SCHOOL OF STUDIES IN ELECTRONICS & PHOTONICS



(Funded Under UGC Under Innovative Program)
Pt. Ravishankar Shukla University, Raipur (C.G.)

SHILALEKH 2016-17



Established in 1994

About Us

The Department provides an unrivalled education in Electronics and photonics. The department has vibrant atmosphere with a combination of strong academic and research activities. Both compliment each other and the students at all levels under the able guidance of the faculty members maintain this brilliant combination and help the Institute to reach the zenith of knowledge and innovation.

Department came in to existence in the year 1994. It was shifted to new building in the year 1995 from Physics Department building. In the last 22 years of existence, number of students passed out are 900 & honored that our students are recruited in –DEITY Govt. of India CAT (Center for Advance Technology, Indore), CSIR; IT Fields as System &Network Engg.; Railways, Indian & Overseas Banks; Govt. Services through UPSC, PSC, SSB etc.; Private and Public Sectors; Academic Field.

The teaching in the department is closely coupled with the research activities of the department. The teaching program contains a proper blend of basic concepts and advances in technology.

Vision

To become a nationally and internationally leading institution of higher learning, building upon the culture and the values of universal science and contemporary education, and a centre of research and education generating the knowledge and the technologies which lay the groundwork in shaping the future in the field of electronics and photonics.

Mission

Our mission is to prepare Competent Scientists imbibed with spirit of Professionalism and Responsible Citizenship in a Competitive Global Environment.

Reasons why aspiring students should opt for M.Sc. in Electronics

M.Sc. in Electronics can be opted as a highly preferred discipline due to a lot of career opportunities for skillful candidates in both government and nongovernment institutions/organizations. The candidates of M.Sc. Electronics can find massive job opportunities in any of the well-reputed companies operating in planning, design, program, and repair electronics, including VLSI (Very Large Scale Integration) designing, which has become one of the most happening fields of Electronics.

M tech (Programme) aims to provide advanced training in the interdisciplinary area of optoelectronics, Fiber optics, optical networks, and laser technology, it also emphasizes on practical application of photonics and provide an educational experience relevant to students future career in the photonics based firm.

ELECTRONICS

Career Prospects in Public Sector – Government sector offers secure and steady employment opportunities for expert professionals in Electronics. The different government organizations operating in Electronics field include – Indian Railway, ONGC, NEERI, Nationalized Banks, IGCAR, IAF, DRDO, CSIR, CEERI, BSNL BHEL, BEL, BARC etc.

Vast opportunities are now emerging in Education sector as well, both in teaching and research fields. State & Central governments are going to heavily recruit in their institutions. Postgraduates in Electronics can work as teachers in upper primary school classes.

COURSES OFFERED

Course	No. of Seat	Year of Starting
M.Sc in Electronics	20	1994
M. Tech in Optoelectronics & Laser Technology (AICTE affiliated) Inter Disciplinary Nature	22	2008
M. Phil in Electronics	10	2007
Ph. D. Programme	12	1994
B.Voc (Bachelars in Vocational Education) in Renewable Energy and Technology Management Inter Disciplinary Nature	50	2015

FACULTY

Photos	Name	Qualification	Designation	Specialization	No. Years of Experience	PhD Produced
	Dr. Sanjay Tiwari	M.Sc., M.Phil. Ph.D., M.Sc.(IT), AMIETE	Professor	Computational Condensed Matter Physics, Design, Simulation & Fabrication of Solar Cells, LEDs Computational Electronics	29 Years	12
	Dr. Kavita Thakur	BE, ME, Ph. D	Professor & Head	Speech, Image signal Processing and controls	22 years	7
	Mr. Anil Verma	M.Sc. in Electronics, UGC NET	Contract Asstt. Professor	Electronics	02 Years	Pursuing Ph.D.
9	Ms. Praneeta Tam- boli	B. E., M. Tec., UGC NET	Contract Asstt. Professor	Electronics & Telecommunication, Optoelectronics and Laser Technology	<u></u>	
	Mr. Praveen Kr. Verma	B. E., M. Tech., UGC NET	Contract Asstt. Professor	Electronics & Telecommunication, Optoelectronics		
8	Mr. Naman Shukla	M. Tech, M.Sc. in Electronics UGC NET	Guest Faculty	Opto Electronics & Laser Technology	04 Years	
	Mr. Javed Akram	M.Sc. in Electronics, UGC NET	Guest Faculty	Electronics		
3	Ms. Arjeeta Mishra	M.Sc. in Electronics	Guest Faculty	Electronics		
	Mrs. Swagota Bera	M. Sc. in Electronics, M. Tech	Guest Faculty	Electronics		
	Mr. Tarun Sarkar	B.E., M. Tech.	Guest Faculty	Electronics		
Supera	nnuated Facult	y				

