Osmania University

Departmental Information for uploading in the website

Name of the Department: PHYSICS

Name of the college: University College of Science, OU, Hyderabad.

MENU

1. About Department: 1-2 pages information. Departmental Brochure (to view on click)[Annexure I]

2. Programme offered: UG/PG/PhD/others(i) PhD (ii) PG (iii) Post M. Sc., Diploma

	() ()			
Name of the	(i) PG (M.Sc) with specializations			
Programme	(ii) Research Degree (PhD)			
	(iii) Post M.Sc. Diploma in Radiological Physics			
Duration	(i) Two-years (ii) FT- 4 years; PT – 5 years (iii) one –year			
Seats sanctioned	(ii) 120 (iii) 30			
Fee	As per the Govt. rules			
Eligibility	(i) B.S., CPGATE- Entrance examination rank			
	(ii) M.Sc., (Physics), CSIR/SLET/OU Entrance examination rank			
	(ii) M.Sc(Physics), University entrance (PG diploma) rank			
CO/PO/PSO/PEO	Link			

^{*}One table for each programme offered. Provide Outcomes separately even if they are part of syllabi to upload and get the link. [Annexure I]

3. Faculty & Staff

Name of the Faculty		Telephone No/s	E-mail	CV
Head of the Departmer	nt			
Prof. M. Srinivas		9908366857	msrinivas.ou@gmail.com	(to view on click)
Chairperson, BOS				
Sr. Prof. D. KarunaSaga CBOS-Physics	r	9866145020	dasariks@osmania.ac.in	
Prof. M. Prasad CBOS-Electronics		9866357996	prasad5336@yahoo.co.in	
Professor (Emeritus)				
Professor				
Prof. Md. Shareefuddin		9866589030	shareef1775@gmail.com	
Associate Professor				
Dr. B. Ravindra Reddy	984	9671840	ravinderbutreddt@yahoo.com	
Dr. N.V. Prasad	9849553669		nvp_phy@osmania.ac.in	
Dr. V Nathanial		9705861	nvasarla@yahoo.com	
Dr. M. Sreenath		9936509	marrisr@gmail.com	
Reddy	701	7700007	marrist e griantooni	
Dr. G. Upender	901	0726691	upenderb4u@yahoo.co.in	
Dr. Y.Kalyana Lakshmi		8244664	kalyaniyanapu@gmail.com	
2.1 Thaifalla Earoilli	500	2_11007	yaniyanapa e yinamooni	
Assistant Professor				
Dr. P. HimaBindu 960		3120775	hb.pitta@osmania.ac.in	
Dr. D. Aparna	9346939524		aparna2000@yahoo.com	
Dr. D. Madhuri	9502741727			
Dr. D. Sreenivasu	9849671840		drsriacharya@gmail.com	
Dr. K. Kirana	996	6017561	kiranakommuri@gmail.com	
Part-time Faculty				
rait-tillie faculty	_			
-	-		<u> </u> -	_

Non-Teaching Staff List with Contact No.

SI. No.	Name	Designation	Contact No.
1	Mr. K. Ramesh	Lab-Supervisor	9441292552
2	Mr. G. Ravi Prasad	Senior Assistant	8790077064
3	Ms. B. Bramarambha Devi (c)	Library Assistant	9032716627
4	Mr. MohdAslam	Lab- Assistant	8977862878
5	Mr. AftabeAlam	Lab- Assistant	9393531933
6	Mr. K. S. NagarajaRao	Lab- Assistant	7989393824
7	Ms. E. Hemalatha	Lab- Assistant	9395161062
8	Mr. A. Umesh	Lab- Assistant	9849999874
9	Mr. K. Laxmaiah (c)	Lab- Assistant	9705382267
10	Mr. J. Maruthi (c)	Technical Assistant	9248829946
11	Ms. G. Beena Devi (c)	Data Entry Operator	9390965906
12	Mr. A. Lakshmi Deepak (c)	Store Keeper-cum- Care Taker	9652526379
13	Ms. K. Kalavathi	Lab-Attendant	9515900913
14	Ms. P. Umavathi	Lab-Attendant	9912068728
15	Mr. Abdul Kareem	Lab-Attendant	9133725713
16	Mr. Mohd. Yakub Ali	Lab-Attendant	9849295710
17	Mr. ShaikAmjad	Lab-Attendant	9912150155
18	Ms. T. Aruna	Lab-Attendant	6301803003
19	Mr. G. Rajender Prasad	Lab-Attendant	9618149483
20	Mr. D. Ranjith	Lab-Attendant	9441018776
21	Mr. B. RamuluNaik	Lab-Attendant	9908115187
22	Mr. C.M. Sravan Kumar (c)	Lab-Attendant	8309504543
23	Mr. L. Nagaraju (c)	Lab-Attendant	8096035539
24	Mr. P. Budaiah (c)	Watchman- cum- Office Subordinate	9010425913
25	Ms. U. Vimala (c)	Malan-cum- Office Subordinate	9618028535
26	Mr. U. Vittal (c)	Mali	9618028535
27	Ms. M.D. RuksanaBegam (c)	Kamatan	9885499240
28	Ms. S. Indira (c)	Kamatan	9177601214

I. List of well-established laboratories / classrooms / other facilities

S.No.	Laboratory/Classroom/ot	Room no	For what it is	Accommoda	Dimensions
	her rooms	allotted	used	tion	
				Capacity	
1	Number of class rooms for	Room 23	MSc –I-Sec- A	150	1590 SFT
	M.Sc. students	Room 81	MSc –I-Sec- B	70	672 SFT
		Room 53	MSc-II-SSP	30	90 SFT
		Room 80	MSc-II-App. Ele.	25	300 SFT
		Room 25	MSc-II-Gen Pap.	200	2460 SFT
		Room 79-A	MSc -II-Mat.Sci	25	360 SFT
		Room 21	MSc-II-Nano-Sci	25	336 SFT
	No. of class rooms for Post				
2	MSc diploma course	Room 79-B	Post-MSc	30	
			Diploma		620 SFT
3	M.Sc. Laboratories				
	MSc-I Year	Room 17	MSc-I year	20	600 SFT
	Optics Lab-1	Room 18	MSc-I Year	20	380 SFT
	Optics Lab -2	Room 14	MSc-I year	20	600 SFT
	Heat&Acoustic Lab-1	Room 15	MSc-I Year	20	380 SFT
	Heat &Acoustic Lab-1	KOOIII 13	IVISC-1 TCal	20	300 31 1
	Electronics Lab-1	Room 79 C	MSc-I year	20	620 SFT
	Electronics Lab 7	Room 79 D	MSc-I Year	20	220 SFT
	Computer Lab	Room 79 E	MSc-I year	20	630 SFT
	MSc- II Year Lab	ROOM 77 L	Wisc-i year	20	030 31 1
	SSP-Lab-1	Room 56	MSc-II year	15	600 SFT
	SSP-Lab-2	Room 52	MSc-II Year	15	400 SFT
	Material Science Lab-	Room 55	MSc-II year	15	600 SFT
	E & I Lab	Room 79 F	MSc-II year	20	600 SFT
	Nano Science Lab	Room 13	MSc-II Year	20	360 SFT
	Applied Electronics Lab	Room 80	MSc-II year	15	320 SFT
	VHDL Lab	Room 66	MSc-II year	15	650 SFT
	Gen Labs		-		
	Modern Physics Lab	Room 57	MSc-II year	20	600 SFT
	Nuclear Physics Lab	Room 50	MSc-II year	20	600 SFT
	Post MSc Dinloma Lah	Room 50	Post-MSc	30	600 SFT
	Post-MSc Diploma Lab	KUUIII 3U	Diploma	30	000 311
			וווטווקוע		
4	Staff rooms with desks,	16	-	-	-
	computers, cupboards &				
	Lockers				
5	Faculty developed	16	-		-
	Research Laboratories				
6	Departmental Research	4	-		-
	Labs, Department Facility				
7	Computer networking Lab	1	_		-
8	Non-teaching staff rooms	3	-		-
9	Ladies Rest room	3	-	_	-
1	Laules Nest 100111	_ J		<u> </u>	J -

Broad band high speed Internet available with Wi-Fi facility for all staff and students

S.No.	Name of the	Make and model	Funding	Used by
	instrument		agency	
1	XRD	Philip Xpert	UGC-SAP	Research
2	SEM	Carl Zeiss	DST-FIST	students
3	IR-spectrometer	Schmidzu	DST-FIST	Research Labs
4	Density-setup	Vibra	DST-FIST	

