



शैक्षिक संचार संकाय

डॉ. सुनील मेहरू
संयुक्त निदेशक सॉफ्टवेयर

Dr. Sunil Mehru
Joint Director, Software

शैक्षिक संचार संकाय Consortium for Educational Communication

(An Inter University Centre of University Grants Commission on Electronic Media)

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CEC/Gurukul/Certi./2021

13-12-2021

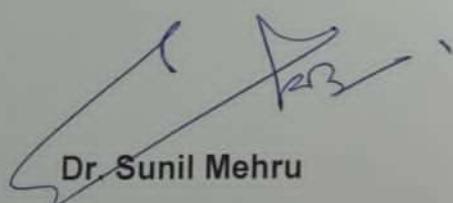
TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Dr. Sonia**, Associate Professor in Physics, J C Bose University of Science and Technology, YMCA, Faridabad delivered modules (live lectures) on CEC, Gurukul (EDUSAT) network through VYAS Channel at Consortium for Educational Communication.

CEC, as the Inter-University Centre (IUC) of UGC, plays a vital role in interactive live transmissions to benefit millions of learners. CEC Gurukul Live Transmissions feature educational video lectures from eminent academics Pan India. These transmissions are subsequently uploaded on YouTube to provide global access for anywhere and anytime learning.

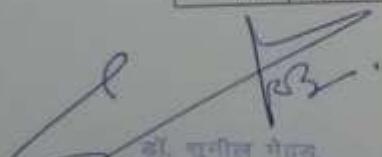
On behalf of the entire CEC family, I would like to express my appreciation for **Dr. Sonia** for her valuable contribution to enrich CEC's digital educational content repository. We wish her success in her future endeavors.

The Details of the Lecture are enclosed.

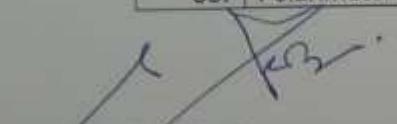


Dr. Sunil Mehru

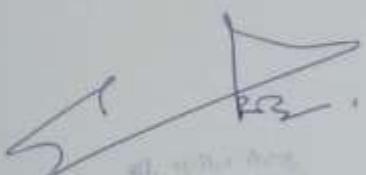
S.N.	Title of module (e-learning material)	Dates
1.	Interference of Light	11 th July 2016
2.	Laser	15 th March 2017
3.	Interference-II	22 nd March 2017
4.	Quantum Nature of Light	12 th April 2017
5.	Basics of Quantum Mechanics	5 th May 2017
6.	Special Theory of Relativity	7 th July 2017
7.	Polarization	14 th July 2017
8.	Diffraction	4 th August 2017
9.	Basics of Quantum Mechanics - I	22 nd August 2017
10.	Quantum Mechanics - II	8 th Sept. 2017
11.	Free Electron Theory	22 nd Sept. 2017
12.	Magnetic Properties of Solid	6 th Oct. 2017
13.	Magnetic Properties of Solid-II	10 th Nov. 2017
14.	Solid State Physics -I	28 th Nov. 2017
15.	Solid State Physics -II	8 th Dec. 2017
16.	Solid State Physics -III	2 nd Jan. 2018
17.	Solid State Physics -IV	5 th Jan. 2018
18.	Dielectrics	2 nd Feb. 2018
19.	Photoconductivity	1 st March 2018
20.	Photoconductivity -II	15 th March 2018
21.	Photoconductivity -III	23 rd April 2018
22.	Band Theory -I	27 th April 2018
23.	Band Theory -II	4 th May 2018
24.	Semiconductor Physics	11 th May 2018
25.	Superconductivity	22 nd May 2018
26.	Optical Fibre -I	4 th June 2018
27.	Optical Fibre -II	14 th June 2018
28.	Optical Fibre -III	21 st June 2018
29.	Laser Physics-I	2 nd July 2018
30.	Laser Physics-II	30 th July 2018
31.	Laser Physics-III	23 rd Aug. 2018
32.	Laser Physics-IV	29 th Aug. 2018
33.	Types of Laser-I	14 th Sept. 2018
34.	Types of Laser-II	28 th Sept. 2018
35.	Types of Laser-III	1 st Oct. 2018
36.	Non Linear Optics	12 th Oct. 2018
37.	Wave Motion	26 th Oct. 2018
38.	Oscillatory Motion	2 nd Nov. 2018
39.	Oscillatory Motion-II	16 th Nov. 2018
40.	Classical Mechanics-I	29 th Nov. 2018
41.	Classical Mechanics-II	7 th Dec. 2018
42.	Classical Mechanics-III	21 st Dec. 2018
43.	Thermodynamics	1 st Feb. 2019
44.	Nano Science and Nanotechnology	26 th Nov.2019


