

CURRICULUM –VITAE

Dr. Pankaj Biswas
Assistant Professor
Faculty of Sciences
Shri Mata Vaishno Devi University
Kakryal Katra, J&K- 182 320.
Email: pankaj.biswas@smvdu.ac.in



➤ **Educational Qualifications:**

S. No.	Qualifications acquired	Discipline / Stream	Year of Passing	University / Institution / College	Division / % age
1.	Ph.D.	Physics	2019	Shri Mata Vaishno Devi University Title: Synthesis and Characterization of Mixed Vanadate Based Nanophosphors	Awarded
2.	M.Sc.	Physics	2001	University of Jammu	1 st Div./ 67.88%
3.	B.Sc.	G. English, Physics, Mathematics & Computer Applications	1999	University of Jammu	Distt./ 79.51%

➤ **Teaching experience:**

S. No	Name of the post	Nature of post held	Name of the organization / University / Institution	Period / Length of Service		Scale of Pay (in Rs.)
				From	To	
1.	Lecturer	Regular	Trikuta Degree College.	April 2009	Aug 2009	8000/- +DA
2.	Lecturer	Contractual	Deptt. of Physics, University of Jammu	10 th Sept., 2009	11 th Feb, 2011	15000/- Consolidated
3.	Assistant Professor	Regular	Shri Mata Vaishno Devi University	14 th Feb., 2011	Till Date	15600- 39100 (Level -11)

- **No. of Years:** (1) UG = 12 years
(2) PG = 12 years

Academic Activities

➤ B. Tech Courses

1. Course Coordinator Engineering Physics
2. Course Coordinator Engineering Physics Laboratory

➤ M. Sc Physics Courses

1. Course Coordinator, Electronics-I&II (M.Sc.-I)
2. Course Coordinator, Special Paper-II (Electronics) (M.Sc.-III)
3. Course Coordinator, Classical Mechanics (M.Sc.-I)
4. Course Coordinator, Electronics Specialization Laboratory

➤ Ph.D.Courses

Course Coordinator Research Methodology

➤ PG Projects Supervised : Twenty One (24)

Ph.D. Guidance

S. No.	Name	Title of Thesis	Status
1.	Mr. Sajad Ahmed Bhat	Completed Course Work; Research proposal yet to be submitted	In Progress
.	Mr. Meniak Khajuria	Pursuing Pre-Ph.D. Course Work Sem-II	In Progress
3.	Mr. Rohit Raina	Pursuing Pre-Ph.D. Course Work Sem-I	In Progress

Affiliations/Subscriptions

S. No.	Association	Membership
1.	The Indian Association of Physics Teachers (IAPT)	Life Member (9466 L5819)

Refresher Courses/ Faculty Development Programmes Attended

S. No.	Course	Date
1.	UGC Sponsored “General Orientation Course” conducted by Academic Staff College (ASC) University of Jammu	4 th July to 31 st July 2012
2.	Science Academics’ sponsored two week	8 th to 25 th October, 2013

	<i>“Refresher course on Experimental Physics”</i> at SMVDU	
3.	GIAN course on <i>“X-ray Absorption Spectroscopy and its Application to Nanomaterials (XASAN-2017)”</i> organized by Motilal Nehru National Institute of Technology (MNNIT) Allahabad, under MHRD GoI	21-28 Dec., 2017
4.	FDP on <i>“Foundation Program in ICT for Education”</i> - An online FDP course (FDP101x) organized by IIT Bombay under PMMMNMTT, MHRD, GoI	8 th Mar. – 12 th April, 2018
5.	FDP on <i>“Pedagogy for Online and Blended Teaching-Learning Process”</i> - An online FDP course (FDP201x) authorized by IIT Bombay under PMMMNMTT, MHRD, GoI	3-30 May, 2018
6..	FDP on Effective Teaching-Learning in Higher Education organized by SALD & SoPC, SMVDU	4-6 July, 2018
7.	Short course on <i>“Recent Development in Non-Local Material and Structural Models”</i> organized by Department of Mechanical Engineering, BITS Pilani Dubai-Campus, Dubai, UAE	19 Nov., 2019
8.	ATAL FDP on Robotics organized by NIT Jamshedpur via online mode	25-29 May, 2020
9.	Online <i>“Two - Week Refresher Course in Physics”</i> organized by Teaching Learning Centre, Ramanujan College University of Delhi under PMMMNMTT	28 th July to 11 th August, 2022