	IM Sc. Ph D HSc	Former Pro- fessor & Head (1994-2006)	Ferroelectric
(Late) Dr. G. K. Tiwari		Associate Professor (1994-2003)	Ferroelectric

ADMINISTRATIVE STAFF

Name	Designation	Qualification	Name	Designation	Qualification	Name	Designation
Mr. Surendra Singh	Lab Technician	B. E.		Technician Grade– I	1201, 111	Mr. Pawan Nishad	Peon
Ms. Poonam Sakarkar	LDC	M. Sc. (IT), B. Ed. PGDCA	Mr. Ramadas Banjare	Lab Attendant	12th	Ms. Veena Deep	Sweeper

Project (Major/Minor)

Major Projects

S. No.	PI/ Co PI	Title of Project	Letter No.	Funding Agency	Funding Type	Funding Amt (INR)	Period
1	Dr. SANJAY TIWARI	Optical and Electrical model- ing of Thin Film Organic So- lar Cells for efficient solar Spectrum harvesting	DRDO REF ERIP/ ER/1203087/ M/01 /1495 Dated: 18th Nov 2013	Defence Research Development Organization New Delhi	Individual	26.10 Lacs	2014-17
2	Co PI Dr. SAN- JAY TIWARI	Development of Highly Efficient CdTe/CdS Tandem Multijunction Photovoltaic System Through Optimization of Various Components	DST <u>EMR/2017/000</u> 43115-Jun-2017	Science & Engineering Research Board (SERB)	Individual	29 Lacs	2017-19

Minor Projects

S. No.	PI/ Co PI	Title of Project	Letter No.	Funding Agency	Funding Type	Funding Amt (INR)	Period
1	Dr. Kavita Thakur	Development and Implementation of software based automatic heart monitoring system through speech signal analysis.	Vide Letter No 72/ CCOST/MRP/2016, Dated- 3/04/2016	CCOST, Raipur	Individual	4.89 Lacs	April 2016- 2018
2	Dr. Sanjay Tiwari (Research Scholar nomi- nated Anil Verma)	Simulation, Fabrication and characterization of BHJ Inverted Organic Photovoltaic Cells		Indo Nano User Program, spon- sored by Die TY, Ministry of Communication and Information Technology, Govt of India sanctioned on 05.07.2016	Individual	Covered Fabrication, Material, Characterisa- tion travel and Accom- modation cost for self or research scholar nominated.	July 2016- 2018

Conference Organized by Institute

S. No.	Author/Convenor	Title	Publisher/Organizer	Year
01	Dr Kavita Thakur	"National level ARDUINO workshop cum training	School of Studies in Electronics and Photonics of Pt. Ravishankar Shukla University, Raipur and Indeyes Infotech PVT. LTD. New Delhi.	21-23 March,2017
02	Dr Kavita Thakur	3-days National Conference on Signal Processing, Sus- tainable Energy Materials and Astronomy and Astrophysics (NSSEMA).	School of Studies in Electronics & Photonics and School of Studies in Physics and Astrophysics and Luminescence Society of India	28-30 March,2017
03	Dr Kavita Thakur	Two Days Workshop on EM- BEDDED SYSTEM'17	S.O.S in Electronics and Photonics, S.O.S. in Computer Science & IT &IndEyes Infotech Pvt. Ltd. India	15-16 Febru- ary 2017
04	Dr.Sanjay Tiwari	National workshop on "Entrepreneurships in Re- newable Energy Technolo- gies for Chhattisgarh Tribal"	Renewable Energy Technology & Management Centre Pt. Ravishankar Shukla University, Raipur with CREDA, USIEF	19 th – 25 th September 2016
05	Dr.Sanjay Tiwari	Six Days Training Program for Skill Development On Solar PV Installer	Renewable Energy Technology & Management Centre Pt. Ravishankar Shukla University, Raipur	20-25 March 2017
06	Dr.Sanjay Tiwari	Seminar on Public Perceptions about Atomic Energy-Myths vs Realities	Renewable Energy Technology & Management Centre Pt. Ravishankar Shukla University, Raipur	17 th March 2017
07	Dr.Sanjay Tiwari	Workshop on Renewable Energy Scenario & Prospects in India	Renewable Energy Technology & Management Centre Pt. Ravishankar Shukla University, Raipur	30 th March- 01 st April 2017

