

ETERNAL UNIVERSITY



Institution's Innovation Council

Activity Report

Hands-on Workshop on Optics and Modern Physics Experiments

1.	Academic year	:	2023-2024			
2.	Program driven by	:	Self-Driven Activity			
3.	Quarter	:	Quarter III			
4.	Program/Activity Name	:	Hands-on Workshop on Optics and Modern			
			Physics Experiments			
5.	Program type	:	Level-2: Workshop			
6.	Program Theme	:	Innovation & Design Thinking			
7.	Duration of the activity (in hrs)	:	16			
8.	Start Date	:	12-04-2024			
9.	End Date	:	14-04-2024			
10.	Number of Student Participants	:	59			
	(Minimum 50 Students)					
11.	Number of Faculty Participants	:	5			
12.	Number of External Participants, If	:	2			
	any					
13.	Expenditure Amount, If any	:	na			
14.	Remark	:				
15.	Mode of Session Delivery	:	Offline			
16.	Objective (100 letters)	:	To impart practical exposure to the students on innovative optics technologies			
17.	Benefit in terms of Learning/Skill/	:	The participants were able to deepen their			
1,,	Knowledge obtained (150 letters)	-	theoretical understanding and practical skills			
	22110 W 24 GO (100 14 14 14 15 17 17 17 17 17 17 17 17 17 17 17 17 17		about optics concepts			
18.	Video URL (EU YouTube channel)	:				
19.	Photographs (only 2)	:	Uploaded on IIC portal			
	(max size 2 MB)					
20.	Overall report of the activity (PDF,	:	Uploaded on IIC portal			
	max 2MB)					
21.	Promotion in Social Media	٠				
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Brief report

Department of Physics, Akal College of Basic Sciences, Eternal University, Baru Sahib in association with Laboratory Instrument Co. (Estd. 1961), Ambala has organized a Hands-on Workshop on "Optics and Modern Physics Experiments" during April 12-14, 2024.

The following techniques were demonstrated to the participants:

- Frank-Hertz Experiment: First Experimental verification of the existence of discrete energy states in atoms
- Milliken's Oil Drop Experiment: Experimental determination of the quantum nature of charge
- Optical Fibre: Measurement of Numerical Aperture and attenuation of optical fibre
- Diffraction Grating: Separate light of different wavelengths with high resolution
- Hall Effect: An important tool to characterize the materials especially semiconductors
- Michelson Interferometer: Evidence for the wave nature of light/Allow precise measurements of distances, wavelengths etc.

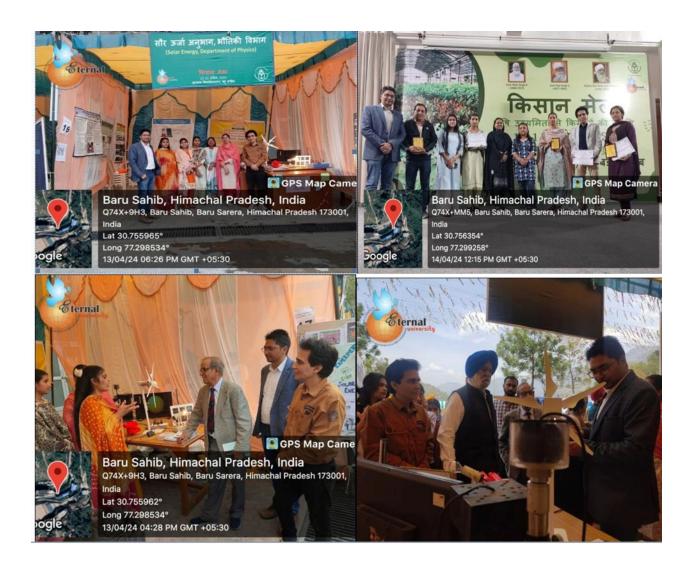
The workshop was designed to offer practical exposure to the students through hands-on experiments for exploring cutting edge innovative and breakthrough technologies along with nourishing the fundamental concepts in modern physics and optics. The participants were able to deepen their theoretical understanding and practical skills about optics concepts.















S.No. Name		Designation/ Regn No.	Department/College	Signature	
19 Shilpa Sharma		BS21PMB001	Microbiology ACBS	shirte	
20	Ambika chauhan	BC2 180400 1	Botany IACBS	Acharbar	
21	Shilippreet kow	B 531 PMB 002	Microbiology/ACCS	Day	
22	Pubal	BS21PBY003	Botany 1 ACBS	Rubal	
23	Khushi	BS21BEC003	bsc (tow)	\$	
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25	Anishka Sharma	BS 22 B A G1003	BS(. (NOW) Agri	Jun	
26	Janu	BS2388A 008	BBA	Cany	
27	Musban Mains	BS23 BPS4 OIS	B SC Esquiology	Operaino	
28	Ajmeet Kaur	BS23 BPSYOD1	B.Sc Psychology	+ ineckas	
27	Rity Vens	Q514PAE(00)	Ph.D Econics	Bity	
30	Jasleen Kaur	BS23PECDOI	PhD Economics	M.	
31	Roheela Forteen	PLD/DCHOOZ.	phb chemistry	the time	
39	Soni	ASC. Chem	M.S. Chem.	Sour	
33	Shweta Kuman	BS22MCHOU3	9	Sh-	
34	Ridhima Ihahir	BS23 MBM002	MRA (Buriagni)	Pd	
32	Kennagert Kaur	BS22BCS0/2	Btich (SE	promagett kan	
36	Cumprest town	BS22BCS009	B Tech CSE	Quepunte	
37	Risnik	BS21 BAGOOS	B. Sc. Peger	2 cm	
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39	Adheria Chauhan	BS23 BCM 001	B. Com	ATT	





Hands-on Workshop on Optics and Modern Physics Experiments (12-14 April, 2024)

ATTENDANCE SHEET

S.No.	Name	Designation/ Regn No.	Department/College	Signature
1	Ashima shavma	BS22BNM001	Akal College of Basicsain	A
2	Ayusla Khimta		Akal college basid	
_3.	Rajni Xathwin		Apal College Basic	tag-
ч,	Anshika Thakeur	2	Ahal College Buict	Anshila
5.	Nazia	BS23BN4003	Alcal College Besic	Nasia
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7.	Anchel Thakur		Akal College of "	Archel
8.	Priyo		Akal College feesier	Ø.
9.	Mahak Parmar	BS21BNM002		matrie
10.	Akuti auleun	BS21BNM004	Akal college of som	. Quena
11.	Tanish	Non Medical	AABS	Farmer
12.	Vanshiaj	11	PABS	+
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Name	Designation/ Regn No.	Department/College	Signature	
Tanisha Chavhaw	ES22BGHDDY	B. Com (How)	Toristy	
Kafika Thakur	BS21 BPS YOLY	BSC Psychology	Kovef	
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Tyoti sharma	BSZIBNMDOJ		Type -	
Divyanshi Pandit	BS21BMEDOG		duand of for	
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Divya Sabharwal	BS 2113PSY003	and the same of th	Dinya	
Jaspreet Kaur	BS 21BBA018	BBA	fairet	
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