Membership of Academic and Administrative Committees

- i. Member, Mentor & Guardianship Committee
- ii. Member, M.Sc. Physics Admission Committee
- iii. Coordinator, Time-Table SoP
- iii. Member, Event Management Committee in DST sponsored 4th INSPIRE Camp.
- iv. Member, Camp Bag and Memento Committee in DST sponsored 5th INSPIRE Camp.
- v. Member, M.Sc. Physics Laboratory Equipments verification Committee.
- vi. Faculty Advisor, Nature Club.
- vii. Member, Hospitality Committee, Titiksha
- viii. Member, Inspection Committee, IUAC sponsored research project PR-52
- ix. Member, School Academic Affairs Committee.
- x. External Member, Physical verification Committee in SBT Laboratory.
- xi. Member, Budget Committee, 66th Refresher Course in Experimental Physics.
- xii. Member, Anti-Ragging Squad.
- xiii. Escort member, M.Sc. Physics degree recipients’ convocations at SMVDU.
- xiv. Member, Nano-technology Cell
- xv. Faculty In-charge, Library Affairs
- xvi. Member, Innovation (Tinkering) Laboratory at SMVDU.

- xvii. Department Coordinator, Student Seminar.
- xviii. Member, Maintenance & Housekeeping Advisory Committee.
- xix. Faculty In-charge, School Library Affairs
- xx. Member, School Admission Committee Int. B.Sc.-M.Sc. Physics
- xxi. Member secretary, Board of Studies, School of Physics
- xxii. Member, Physical Stock Verification Administrative block
- xxiii. Member, Flying Squad SMVDU.

External Examiner

1. Appointed as External Examiner to conduct the practical examination of Five-Year Integrated M.Sc. Physics Semester-II (Physics Workshop-I) on 24-07-2023 at Deptt. of Physics & Astronomical Sciences, CUJ
2. Appointed as External Examiner to conduct the practical examination of Five-Year Integrated M.Sc. Physics Semester-III (Analog Systems and Applications Lab) on 23-12-2022 at Deptt. of Physics & Astronomical Sciences, CUJ
3. Appointed as External Examiner to conduct the practical examination of Five-Year Integrated M.Sc. Physics Semester-V (Atmospheric Physics Lab) on 21-12-2022 at Deptt. of Physics & Astronomical Sciences, CUJ

Events Organized

1. Member, Organizing Committee, National Science Day, School of Physics, SMVDU, 2012.
2. Workshop coordinator, IIT Bombay sponsored Two Week ISTE STTP on Engineering Physics from 08-18 Dec., 2015.
3. Joint Secretary, UGC sponsored National Conference on Recent Advances in Materials Science and Spectroscopy (NCRAMSS-2017) organized by Department of Physics, Shri Mata Vaishno Devi University, Katra J&K from 15-17, Feb., 2017.
4. Organizing member, National Science Day – 2017 under the theme “Science and Technology for Specially Abled Persons” held at Shri Mata Vaishno Devi University on 28th Feb., 2017.
5. Workshop coordinator for One Day Workshop on “Scilab” organized by SMVDU remote centre in collaboration with IIT Bombay under NMEICT on 4th May, 2019.
6. Workshop coordinator for One Day Workshop on “R” organized by SMVDU remote centre in collaboration with IIT Bombay under PMMMNMIT on 9th Nov., 2019.
7. Workshop coordinator for One Day Workshop on “Arduino” organized by SMVDU remote centre in collaboration with IIT Bombay under PMMMNMIT on 8th Feb., 2020.
8. Local Coordinator for One Week Short-Term training programme on “Materials Characterization Techniques” organized by SMVDU remote centre in collaboration with NITTTR Chandigarh under MHRD GoI from 4-8th, Dec. 2023.
9. Coordinator for Two Days workshop on “Arduino for Physics Experiments” organized by SMVDU remote centre in collaboration with IIT Bombay under FOSSEE, NMEICT (MoE), GoI from 18-19th Jan. 2024.

