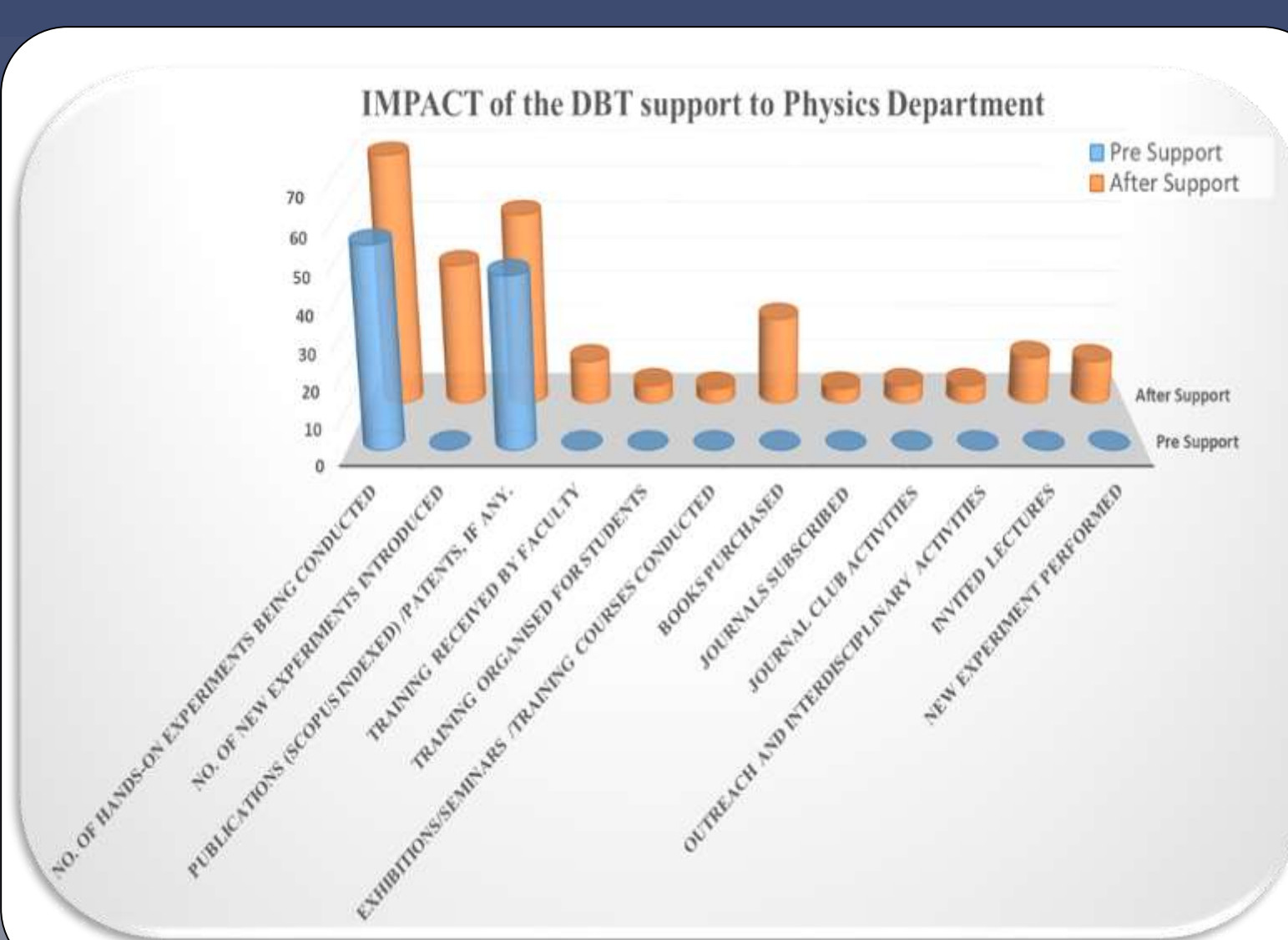