III. ICT facilities

S.No.	Name of the ICT facility	Available in room	Purpose
		no.	
1	Smart board, e-class room	Room 25	e-based learning
2	Smart board, e-class room	Room 81	e-based learning
3	Smart board, e-class room	Seminar room	e-based learning

IV. Any Other Facilities (Central Facility For Research and Development)

PLD, XPS, FCCS (procured –UGC UPE- CFRD)

FTIR

UV VISIBLE Spectrophotometer (DST-FIST)

DSC/TG/DTA (DST-FIST)

RAMAN SPECTROMETER (M.Sc Nano Science-DST)

PARTICLER ANALYZER (DST)

SEM (DST-FIST)

SPUTTERING UNIT (UGC SAP)

VSM(DST)

MAGNETRON SPUTTERING UNIT (UGC-SAP)

SPIN COATING UNIT (UGC-SAP)





XPS PLD

Name of PI	Title of project and duration in Years	Project No Date of start	Amount sanctioned (Rs. Lakhs	Funding Agency
Prof. M. Srinivas	Tailoring of materials for luminescence emission in UV-region with improved quantum efficiencies for RGB (2014-2018)	EMEQ/472/ 2014 17 July 2014 16 July 2018	24,88,320/-	DST-SERB (Major Project
Dr. M.V. Ramana Reddy (Rtd.)	Development of Novel Core-Shell Nanostructured gas Sensor for room Temperature Ammonia Sensing (2018-2021)	EMR/2017/002651, 19 March 2018 18 March 2021	42,53,480/-	DST-SERB (Major Project)
Dr.Ch.Gopal Reddy (Rtd.)	Study on Environmental radioactivity levels in areas of Nalgonda District, Telangana State, India (2017-2020) Low Temperature and High Magnetic field 57 Fe Mossbauer and Elactrical studies of ano-sized multiferroic hexafrrites (2018-2021	AERB/CSRP/60/14/2015 12 May 2015 11 May 2018 19-04- 2018 18-04-2020	33,62,070/- 7,00,000/-	AERB
Dr. Ch. Sameera Devi	DST Women Scientist (2017-2020)	SR/WOS-A/PM-60/2016	22,30,000/	DST
Prof. M. Srinivas	Development of Rare- earth Free Nano phosphors and Fabrication of PhosphorConverted Cool-White LED Device (2022-25)	EEQ/2021/000329 21 Feb 2022	47,99,657/-	DST-SERB (Major Project)
Dr. N.V Prasad	Development of Multiferroic tapes for Sensing and Energy Harvesting Applications (2021-Oct 2024)	ARDB/2004 20 Nov 2021	15,71570/-	ARDB-DRDO
Dr.M.Sreenath Reddy	Soft X-ray absorption spectroscopy and XMCD study of hexa ferrite thin films (2021-24)	CSR-IC-ISUM-50/CRS- 333/ 2020-21/791 04 th March 2021	6, 39,000/-	UGC-DAE CSIR
Faculty – Project under sanctioned UPE-FAR	DST-PURSE UGC-UPE-FAR-OU, F 14- 5/2012 (NS/PE) Individual faculty research support received	2017-2022	32, 00,000/-	DST-PURSE &UGC-UPE- FAR
Dr. G. Upender	Development of P-n junction hetrostructure for phtocatalysis and gas sensing applications	SUR/2022/003708 2023-2026	25,00000/-	DST-SERB- SURE

6. Research Scholars : Working in this academic year

S.	Name of the	Name of the PhD	Date of	Availing	Research topic
No	Supervisor/Co-	Scholar	registration	fellowshi	. togodi on topio
	supervisor	Full time/ Part	Registration	p	
		time	No.	Funding	
				agency	
1	Prof. D. KarunaSagar	M.Venkateswarku	20.9.2018-PT	-	Optics-Modeling
		Vijayashanthi	19.12.19-FT	UGC-JRF	
		SaikRaziya	13.12.19-FT	CSIR-JRF	
		G. Neetha	2023-		
2	Prof. M. Srinivas	A. Trinath	30.3.2021-FT	CSIR-JRF	Luminescence
		R. Prem Kumar	2.12.2022-FT	-	
		Vemkat Rami	20.12.22-PT	-	
		Reddy			
		S. Venkateswarlu	2023	SERB-PF	
		PuttaShekar	2023-FT	-	
		S. Shankar Rao	2023-PT		
		M. SrinivasaRao	20.10.23-PT		
		P. Srinivas	20.10.23-PT		
3	Prof. M. Prasad	J. Thirupathi	2.9.2018-PT	-	
		M. Shruthi	2023		Glass materials
		T. Naresh	2023		
		A. Sridhar	28.11.22-FT		
		D. Bala Ganesh	28.11.22-FT		
		E. Raju	9.10.23-PT		
4.	Prof. J. LaxmanNayak	P. Ramesh	14.9.2018-PT		Ferrites
		U. Dasharatha	18.9.2018-PT		
		B. Naresh	16.7.2019-FT		
		G. Vinod	20.11.18-FT		
		G. Harikrishna	30.3.21-FT		
		Masood Ahmed	28.3.17-FT		
		N. Anitha	2023		
5	Prof. Md. Shareefuddin	T. Satyanarayana	6.9.2018-FT		Glasses
		T. Kurumurthy	12.9.2018-FT		
		B. Srikanth Chary	19.3.19-FT		
		A. Bala Krishna	12.12.19-FT		
6	Dr. B. Ravinder Reddy	K. Sudhakar	23.12.22-PT		Ferrites
		M. Santosh	13.10.23-PT		
	Dr. Ch. Srinivas	K. Sudhakar	5.9.18—PT		Polymers
		M.Sarvar	2023		
		V. Srinivas	13.12.22-PT		
_	5 N.N. 1 :	D. Mahendar	16.10.23		
7	Dr. N. Narsimlu	B. Ravi Kumar	2023		Polymer, glass
8	Dr. N.V. Prasad	T. Susneha	6.9.2018-PT	-	Electro-ceramics
		V. Venkatesh	19.9.18-PT	-	
		V. Veena Chary	19.3.19-FT	CSIR/JRF	
		AfreenSulthana	20.9.18-PT	-	
9	Dr. M. Sreenath Reddy	M. Srinivas Reddy	20.9.2018-PT		Radiation Physics
		Y. Sreedhar	28.9.2018-PT		, Ferrites
		V. Nagender	12.12.19-FT		
4 -	5 7/ 11	B. Srikanth	26.3.21-FT		
10	Dr. V. Nathanial	P. Rani	27.9.18-FT		Ferrites
		E. Jyothirmai	20.9.18-FT		
1		K. Venuprasad	18.3.21-FT		

		J. Pandari	27.9.18-FT		
11	Dr. G. Upender	D. Madhu	28.9.2018-PT	-	
	·	K Ramesh	16.12.19-FT	UGC-JRF	Glasses
		A. Siddiqua	16.10.23-FT	DST-	semiconductors
				Inspire	
12	Dr. Y. Kalyana Lakshmi	K. Ramya	24.9.18-FT		Ferroics
		K. Rama Krishna	17.12.22-PT		
13	Dr. P. HimaBindu	B. Ajay Kumar	22.10.18-PT		Bio-materials
		B.DevenderReddy	2023		glasses
14	Dr. S. Narendrababu	KundanKour	10.9.18-PT	-	Ferroic and
					polymers
15	Dr. K. Sadhana	M. Suresh	16.7.19-FT		Ferrites
		V.RaghavendraRao	19.10.23-FT		
		Kolluru			
16	Dr. D. Aparna	G. Srikanth	2022		Glasses
		Sandhya Rani	2023		
17	Dr. D. Madhuri	Vijay Kumar	15.12.22		Polymers
		Samatha	2023		
		T. Thejaswini	16.10.23		
18	Dr. D. Sreenivasu		2023		Glasses and
		SomireddyBhavani	2023		ferrites
		M. Mukteshwar			
19	Dr. Kaleem Ahmed	J Sumathi	23.10.18-FT		Bio-materials
	Jaleeli				

7. Alumni Alumni members (Batchwise if possible)

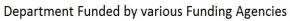
S. No.	Programm e name	Batch	Name and Photo (if possible)	Current affiliation/	Official address	Permanent Address Contact E-mail
	(UG/PG/Ph D/ others)		(designation		
1	PG	1990	Dr. D. Sreenivasu	Professor	OU	drsriacharya@gmail.com
2	PG	1994	Dr. Ramdev	Professor	DRDO	vasu72@gmail.com
3	PG	1996	Dr. K. Srinivas	Scientist-F	DRDO	<u>-</u> <u>vasu72#gmail.com</u>