Research Publications

1. **P. Biswas** and K. Jagenathan, “Hydrothermal Synthesis of One Dimensional Mo Doped n-Type ZnO Nanowires on p-Type Si Substrate”, **Mater. Focus** **4** (2015) 366-369.
2. **P. Biswas**, Vinay Kumar, O. M. Ntwaeaborwa and H. C. Swart, “Enhanced orange red emission from $\text{KSrVO}_4:\text{Sm}^{3+}$ nanophosphor possible application in blue light-emitting diode based white LED”, **Mater. Res. Express** **2** (2015) 025010.
3. **P. Biswas**, Vinay Kumar, G. Agarwal, O. M. Ntwaeaborwa, H. C. Swart, “ $\text{NaSrVO}_4:\text{Sm}^{3+}$ An n-UV convertible phosphor to fill the quantum efficiency gap for LED applications”, **Ceram. Int.** **42** (2016) 2317–2323.
4. **P. Biswas**, V. Kumar, O. M. Ntwaeaborwa, and H. C. Swart, “A novel orange-red emitting $\text{NaCaVO}_4:\text{Sm}^{3+}$ phosphor for solid state lighting”, **AIP Conf. Proc.**, **728** (2016) 020552.
5. **P. Biswas**, Vinay Kumar, Naresh Padha, O. M. Ntwaeaborwa and H. C. Swart, “Synthesis, structural and luminescence studies of $\text{LiSrVO}_4:\text{Sm}^{3+}$ nanophosphor to fill amber gap in LEDs under n-UV excitation”, **J. Mater. Sci: Mater. Electron.** **28** (2017) 6159–6168.
6. **P. Biswas**, Vinay Kumar, Vishal Sharma, A. K. Bedyal and H. C. Swart, “Potential of Sm^{3+} doped LiSrVO_4 nanophosphor to fill amber gap in LEDs”, **Physica B:Condens. Matter.** **535**, (2018) (221-226).
7. S. Khurshed, **P. Biswas**, V. K. Singh, V. Kumar, H.C. Swart and J. Sharma, “Synthesis and optical studies of $\text{KCaVO}_4:\text{Sm}^{3+}/\text{PMMA}$ nanocomposites” **Vacuum**, **159** (2019) 414-422
8. P. Rajput, P. Sharma, **P. Biswas** and Kamni, "Structural and spectral properties of $\text{MgZnO}_2:\text{Sm}^{3+}$ phosphor" **AIP Conference Proceedings**, **1953** (2018) 030170
9. **P. Biswas** and Vinay Kumar, "A potential amber-emitting $\text{KCaVO}_4:\text{Sm}^{3+}$ nanophosphor for near-UV LEDs" **AIP Conference Proceedings**, **1953** (2018) 030206
10. P. Rajput, **P. Biswas**, V. K. Singh, Kamni, "Structural and spectral studies of $\text{MgZnO}:\text{Cr}^{3+}$ nanophosphors prepared by combustion synthesis", **Applied Physics A**, **125** (2019) 793
11. **P. Biswas**, Vinay Kumar, Kamni, "The structural and spectral study of $\text{LiSrVO}_4:\text{Tb}^{3+}$ phosphor for UV-shifted imaging devices", **Materials Today: Proceedings**, **28** (2020) 1018-1023
12. P. Sharma, **P. Biswas**, P. Singh, Kamni, "Effect of Transition Metal Mn^{2+} ion Doping on the Structural, Spectral and Photoluminescent Properties of NaSrVO_4 Prepared by Combustion Synthesis", **Journal of Alloys and Compounds**, **872** (2021), 159626
13. **P. Biswas**, Vinay Kumar and Kamni, " $\text{KSrVO}_4:\text{Tb}^{3+}$ - A potential green-emitting nanophosphor candidate for white LEDs", **Journal of Materials Science: Materials in Electronics**, **34** (2023), 149
14. S. A. Bhat, R. Ahmad, **P. Biswas**, P. Kour, R. Attri and M. A. Mir “Synthesis and Spectral Study of Ce^{3+} Activated $\text{Sr}_3(\text{VO}_4)_2$ Nanophosphor”, **Recent Advances in Nanomaterials, Springer Proceedings in Materials**, **27** (2023), 401-406

