



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer Term 2018

Course : Basic Electrical

Faculty : hsdalvi - Mr. Harshit S. Dalvi

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction to Subject	02/05/2018	BEEL106	A
1	2	D.C Circuit elements (Voltage, current, Resistance).	02/05/2018	BEEL106	A
1	3	Voltage source, current source (definition & characteristics), Electric Power	03/05/2018	BEEL106	A
1	4	Series – parallel connection , Star-delta transformation	03/05/2018	BEEL106	A
1	5	Star-delta transformation & Series – parallel numerical	05/05/2018	BEEL106	A
1	6	Kirchhoff's Laws, Superposition Theorem	05/05/2018	BEEL106	A
1	7	Numericals	08/05/2018	BEEL106	A
1	8	Magnetic Circuit, flux, reluctance, Analogy with electric circuit series, parallel	08/05/2018	BEEL106	A
1	9	TAE-I	09/05/2018	BEEL106	A
1	10	Kirchhoff's Laws for Magnetic Circuit, Numericals on Series parallel ckt.	09/05/2018	BEEL106	A
1	11	Superposition theorem & series parallel magnetic ckt numerical	10/05/2018	BEEL106	A
2	12	A.C. circuit, Periodic functions, RMS value, Avg. value, Definitions	10/05/2018	BEEL106	A
2	13	Introduction to Inductor, Capacitor with derivations (Relation between voltage and current)	12/05/2018	BEEL106	A
2	14	Problems on A.C. ckt	12/05/2018	BEEL106	A
2	15	Impedance in series-parallel, Numericals	15/05/2018	BEEL106	A
2	16	Phasor representation for different circuits	15/05/2018	BEEL106	A
2	17	Numericals	16/05/2018	BEEL106	A
2	18	Principle OF generation of 3-phase, star-delta	16/05/2018	BEEL106	A
2	19	impedance series parallel numerical	17/05/2018	BEEL106	A



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2	20	3-phase voltage, Power in balanced in 3-phase ckt., TAE-II	17/05/2018	BEEL106	A
2	21	Power in balanced in 3-phase ckt numerical	19/05/2018	BEEL106	A
3	22	Electric measurement – ammeter & voltmeter, Electro dynamometer type wattmeter	19/05/2018	BEEL106	A
3	23	Electro dynamometer type wattmeter	22/05/2018	BEEL106	A
3	24	Induction type 1-phase wattmeter, Ext. of range	22/05/2018	BEEL106	A
3	25	TAE-III	23/05/2018	BEEL106	A
3	26	Ext. of range numerical	23/05/2018	BEEL106	A
4	27	Basic Principle of 1 phase transformer, Types, emf Equation	24/05/2018	BEEL106	A
4	28	Ideal transformer, on –load transformer,	24/05/2018	BEEL106	A
4	29	Phasor dia. of transformer on load (unity, leading, lagging power factor)	26/05/2018	BEEL106	A
4	30	Equivalent ckt. of transformer, Numericals	26/05/2018	BEEL106	A
4	31	Problems on transformer	29/05/2018	BEEL106	A
4	32	Losses in transformer, Efficiency, regulation, Numericals	29/05/2018	BEEL106	A
4	33	on losses, efficiency & regulation of transformer	30/05/2018	BEEL106	A
4	34	OC/SC tests and numericals	30/05/2018	BEEL106	A
4	35	TAE-IV	31/05/2018	BEEL106	A
4	36	Problems on OC/SC tests	31/05/2018	BEEL106	A
5	37	D.C. machines-Introduction, construction	02/06/2018	BEEL106	A
5	38	EMF & torque equation for generator and motor resp.	05/06/2018	BEEL106	A
5	39	Classification of D.C. Motor, generator with numericals	05/06/2018	BEEL106	A



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5	40	EMF & torque equation & numerical for generator and motor	06/06/2018	BEEL106	A
5	41	EMF, Voltage, Current relations in generator, motor	06/06/2018	BEEL106	A
5	42	Characteristics of D.C. Motor	07/06/2018	BEEL106	A
5	43	Starting & speed control of D.C. motor with numericals	07/06/2018	BEEL106	A
5	44	Problems on D.C. shunt motor motor	09/06/2018	BEEL106	A
6	45	DC series Motor, characteristics , Back emf, revision	09/06/2018	BEEL106	A