100	3	3
4	7D.351	Principle of Management	3	0	0	20	10	30	70	100	3	3
5	40D.451	***Human Values & Ethics	2	0	0	20	10	30	70	100	0	2
PRACTICAL/SESSIONAL												
1	6D.395	Project	0	0	10		100	100	50	150	5	5
2	6ADP.355	Control Engineering Lab	0	0	2		30	30	20	50	1	2
3	6ADP.353	Electrical Drives Lab	0	0	2		30	30	20	50	1	2
Total										650	19	23
Total of All Semester										4500	120	

*** NOTE: Qualifying Non Credit Course