e-Resources Developed

S. No.	Title of e-Resource	Author's Name	Publisher	Year of Publication
1.	A Scilab Textbook Companion for Solid State Physics: Structure And Properties of Materials by M. A. Wahab	Pankaj Biswas and Kamni	Funded by a grant from the National Mission on Education through ICT, http://spoken-tutorial.org/NMEICT-Intro . This Textbook Companion and Scilab codes written in it can be downloaded from the “Textbook Companion Project” section at the website http://scilab.in .	2012
2.	A Scilab Textbook Companion for Solid State Physics- Properties and Applications by R. Asokamani	Pankaj Biswas and Kamni	Funded by a grant from the National Mission on Education through ICT, http://spoken-tutorial.org/NMEICT-Intro . This Textbook Companion and Scilab codes written in it can be downloaded from the “Textbook Companion Project” section at the website http://scilab.in .	2013
3.	Scilab Textbook Companion for Engineering Physics by G. Aruldas	Pankaj Biswas and Vinay Kumar	Funded by a grant from the National Mission on Education through ICT, http://spoken-tutorial.org/NMEICT-Intro . This Textbook Companion and Scilab codes written in it can be downloaded from the “Textbook Companion Project” section at the website http://scilab.in .	2013

4.	Scilab Textbook Companion for Engineering Physics by D. C. Ghosh, N. C. Ghosh and P. K. Haldar	Pankaj Biswas and Kamni	Funded by a grant from the National Mission on Education through ICT, http://spoken-tutorial.org/NMEICT-Intro . This Textbook Companion and Scilab codes written in it can be downloaded from the “Textbook Companion Project” section at the website http://scilab.in .	2014
5.	Scilab Textbook Companion for Modern Physics by G. Aruldas and P. Rajagopal	Pankaj Biswas	Funded by a grant from the National Mission on Education through ICT, http://spoken-tutorial.org/NMEICT-Intro . This Textbook Companion and Scilab codes written in it can be downloaded from the “Textbook Companion Project” section at the website http://scilab.in .	2016
6.	Translated and audio recorded 5 lectures (Lec 51 to Lec 55) on Quantum Mechanics-I by Prof. P. Ramadevi from IIT Bombay in Hindi language.	Pankaj Biswas	AICTE-SWAYAM Link: https://drive.google.com/drive/folders/1washaJnzMwzgWKP0_HtkKvAoLfpBjhG1?usp=sharing	2021
7.	Validated translation of the 5 lectures (Lec 46 - Lec 50) of Fundamentals of Manufacturing Processes, by Dr. D. K. Dwivedi Dept. of Mechanical & Industrial Engineering IIT Roorkee, in Hindi language.	Pankaj Biswas	AICTE-SWAYAM Link: https://drive.google.com/drive/folders/1P2dXkaQ-PXE444sacbU9X87K2KcP61uj	2021
8.	Validated translation of the 10 lectures (Lec 71 - Lec 80) of Engineering Mechanics, by Prof. Manoj K Harbola, Department	Pankaj Biswas	AICTE-SWAYAM Link: https://drive.google.com/dr	2021

of Physics IIT Kanpur, in Hindi language.		ive/folders/1cKOaxOA31 WZwFj9K- By4z719uoFEA8GS	
---	--	---	--

Conferences/ Seminars/ Workshops (Attended/ Chairing a Session)