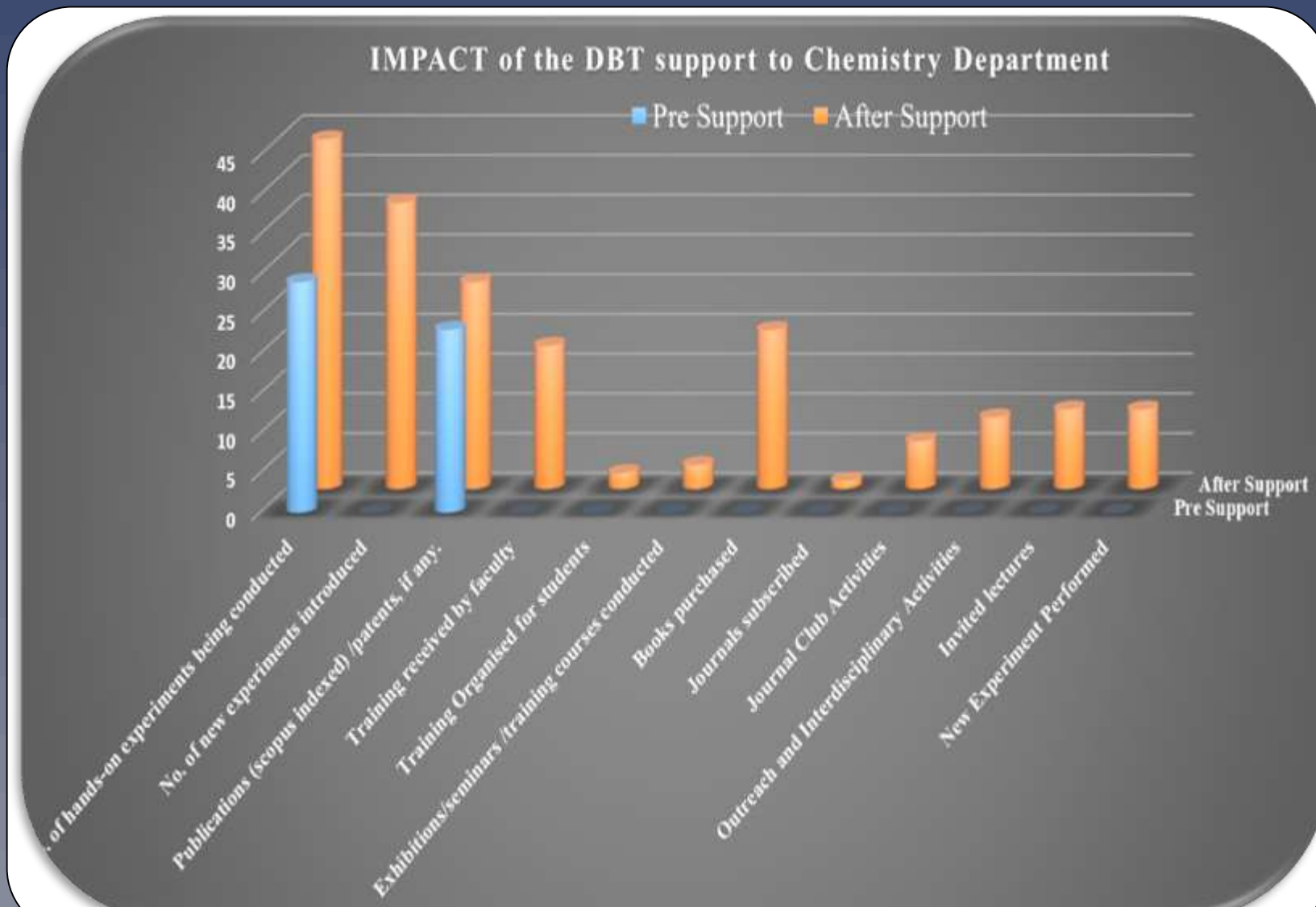