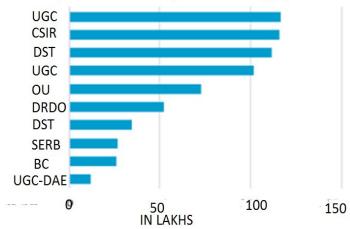
8. Gold medals for students in the department (FIVE)

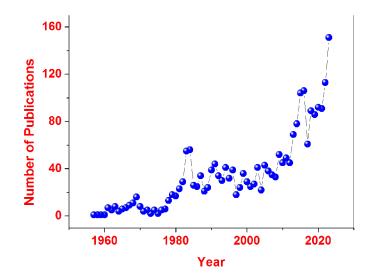
	year	Name of the Awardee	Hall ticket No.	Name of
Name of the medal		with fathers Name	Month &year	the college
1. Prof. N. RajeshwarRao	2018	Shazia Bader	100716509306	UCS, OU
Memorial Gold Medal		MdBadruddin	June, 2018	
	2019	KuchibhotlaMahathi	100717509205	UCS, OU
-For securing highest marks in all		D/O K. Naga Mohan	June 2019	
semesters		Kumar		
	2020	Saba Arsheen	100718509314	UCS, OU
		D/O Mohdllyas	Nov 2020	
	2021	Tahreem Begum	101119509007	UCS,
		D/O MdJaffar Ali	July 2021	Saifabad
	2022	Ayesha Siddiqua	100720509213	UCS, OU
		D/O ShaikFeroz	Oct 2022	
2. Dr. SistlaSubramanyam and	2018	Sarwath Sara	100716509205	UCS, OU
SistlaYasoda Gold Medal		D/O Md. Abdul Aleem	Jume 2018	
	2019	KottiaakhilaPriya	105317509002	AV
-For highest marks in all the		D/O KY Krishna Rao	June 2019	College, OU
special papers	2020	Sidra Fatima	101318509001	Univ.
		D/O Md. IlyaMeral	Nov 2020	College for
				Women,
				Koti
	2021	Mauram Ravalli	100719509313	UCS, OU
		D/OM. Ganesh	July 2021	
	2022	Ayesha Siddiqua	100720509213	UCS, OU
		D/O ShaikFeroz	Oct 2022	2 2 3 , 2 2
3. Prof. N. RajeshwarRao	2018	Shazia Bader	100716509306	UCS, OU
Memorial Gold Medal		MdBadruddin	June, 2018	2 2 3 , 2 2
	2019	KuchibhotlaMahathi	100717509205	UCS, OU
-For securing highest marks in all		D/O K. Naga Mohan	June 2019	
semesters		Kumar		
	2020	Saba Arsheen	100718509314	UCS, OU
		D/O Mohdllyas	Nov 2020	
	2021	Tahreem Begum	101119509007	UCS,
		D/O MdJaffar Ali	July 2021	Saifabad
	2022	Ayesha Siddiqua	100720509213	UCS, OU
		D/O ShaikFeroz	Oct 2022	.,
4. Y. PurandarHonarary Gold	2018	Sarwath Sara	100716509205	UCS, OU
Medal		D/O Md. Abdul Aleem	June 2018	,
	2019	ManchikantiShruthi	116517509003	Vasundara
For securing highest marks close		D/O M Ashok Kumar	June 2019	PG college
to first rank	2020	KeerthiRoja	105318509004	A.V.
		D/O KeerthiSomesh	Nov 2020	College
	2021	MasuramRavali	100719509313	UCS, OU
		D/O M Ganesh	July 2021	
	2022	AmanpreetKaur	108920509021	G. Pulla
		D/O Jaspal Singh	Oct 2022	Reddy PG
				college
	1		1	Jonege

9. Milestones of the Department (since inception):

year	Achievements
2002-2007	UGC-DSA Phase-I, UGC-BSR, FIST-DST
2008-2013	UGC-DSA Phase-II
2008-2009	Introduced MSc Nano-Science
2009-2010	Introduced Post-MSc Diploma
2013-2018	UGC-UPE -FAR







10. Contact Us

Head of the Department	Chairperson, BoS (Physics)	Chairperson, BoS (Electronics)
Prof. M. Srinivas	Sr. Prof. D. KarunaSagar	Prof. M. Prasad
Department of Physics	Department of Physics	Department of Physics
University College of Science	University College of Science	University College of Science
Osmania University	Osmania University	Osmania University
Hyderabad -07	Hyderabad -07	Hyderabad -07
Telephone: 9908366857	Telephone: 9866145020	Telephone: 9866357996
E-mail:	E-mail	E-mail
msrinivas.ou@gmail.com	dasariks@osmania.ac.in	prasad5336@yahoo.co.in

RELATED LINKS

11. Notice Boards: General notices / Departmental Circulars / Notifications

S.No.	Date	Title with dates of the events
1	Feb' 2018	Science day Celebrations
2	June2020	Alumini meeting
3	May2022	National Conference on Recent Advances in Nano-materials
4	April 2024	UG-Teachers meeting

12. Activities

S.No.	Date	Celebrations/ Monthly reports / Student activities etc.
1	Feb 2018	National Science Day
2	Mar 2019	Education Tour
3	Feb 23	National Science Day
4	April 2024	University open day

13. Annual reports

1	Annual Report 2017-18	PDF
2	Annual Report 2018-19	PDF
3	Annual Report 2019-20	PDF
4	Annual Report 2020-21	PDF
5	Annual Report 2021-22	PDF
6	Annual Report 2022-23	PDF

^{*}Submit PDF for uploading to get website link

14. Approved publishers

List of publishers (Publishers of books in library/seminars)

S.No.	Publisher	Place	International/National
1	Narosa	Hyderabad	National
2	Chand	New Delhi	National
3	Tata-McGraw Hill	New Delhi	National
4	Springer	India	International

15. Attendance of the student

Semester-wise: Mid-Sem and End Sem Attendance of this academic year- Dept. display board

16. Syllabi and Scheme

Syllabi of all the Programmes and all the courses are displayed in the University web-site

17. Time table

Time tables of all the Programme's - semester-wise of this academic year (Displayed in notice board)

18. Student notices

Timetables, Notices, Guest lectures, Cultural, Festival circulars, Exams, Scholarships, Gold medals (Displayed in notice board)

- 19. Learning Resources: Faculty developed their topics taught-
- 20. Teaching Plans: A separate file is marinated at the Department Teaching plans for each module /unit /Chapter (hourly teaching distribution of the module)

Programme		Semester Course		Module	
S.No.	Topic			No. of hours	

^{*}A separate file is marinated at the Department

- 21. Committees
- I. Departmental committees-Academic/Administrative/Technical/ RDC/BoS-UG and PG
- II. Students-Departmental Committees-Cultural, Alumni, Placements, Student council members

III. Details of the Student Council

Academic Year:

S. No	Year and Semest er	Class	Name of the student with Roll No.	M/ F	Phone No.	E-mail
	2018-19	PG-II-Yr	Baskar G	М	7893074186	Bhaskar5051@gmail.com
	2019-20	PG-II-Yr	S. Navya	F	7995496341	Soma.navya96@gmail.com
	2020-21	PG-II-Yr	D.Satyavardhan	М	9398966351	Satya.physics77@gmail.co m
	2021-22	PG-II-Yr	K.Sravanthi	F	9059324723	<u>Sravanthikoppula1315@g</u> <u>mail.com</u>
	2022-23	PG-II-Yr	P.Pandari	М	9346652729	pandaripathlavath@gmail.c om
	2023-24	PG-II-Yr	N. Kalyankumar	М	9492286868	kalyankumarn.2@gmail.co <u>m</u>

22. Minutes of the meetings

"Minutes of the meetings "are available with the Department.

23. Seminars/Workshops/Guest Lectures

A separate photo-album and brochure available in the Department

24. Best Practices of the department

S.No.	Best Practice				
1	Name of the best practice: PPT, Modules, industrial visits				
	Year of practice: : 2010 – till date				
	Objectives: :To nurture students with skill oriented				
	Outcomes of the practice: Students got selected in National Labs for Research				
	Limitations: : Limited infrastructure				
	Is the practice continued: Yes				
2	Name of the best practice: Project based learning				
	Year of practice: : 2023				
	Objectives: To train the students in advanced research				
	Outcomes of the practice: Students got selected over-seas Fellowships (PhD)				
	Limitations: : Infrastructure				
	Is the practice continued: Yes				

Annexure I Department of Physics



About the Department

When Osmania University was established during 1918-1919 year, Physics was one of the first few science subjects that were introduced. In 1950, Professor SuriBhagavantham, a world renowned Physicist, initiated high quality research work both on theoretical and experimental aspects of Ultrasonic, Radio Astronomy, Cosmic rays and Spectroscopy. From then, the Department has grown enormously in strength and diversity and it has emerged as one of the centres of Excellence in Physics in the Country. The Department has four constituent colleges, out of which three constituent colleges offer both B.Sc. and M.Sc. courses with Physics as the main subject. The over-all intake of the students is about 175. Many of our faculty, research scholars and students have won number of prestigious awards such as Von Humbolt, DAAD, Boyscat, CV Raman, Telangana Science Acadamy, Best teachers Award (Govt. of Telanagana) etc.