S. No.	Course	Date
1.	UGC Sponsored National Seminar on “ <i>Wireless communication and Networks with special emphasis on Adhoc & WSN</i> ” at SMVDU	24 th to 25 th March, 2012
2.	One Day “ <i>Acquaintance programme on Accelerator based Research</i> ” at School of Physics SMVDU	14 th June, 2012
3.	Two weeks ISTE Workshop on “ <i>Introduction to Research Methodologies</i> ” conducted by IIT Bombay at SMVDU	25 th June, 2012 to 4 th July, 2012
4.	Two day ISTE workshop on “ <i>Aakash for Education</i> ” at SMVDU Remote Center conducted by IIT Bombay	10 th to 11 th Nov, 2012
5.	Two week IST Workshop on “ <i>Database Management</i> ” conducted by IIT Bombay at SMVDU	21st May to 31 May 2013
6.	Two week IST workshop on “ <i>Analog Electronics</i> ” conducted by IIT Kharagpur	4 th to 14 th June 2013
7.	Two-week ISTE Workshop on “ <i>Analog Electronics</i> ” sponsored by IIT Bombay held at SMVDU	4 th to 14 th June, 2013
8.	Two week IST workshop on “ <i>Signals & Systems</i> ” at SMVDU Remote Centre conducted by IIT Kharagpur	2 nd to 12 th January 2014
9.	Two week IST workshop on “ <i>Environmental Studies</i> ” at SMVDU Remote Centre conducted by IIT Bombay	2 nd to 12 th June 2015
10.	One-week ISTE STTP for Coordinators on “ <i>Engineering Physics</i> ” conducted under NMEICT by MHRD held at department of Physics IIT Bombay	7 th to 11 th Sept., 2015
11.	International Conference on Condensed Matter and Applied Physics (ICC 2015) held at Govt. Engineering College Bikaner, Rajasthan	Oct. 30-31, 2015
12.	International Conference on NanoSciTech 2016 held at Panjab University, Chandigarh	Feb. 18-20, 2016
13.	One day Workshop on “ <i>Patent Drafting and Filing</i> ” in association with TIFAC, DST Govt. of India held at SMVDU	20 th Oct., 2016

14.	ICT based One Week Workshop sponsored by NITTTR Chandigarh on “ <i>Optimization Using MATLAB</i> ” held at SMVDU	24 th – 28 th October, 2016
15.	International conference on Recent Trends and Advancements in Engineering and Technology (ICRTAET-2016) held at SMVDU, Katra, J&K	Nov. 17-18, 2016
16.	ICT based One Week Workshop sponsored by "Cloud Computing" held at SMVDU	5 th -9 th December 2016
17.	National Conference on Recent Advances in Materials Science and Spectroscopy (NCRAMSS-2017) held at SMVDU, Katra, J&K.	Feb. 15-17, 2017
18.	2 nd International Conference on Condensed Matter & Applied Physics, ICC-2017 held at Govt. Engineering College, Bikaner	24-25 Nov., 2017
19.	Chaired a technical session in National Conference on Emerging Trends in Materials Science (NCETMS-2018) organized by School of Physics, SMVDU during.	7-8 Feb., 2018
20.	Assisted the students of INSPIRE-DST Science Camp during the Laboratory Tour in SoP	9 th July, 2018
21.	One-Day National Workshop on “ <i>Communication Skills Required for Teaching</i> ” organized by FDP Centre, SMVDU	15 th Dec., 2018
22.	One-Day Coordinators’ workshop on “Scilab” by IIT Bombay	16 th April 2019
23.	One-Day Workshop on “Python” by IIT Bombay	22 nd June, 2019
24.	One Day Workshop on “ <i>eSim a First Course in the IoT Series for Teachers</i> ” by IIT Bombay under PMMMNMTT at SMVDU remote centre	21 st Sept., 2019
25.	TEQIP-III sponsored One week Workshop on “ <i>Role of Soft Skills in Effective Classroom Management</i> ” held at SMVDU	19-23 August, 2019
26.	One day Workshop on “Linux” by IIT Bombay under PMMMNMTT at SMVDU remote centre	23 rd Aug., 2019
27.	TEQIP-III sponsored Two day workshop on “ <i>Ethical Hacking and Cyber Security</i> ” organized by SoCSE, SMVDU	23-26 Sept., 2019
28.	One Day Coordinator’s workshop on “R” by IIT Bombay under PMMMNMTT at SMVDU remote centre	12 th Oct., 2019
29.	One Day Coordinators Workshop on “Arduino” at IIT Bombay under PMMMNMTT	18 th Jan., 2020
30.	National Webinar on “ <i>World Environment Day</i> ” organized by Krishi Vigyan Kendra, Jammu & Krishi Vigyan Kendra, Kathua	5 th June, 2021
31.	National Webinar on “ <i>Science is Fun</i> ” organized by SMVDU in collaboration with IAPT	28 th Feb., 2022