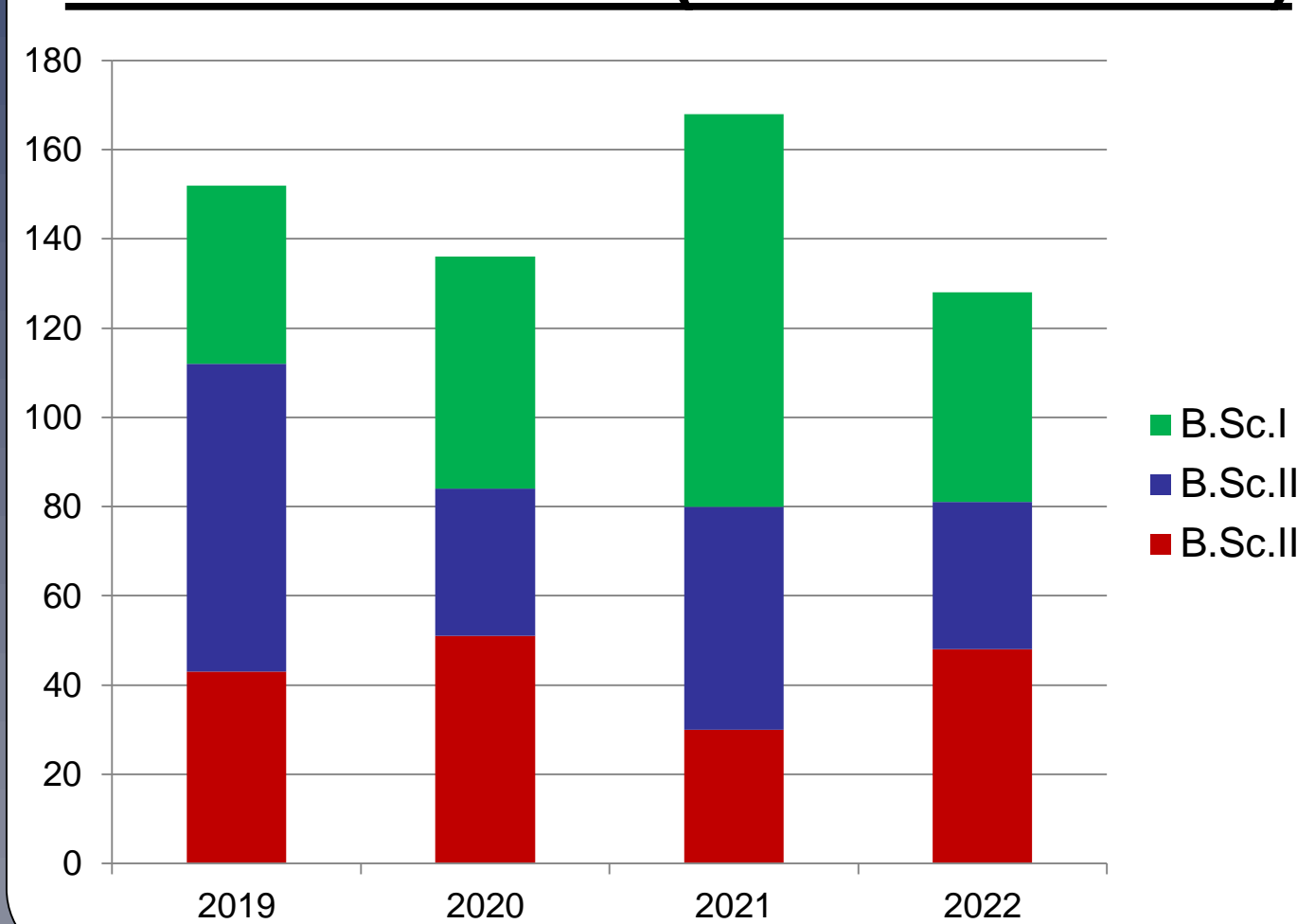