Currently the Department of Physics, OU is offering M. Sc. (Physics & Applied Electronics) with following specializations:

- (a) Material Science (b) Solid State Physics (c) Electronics & Instrumentation(d) Nano Science
- (e) Astrophysics.

M.Sc. (Physics) offering at constituted colleges with following specializations:

- a) Bio-Physics at Nizam College, OU
- b) Electronics & Communication at Nizam College, OU
- c) Condensed Matter Physics at UCS, Saifabad, OU.

Multi-disciplinary Course offered-Post M. Sc. Diploma in Radiological Physics

The Department also has started a Post M. Sc. Diploma in Radiological Physics in collaboration with AERB from the academic year 2009-2010. This will be a multi-disciplinary course involving the expertise from the departments of Physics and Life Sciences, and Hospitals and Medical Research Centres. Several Radiological

Centres in the city, including MNJ Cancer Hospital and Regional Cancer Research Centre, KIMS, Omega Hospitals and Indo-American Cancer Institute have been collaborating with the Department to conduct the course, and to meet the requirements of radiological and nuclear medicine techniques. Further in view of the urgent need of human resources in the concerned areas, the AERB is interested in such a course to be started at OU keeping in mind the availability of subject experts in radiology and nuclear medicine in Hyderabad, to teach the course and for training.

Research activity at the Department of Physics:

The thrust area of the Department is Materials Science and Solid state physics. Following are the areas of research undertaken by various research groups in the Department.

- a) Ferrites and Nano material
- b) CMR Materials
- c) Ion conduction and polymer electrolytes:
- d) Display Materials:
- e) Glasses:
- f) Thin films and gas sensor materials
- g) Solid State Physics and Materials Science for over three decades.

Major Research Infrastructure Developed:

- 1. FTIR Bruker
- 2. UV-Vis Spectrophotometer Shimodzu
- 3. Scanning Electron Microscope (zeiss)
- 4. X-ray Diffractometer (Powder) Xpert Plus
- 5. Differential Scanning Colorimeter (DSC) Netzsch
- 6. Thermo gravimetric Analyzer (TGA)
- 7. Spectrofluorophotometer RF 6
- 9. Atomic Force Microscope (AFM) Shimodzu
- 10. RF Magnetron Sputtering Unit ENI, Pfizer
- 11. High Vacuum and UHV systems (Local)
- 12. Spin Coating Unit (Local)
- 13. High Temperature Vacuum Furnace
- 14. P-E Loop Tracer Marine India
- 15. Magnetic susceptibility

Research conducted

The Department was one of the earliest Departments in the county to promote research activity in the growth and characterization of single crystals. The research activity taken up by the Department on several aspects of crystal characterization, superconductivity, spectroscopy, high energy physics and X-ray diffraction earned national and international recognition. The Department published over 1700 research papers in seventy different national and international journals, having high impact index which led to the award of more than 260 Ph.D.'s from the Department. Department has produced Scientists of National/International calibre who have brought laurels to the Nation and Institution wherever they are.

For promotion of the academic activity and research in the identified thrust area i.e., Solid State Physics and Materials Science, UGC has been sanctioning funds continuously under SAP. The Department received a

grant of Rs.54.25 lakhs under UGC-DSA scheme for 5 years duration from 2002 – 2007. Further an amount of Rs 73.5 lakhs is sanctioned by UGC under DSA Phase-II, for the period 2008-2013. Besides this funding from UGC, the individual staff members have been attracting financial support for their research projects from various organizations like DST, DRDO, DAE, NSC-UGC, BRNS etc. During the last two years, DRDO itself has sanctioned more than rupees one-crore for the individual projects in the Department. Recently AFM costing about 45 lakhs is purchased from the grants received from DRDO under individual projects.

The Department developed central facilities like Liquid Nitrogen Plant, UV spectrometer, DSC, X-ray Diffractometer. The Department also received funding for development of central computing facility under DST-FIST programme. Under this programme, an updated computer facility to cater to the needs of the students of Post-graduation, research scholars and teachers has been established. The teachers of the Department actively participated in the academic programmes like National Seminars, Workshops, refresher Courses etc. The Department has provided Internet facility with access to about 30 nodes distributed to all individual staff members and labs. Under the UGC – X Plan grant, an amount of Rs.12 lakhs was sanctioned to strengthen the department facilities. Further an amount of 50 lakhs is sanctioned by UGC during the past two year under the Infrastructure grant. The Department regularly organizes National Seminars/Symposia/Workshops.



DEPARTMENT AMBIENCE



Facelift of Entrance of the Physics Department



Committee Room





MSc Class rooms



M.Sc e-class rooms

Vision

The Vision of the University (and also Department of Physics) is to generate and disseminate knowledge through a harmonious blend of ancient and modern wisdom, and to serve the society by developing in students heightened intellectual, cultural, ethical, and humane sensitivities; to foster a scientific temper, and to promote professional and technological expertise. Central to this vision is a commitment to regional and national development in consonance with our culture, heritage, and environment.

Mission

- To achieve excellence in teaching and research (in Physics)
- To generate, disseminate and preserve knowledge (of Physics)
- To meet the challenges of a complex, and modern society through informed social outreach
- To empower through knowledge and information
- To develop a responsible and productive citizenry
- To develop, enhance, and improve the quality of human resources
- To cultivate resolute moral and ethical values
- To meet contemporary regional and national needs and anticipate future social and economic development (fulfilling the social responsibility)
- To preserve and promote cultural heritage, humanistic and spiritual values

Milestones of the Department:

The Department was one of the earliest Departments in the county to promote research activity in the growth and characterization of single-crystals, ceramics, thin-films, polymers, nanomaterial, bio-materials etc. The research activity taken up by the Department on several aspects of characterization, superconductivity, spectroscopy, high energy physics and X-ray diffraction earned national and international recognition. The Department published over 2000 research papers in seventy different national and international journals, having high impact index which led to the award of more than 600 Ph.D.'s from the Department. Many of the Alumini of Department have been working faculty/Scientist in various National. International Labs/Institutes/Universities.

Programmes offered

Name of the course	Intake	Average no. of students passing out per year	Major areas of placement of students
Post Graduate degrees I. M.Sc. (Physics)			R &D Institutions Universities Degree/Junior
Solid State Physics	30	20	Lecturer
Electronic Instrumentation	30	20	School Teachers Marketing
Material Science	30	20	
Nano Science	30	20	
II. M.Sc., Applied Electronics	30	20	R & D Institutes Universities
Research Degrees Ph.D.	50	20	R & D Institutes Universities
Post MSc Diploma Radiological Physics	30	20	Hospitals Nuclear Power plants

List of Faculty (Group Photo Students and Staff)



Infra-structure –Department of Physics

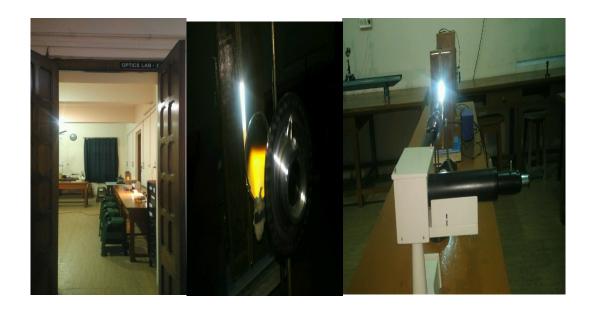
M.Sc. - Solid State Physics - Lab



M.Sc. – Material Science – Lab



M.Sc. Optics Lab



M.Sc. Instrumentation Lab

M.Sc. Modern Physics Lab



M.Sc.- Nuclear Physics Lab



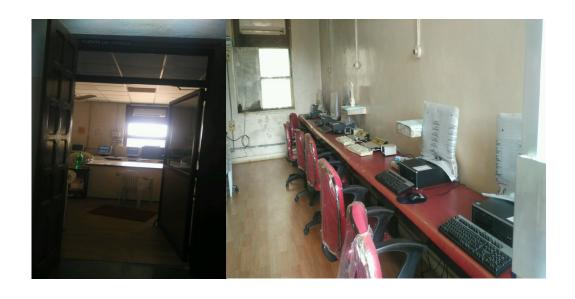
M.Sc. Heat and Acoustic lab



M.Sc. Electronics Lab



M.Sc. Computer Lab



MSc. VHDL Lab



M.Sc. Applied Electronics Lab



Sophisticated /special equipment Photo





Philips X'Pert PRO diffractometer- Purchased under UGC SAP Grant



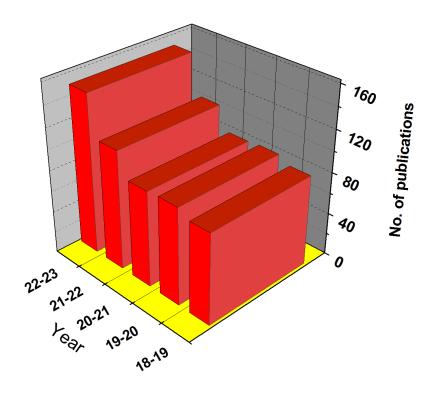
RF Sputtering Unit purchased under UGC SAP Grant



