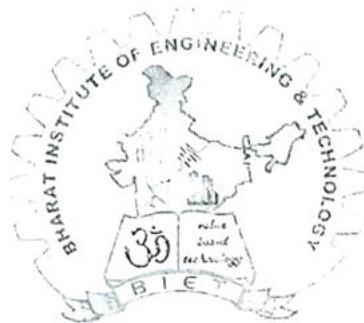


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

SIVARAM VIHAR, GHATAKESWAR HILLS
MOHADA, BERHAMPUR (GM.)



STUDENT'S ATTENDANCE REGISTER

Time	9:05	9:55	02:45		
Day	9:05	10:45	08:35		
TUE		✓			
THU	✓				
SAT	✓		✓		

Year/ Session	3rd year , 2021-22
Semester & Branch	5 th Semester , ETC Branch .
Subject with Code	TH-4, CNP 2 IBC
Name of the Faculty Member	Er. Suchimita Goud.

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
- : <u>UNIT-01</u> :-			
-: <u>WAVE PROPAGATION & ANTENNA</u> :			
1.1 Effects of environments such as reflection, refraction, interference, diffraction, absorption and attenuation (definition only).	10/19/22	<u>Hanif</u>	
1.2 Classification based on modes of propagation - Ground wave, Ionosphere, Sky wave propagation, Space wave propagation.	20/19/22 21/19/22	<u>Hanif</u>	<u>Kamal</u>
1.3 Definition - Critical frequency, max. useable frequency, Skip distance, fading. Mult propagation & Troposphere scatter propagation actual height and virtual height	22/19/22	<u>Hanif</u>	
1.4 Radiation mechanism of an antenna - Maxwell equation.	24/19/22	<u>Hanif</u>	<u>Mpachy</u> 12/19/22
		<u>Seen</u> <u>Iradayur</u>	12.9.22

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
1.5. Definition - Antenna gain, Directive gain, effective aperture, polarization, input impedance efficiency, radiator resistance, Bandwidth, Beam width, Radiation pattern.	24/9/22		
1.6 Antenna - types of antenna, Monopole and dipole antenna, and omni directional antenna	27/9/22		
1.7 Operation of following antenna with advantage & applications. (a) Directional high frequency antenna: yagi & rhombic only. (b) UHF & microwave antenna: Mish antenna (with parabolic reflector) & Horn antenna.	28/9/22 29/9/22 11/10/22	 	
1.8 Basic concepts of smart antenna! concept and benefits of smart antenna.	12/10/22		

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SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
- <u>UNIT 1-02 :-</u>			
- <u>TRANSMISSION LINES :-</u>			
1.1 Fundamentals of transmission line	13/10/22		
1.2 Equivalent circuit of transmission line & RF equivalent circuit.			
1.3 Characteristic impedance, methods of calculations & simple numerical.	15/10/22		
1.4 Losses in transmission line.	18/10/22		
1.5 Standing wave - SWR, VSWR, Reflection co-efficient, Simple numerical.	19/10/22 20/10/22		
1.6 Quarter wave & half wavelength line.	22/10/22		
1.7 Impedance matching & Stubs - Single & double.	25/10/22		
1.8 Primary & Secondary constant of transmission line.	26/10/22		
			12.9.22

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
- : UNIT 03 :-			
• TELEVISION ENGINEERING •			
3.1 Define - Aspect ratio, Rectangular switching, flicker, Horizontal resolution, video bandwidth, interlace of scanning, Composite video signal, Synchronization pulses.	22/10/22 23/10/22	Lokesh Harsh	
3.2 Tv transmitter - Block diagram & function of each block.	11/11/22	Harsh	Pradeep
3.3 Monochrome Tv receiver - Block diagram & function of each block.	21/11/22	Harsh	
3.4 Colour Tv signals (Luminance signal & chrominance signal (I,Q,U,V signals))	31/11/22	Harsh	

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SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
3.5 Types of television by technology. cathode-ray tube TVs, plasma display panels, Digital Light processing (MLP), Liquid crystal display (LCD), organic light - Emitting Diode (OLED) display. Quantum Light-Emitting Diode (QLED) - Only combination based on application.	5/11/22 9/11/22	Hoof Hoof	
3.6 Minimise the principle of operation LCD display, Large screen display.	10/11/22	Hoof	K. Prashanth
3.7 CATV system & types & networks.	12/11/22	Hoof	
3.8 Digital TV technology - display TV signals, Transmission of digital TV receiver video programme processor unit.	15/11/22 16/11/22	Hoof Hoof	M. Padmaja 12/11/22

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
- <u>UNIT-04:-</u>			
4.1 Define microwave wave guides.	21/11/22	<u>Hanif</u>	
4.2 Operation of rectangular wave guide and its advantage.	21/11/22	<u>Hanif</u>	
4.3 Propagation of EM wave through wave guide with TE & TM modes.	22/11/22 23/11/22	<u>Hanif</u>	
4.4 Circular wave guide.	24/11/22	<u>Hanif</u>	
4.5 Operational cavity resonators.	26/11/22	<u>Hanif</u>	<u>Prashant</u>
4.6 Working of Directional coupler, Klystron & circulator.	29/11/22 30/11/22	<u>Hanif</u>	
4.7 Microwave tubes - Principle of operation of two cavity klystron.	1/12/22	<u>Hanif</u>	
4.8 Principle of operation of travelling wave tubes.	3/12/22	<u>Hanif</u>	
4.9 Principle of operation of cyclotron.	6/12/22	<u>Hanif</u>	
4.10 Principle of operation of Tunnel diode & Gunn diode.	7/12/22 8/12/22	<u>Hanif</u>	

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SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
- UNIT - 05 :-			
BROADBAND COMMUNICATION :-			
5.1 Broadband communication system - fundamental of components and Network architecture .	10/12/22 13/12/22	Hanif	
5.2 Cable broadband data network architecture, importance & future of broadband telecommunication internet based network .	14/12/22 15/12/22	Hanif	
5.3 SONET (Synchronous Optical Network) Signal frame components topologies advantages applications and disadvantages .	18/12/22 20/12/22	Hanif	Pradeep
5.4 ISMN - ISMN service interfaces, Services , Architecture applications .	21/12/22	Hanif	
5.5 BISMN - Interface & terminals, protocol architecture applications .	22/12/22	Hanif	
	16/11/22	Seen	
	12.9.22	Pradeep	
			Upashay 21/12/22