32.	Online One Day Pilot workshop on “ <i>Scilab GUP</i> ” by IIT Bombay under NMEICT, GoI	29 th May, 2023
-----	--	----------------------------

MOOC Courses Completed

1.	MOOC course on “Principle of Semiconductor Devices Part I: Semiconductors, PN Junctions and Bipolar Junction Transistors” - An online course authorized by the Hong Kong University of Science and Technology through edX	20 th May to 24 th July, 2018
2.	MOOC course on “ <i>Principle of Semiconductor Devices Part II: Field Effect Transistors and MOSFETs</i> ” - An online course authorized by the Hong Kong University of Science and Technology through edX	25 th March – 11 th June, 2019
3.	NPTEL-SWAYAM MOOC course on “Theoretical Mechanics” organized by IIT Guwhati	29 th July to 21 st Sept., 2019
4.	NPTEL-SWAYAM MOOC course on Introduction to Photonics by IIT Madras	27 th Jan – 19 th April, 2020
5.	NPTEL-SWAYAM MOOC course on “Material Characterization” by IIT Madras	Jan-Apr 2021
6.	NPTEL-SWAYAM MOOC course on “ <i>Research Methodology</i> ” by IIT Madras	Jan-Apr 2022
7.	NPTEL-SWAYAM MOOC course on “ <i>Solar Photovoltaics Fundamentals, Technology and Applications</i> ” by IIT Roorkee	Jul-Sept 2022
8.	NPTEL-SWAYAM MOOC course on “Introduction To Machine Learning--IITKGP” by IIT Kharagpur	Jul-Sept 2023

Presented papers in Conferences

S. No.	Title of the Presentation	Details of Conference	Year of Presentation
1.	Structural and Luminescent Properties of Bulk K ₂ SrVO ₄ :Sm ³⁺ Phosphor for Amber LED Applications	4th International Conference on Condensed Matter & Applied Physics (ICC 2023) organized by Govt. Engineering College, Bikaner, Rajasthan and Condensed Matter Research Society (CMRS).	2023

2.	The structural and spectral study of $\text{LiSrVO}_4:\text{Tb}^{3+}$ phosphor for UV-shifted imaging devices	2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019) organized by Deptt. Mechanical Engineering, BITS Pilani Dubai-Campus , Dubai, UAE	2019
3.	Structural and Photoluminescence Studies of $\text{LiSrVO}_4:\text{Tb}^{3+}$ Nanophosphor for Imaging Devices	9th International Conference on Applied Physics and Mathematics (ICAPM-2019) organized by Chulalongkorn University, Bangkok, Thailand	2019
4.	Green Emitting $\text{KSrVO}_4:\text{Tb}^{3+}$ Nanophosphor: Structural and Spectral Investigations	5th International Conference on Recent Trends & Advancement in Engineering and Technology (ICRTAET-2018) organized by SMVDU, Katra	2018
5.	A potential amber-emitting $\text{KCaVO}_4:\text{Sm}^{3+}$ nanophosphor for near-UV LEDs	2nd International Conference on Condensed Matter & Applied Physics (ICC 2017) organized by Govt. Engineering College, Bikaner, Rajasthan	2017
6.	An Amber Emitting $\text{KSrVO}_4:\text{Sm}^{3+}$ phosphor for Solid State Lighting	National Conference on Recent Advances in Materials Science and Spectroscopy (NCRAMSS-2017) organized by Deptt. of Physics, SMVDU	2017
7.	Spectral Investigations of $\text{KCaVO}_4:\text{Sm}^{3+}$ Nanophosphor for Applications in Solid State Lighting under n-UV Excitation	International Conference on Recent Trends and Advancements in Engineering and Technology (ICRTAET) organized by SMVD University	2016
8.	Spectral Studies of $\text{KCaVO}_4:\text{Sm}^{3+}$ Nanophosphor for Potential Applications in Solid State Lighting	International conference , NanoSciTech 2016 organized by Panjab University, Chandigarh	2016
9.	A Novel Orange-red Emitting $\text{NaCaVO}_4:\text{Sm}^{3+}$ Phosphor For Solid State Lighting	International Conference on Condensed Matter & Applied Physics (ICC 2015) organized by Dept. of Physics, Govt. Engineering College Bikaner	2015