Scanning Electron Microscope

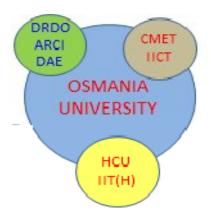
Number of Research publications - National/International

Description	2018-19	2019-20	2020-21	2021-22	2022-23
Numbers of Papers Published:	86	92	91	113	151
Numbers of Books with ISBN:	2	2	3	2	4
Numbers of Journals with ISSN:	86	92	91	113	151
Numbers of Text Books:	2	2	1	1	1



List of publications year wise (3D Plot)

National and International Collaborations:



Department Alumni













Degree College Teachers Inspiration Program

List of Faculty

S. No	Name of Faculty Member	Designation	Highest Qualification	i-10 index
1	Dr. D. KarunaSagar	Sr. Professor	M.Sc., Ph.D	06
2	Dr. M. Srinivas	Professor	M.Sc., Ph.D	08
3	Dr. M. Prasad	Professor	M.Sc., Ph.D	10
4	Dr. J. LaxmanNaik	Professor	M.Sc., Ph.D	05
6	Dr. Md. Shareefuddin	Professor	M.Sc., Ph.D	19
7	Dr. B. Ravinder Reddy	Associate Professor	M.Sc., Ph.D	03
8	Dr. N.V. Prasad	Associate Professor	M.Sc., Ph.D	10
9	Dr. M. Sreenath Reddy	Associate Professor	M.Sc., Ph.D	07
10	Dr. V. Nathaniel	Associate Professor	M.Sc., Ph.D	02

11	Dr. G. Upender	Associate Professor	M.Sc., Ph.D	23
12	Dr. Y. KalyanaLaxmi	Associate Professor	M.Sc., Ph.D	08
13	Dr. P.Himabindu	Assistant Professor	M.Sc., Ph.D	02
14	Dr. D. Aparna	Assistant Professor	M.Sc., Ph.D	01
15	Dr. D. Madhuri	Assistant Professor	M.Sc., Ph.D	02
16	Dr. D. Sreenivasu	Assistant Professor	M.Sc., Ph.D	02
17	Dr. K. Kirana	Assistant Professor	M.Sc., Ph.D	02

Senior Professor Dr. D. KarunaSagar



Education: MSc, PhD.

Doctor of Philosophy:

Thesis title: Studies on the performance of Optical Systems Apodised with Generalized Hanning amplitude Filters

Teaching and Research Experience: 27 YEARS

Research Fields:

PSF engineering.

- Apodization filters.
- Coherent and incoherent imaging.
- Diffractive Optics.
- Imaging and Super-resolution

Number of Research Students Enrolled for Ph.D	Thesis Submitted	Degree awarded
20 (twenty)		16 (Fourteen)

<u>List of Ph.D Degrees awarded with Reference Number under my quidance</u>:

1. Mr Abdul Muhith Ref. No: PHD 10466 (16th January, 2012)

Studies on the performance of Apodised Optical ystems with defect of focus under the influence of Primary Spherical Aberration and Astigmatism.

2. Ms. V. Keerthi Ref. No: PHD 29477 (16 th April, 2014)

Hyperspectral Image Processing and Analysis.

3. Mr. M. Venkanna Ref. No: PHD 29594 (30th July, 2014)

Studies on the Edge Imaging Characteristics of Aberrated Coherent Optical Systems by Amplitude Filters.

4. Mr. A. NareshkumarReddy Ref. No: PHD 29711 (22nd November, 2014)

Studies on Imaging of Point Object and Composite Image of two object points of asymmetrically apodised optical systems with complex pupil filters.

5. Mr. B. Sambaiah Ref. No: PHD 30019 (27th August, 2015)

Studies on the Super-resolution of Optical Imaging Systems with Amplitude and Phase Filters.

Mr. A. Narsaiah Ref. No: PHD 30232 (26th March, 2016)
 Studies on the Annular Apodisers for Low sensitivity to Defocus of an Aberrated Optical System.

- Mr. Kiran Kumar Thota Ref. No: PHD 41037 (04th March, 2017)
 Studies on Two-Line Resolution of Aberrated Optical Systems Under Shaping and Shading of the Apertures.

 Mr. P. Rama Krishna Ref. No: PHD 41651 (30th June, 2018)
 Studies on Imaging Characteristics of Aberrated Optical Systems with Non-Uniform Transmission Pupils.

 Mr. T. VenkatRao Ref. No: P7/PhD/20103/08-10/TV/ECE/2020*
 *JNTUHDept. of ECE as a Co-Supervisor (30th March, 2021)
 Enhanced Quality of Service and Fast Scheduling Strategies for Optical Burst Switching in WDM Networks

 Mr BairySatyanarayanaRef. No: PHD 43609 (29th December, 2022)
 - Mr.BairySatyanarayanaRef. No: PHD 43609 (29th December, 2022)
 Synthesis and Characterization of MgCuZnNanoferrites and MCuZn-NiCuZnNanoferrite Composites for Microinductor Applications.
 - Mr.LachimalaRamprasad Ref. No: PHD 43665 (12th January, 2023)
 Studies on Diffracted Field Characteristics of Optical Systems with Variable Apodisation.
 - 12. Mr. T. Mohan Kumar Ref.No: PHD 43747 (06th February, 2023)
 Preparation and Characterization of Rare Earth Doped Compound Semiconductors for Opto-Electronic Device Applications
 - Ms. S. Vidya Rani Ref. No: PHD 44576 (20th November, 2023)
 Studies on the Performance of Aberrated Optical Imaging Systems with Variable Apodization
- 14. Ms.Anitha P Ref. No: PHD 44589 (28th November, 2023)
 Studies on Light Intensity Distribution at the Focus and Out of Focus Planes of Optical Systems with Complex Pupil Function.
- 15. Mr.NagarajuGudipoodi Ref. No: PHD 44748 (5th February, 2024)
 Impact of Lead Halides on Physical, Optical, FTIR and Raman Studies of CdO-Bi₂O₃-B₂O₃ Glasses: Applications to Radiation Shielding.
- Ms. N .SabithaRef. No: PHD 44846 (21st March, 2024)
 Studies on the point spread functions of aberrated optical systems with defect-of-focus

Areas of Teaching Experience

List of subjects taught:

Assistant Professor

- Electronic Devices and Circuits
- Electromagnetic Theory
- Quantum Mechanics
- Statistical Mechanics

Associate Professor

- Microcontroller 8051
- Mobile Cellular Communications
- Digital Image Processing

Professor :

- Digital System Design using VHDL
- Digital Signal Processing and Processors
- Control Systems
- Nano-Photonics
- Modern Optics

PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS

- Indian Science Congress, Kolkata.
- Optical Society of India (L.627)

Publications: Google scholar link

https://scholar.google.com/citations?user=vS2HFCcAAAAJ&hl=en

Prof. M. Srinivas



EDUCATION QUALIFICATIONS: M. SC., PH.D.

Doctor of Philosophy:

Thesis title: Luminescence Study of Displa Phosphors.

Assistant Professor :

- Electronic Devices and Circuits
- Electromagnetic Theory
- Mathematical Physics
- Electronics

Assistant Prof : Sep 2004 to May 2017.

Associate Prof : June 2017 to June 2019.

Professor : June 2020 to Till Date.