Participating Departments and Courses offered:

Name of Department	Courses offered	Regular Faculty Members
Chemistry	B.Sc. (Medical)	Total 5
	B.Sc. (Non-Medical)	Ph.D. (03)
	M.Sc.-Chemistry	Without Ph.D. (02)
		Dr. Parveen Bala Dr. Paramjeet Kaur Dr. Neha Jindal
		Without Ph.D. (02)
		Ms. Meetu S. Wadhwa (Pursuing) Mr. Aman Malhotra (Pursuing)
Physics	B.Sc. (Non-Medical)	Total 4
	B.Sc. (Non-Medical with Computer)	Ph.D. (03)
		Without Ph.D (01)
		Dr. Gurpreet Singh Dr. Kulwinder Singh Mann Dr. Vikas Duggal
		Without Ph.D (01)
		Ms. Harpreet Kaur Brar (Pursuing)



Students of B.Sc. (Med. & Non-Med.)



Visits to Research Institutes/Industries :

#	Name of the Research Institute/Industry	Date
1	HONEY BEE KEEPING: Visit to Maan Makhi Farm and Seminar (Beneficiaries: 60)	23/04/2022
2	Visit to Gavya Milk Specialties (Amul Milk Plant) (Beneficiaries: 40)	28/04/2022
3	Visit to Molecular Lab and Central Instrumental Laboratory, Central University of Punjab, Bathinda (Beneficiaries: 25)	20/09/2022
4	Visit to Pushpa Gurjal Science City, Kapurthla & Lecture on the Topic: "Environmental Education and Sustainable Development" (Beneficiaries: 270)	20/11/2022
5	Visit to Agriculture Research Station, of PAU at Jodhpur Romana, BATHINDA (Beneficiaries: 30)	29/03/2023



Bee-Keeping Training at Maan Makhi Farm



Visit to Milk Plant: Amul Milk



Visit to Agriculture Research Station, of PAU, BTI



Visit to PG Science City, Kapurthla



Visit to Molecular Lab and CIL, Central University of Punjab, Bathinda

Outreach Interdisciplinary Activities/Demonstrations:

#	Name of the Activity	Date
1	Sci- Fiesta Poster Competition, Model Making Competition and Demonstrations about Magical World of Science (Beneficiaries: 350)	11/11/2022
2	Inter College Poster & Slide Show Competition on "Scientific discoveries that changed Human Life" (Beneficiaries: 60)	04/03/2023
3	One-day Hands-on training on Physics experiments-cum demonstrations for Physics Lecturers (School Cadre) (Beneficiaries: 34)	12/12/2022



For neighboring Schools: Competitions on Poster Making, Model Making and Demonstrations about Magical World of Science



Seminars/Webinars/Journal's Club Activities/Training Programmes/Workshops:

#	Name of Activity	Resource Person
Invited Lectures		
1	Importance of Industrial Training for UG Science Students (13/04/2022) (Beneficiaries: 32)	Mr. JAI SINGH, Director of Edison Tech Centre & Mahar Power Control Pvt. Ltd. Dhuri, Sangrur
2	Applications of Physics in Medical Field (27/04/2022) (Beneficiaries: 85)	Dr. Rajiv Dhawan, Associate Professor, Department of Radiotherapy, Govt. Medical College, Amritsar
3	Invited Lecture and Poster Making Competition (19/09/2022) (Beneficiaries: 58)	Dr. Ajay Kumar, Deptt. Of Environment, Science & Technology, CUP Bathinda
4	Forensic Sciences plays a vital role in criminal cases and provides an unbiased scientific opinion on evidence Collected (04/03/2023) (Beneficiaries: 140)	Dr. Shweta, Department of Frnsic Science and Criminology, Punjab University, Chandigarh
Training Programmes / Workshops/Exhibitions		
1	Oscilloscopes: DSO Vs. CRO (17/05/2022) (Beneficiaries: 37)	Dr. Asha Rani, Assistant Professor, DEV Samaj College for Women, Ferozepur, Punjab
2	MS Excel for Practical based simulations (30/11/2022) (Beneficiaries: 31)	Dr. Vijay Bhat, Associate Professor, Institute of advanced computing, SAGE University, Indore, Madhya Pradesh.
3	SimPHY: A Physics Simulation Software (10/12/2022) (Beneficiaries: 20)	Mr. HITENDRA SINGH CMO, SimPHY Softwares Pvt. LTD. Gwalior, M.P. (India)
4	Lab staff has been trained in: Repair and Maintenance of the lab equipment. (02/12/2022) (Beneficiaries: All lab assistants)	Mr. Sukhvinder Singh, Coordinator, NIERT, Patiala, Punjab
5	Two day Workshop on "Electronics Projects" (02-03/12/2022) (Beneficiaries: 30)	Mr. Sukhvinder Singh, Coordinator, NIERT, Patiala, Punjab
6	Experiments and Demonstrations in Physics (18/04/2023) (Beneficiaries: 47)	Judges: Ms. Meetu S. Wadhwa & Dr Neha Jindal



Seminar on Importance of Industrial Training for UG Science Students (13/04/2022)