Research Award /Recognitions Received by Faculty & Research Fellow

S	Name of		Aw	ard Details	
N	Awardees	Title	Year	Agency	Level
01	Dr Kavita Thakur	Bharat Vikas award	10th December 2016	Institute of Self Reliance, Baramunda, Bhubaneshwar, India	National
02	Dr Kavita Thakur	Outstanding performance, contri- bution and achievement in the field of Engineering and Technology	29th May 2017	The Institute of Engineers (I), Chhattis Garh State Centre, Raipur	State
03	Dr Kavita Thakur	Nominated Senior Member IEEE	March 2017	Institute of Electrical and Electronics Engineers	International
04	Dr Sanjay Tiwari	Conferment of Sr. Associateship of International Centre for Theo- retical Physics, Trieste, Italy	2012 to Dec 2017	International Centre for Theoretical Physics, Trieste, Italy	International
05	Dr Sanjay Tiwari	Nominated Senior Member IEEE	March 2017	Institute of Electrical and Electronics Engineers	International
06	Dr Sanjay Tiwari	Appointed National Convener of the academic committee 5 th Bharatiya Vigyan Sammelan at Fergussan College,Pune	11th to 14th May 2017	Fergusson College Pune and Vibha	National

Dr. Sanjay Tiwari

Publications

S. No.	Title	Journals Name	Volume	Impact factor
01	Diminution in photo luminescent intensity of Srs: Ce 3+ phosphor due to increase milling time	Journal of Alloys and compounds Elsevier	685	3.014
02	Nanocrystalline Srs:Ce3+ system for the generation of white light –emitting diodes	Luminescence Elsevier	31	1.1.452
03	Srs:Ce3+ thin films for electroluminescence device applications deposited by electron-beam evaporation deposition method	Materials Letters	183	2.437
04	Fabrication, characterization and electroluminescence studies of SrS: Ce3+ ACTFEL device		198	2.437
05	Fabrications and characterization of CdSe Quantum Dot- Sensitized Solar Cells by Successive Ionic Layer Adsorp- tion and Reaction(SILAR) Process	Optical Society of America PublishersThe International Conference on Fiber Optics and Photonics 2016 © OSA 2016		
06	Optoelectronic simulation for light enhancement of P3HT:PC70BM Conventional BHJ OSCs	Optical Society of America PublishersThe International Conference on Fiber Optics and Photonics 2016 © OSA 2016		
07	Optical Properties of Rare Earth Doped Srs Phosphor: A Review	Journal of Electronic Materials,		1.491
08	Structural and Optical Properties of Ce doped Srs Thin Films Deposited by E-Beam Method	Journals of Basic and Applied Engineering Research	Volume 3 issue 8;	
09	Fabrication and Characterization of nanoporous TiO 2 layer on photoanode by using Doctor Blade Method for dye-sensitized solar cells	Optical Society of America PublishersThe International Conference on Fiber Optics and Photonics 2016 © OSA 2016		
10	Fabrication and Characterization of Novel Inverted Organic Solar Cells Employing ZnO ETL and MoO3 HTL	Nanophotonics and Micro/Nano Optics Optical Society of America PublishersThe International Conference on Fiber Optics and Photonics 2016 © OSA 2016		
11	A Modelling and Simulation of MTJ in a Dynamic Behaviour	International journals for technological Research in Engineering	vol 3	
12	Modelling and Simulation of MTJ in a Static Behaviour,	International Journal for Research in Applied Science and Engineering Technology	Vol. 4	
13	Simulation of Novel Magnetic Tunnel Junction for Read- Write Performance in —Plane Anisotropy	International Research Journal of Natural and Applied Science	Vol. 3,	
14	Digital India : Sashar Bharat Ka Aagaj	Science India Journal,		

Dr. Kavita Thakur

01	Assessment of menstrual cycle and behavioral changes using digital speech processing techniques.	International Journal of Communications, ISSN 1998 4480	Vol. 10
02	Directional Fuzzy Edge detection based on Modified Edge Regeneration system for efficient JPEG Artifacts Reduction	Journal of Ravishankar University , Part B (Science) , ISSN:0970-5910.	Vol 29 (2 & 3)
03	A novel Type-2 Fuzzy directed hybrid Post-Filtering Technique for Efficient JPEG Image Artifact Reduction	International Conference on Information Communication and Embedded System (ICICES 2016), S A Engineering College, Thiruverkadu, Chennai, India, ISBN: 978-1-5090-2552-7, 978-1-5090-2552-7/16/\$31.00 ©2016 IEEE	
04	Perceptive Performance Analysis of Discrete Orthogonal Cosine Stockwell Transform for Low Bit-Rate Image Compression	International Conference on Recent Trends in Engineering, Science and Technology (PNFE 2016), St Peter's Engineer- ing college, Dullapally, Hyderabad, Telangana, India,	