Associate Professor :

- Digital ElectronicsData Communication
- Modern Optics

Professor

- Electronics and Instrumentation
- Digital Signal Processing and Processor
- Nano-Photonics

Memberships in Professional bodies

- Life Member of Luminescence Society ofIndia
- Life Member of Indian Science CongressAssociation
- Life Member of Indian PhysicsAssociation
- Life Member of Indian Physics Teachers Association

- Life Member of Materials Research Society ofIndia
- Life Member of Indian Institute of Public Administration (IIPA), New Delhi

Workexperience (inchronologicalorder).

- o Chairperson, BoS in Physics, Department of Physics, Osmania University, Hyd 22-05-2021onwards
- o Member of the Departmental Committee (DC) to decide all policy and other matters relating to the teaching arrangements, admissions, examinations, administration, finance and research
- o Member of the Departmental ResearchCommittee (DRC)
- o BOS Member in Physics for post-graduatecourses
- o BOS Member in Physics for under-graduatecourses
- o BOS Member in Electronics for UG & PG courses
- o Co-Ordinator for Telangana State Eligibility Test (TS-SET)during 2018-2021
- o Governing body member for various UG and PG Colleges under OUaffiliation.
- o Selection Committee Member for various UG and PG Colleges under OUaffiliation
- Subject Expert Member for Lecturers selection process for various UG and PG Colleges under OUaffiliation
- Member in Joint Inspection Committee, CDC, OU, Since 2012
- BOS Member in Physics for Mahatma Gandhi University (MGU), Nalgonda
- BOS Member in Physics for Palamuru University (PU), MBNR.
- BOS Member in Physics for Sathavahana University (SU), KNR

Details of Research Projects being ONGOING / COMPLETED

S. No	Title	Cost in Lakhs	Start Date	End Date	Role	Agency
1	Development of Rare-earth Free Nanophosphors and Fabrication of Phosphor Converted Cool- White LED Device	47,99657/ -	24-03- 2022	23-03- 2025	PI	DST- SERB
2	Tailoring of materials for Luminescence emission in UV region with improved quantum efficiencies for RGB	25,88,320 /-	1-9-2014	31-08- 2018	PI	DST- SERB
3	Synthesis and Luminescence Studiesof Lanthanide ions doped Inorganic Nano-Phosphors	13,25,800 /-	1-4-2014	31-03- 2017	PI	UGC

Ph.D. Scholars working under my Supervision

Ph.D. Awarded

- 1. Dr.K.Srikanth, Title: Influence of A2O3 (A = B, Bi, Al, Sb) oxides on Spectroscopic Properties of Vanadyl doped Tellurite glasses. Awarded: 2022
- 2. Dr.K.Laxminarayana, Title: Influence of A2O3 (A = B, Bi, Al, Sb) oxides on Spectroscopic Properties of Vanadyl doped Tellurite glasses. Awarded: 2022
- 3. Dr.L.Narsimha, Title: Influence of A2O3 (A = B, Bi, Al, Sb) oxides on Spectroscopic Properties of Vanadyl doped Tellurite glasses. Awarded: 2023
- 4. Dr.M.Narasimulu, Title: Photo and Thermoluminescence Studies of Rare Earth Doped Alkaline Earth Ortho Germinate Phosphors. Awarded: 2023

Publications: https://www.researchgate.net/profile/M-Srinivas-5

Professor M. Prasad



EDUCATION QUALIFICATIONS: M. SC., PH.D.

Doctor of Philosophy:

Thesis title: "A study of spectroscopic and transport properties of some oxide glasses containing CdO"

Research Experience

Areas of research: Glasses/Glass-ceramics, DSSC, Ferrites, and Polymers.

instrumentation used in conducting their research: XRD, FESEM/EDX, TEM, AFM, XPS, UV-Vis-NIR spectroscopy,

DSC/DTA, DC/AC, Dilatometer, EPR, IR, Raman spectroscopies, SERS, and DSSC.

Citation analysis: Total number of publications: 32

Number of PhD's awarded: 05 : PhD's submitted: 01

Areas of Teaching Experience:

SUBJECTS TAUGHT AT M.SC.: I) MATERIAL SCIENCE, II) ENGINEERING MATERIALS, III) EM THEORY

Assistant Prof: May 2007 to May 2017. Associate Prof: June 2017 to June 2019. Professor: June 2020 to Till Date.

PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS:

Member of Indian Science Congress (ISC

Publications:

https://scholar.google.com/citations?user=NiPQduQAAAAJ&hl=en

Prof. J. LaxmanNaik



Research Interests: Magnetic Nanoparticles, Glass and Ceramics, Nano-ferrites,

Ferroelectric Materials

<u>AwardsandAchievements</u>

S. No.	NameoftheAward/Honor	Awardingagency	Year
1	Youngfacultyaward	VenusInternationalFoundation,madras	2016
2	TeachingExcellence	MarinaResearchLab,Madras	2017
3	AdarshVidyaSaraswatiRash triyaPuraskar	TheGlobalManagementCouncil, Gujarath	2018
4	DKInternationalAward for BestSeniorFacultyAward	DKInternationalResearchLab, Madras	2019
5	FacultyBrandingAward	EETCRS8 th FacultyBrandingAwards- 20. Kolkata	2021

<u>AcademicAdministrativePositionsheld:</u>

Programofficer,NSS	2008-2009,UGPC,KakatiyaUniversity.
HostelJoint Director(MenandWomen)	2009-2010,UGPC,KakatiyaUniversity.
Principal	2010-2012,UPGC,KakatiyaUniversity,Wgl.
In-chargeHead,Deptof Physics	2012-2014,Univ.ArtsandScienceCollege, Subedari,HNK.
Joint-DirectorforAdmissions	2015to2017,KakatiyaUniversity.
I/cHead,Dept.ofPhysics,Saifabad-OU	From31.08. 2017to 2019
Chairmen,BoSinElectronics,Dept.of Physics-OU	From21.06.2021
Principal,University Collegeof Science,Saifabad,OsmaniaUniversity,HYD	From03.11.2021

<u>Member/ParticipationinBodies/CommitteesonEducationandnation</u> <u>al development:</u>

Member	GoverningBodyMember(2008)forSriPavani DegreeCollege,Godavarikani.
Member	SyllabusRevisionCommitteeforPhysics(2010),SatavahanUniversity, Karimnagar.
Member	DepartmentalCommittee(2012),DepartmentofPhysics,KakatiyaUniversity,Wgl
Member	GoverningBodyMember(2014)forChanakyaDegreeCollege,Niramal.
Member	GoverningBodyMember(2014)forSriVikasDegreeCollege, Khammam.
Member	DepartmentalCommittee(2014),DepartmentofPhysics, K.U,Wgl
Member	DepartmentalCommittee(2015),DepartmentofPhysics, K.U,Warangal.
Member	AdvisoryCommittee,DegreeOnline,DOST-2015-16,K.U,Warangal.
Member	AdvisoryCommittee,DirectorateofAdmissions,KU(2015-16),OnlineAdmission,KUPGCET2016,KakatiyaUniversity,Warangal.
Member	OnlineAdmissionforDegreeOnline,DOST-2015-16,K.U,Warangal.
Member	AdvisoryCommittee,DirectorateofAdmissions,KU(2016-17),OnlineAdmission, KUPGCET- 2017, Kakatiya University, Warangal
Member	AdvisoryCommittee,DirectorateofAdmissions,KU(2015-16),OnlineAdmission, KUPGCET2016, Kakatiya University, Warangal.
Member	MemberintheworkloadofUG/PGUCSS-OU-2017
Member	Membertosolvetheissuesinthebiotechnology-UCSS,OU-2017
Member	Memberinanti-raggingcommitteeatUCSS-2018
Member	MemberintheconstitutionofHostels&messsub-committee-2018
Member	MemberofDepartmental Committee,Physics-OU
Member	MemberofDepartmental ResearchCommitteefrom 2020
Member	Member,BoardofStudiesinPhysics,MahatmaGandhi university,Nalgonda.
Member	MemberSPACEcommitteeinDept.ofPhysics,UCS-OU
Member	GoverningbodymemberforVASAVIDEGREE&PGCOLLEGE,HYD
member	MemberinCALENDERandDAIRYOsmaniaUniversityHyderabad.2021

Research Publications: https://www.researchgate.net/profile/Prof-J-Laxman-Naik

Prof. Md. Shareefuddin



Education: MSc, PhD.