PG Projects Guided

S. No.	Title	Name of the Student(s)	Session
1.	“Synthesis Structural and Spectroscopic Study of Dy^{3+} Doped KSrVO_4 ”	Anikeet Uppal Kadhamveer Singh Jamwal	2022-23

2.	“Automatic Library Log Register”	Ritik Sharma Simran Gupta	2022-23
3.	“Arduino Based Public Attendance System”	Rupali Verma Sweety Manyotra	2021-22
4.	“Synthesis, Structural and Spectroscopic Studies of Ce-Doped Sr ₃ (VO ₄) ₂ Phosphor”	Pavneet Kour Rozi Attri	2021-22
5.	“Arduino Social Distance Indicator”	Rohit Raina Sahil kumar Jagwal	2020-21
6.	“Digital AVO Meter using Arduino”	Seema Kumari Rohini Chanyal	2020-21
7.	“Arduino Based E-Notice Board Using GSM Technology”	Arti Jamwal Simran Sharma	2019-20
8.	“Patient Health Monitoring System Using Arduino and GSM Module”	Anjali Sharma Harjoot Kour	2019-20
9.	“Animal Detector and Repellent”	Madhu Mokshi Vaid	2018-19
10.	“Sound Detection and Controller”	Anam Khajuria Nitika Sharma	2018-19
11.	“Noise Detector and Indicator”	Neha Jamwal Madhavi Sharma	2017-18
12.	“Manual Transmission Car Gear Position Indicator”	Bhumi Khajuria Poonam	2017-18
13.	“Footstep Power Generator Using Piezoelectric Sensor”	Sameer Sasan Sohil Ahmed	2016-17
14.	“Zigbee Based Electronic Notice Board”	Zahoor Ahmed Arshdeep Gupta	2016-17
15.	“Automatic Railway Barrier Control System”	Swati Sharma Nikhil Sharma Anil Singh Jasrotia	2015-16
16.	“Temperature controlled Smart DC Fan”	Snoopy Mahajan Diksha Sharma	2015-16
17.	“Moving Message LED Display Interface VIA RS232”	Sofiya Bagri Shubam Sharma Rajan Singh	2015-16
18.	“Scrolling LED Message Display”	Neha Sharma Taniya Gupta	2014-15
19.	“Sensitive Vibration Detector”	Anjali Malhotra Amit Gupta	2013-14
20.	“Scrolling Dot Matrix Display”	Shivangi Singh Sonia Sharma	2013-14
21.	“Mobile Bug”	Divya Sharma Priyanka Richa Gupta	2012-13
22.	“Low Power FM Transmitter”	Jatin Bharti Bharat Arun Sharma	2012-13

23.	“8085 Microprocessor Based Intelligent Emergency Light”	Sumit Singh Rohit Sharma	2011-12
24.	“8051 Based Liquid Level Indicator-Cum-Alarm”	Ranjeet Singh Mosami Chowdhari	2011-12

Invited Talk(s)

1. Acted as the resource person in two week refresher course in experimental Physics sponsored by three science Academies (IASc Bangalore, INSA New Delhi & NASI Allahabad) held at school of Physics, SMVDU from 10th Dec to 25th Dec, 2014.

Awards/ Fellowships

1. Got **Summer Research Fellowship for Teachers-2014** sponsored by Science Academies’ (IASc, INSA and NASI) and worked under project entitled “*To study the Electrical and the Optical Properties of 1D ZnO Nanowires*” under Dr. K. Jeganathan, Professor and Head, Centre for Nanoscience and Nanotechnology, Bharathidasan University, Tiruchirappalli, Tamil Nadu.
2. **Excellent Oral Presentation Award ICAPM-2019** organized by Chulalongkorn University, Bangkok Thailand., on 21st Jan., 2019.