Faculty Participation in Conference & Symposia

S.	Name of Fac-	Semi./Confe./Sy./Work.				
No.	ulty	State/National/International	Title	Duration/ Dates		
01	Dr Kavita Thakur	International Conference	Recent Trends in Engineering, Science and Technology (PNFE 2016),pp ,25-27 St Peter's Engineering college, Dullapally, Hyderabad, Telangana, India	October 25- 27,2016		
02	Dr Kavita Thakur	International Conference	2017 International Conference on Big Data Analytics and Computational Intelligence (ICBDACI 2017), IEEE, Technically co-sponsored by IEEE Advancing Society, IEEE Computational Intelligence Society, organized by Chirala Engineering College, Chirala, Andhra Pradesh, India.	March 23-25, 2017		
03	Dr Kavita Thakur	National Conference	AICON 2017 (All India Conference on Environmental Impact of Electronics and Electrical)	April 21- 22,2017		
04	Dr Kavita Thakur	National conference	Signal Processing, Sustainable Energy Material and Astronomy and Astrophysics (NSSEMA 2017) PRSU, Raipur	March 28- 30,2017		
05	Dr Kavita Thakur	National conference	Signal Processing, Sustainable Energy Material and Astronomy and Astrophysics (NSSEMA 2017) PRSU, Raipur	March 28- 30,2017		
06	Dr Kavita Thakur	National conference	Signal Processing, Sustainable Energy Material and Astronomy and Astrophysics (NSSEMA 2017) PRSU, Raipur	March 28- 30,2017		
07	Dr Sanjay Tiwari	International Workshop cum Conference by ICTP, Govt. of Italy,International Atomic Energy Agency, UNESCO	Advanced Workshop on High-Performance & High- Throughput Materials Simulations using Quantum ES- PRESSO	16-27 Jan,2017		
08	Dr Sanjay Tiwari	International Workshop by Govt. of Italy,International Atomic Energy Agency, UNESCO	18th International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods	12-14 Jan.2017		
09	Dr Sanjay Tiwari	International Workshop by ICTP, Govt. of Italy,International Atomic Energy Agency, UNESCO	Workshop on Spectroscopy and Dynamics of Photo induced Electronic Excitations	8 May 2017 - 12 May 2017		
10	Dr Sanjay Tiwari	International Workshop by ICTP, Govt. of Ialy, International Atomic Energy Agency, UNESCO	Advanced School & Workshop on Nonlocal Partial Differential Equations and Applications to Geometry, Physics and Probability	22 May 2017 - 2 Jun 2017		
11	Dr Sanjay Tiwari	International Workshop by ICTP,Govt. of Italy, International Atomic Energy Agency, UNESCO	Summer School on Particle Physics (smr 3124)	5 Jun 2017 - 16 Jun 2017		
12	Dr Sanjay Tiwari	International Conference	International Conference on Fibre Optics and Photonics,Optical Society of America Indian Institute of Technology KanpurIndia	04-08, 2016		
13	Dr Sanjay Tiwari	International Conference	International Conference on Fibre Optics and Photonics,Optical Society of America Indian Institute of Technology Kanpur India	04-08, 2016		
14	Dr Sanjay Tiwari	International Conference	International Conference on Fibre Optics and Photonics,Optical Society of America Indian Institute of Technology Kanpur India	04-08, 2016		
15	Dr Sanjay Tiwari	International Conference	International Conference on Fibre Optics and Photonics,Optical Society of America Indian Institute of Technology Kanpur India	04-08, 2016		
16	Dr Sanjay Tiwari	International Conference	IEEE TENCON Technologies for Smart NationInternational Region 10 Conference 2016 IEEE, 2016 Singapore	22-25 Nov., 2016		
17	Dr Sanjay Tiwari	International Conference	IEEE TENCON Technologies for Smart NationInternational Region 10 Conference 2016 IEEE, 2016 Singapore	22-25 Nov., 2016		
18	Dr Sanjay Tiwari	International Conference	International Conference on Innovations & Sustainable Development in Sciences, Management & Technology (ICI -SDSMT-2017	25-26 March, 2017		
19	Dr Sanjay Tiwari	National Conference	5 th BharatiyaVigyanSammelan 2017 "Confluence of traditional and modern scences, Fergussan College Pune	11th to 14th May 2017		
20	Dr Sanjay Tiwari	National Conference	BharatiyaVigyanSammelan 2017 "Confluence of traditional and modern scences",Pune	11th to 14th May 2017		
21	Dr Sanjay Tiwari	State Conference	BhartiyaShikshan Mandal	July 24,2016		