Doctor of Philosophy

<u>Thesis title:</u> Transport properties of potassium yttrium fluoride and sodium yttrium fluoride

compounds

Instrumentation used in conducting research: XRD, XPS, SEM-EDAX, Raman, Impedance analyzer,

VSM, ESR, Thin-film coating units (thermal vapor deposition)

Number of PhD's awarded: 10 PhD's submitted: -

Postdoctoral Fellow: Research Associate CSIR, New Delhi, (1993-1998)

Areas of Teaching Experience:

List of Subjects: Quantum mechanics, EM the pry, Mathematical Physics, Electronics and microprocessor, Data Communication, Control System, Digital Communication, Resonance

Spectroscopy

Assistant Prof : May 2007-May 2019 Associate Prof : May 2019-Mau 2021 Professor : May b2021- Till date

Awards / Grants

Pool Research Offer, CSIR, New Delhi (1998-1999)

PROFESSIONAL MEMBERSHIPS: Indian Science Congress Association, Kolkata

Publications:https://www.researchgate.net/profile/Dr-Shareefuddin

Dr. Ravinder Reddy Butreddy



Education: M.Sc., M.Phil., Ph.D.

Doctor of Philosophy:

Title: "Ultrasonic Investigations of Alcohol – Ester binary mixtures and Bacterial cultures".

Research Experience:

Research area:

Energy Materials to investigate new materials to enhance Energy storage capacity by applying various Synthesis techniques and environments. Instrumentation: XRD, SEM, TEM, FTIR, UV-Visible, DTA, XPS, and Raman Characterizations; and Conductivity, Dielectric and Cyclic voltammetry measurements techniques.

Areas of Teaching Experience:

Sublets Taught:Quantum Mechanics, Adv. Solid State, Physics, General Solid state Physics, Spectroscopy, Classical Mechanics, Electronics, Waves and Oscillations, Electromagnetic theory, Thermodynamics-Optics, Microwaves, C-Language, Electricity-Magnetism, Modern Physics, Thermodynamics-Optics, Mechanics-Waves & Oscillations and Engineering physics.

Awards: SFRF from IIT Delhi, New Delhi, INDIA.

Grants: UGC-DST Minor and Major Projects executed

Professional Memberships: 1. Member of Electrochemical Society, USA 2. Member of Ion Beam Society of India (IBSI). 3. Life member, Instrument society of India, Hyderabad chapter (ISOI) 4. Member of Ultrasonic Society of India (USI). 5. Member of Alumni Association, Osmania University, Hyderabad, INDIA

Google Scholar link: https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Ravi

Dr. N. V. Prasad



Education: MSc, PhD.

Doctor of Philosophy

<u>Thesis title:</u> Studies on rare earth substituted bismuth layered structure ferroelectromagnetic ceramics

Area of research: Electro-ceramics, ferroelectrics, magnetic and magnetoelectric materials

Instrumentation used in conducting research: XRD, XPS, SEM-DAX, Raman, Impedance analyzer, VSM, ME-setups, Thin-film coating units (sputtering)

Number of PhD's awarded: 02 PhD's submitted: 03

Postdoctoral Fellow: Rajaramanna Centre for Advanced Technology, Indore (2001-2003)

Areas of Teaching Experience:

List of Subjects: Quantum mechanics, Solid State Physics, Statistical Mechanics, EM theory, Mobile Communication, Digital Electronics-Microcontrollers, Numerical Methods, Resonance Spectroscopy

Assistant Prof : June 2009-June 2021 Associate Prof : June 2021-to date

Awards / Grants

SERC-DST Young Scientist (2003-2006)

PROFESSIONAL MEMBERSHIPS: Indian Science Congress Association, Kolkata Publications: https://scholar.google.com/citations?user=TH3hpEwAAAAJ&hl=en

Dr. V Nathanial



Education: MSc, MA, B.Ed, PhD.

Doctor of Philosophy

Thesis title: Absorption And Scattering of gamma rays in elements and some composite materials

Research Experience

Area of research: Nano Ferrites, Material Science, Nuclear Physics. Instrumentation used in conducting their research: XRD, SEM, DRS,VSM,LCR, and Gamma rays spectrometer.

Areas of Teaching Experience

Subjects Taught: Electronics, General Solid State Physics, Embedded Systems and Nano Science.

Assistant Proessor : June 2009- June 2021 Associate Professor : June 2021- to date

Awards / Grants

Teaching Excellence Award by Indo Global Summit 2018.

PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS

Indian Society for Radiation Physics.

Publications: https://www.researchgate.net/scientific-contributions/V-Nathanial-2142002687

Dr. M. Sreenath Reddy



Education Qualification: M.Sc, Ph.D

Thesis title:

"Study of indoor Radon/Thoron and Natural Background Radiation Levels in Hyderabad and its Surrounding Areas of Andhra Pradesh, India".

Research Experience

Environmental Nuclear Radiation and material science RAD7, Micro survey meter, TL reader, Sample preparation with furnace up to 1400°C.

Number of PhD's awarded: 03 PhD's submitted: 01

Areas of Teaching Experience

1.Modern optics, 2. Nuclear Physics, 3. Advanced Solid State Physics, 4.Classical Mechanics, 5. EM theory 6. DCCN-I, 7.DCCN-II, 8. Microcontrollers and applications, 9.General Solid State Physics, 10.Electronics and 11.Statistical Mechanics.

Assistant Prof: 06.09.2013 to 08.09.2021 Associate Prof: 09.09.2021 to till date

PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS

- National Executive Member for Indian Society for Radiation Physics (ISRP) for the year 2023-2025 and 2019-2021.
- Received Vice-Chancellor research excellence certificate from Osmania University in 2022.
- Indo-Japan workshop on "Environmental Radon/thoron-2010" held at BARC, Mumbai, on 22nd and 23rd November 2010 (selected only 18 participants from universities).
- Participated in the DAE-BRNS theme meeting RADON-2008 organized by EAD-BARC, Mumbai, during March 11-13, 2008 (Selected only 12 participants from universities across the country).

Grants:

- 1. Soft x-ray absorption spectroscopy and XMCD study of hexaferrite thin films, by UGC-DAE CSR, Indore, grant: Rs. 6,39,000/- in Dept., of physics, OU in April,2021.
- 2. Startup grant project sanctioned by UGC, New Delhi. Grant, Rs. 6 lakhs in 2017.

Life membership: IARP, NTSI, ISRP, LSI, INSC and ISOI

Publications: https://scholar.google.com/citations?hl=en&user=vK1-W3AAAAAJ

Dr. G. Upender



Education QUALIFICATIONS: M. Sc., Ph.D.

Doctor of Philosophy:

Thesis title: "Influenceofsomeheavymetaloxidesonphysical, structural, thermalandelectrical properties of telluriteglasses"

Research Experience:

Areas of research: Glasses/Glass-ceramics, DSSC, Photocatalysis, Gas Sensing & Surface Enhanced Raman Spectroscopy

Postdoctoral Fellow: UGC-Dr.D.S. Kothari Postdoctoral Fellow, School of Physics, University of Hyderabad, Hyderabad (19.10.2010-12.03.2012).

Scientist: CSIR-CGCRI, Kolkata from 13.03.2012 to 05.09.2013.

Instruments used: XRD, FESEM/EDX, TEM, AFM, XPS, UV-Vis-NIR spectroscopy, DSC/DTA, DC/AC, Dilatometer, EPR, IR, Raman spectroscopies, Nanoclusters films, SPR, SERS and studies, DSSC, Photocatalysis and Gas sensing.

Citation analysis: Total number of publications: 55 (International: 52; National: 03); Total Number of Citations: 1495; The h-index: 23 and i-10 index: 31

Areas of Teaching Experience

Subjects taught at M.Sc.: i) General Solid State Physics, ii) Advanced Solid State Physics

- iii) Classical Mechanics, iv) Nuclear Physics
- v) Spectroscopy, vi) Crystal Physics
- vii) Modern Optics, viii) EM Theory

Awards:

S.No	NameofAward	AwardingAgency	Year
1.	Research Fellowships in Sciences for		2007-2009
	Meritorious Students (RFSMS)-JRF	UGC	
2.	Research Fellowships in Sciences for		2009-2010
	Meritorious Students (RFSMS)-SRF	UGC	
3.	Dr. D.S. Kothari PDF	UGC	2010-2012
4.	Associate Fellow of Telangana Academy of Science, Telangana	Telangana Govt.	2021
5.	Appreciation certificate from Vice- Chancellor	Osmania University	2022
6.	Outstanding Referee for many journals	Elsevier	2013 to till date

GRANTS:

S.No	Title	Cost in lakh	Durati on	Role as PI/C o-PI	Agency	Status
1	Synthesis nanocomposi tes	6.00	2015- 2017	PI	UGC, New Delhi	Completed
2	Development ofPhotocat alysis applications	13.20 (EMR/2 016/002 650)	2017- 2020	Co-PI	DST- SERB, New Delhi	Completed
3	Developmentfor gas sensing and photocatalytic applications	29.60 SUR/20 22/0037 08	2023- 2026	PI	DST SERB- SURE, New Delhi	Sanctioned

Publications:

https://scholar.google.co.in/citations?user=zQwZQPQAAAAJ&hl=en

Dr. Y. Kalyanalakshmi



Education: MSc, PhD.

