

# **DR. B. N. CHANDRA** **COLLEGE OF ENGINEERING**

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department:

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: Microwave & Radar Engineering ( EE-302-F)

Name of Faculty with designation : Chandra Shekhar Singh ( Associate Prof.)

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
January	08.01.2018 Monday	VI ECE	A	Introduction of Waveguide & comparison with transmission lines	.....	Assignment of 02 Ques. given
January	10.01.2018 Wednesday	VI ECE	A	TE & TM modes in waveguide and its characteristics		Assignment of 02 Ques. given
January	11.01.2018 Thursday	VI ECE	A	Construction, Working and characteristics of Rectangular waveguide		Assignment of 02 Ques. given
January	15.01.2018 Monday	VI ECE	A	TEM mode in rectangular wave guide, Characteristics Impedance		Assignment of 02 Ques. given
January	17.01.2018 Wednesday	VI ECE	A	Introduction to circular waveguides and planar transmission lines.		Assignment of 02 Ques. given
January	18.01.2018 Thursday	VI ECE	A	Various modes in circular waveguide		Assignment of 02 Ques. given
January	24.01.2018 Wednesday	VI ECE	B	Characteristics & working of Directional couplers, Tees		Assignment of 02 Ques. given
January	25.01.2018 Thursday	VI ECE	B	S parameter of hybrid ring, Tees and coupler,		Assignment of 02 Ques. given
February	01.02.2018 Thursday	VI ECE	B	attenuators, cavity resonators ,mixers & detectors		Assignment of 02 Ques. given

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February	05.02.2018 Monday	VI ECE	B	Working of Ferrite Devices-Isolators & circulators		Assignment of 02 Ques. given
February	07.02.2018 Wednesday	VI ECE	B	Construction, operation and properties of Klystron amplifier, reflex Klystron,		Assignment of 02 Ques. given
February	08.02.2018 Thursday	VI ECE	B	magnetron, TWT , BWO , crossed field amplifiers.		Assignment of 02 Ques. given
February	19.02.2018 Monday	VI ECE	A&B	Discussion of Sessional Question paper & important questions		
February	21.02.2018 Wednesday	VI ECE	A&B	Revision of section A & B		
February	22.02.2018 Thursday	VI ECE	C	Varactor diode, Tunnel Diode		Assignment of 02 Ques. given
February	26.02.2018 Monday	VI ECE	C	Schottky diode, GUNN diode		Assignment of 02 Ques. given
February	28.02.2018 Wednesday	VI ECE	C	IMPATT, TRAPATT and PIN diodes		Assignment of 02 Ques. given
March	05.03.2018 Monday	VI ECE	C	MASER, parametric amplifiers		Assignment of 02 Ques. given
March	07.03.2018 Wednesday	VI ECE	C	Power measurement using calorimeter		Assignment of 02 Ques. given
March	08.03.2018 Thursday	VI ECE	C	bolometers measurement of SWR, frequency , wavelength and impedance		Assignment of 02 Ques. given
March	12.03.2018 Monday	VI ECE	C	Revision of section C		
March	14.03.2018 Wednesday	VI ECE	D	Microwave bridges.		Assignment of 02 Ques. given

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March	15.03.2018 Thursday	VI ECE	D	Block diagram of RADAR		Assignment of 02 Ques. given
March	26.03.2018 Monday	VI ECE	D	operation, RADAR types,RADAR equation		Assignment of 02 Ques. given
March	28.03.2018 Wednesday	VI ECE	D	Range prediction in RADAR		Assignment of 02 Ques. given
April	02.04.2018 Monday	VI ECE	D	Pulse Repetition frequency and Range Ambiguities,		Assignment of 02 Ques. given
April	04.04.2018 Wednesday	VI ECE	D	Doppler effect in RADAR		Assignment of 02 Ques. given
April	05.04.2018 Thursday	VI ECE	D	Applications of RADAR		Assignment of 02 Ques. given
April	09.04.2018 Monday	VI ECE	D	Revision of section D		
April	11.04.2018 Wednesday	VI ECE	A & B	Revision of section A & B		
April	12.04.2018 Thursday	VI ECE	C&D	Revision of section C & D		