Collaborating Institute for M.Tech Project 2016-17

S.N	Name of Student	Title	Coordinating institute	Supervisor	Year
1.	Preetika Mishra	"Optical properties of lithium doped ZnO nanoparticles".	Institute of Physics, Bhu- baneshwar, Odissa, India	Dr. Satya prakash sahoo, Reader F, Physics department, Institute of physics, Bhubneshwar, odisha.	June 2016-2017
2.	Shikha Jha	Numerical study of "Inverse Compton scattering" through laser produced plasmas	Laser plasma section , Raja Ramanna centre for advanced technology , Indore ,(MP)	Dr. Ajit upadhyay, scientific officer-f, laser plasma section, RRCAT, Indore,(MP)	June 2016-2017
3.	Rupa Patel	Measurment of surface from error and surface profiles of optics for lasers and X-Rays.	Optical design and devel- opment laboratory, Raja Ramanna centre for ad- vanced technology, In- dore, (MP)	Shri M P. Kamath, scientific offi- cer-G and head, ODDL, Advanced laser and optics division, RRCAT, Indore,(MP)	June 2016-2017
4.	Ankita Tiwari	Growth of silver nanostructured LB films for surface enhanced raman spectroscopyof semiconductor nanostructure.	Laser physics application section, Raja Ramanna centre for advanced tech- nology, Indore, (MP)	Dr. Alka A. Angle, scientific offi- cer-H, Laser physics application section, RRCAT, Indore,(MP)	June 2016-2017
5.	Ritu Verma	Structural and dielectric properties of (x) BiFeO3-(1-x) BaTio3 solid solution.	Synchronization utiliza- tion section, Raja Ra- manna centre for ad- vanced technology, In- dore, (MP)	Dr. Archana sagdeo, scientific officer-E,SUS,INDUS-2, Raja Ramanna centre for advanced technology, Indore,(MP)	June 2016-2017
6.	Sonal Chandra- kar	Studies on structural and opti- cal properties of Nickel oxide thin films.	Synchronization utiliza- tion section, Raja Ra- manna centre for ad- vanced technology, In- dore, (MP)	Dr. Shreyashkar Dev singh, scientific officer-F,SUS, Raja Ramanna centre for advanced technology, Indore,(MP)	June 2016-2017
7.	Seema Verma	Synthesis and characterization of Tio2 doped carbon aero gels.	Laser material section , Raja Ramanna centre for advanced technology , Indore ,(MP)	Dr. D. K. Kohli, scientific officer- G,LMS, Raja Ramanna centre for advanced technology, Indore, (MP)	June 2016-2017
8.	Manisha Ratre	The influence of early transition metals on the structural and mechanical properties of FeCo(ETM) B ALLOYS; ETM = Nb,Zr,Mo	Synchronization utiliza- tion section, Raja Ra- manna centre for ad- vanced technology, In- dore,(MP)	Dr. Pooja Gupta ,Assistant professor HBNI scientific officer-E,SUS, Raja Ramanna centre for advanced technology , Indore ,(MP	June 2016-2017
9.	Sarbhjot Kaur	Study of transport characteris- tics and optoelectronics prop- erties of reduced graphene oxide	CSIR- National physical laboratory, New Delhi	Dr S.P.Khanna, principal scientist CSIR- National physical labora- tory, New Delhi	June 2016-2017
10.	Veena Diyawar	Study of interface properties in LaAlO3/SrTiO3 het- erostructures prepared by pulsed laser deposition	CSIR- National physical laboratory, New Delhi	Dr. Anjana Dogra ,senior scientist,CSIR- National physical laboratory, New Delhi	June 2016-2017
11.	Dharmendra Kumar	Structural and optical characterization of (GAxCr1-x) 2O3 (O <x<0.45) (alxcr1-x)="" (o<x<1)="" 2o3="" and="" method.<="" reaction="" solid="" state="" synthesized="" td="" using=""><td>SUS, Raja Ramanna centre for advanced technology , Indore ,(MP)</td><td>Dr. Ravindra jangir, scientific officer-E, SUS, Raja Ramanna centre for advanced technology, Indore, (MP)</td><td>June 2016-2017</td></x<0.45)>	SUS, Raja Ramanna centre for advanced technology , Indore ,(MP)	Dr. Ravindra jangir, scientific officer-E, SUS, Raja Ramanna centre for advanced technology, Indore, (MP)	June 2016-2017
12.	Rahul Kumar Thakur	Synthesis and characterization of transition metal based oxides.	SUS, Raja Ramanna centre for advanced technology , Indore ,(MP)	Dr. A. K. Sinha,SUS, Raja Ra- manna centre for advanced tech- nology, Indore,(MP)	June 2016-2017
13.	Udit Kumar Dewangan	Soft X-ray harmonics analysis using multilayer technique.	SUS, Raja Ramanna centre for advanced technology , Indore ,(MP)	Dr. M. H. Modi, SUS, Raja Ra- manna centre for advanced tech- nology, Indore,(MP)	
14.	Dishi Purohit	Investigation of magnetic domain and local structure of Mgo/co/Mgo trilayer.	INDUS synchrotrons utilization division, Raja Ramanna centre for ad- vanced technology, In- dore, (MP	Dr. parasmani rajput, scientific officer, A&MPD, BARC, Mum- bai.Raja Ramanna centre for ad- vanced technology, Indore,(MP)	