Doctor of Philosophy

Electrical and magnetic behavior of some monovalent doped CMR materials

Research Experience

Colossal magnetoresistance oxides, magnetotransport phenomenon, Thermoelectric power, Ferrites, Ferrite-manganite composites

Postdoctoral Fellow, Department of Physics, Osmania University, Hyderabad

Areas of Teaching Experience

Solid State Physics (General SSP, Advanced SSP, specialization), Classical Mechanics, Stastical Mechanics

Assistant Prof UG papers: Modern Physics

PG papers: Solid State Physics (General SSP, Advanced SSP, specialization), Classical Mechanics, Stastical Mechanics

Asso Prof Solid State Physics (General SSP, Advanced SSP, specialization), Classical Mechanics, Stastical Mechanics

Awards / Grants

Research Associate : CSIR,Govt.ofIndia;2011-2014.
 SeniorResearchFellow : CSIR,Govt.ofIndia;2008-2010.

JuniorResearchFellow : UGC-RFSMS,Govt.ofIndia;2007-2008.
 YoungScientistAward : Dr.K.V.RaoScientificSocietyAward2010
 AssociateFellow : TelanganaAcademyofSciences2018

PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS

- 1. LifememberofMagneticSocietyofIndia
- 2. LifememberofIndianScienceCongressAssociation

Dr. HimaBindu Pitta



Education: MSc, PhD., MSc(Psychology)

Doctor of Philosophy

<u>Thesis title</u>: Characterization of sediments in wells of Krishna-Godavari basin applying natural gamma ray spectroscopy methods

Research Experience

Area of research: NUCLEAR RADIATION PHYSICS, MATERIALS SCIENCE Instrumentation used in conducting their research: WELL LOGGING TOOL (SCHLUMBERGER), SCINTILLATION AND SEMICONDUCTOR DETECTORS, MULTI CHANNEL ANALYSER, XRD, SEM, BALL MILL

Postdoctoral Fellow: DEPARTMENT OF PHYSICS AND ENGINEERING, UNIVERSITY OF SURREY & TRUEINVIVO LTD, GUILDFORD, SURREY, UNITED KINGDOM (October 2018 to September 2019)

Areas of Teaching Experience

PG Level:

- 1. Solid State Physics
- 2. Nuclear Physics
- 3. Digital transformation techniques and Information theory
- 4. Basic electronics
- 5. Nanomaterials and devices
- 6. Properties of Nanomaterials
- 7. Carbon nanotubes
- 8. Synthesis and characterization of nanomaterials
- 9. Mathematical Physics
- 10. Electromagnetic theory
- 11. C-Programming

UG Level:

- 1. Optics
- 2. Electricity and magnetism
- 3. Thermodynamics
- 4. Waves and Oscillations
- 5. Modern Physics
- 6. Engineering Physics

Awards / Grants

Name of the award Received	International/ National/ State/University/District/College level	Nature of Award	Month & Year of the Award
Felicitation by Red Cross Society India	State level	Society	September 2022
Vice-Chancellor's Research award	University	Scientific	January 2022
Felicitation by Sneha Group of Organisations	International	Society	December 2021
Guru Spandana by SpandanaEda Foundation	International	Society	October 2021
Visiting Academic Researcher	International, University of Surrey	Research	October 2018- 2019
Professor of the year	National Level	Proficiency	October 2018
Alliance clubs International	National Level	Society	2018

PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS

- Indian Association of Physics Teachers (Life time) since 2016
- Environment and social development association (ESDA) (Life time) since 2019
- Member WICCI, Telangana Chapter, since July 2022
- Life Member IRPS, India since September 2022, LM-1242

Publications:

https://scholar.google.com/citations?hl=en&authuser=1&user=GvCkBVkAAAAJ

WEBPAGE: https://sites.google.com/view/hbpitta/home

Dr. D. Sreenivasu



Education: MSc, PhD. PGDCA

Doctor of Philosophy

<u>Thesis title:</u> Studies on spectroscopic and transport properties of bimuthate and borobismathate

glasses

Instrumentation used in conducting research: XRD, XPS, SEM-EDAX, FTIR, Raman, Impedance analyzer, ESR, DSC

Number of PhD's awarded: 01 PhD's submitted: 01

Areas of Teaching Experience:

List of Subjects: Electronics, Microwaves, Mobile communications, EM theory, Classical Mechanics, Transmission lines and wave guides, Solid state physics, Fibber optics, Data communication network

Assistant Prof : Sep 2013-Sep 2023

PROFESSIONAL MEMBERSHIPS: Materials Research Society of India, Neutron Scattering Society of India, Physics Teachers Association

Publications: https://scholar.google.com/citations?user=VDI-g44AAAAJ&hl=en

Dr. D. Aparna



Education: MSc, PhD.

Doctor of Philosophy "Pattern Recognition of Acoustic Emission Signals from Piezoelectric Ceramics"

Research Experience

Acoustic Emission Studies, Signal Processing, DC and AC Fatigue studies. Insitu Monitoring of Acoustic Emission Signals from PZT ceramics.

Areas of Teaching Experience

Subjects Taught: Classical Mechanics, General Solid State Physics, Microcontrollers and Applications, Guided and Unquided media Communication.

Assistant Prof: 2009 till date

Awards / Grants

- Apart from teaching she has been a member on selection committee for lecturers, student projects & posters during Science exhibitions at College Level, District Level and at 30th National Children Science Congress 2022.
- BOS member for Physics and Electronics at UG and PG level.
- As Resource person delivered talks on few topics of electronics, MATLAB and NDT technique ie Acoustic Emission.

PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS

Life member of IAPT

Dr.MadhuriDumpala



EDUCATION: M.Sc., Ph.D.,

Doctor of Philosophy:

Thesis title: A study of Gamma ray interactions in clay bricks in the region 511 to 1333keV

RESEARCH EXPERIENCE:

Area of research: The design and development of eco-friendly, biodegradable functional materials suitable for different applications, such as packing materials for food and medical applications, energy harvesting, and radiation shielding.

Instrumentation used in conducting our research: Gamma Ray Spectrometer, and multi-channel analyzer, FTIR, UV-Vis, TGA, UTM and Ultra-Centrifuges.

AREAS OF TEACHING EXPERIENCE:

LIST OF SUBJECTS:

General physics, Mathematical physics, Classical mechanics, Electromagnetic theory, and materials science.

PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS

• The Indian Science Congress Associations • Indian Association of Physics Teachers (IAPT) • Indian Association of Radiation Protection. • Indian Society for Radiation Physics.

PUBLICATIONS: GOOGLE SCHOLAR LINK:

https://www.researchgate.net/profile/Madhuri-Dumpala

Dr. K. Kirana



Education: MSc,M.Phil. PhD.

Doctor of Philosophy

 $\underline{\underline{\text{Thesis title:}}} \ Synthesis, \ Characterization \ and \ Optimization \ of \ Multi-functionality \ of \ Ferroelectric$

Perovskite Composite Materials

Research Experience

Magnetic and multiferroic materials

Areas of Teaching Experience

Subjects Taught: Quantum mechanics, Solid State Physics, Mathematical Physics, Advanced Solid State Physics, Modern Optics,

PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS

Materials Research Society of India

Research Publications: https://www.researchgate.net/profile/K-Kirana

Annexure III-Template

Alumni Registration Form

Department of ______ Osmania University, Tarnaka, Hyderabad- 500 007, TS, INDIA Batch (_____)

NAME:	<u>Daten (</u>		Recent Photo
Academic Qualifica	ation: Ohtained f	rom Department:	
Year	Degree (BE /BTech/ BA/BCor		University
real	/BCA/ BEd /LLB/ ME /MTech /	The state of the s	University
	MPE/LLM/ MBA/ MCA/ PhD		
	Other	rs	
A 1 1111			
Additional qualifications			
qualifications			
Current Position:			
Com	pany / Institute	Designation	Working Since
Contact Address:			
Contact Address.	Work place:		Residence:
	vvoik piace.		Nesiderice.
Tel. Work :		Tel. Res.	
Mobile Work:		Mobile Personal:	
Email Work:		Email Personal:	
Any Additional Inf	ormation:		

Please fill the form and send as email attachment to ______.