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45.	Nanomaterials Synthesis	20 th Dec. 2019
46.	Nanomaterials Synthesis-II	28 th Jan. 2020
47.	Nanomaterials Synthesis-III	28 th Jan. 2020
48.	Lithography Techniques - I	1 st March 2020
49.	Lithography Techniques - II	1 st March 2020
50.	Carbon Nano Family-I	4 th Sept. 2020
51.	Carbon Nano Family-II	4 th Sept. 2020
52.	Carbon Nano Family-III	10 th Sept. 2020
53.	Carbon Nano Family-IV	10 th Sept. 2020
54.	Characterization of Nanomaterials	21 st Sept. 2020
55.	Electron Microscopy	21 st Sept. 2020
56.	Characterization of Nanomaterials : Scanning Electronic Microscopy (SEM)-I	1 st Oct. 2020
57.	Characterization of Nanomaterials : Scanning Electronic Microscopy (SEM)-II	1 st Oct. 2020
58.	SEM & TEM -I	12 th Oct. 2020
59.	SEM & TEM -II	12 th Oct. 2020
60.	Scanning Probe Microscopy - STM	19 th Oct. 2020
61.	Scanning Tunneling Microscopy - I	19 th Oct. 2020
62.	STM-II	23 rd Oct. 2020
63.	STM-III	23 rd Oct. 2020
64.	Atomic Force Microscope - I	6 th Nov. 2020
65.	Atomic Force Microscope - II	6 th Nov. 2020
66.	X-Ray Diffraction - XRD - I	19 th Nov. 2020
67.	X-Ray Diffraction - XRD - II	19 th Nov. 2020
68.	X-Ray Diffraction - XRD - III	26 th Nov. 2020
69.	X-Ray Diffraction - XRD - IV	26 th Nov. 2020
70.	UV / Visible Spectroscopy - I	3 rd Dec. 2020
71.	UV / Visible Spectroscopy - II	3 rd Dec. 2020
72.	Infrared Spectroscopy - I	10 th Dec. 2020
73.	Infrared Spectroscopy - I	10 th Dec. 2020
74.	Raman Spectroscopy -I	7 th Jan 2021
75.	Raman Spectroscopy-II	7 th Jan 2021
76.	Newton's Ring Experiment - I	20 th Jan. 2021
77.	Newton's Ring Experiment - II	20 th Jan. 2021
78.	Fresnel Biprism Experiment - I	28 th Jan 2021
79.	Fresnel Biprism Experiment - II	28 th Jan 2021
80.	Michelson Interferometer Experiment	11 th Feb 2021
81.	Diffraction Grating Experiment	11 th Feb 2021
82.	Hall Effect-I	26 th March 2021
83.	Hall Effect-II	26 th March 2021
84.	To Study the Characteristics of Solar Cell - I	9 th July 2021
85.	To Study the Characteristics of Solar Cell - II	9 th July 2021
86.	Cauchy's Constant-I	9 th Aug. 2021
87.	Cauchy's Constant-II	9 th Aug. 2021
88.	Polarimeter-I	9 th Sept. 2021


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89.	Polarimeter-II	9 th Sept. 2021
90.	e/m Ratio Experiment - I	29 th Oct. 2021
91.	e/m Ratio Experiment - II	29 th Oct. 2021
92.	Simple Pendulum Experiment - I	25 th Nov. 2021
93.	Bar Pendulum Experiment - II	25 th Nov. 2021


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