BOOK PUBLISHED

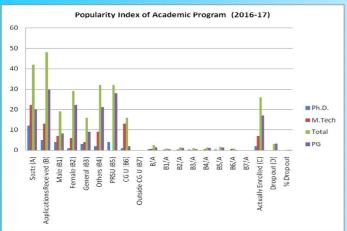
Dr. Kavita Thakur

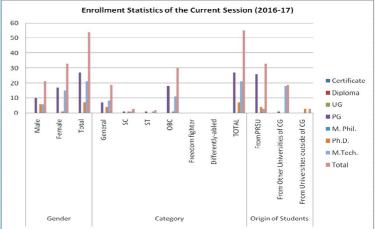
S.	Author	Title	Publisher	Year	ISBN No.
No.					
01	Prafulla Vyas and Kavita Thakur	Electronic Instruments for studying the atmospheric effect over PV Cell	LAP LAMBERT Academic Publishing, Omni Scriptum GmbH & Co. KG, Germany	October 2016	ISBN-978-3-659 -83378-6, Pub- lished on 31-10- 2016
02	Vikrant Singh Tha- kur, Kavita Thakur, Shubhrata Gupta	Advances in Circuit Systems, Signal Processing and Communications (Recent Advances in Electrical Engineering Series- 59) Book Chapter: A Novel Type-2 Fuzzy Directed Hybrid Post Filtering Technique for efficient JPEG Image Artifact Reduction.	WSEAS Press, www.wseas.org, Barcelona, Spain.	February 2016	ISBN: 978-1-61804-365, ISSN: 1790-5117, pp 125-134, February 13-15, 2016

Dr. Sanjay Tiwari

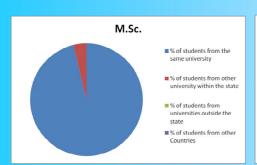
S. No.	Author	Title	Publisher	Year	ISBN No.
01	Sanjay Tiwari, J. V. Yakhmi Sue Carter J. Campbell Scott	Optimization of Bulk hetero- junction Organic Photovoltaic Devices:	Design and Devices Physics Handbook of Ecomaterials, edited by Leticia Myriam Torres Martinez, Oxana Vasilievna kharissova and Boris Ildusovich Kharisov, Springer Nature, 2017-10-12 Springer International Publishing	2017	978-3-319-68254-9 Print + eBook ISBN 978-3-319- 68256-3
02	Sanjay Tiwari, Ti- wari, J. V. Yakhmi Sue Carter J. Campbell Scott	Advances in Polymer-Based Photovoltaic Cells: Review of Pioneering Materials, Design, and Device Physics	Handbook of Ecomaterials. Springer, Cham Ed Leticia Myriam Torres Martínez Oxana Vasilievna Kharissova Boris Ildusovich Kharisov	2017	978-3-319-68254-9 Print + eBook ISBN 978-3-319-68256-3
03	M Patel, S.Sahu, A.K. Verma ,P. Agnihotri,surya Praksh Singh ,Ramanuj Narayan and Sanjay Tiwari	Quantum Dot as Light Harvester Nanocrystals for solar cell Ap- plications, quantum Dot as Light Harvester Nanocrystals for So- lar cell Applications	Materials Research Forum LLC (http://www.mrforum.com) International Publishers in science & Engineering, USA) special Volume on: Recent Advances in Photovoltaic" under 'Materials Research Foundation series'.2017	2017	978-1-945291-36-4
04	Pooja Agnihotri,M. Patel ,A. Verma,S.Sa hu,Sandeep Pathak and Sanjay Tiwari	Advancement in Simulation & modelling of Organic Solar Cells	Materials Research Forum LLC (http://www.mrforum.com) International Publishers in science & Engineering, USA) special Volume on: Recent Advances in Photovoltaic" under 'Materials Research Foundation series'.2017	2017	978-1-945291-36-4
05	A.K. Verma, M. Patel, S.Sahu, P Agnihotri & S Ti- wari	Recent Advance in Polymer Solar cells	Materials Research Forum LLC (http://www.mrforum.com) International Publishers in science & Engineering, USA) special Volume on: Recent Advances in Photovoltaic" under 'Materials Research Foundation series'.2017	2017	978-1-945291-36-4
06	Rashmi Swami, Sanjay Tiwari	Status and Potential of Organic Solar Cells	Special Volume on "Recent Advances in Photovoltaic" under Materials Research Foundations Volume 17.2017	2017	978-1-945291-36-4
07	Rashmi Swami, R Awasthy, Sanjay Tiwari	Fill factor analysis of organic solar cell	Special Volume on "Recent Advances in Photovoltaic" under Materials Research Foundations Volume 17.2017	2017	978-1-945291-36-4
08	Rashmi Swami, Sanjay Tiwari	Efficiency rise in PCDTBT:PC70BM organic solar cell using interface additive	Special Volume on "Recent Advances in Photovoltaic" under Materials Research Foundations Volume 17.2017	2017	978-1-945291-36-4