Applications of Physics in Medical Field



Invited Lecture and Poster Making Competition



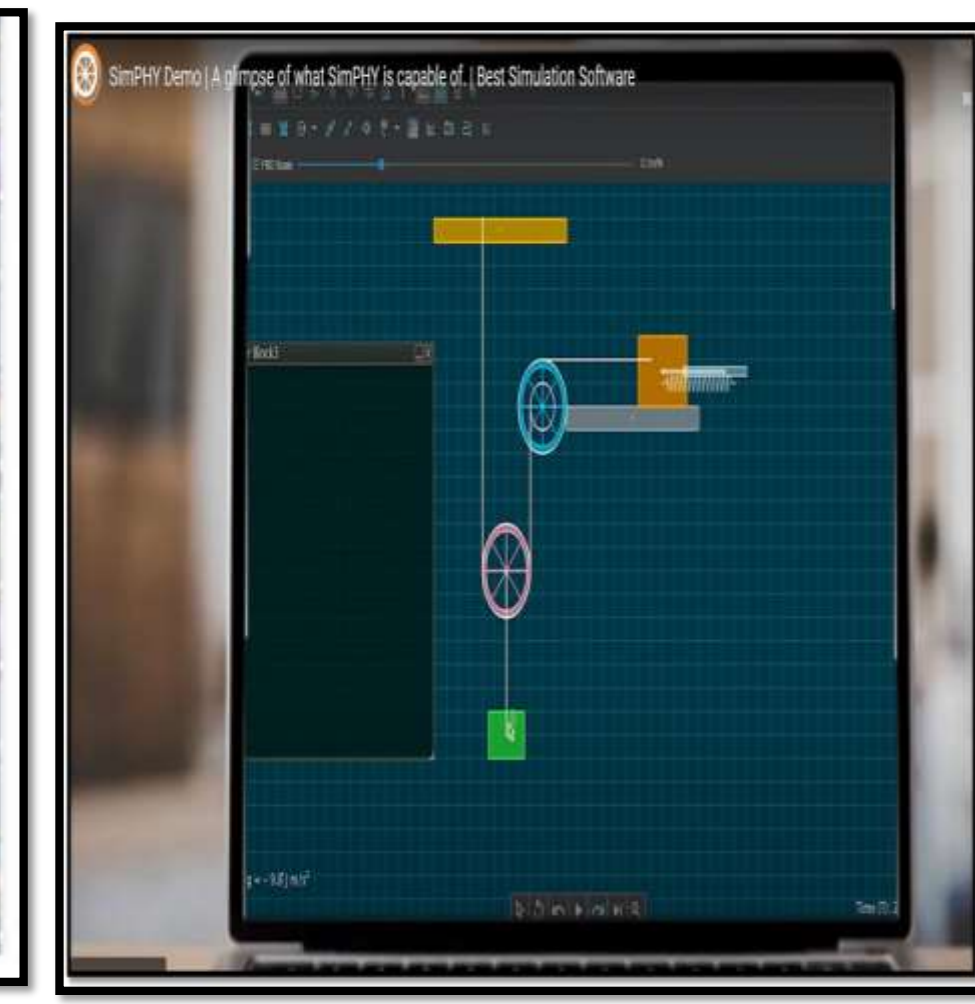
Seminar on Forensic Science



Oscilloscopes: DSO Vs. CRO



MS Excel for Practical based simulations



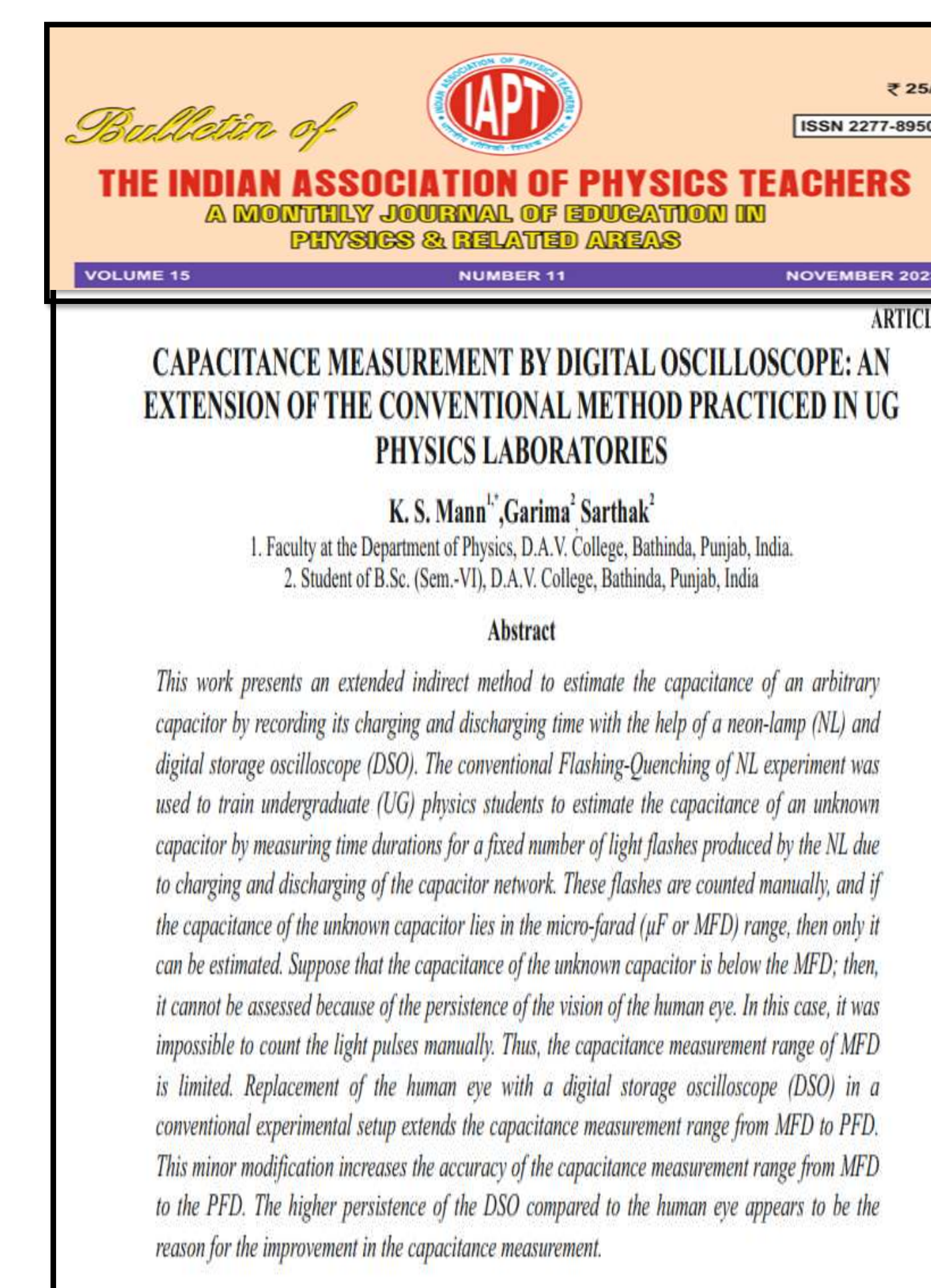
SimPHY: A Physics Simulation Software

New Experiments Conducted

S. No	Aim of the Experiment	Class
1	Separation of inorganic cationic mixture using chromatography.	B.Sc.-I
2	Estimation of nitrogen using Kjeldah's Apparatus	B.Sc.-I
3	To study of metal ion complexes of EDTA colorimetrically.	B.Sc.-II
4	Evaluate the physical parameters- pH, Conductance, TDS, DO, turbidity, of contaminated water	B.Sc.-II
5	To find the strength of mixture of acids conductometrically	B.Sc.-II
6	To determine of the amount of Phosphate in a Detergent.	B.Sc.-III
7	Separation of Cu, Cr, Pb, ions using Column chromatography	B.Sc.-III
8	IR Studies of Claisen Schmidt reaction using acetone and benzaldehyde	B.Sc.-III

Minor Research Projects

S. No	Project Title	Supervisor	Name of UG Students Involved