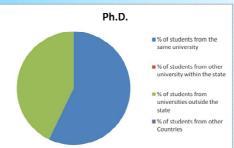
Popularity Index & Enrollment Statistics of the Current Session (2016-17)

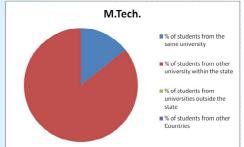




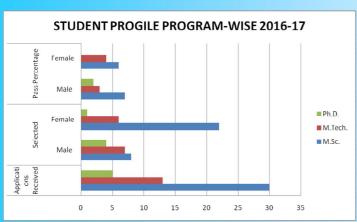
DIVERSITY OF STUDENTS

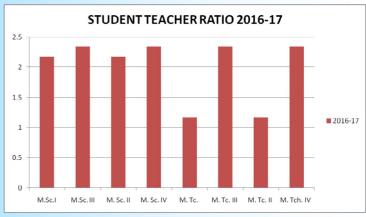




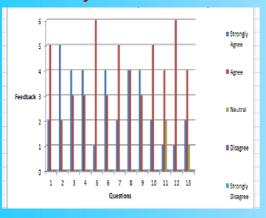


STUDENT PROFILE PROGRAM - WISE & STUDENT TEACHER RATIO

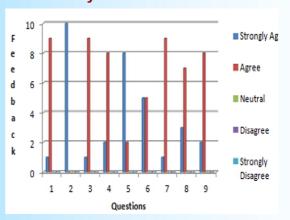




Parents Feedback M. Tech. July 2016-Dec 2017



Alumni Feedback M. Tech. July 2016-Dec 2017



M.Sc Project 2016-17

S. No.	Name of students	Name of Projects
1.	Sameer Kumar	Voice Recognized Home Appliance Control
	Rupali Verma	
2.	Chuneshwar	Wireless Based Light Control System
	Khilendra Kumar Sahu	
3.	Bhawna Dewanga	Audio Amplifier
	Shalinee Verma	
4.	Manish Sahu	IR Ray Based Home Appliance Control System
	Siddharth Sharma	
5.	Hemlata	Digital Code Lock
	Laxmi Dewangan	
6.	Nandini Netam	Transistor Tester Using IC-4093
7.	Dipika Tiwari	Password Based Door Lock System
8.	Chitern Kumar	Uni-direction People counter
	Parmeshwar	

List of Alumni

List of noteworthy alumni in S.O.S in electronics & photonics they are Researcher employee at VU Amsterdam, Scientific Officer, RRCAT Indore, Assistant Professor, DIMAT, Raipur, TTA, BSNL, Raipur, Forest Department, Raipur, PO in Indian Overseas Bank, Network Engineer, Data Craft India Limited, Section Engineer Telecom SECR in DURG, RRB Technician (Electrical), Chennai, Service engineer at Laser service private limited, R & D Engineer at Karee Lightning, Executive, watch News Channel, Data manager in IDHB, Sale Tax officer, Assistant Professor, DIMAT, Raipur, works at FESTO, Assistant manager, Union Bank

Doctorate

S. No.	Name of Candidate	Supervisor/ Co supervisor	Title	Date of Award
01	Dr. Shubhra Mishra	Co Supervisor Dr Sanjay Tiwari	Characterization and Luminescent studies of SrS: Ce3+, SrS: Dy3+ Phosphor and Srs: Ce3+. Thin films"	20.03.2017

Ph. D. Scholar



Sunandan Mandal PhD Scholar

I am working in the field based on Machine learning approaches for Electroencephalogram (EEG) based Brain Computer Interface (BCI), its applications in cognitive state classification. Cognitive state classification is a grown up field of science and technology. Imagined speech recognition, epileptic seizure detection, motor imagery, mental arithmetic task and emotional state recognition are some region of cognitive state recognition. The primary goal of the research in the field cognitive state classification is to help to improve quality of

life the people with speaking disability like amyotrophic lateral sclerosis (ALS), locked in syndrome (LIS), paralysis, laryngectomy, epileptic seizer and psychic disease related patient. Related research work is not sufficient and still improvement requires in diagnosis and treatment process of such diseases.



PhD Scholar

The main Research area of photonics Research Laboratory (PRL), Pt. Ravishankar Shukla University Raipur, CG is to enhance the solar energy via low cost material like Organic Dye; Quantum dot and pervoskite materials.

My Research interests include Simulation, Fabrication and characterizations of Organic Anil Kumar Verma Photovoltaic cells.

Organic Photovoltaic cells are the third generation of solar cells technology. It is a new solar cell technology that includes light weight technology, flexible, large area, low cost etc. So, we can fabricate solar cell on Plastic. Glass substrate.

Various Events



Annual Fest 15-16 February 2016

Sports generally include physical activity and maintain our physical ability, students of M.sc and M tech participated in annual fest in cricket competition held in 15-16 February 2016 Physical education departments, PTRSU, Raipur.



Embedded system workshop 15th & 16th Feb 2017.

Students of M.sc and M tech participating in designing embedded systems for the new era of computing as this course is totally focused on giving us real coding experience and also done the hands on project work in S.O.S. in electronics & photonics department.





weeping leaves & dust in 29th July Saturday 2017

Green campus was initiated by the M.sc and M tech student's coordinators to make their campus more meliorate and friendly environment, as a part of this program students planted trees in the campus and also remove some unwanted plastics and waste material from the campus.

PHOTO GALLERY



Field Visit to ALL INDIA RADIO (27 January 2017)

On 27th of January, the students of MSc. and M. Tech., got a wonderful opportunity to observe real time working of the broadcasting process taking place at "All India Radio". Total 22 students along with 2 faculty members had been to this field visit.



Two Days Workshop on EMBEDDED SYSTEM'17

Two Days workshop on "Embedded System Design and Hands on Practice" was organized by Electronics & Photonics and Computer Science & IT department of Pt. Ravishankar Shukla University, Raipur in collaboration with IndEyes Infotech Pvt. Ltd, Delhi on 15-16 Feb 2017 in the university campus.



NATIONAL LEVEL ARDUINO WORKSHOP CUM TRAINING

A three days "National level ARDUINO workshop cum training" was organized from 21st to 23rd September, 2017 in the joint venture of School of Studies in Electronics and Photonics of Pt. Ravishankar Shukla University, Raipur and Indeyes Infotech PVT. LTD. New Delhi.



National workshop on Signal Processing, sustainable Energy Material and Astronomy & Astrophysics (NASSEMA 17)

The conference provides, both for researchers and developers, an engaging forum to exchange ideas and propel and new developments in this fields. The conference facilitated a fantastic opportunity to network with like - minded professional from around the country.

FACILITIES

Infrastructure

Spacious Classrooms	06– Classrooms
ICT facilities	01– Permanent 01– Portable
Student's Laboratories	01– Student Lab 01– Student Lab cum Research Lab 01– Student Lab cum Class Room 01– Computer Lab
Research Laboratories	01- Student Lab cum research Lab
Internet Facilities	Whole campus is covered with Wi-fi facilities

Lab facilities of Department

- Analog and Digital Lab.
- Opto-Electronics and Microwave Lab.
- Analog and Digital Communication Lab.
- Microprocessor, Microcontroller & VLSI Design Kit Lab.
- Advanced Optical Communication Lab.
- Virtual Instrumentation Lab (LabView).
- Advanced computing through MATLAB
 2007 (a) and its Toolboxes.



ROBOTICS LAB











FUTURE PLAN

- Campus and Placement Cell for M.Sc. and M. Tech.
- Integrated M. Sc.
- More equipment in lab with proper space.
- M. Sc. by research
- Clean lab.



Head of Department

School of Studies in Electronics and Photonics
Pt. Ravishankar Shukla University
Amanaka G.E. Road, Raipur (Chhattisgarh) India - 492010



Print to PDF without this message by purchasing novaPDF (http://www.novapdf.com/)