1	Assessment of fluoride exposure and associated health risks from different sources of drinking water to various age groups in Bathinda City, Punjab, India (March to December, 2022) (Beneficiaries: 04) (RESERACH PAPER PUBLISHED)	Dr. Vikas Duggal	Tanisha Goyal, Ramandeep Kaur, Jashandeep Kaur, Garima Bajaj
2	Capacitance measurements by digital oscilloscope: An extension of the conventional method practiced in UG physics laboratories. (Beneficiaries: 02) (RESERACH PAPER PUBLISHED)	Dr. K.S. Mann	Sarthak Bansal, Garima
3	Water Level Indicator (Beneficiaries: 02)	Dr. Gurpreet Singh Dr. K.S. Mann Ms. Harpreet Kaur Brar	B.Sc.I: Vanita, Amandeep Kaur, Sarita Oli, Akanksha Kumari B.Sc.II: Garima, Sarthak Bansal, Arshdeep, B.Sc.III: Diksha, Rupali, Jashanpreet Kaur, Kulveer Kaur
4	Mini Amplifier circuit using LM386 for phones	Dr. Vikas Duggal	
5	Luggage Security system	Technical Support by: Mr Sukhwinder Singh	
6	Mosquito Repellent		



Publication with Students in Journal: IAPT



Publication with Students. Journal: Physics and Chemistry of the Earth (Impact Factor: 3.7), Publisher: Elsevier



Minor Research Projects: Mini Amplifier circuit using LM386 for phones, Mosquito Repellent, etc.

Impacts of the DBT Support:

