SRI VENKATESWARA UNIVERSITY

SVU COLLEGE OF SCIENCES

The Department of Physics has a unique approach to Post Graduate Physics teaching, drawing upon the breadth and quality of teaching and research programmes with a wealth of expertise.

VISION

To impart quality education and appropriate training to produce good quality Physicists and to pursue research for the betterment of contemporary society

MISSION

To develop qualified and competent Physicists/Scientists through effective teaching, hands on laboratory training and exposure to research & development activities.

"STUDENTS LEARN PHYSICS BEST BY DOING PHYSICS"

The Department of Physics, Sri Venkateswara University was established in 1954 with B.Sc. and B.Sc. (Hons) degree courses

DEPARTMENT OF PHYSICS

Two year M.Sc. degree course was started in 1959 to meet the growing demands of the society and to keep pace with reputed institutions in the country and abroad. The Department has innovative specializations in M.Sc. Physics such as Applied Spectroscopy, Condensed Matter Physics, Electronics, Photonics, Solar Energy Physics and Vacuum and Thin film Physics. The department has also started M.Sc. Electronics course in 1998. At Present the department has 7 Professors, 1 Associate Professor and 1 Assistant Professor. The research work in the Department of Physics was initiated in 1957 and since then, there has been significant progress in the areas of Atmospheric Science, Condensed Matter Physics, Microelectronics, Solar Energy, Solid State Spectroscopy, Photonics and Thin Films. In recognition of these efforts, the department has received research funding from UGC, CSIR, DST, ISRO, DNES, DoE, DRDO and DAE-BRNS. The Department was selected for UGC - CAS and DST- FIST programmes and was able to procure several sophisticated instruments like XRD, ATR-FTIR, UV-Vis-NIR spectrophotometer, FLS-980-Fluorescence spectrometer, SEM with EDS, Micro-Raman, Vibrating Sample Magnetometer (VSM), Liquid Nitrogen Plant,etc., for student training and advanced research activities. The UGC has set up UGC-SVU Center for MST Radar applications to promote research activities on Atmospheric research. This was further supported by the ISRO in the form of an Advanced Center for Atmospheric Sciences (ACAS). The advances made so far in basic and applied research are well recognized both in the country and abroad. The Department organizes National and International Conferences/Seminars/ Workshops on regular basis. The faculty members of the Department have several collaborative research programmes with national and International institutions. Many of the faculty members of the Department are regularly invited as visiting Professors and visiting researchers by overseas Universities/ Institutes in India and abroad.

COURSES OFFERED

M.Sc. Physics
M.Sc. Electronics

THRUST AREAS OF RESEARCH

The faculty of the Department is engaged in various research activities in contemporary major thrust areas. Different group of teachers are working in diversified areas of research.

ATMOSPHERIC PHYSICS

Prof. S. Vijaya bhaskara Rao
Dr. S. Venkatramana Reddy

CONDENSED MATTER PHYSICS

Prof. R.P. Vijayalakshmi
Prof. P.Sreedhara Reddy (Retd.)

SOLAR ENERGY PHYSICS

Prof. K.T. Ramakrishna Reddy

SEMICONDUCTOR DEVICES

Prof. V. Rajagopal Reddy

PHOTONICS

Prof. B. Deva Prasad Raju
Prof. C.K.Jayasankar (BSR Fellow)

THIN FILM PHYSICS

Prof. O.Md.Hussain
Prof. S.Uthanna (BSR Fellow)

APPLIED SPECTROSCOPY

Prof. Y.C.Ratnakaram
Dr. B. Hemalatha Rudramadevl

RESEARCH GRANT RECEIVED AT A GLANCE

The faculty members of the Department have handled research projects to the tune of Rs. 1311.35 Lakhs from various funding agencies like UGC, DST, ISRO, DAE-BRNS, CSIR, DRDO etc.

Total Number of Projects on-going : 18

The Department has also received funding through national programmes such as UGC-CAS and UGC-CPE

PROGRAM	Duration	Amount Sanctioned (In Lakhs)
DST-FIST	2015-20	99.00
UGC-CAS-II	2015-20	40.00
UGC -CENTRE FOR POTENTIAL EXCELLENCE (ATMOSPHERIC SCIENCES)	2015-20	280.50
RESEARCH PROJECTS	2017-22	895.85

Profile of the Facultiy

HOD, DEPT OF PHYSICS

Prof. R P Vijayalakshmi has obtained M.Sc. and Ph.D. in Physics from Sri Venkateswara University, Tirupati. Later she worked as lecturer in Physics in Govt. Degree college. In 2007 she joined as Associate Professor in Physics, in S.V.University and elevated as professor in 2013. Her research work is mainly focused on dilute magnetic semiconductors for spintronics, multiferroics for sensors, nano structures and nano composites for environment pollutants degradation and hydrogen production. So far under her guidance 15 Ph.Ds and 04 M.Phils were awarded and published more than 100 articles in international journals of high impact factor. She completed several major research projects funded by UGC and CSIR. She is a Associate Fellow AP Akamedi of Sciences and she received a teacher of excellence award for the year 2021-2022.

Prof. S. Vijaya Bhaskar Rao has obtained M.Sc. and PhD degrees from SV University and served as HoD and presently is the BoS Chairman in Physics. He is also the Dean R&D of SVU, coordinator, DST-PURSE Centre and RUSA 2.0 program. His area of Research is Atmospheric Sciences. He visited Antarctica and installed a monostatic sodar. Under his leadership a meteor radar was established for the first time in the Indian Universities to study the middle atmosphere. He is the Director for the UGC-SVU centre, a major national facility in the country. He has published 160 papers and guided 35 students for PhD and completed 15 major research projects. He visited several countries and he is the member of several committees and received prestigious awards.

BOS, DEPT OF PHYSICS

Prof. Y. C. Ratnakaram working on spectroscopic properties of rare earth doped glasses and glass ceramics for various lighting applications. In addition to the glass and glass ceramics, novel properties of phosphors for visible lighting applications are also studying. His main interests are studies on structural, optical absorption, photoluminescence, FTIR, TG-DSC, FT Raman and NMR of different rare earth doped glasses and phosphors. Till now 21 Ph.D's were awarded under his guidance and 147 research articles were published in various National/International journals in this area of research. He is a fellow of A.P. academy of sciences and mid-career awardee. Presently, he is Dean, University development and also Dean, Faculty of Science.

Prof. K.T. Ramakrishna Reddy is currently a Professor in the Physics department, S.V. University, Tirupati. Currently, he is the Vice-Principal & Warden of the College of Sciences. He was recipient of the Best Teacher award (2015) and Scientist Award (2017) from the AP State Government. Dr. Reddy has supervised 27 PhDs, 8 MPhils and 27 M.Sc/M.Tech projects. He has completed 17 research projects awarded by Indian and foreign funding agencies, including European Commission, Governments of UK, Israel, Russia, Slovenia and Belarus. Dr. Reddy was awarded many coveted research fellowships like the BOYSCAST, Commonwealth, DAAD, EPSRC, JSPS and Marie Curie in addition to INSA, SERC and UGC Associateships to work on solar energy materials. He is a Fellow of AP Academy of Science and member of other scientific bolides. He has presented 190 conference presentations, published 230 research papers, two UK patents, two books and five book chapters. He has visited different laboratories in over 20 countries across the world

Prof. O. Mahammad Hussain has received M.Sc and Ph.D degrees in Physics from Sri Venkateswara University, Tirupati, India in 1984 and 1990 respectively. Later, he worked as Post-Doctoral Fellow during 1991-92 in Universite Pierre et Marie Curie, Paris, France. He joined as a faculty member in 1992 in the Department of Physics, S.V.University and currently working as a Professor of Physics.He has received Teacher of Excellence for the academic year 2009-10 from S.V.University and Fellow, AP Akademi of Sciences. So far, he has guided 20 Ph.D students and 09 M.Phil students and published about 200 research articles in peer reviewed journals and two books. He has delivered more than 50 Invited Talks in various National/International conferences and also given several popular lectures in schools/colleges/forums to stimulate scientific temperament in the students. He has successfully completed several major research projects sponsored by UGC, DST and DRDO. His research interests are metal oxide nanomaterials and thin films for energy conversion & storage and electrochemical sensor applications. He is Editorial Board Member for three International Journals and Reviewer for about 15 International Journals. With his significant research contributions, the present h – index is 36, Citation Index 104 and No. of Citations 4210 and awarded as world scientist by AD Scientific Index – 2022. Presently he is the Registrar of S.V.University.

Prof. P. Sreedhara Reddy joined in the University service in 1992. He is an innovative leader with significant managerial experience including a strong record as an active teacher, mentor and researcher. He handled ten research projects and published many research papers in high impact factor journals. Twenty-four students received doctoral degrees under his supervision. He is the recipient of UGC Mid-career award and Fellow, A.P. Akademi of Sciences. He has vast administrative experience and served many positions in the University including Registrar, Director, Directorate of Admissions, Placement officer. He is the instrumental in developing computer laboratory in the Department to train the students. He indigenously developed various thin film and nanomaterial deposition techniques at the laboratory level

Prof. V. Rajagopal Reddy has received M.Sc and Ph.D degrees from Sri Venkateswara University, Tirupati. Served as a head for Dept of Physics, He was Visiting Research Professor at the Semiconductor Thin Film and Device Laboratory, Gwanju Institute of Science and Technology, Gwangju and Chonbuk National University, Jeonju Korea from 2002-2003 and 2013-2014. He was recipient of the Best Teacher award (2019) from the AP State Government. He has published 213 articles and guided 24 Ph.Ds in the field of Advanced Electronic Materials (GaN/InP). He is holder of one Korean patent. He served as member of different committees and received prestigious awards. He has been recognized as the top 2% scientist in the world by Stanford University, United States of America.

Prof. B. Deva Prasad Raju is currently working in the Department of Physics at Sri Venkateshwara University, Tirupati. The main focus of his research is to optimize RE-doped systems for photonic devices, synthesize micro structured materials for supercapacitors and optimize phosphorescence materials for white light emitting diodes. In addition to the projects funded by DST, New Delhi, and DAE-BRNS, Mumbai, he completed four major research projects. Currently, he has been executing one major research project funded by DST, New Delhi and simultaneously supervising Ph.D. students. A total of 100 research papers have been published in reputed journals with an average Impact Factor of around 4. The number of citations in his work is 3025, and he has an h-index of 32 and an i10 index of 64. A number of international SCI journals also employ him as a reviewer. Among other awards, he has received the DST-Young Scientist award and has been recognized as one of the Scientists of the Year by the National Environmental Science Academy (NESA), New Delhi, India as well as a Scientist of the Year by AD Scientific Index in 2022

Dr. S. Venkatramana Reddy is working as an Associated Professor in the Department of Physics, S.V. University, Tirupati. He has published 123 research papers in various internationally reputed Journals and presented more than 137 papers in various National and International Conferences. Received the Best Paper Award for presentation of the Research Paper entitled "Reducing the effect of ground clutter from wind profiler radar signal using wavelet transforms", in the National Conference. 8 Ph.D. and 4 M.Phil. degrees are awarded under his Supervision. He is a Fellow of Institution of Electronics and Telecommunication Engineers. He was Co-ordinator for 5yr Integrated M.Sc. Course in Physics and presently Coordinator for M.Sc. Electronics, S.V. University, Tirupati

Dr. B. Hemalatha Rudramadevi, Assistant Professor in Physics, whose interests are in the characterization of transition and rare earth ions in a wide variety of Glasses, Nanophosphors, Ceramics, Polymers, and nano-materials analysis through different optical tools for the applications of spintronics and optoelectronic device etc., Dr. B. Hemalatha Rudramadevi received her Master's and PhD degree in Physics from S.V. University, Tirupati. She was receipient of Raman post-doctoral fellow and visited CU, USA during 2016-17. She has published 52 papers and presented 45 papers in various national and international conferences. So far, she has given more than 10 invited lectures in various conferences and refresher courses. Under her guidance 5 PhDs and 5 M.Phil were awarded. She successfully completed three major research projects funded by UGC, DST-SERB and DRDO

UGC- BSR Faculty Fellows

Dr. S. Uthanna, Ph.D., formerly UGC –BSR Faculty fellow 2017-2020 has made extensive contributions on Transparent Conducting Oxide films synthesis, characterization and optimization. He was recipient of "International Union for Vacuum Science Techniques and Applications" (IUVSTA) Welch Fellowship for the year 1989. He received Meritorious Teacher Award (in Sciences), Sri Venkateswara University in March 2020. He was visiting Professor, University of Kaiserslautern, Germany and Nancy University, France. Under his guidance 23 Ph.Ds and 17 M.Phils were awarded. He published more than 200 papers in international and national journals of high impact factor.

Dr. Chalicheemalapalli Kulala Jayasankar, Ph.D., F.N.A.Sc., formerly UGC-BSR Faculty Fellow has made extensive contributions on the development, characterization, and optimization of a large variety of lanthanide-doped optical quality glasses/ nano-glass ceramics and nanocrystalline materials for a wide range of applications like the use as laser glasses, optical fiber amplifiers, sensors, bio-labels, white-LEDs and buried waveguides. The impact of his contributions is reflected by the fact that he prominently figured in the list of the most prolific Indian authors in rare earths research (Current Science 110,1184-7(2016)). He also got listed in the top 2% of the global scientist (both 2019 and 2020) in Applied Physics based on scopus metrics (316 papers, Citations:10266 and h-index:58)

Academic Consultants

PDr. M. Hari Prasad Reddy is working as an Academic consultant in the Department of Physics, S.V. University, Tirupati. He obtained master's and Ph.D degree in Physics from Sri Venkateswara University, Tirupati. Later he worked as lecturer in Physics in Sri vaishnavi Degree college, Rajampet. In 2009 he joined as Academic consultant in Physics, in S.V.University. His research work is mainly focused on Vacuum Science and thin film applications of High K- materials and absorb layers for solar cells. He has published 31 research papers in various internationally reputed Journals and presented more than 27 papers in various National and International Conferences.

PDr. S. Kamala has received Ph.D degree in 2003 from S.V.Universtity, Tirupati. Later she worked as Teaching Assistant for four years in the Department of Physics, SVU and then joined in Sri Padmavati Mahila University and worked there for twelve years. Again in 2016 she joined as academic consultant in the Department of Physics SVU. Her research work mainly focussed on atmospheric dynamics especially the mesospheric dynamics using rockets and radar data. Her present research work includes the applications of algorithms in designing antenna arrays and applications. She published many papers in international and national journals. She has received online certification from Virginia University and Stanford University through MOOC. She is a member of Indian Association of Physics Teachers, ISCA and Rare Earth Association.

Dr. P. Chandra Sekhar has received MSc and PhD degrees from S.V.Universtity, Tirupati. Later he worked as Assistant Professor and R&D convener in Annamacharya institute of technology and sciences, Tirupati. In 2019 he joined as Academic consultant in the department of physics, S.V.University. His research work mainly focused on preparation and characterization of nanomaterials for battery, super capacitors and gas sensors applications. He has expertise in preparation of nano composite polymer electrolytes for battery applications. He has published many papers in reputed international and national journals and presented papers in various conferences. He received UGC - JRF and SRF during the year 2008-2013. He is a member in Asian polymer association, IAENG and ISCA.

PATENTS AWARDED TO THE FACULTY

Few faculty members have International Patents based in UK and Korea to their credit.

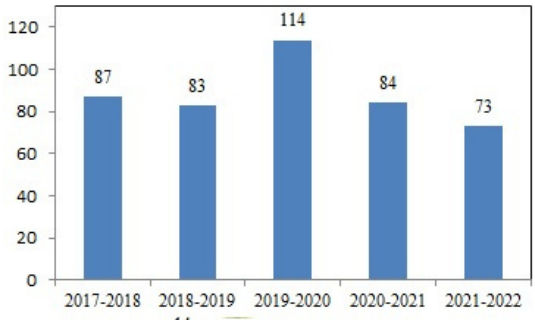
1.Prof. K. T. Ramakrishna Reddy
UK Patent No.: GB 2370282 (2003).
Title of Invention: Rapid anodic process for producing chalcopyrite compounds
Authors: D. Johnston, I. Forbes, R.W. Miles and K.T. R. Reddy,

2. Prof. K. T. Ramakrishna Reddy
UK Patent No.: GB 1218638.3 (2013).
Title of Invention: Synthesis of zinc indium selenide, ZnIn2Se4, (ZIS) and zinc indium hydroxyselenide, ZnIn2(OH,Se)4 (ZIHS) layers using a chemical bath deposition process".
Authors: P.Babu and R.W. Miles and K.T. Ramakrishna Reddy

3. Prof. V. Rajagopal Reddy
Korean Patent No.: 10-0574106 (2003)
Title of Invention: Light emitting device and manufacturing the same authors: T-Y Seong, S-H Kim and V. Rajagopal Reddy

NUMBER OF PHD'S AWARDED DURING 2017-22

RESEARCH PUBLICATIONS DURING 2017-2022



During the period 2017-22 the Department has published 441 research papers in high Impact Factor Journals. In addition the important research findings have been presented in International /National conferences and published in proceedings.

HONOURS AND AWARDS TO THE FACULTY

Prof. Y.C. Ratnakaram — Mid-Career-UGC
Prof. K.T.Ramakrishna Reddy — Mid-Career-UGC, AP Scientist Award, GOAP, World Scientist
Prof. O.Mohamed Hussain — World Scientist
Prof. S. Vijaya Bhaskara Rao — World Scientist
Prof. P.Shreedhara Reddy — Mid-Career-UGC

Prof. V.Rajagopal Reddy
Best Teacher Award, GoAP., Mid-Career-UGC, Top 2% Scientist in the World, World Scientist

Prof. R.P.Vijayalakshmi
Associate Fellow, A.P.Akademi of Sciences

Prof. B.Deva Prasd Raju
World Scientist

PRESTIGEOUS FELLOWSHIPS

S.NO.	NAME OF THE FACULTY	FELLOWSHIP
1	Prof.K.T. Ramakrishna Reddy	DAAD, COMMON WEALTH, EPSRC, JSPS, MARIE CURIE & ROYAL SOCIETY UK FELLOWSHIPS INSA,UGC,SERC VISITING FELLOWSHIPS
2	Prof.C.K.Jayasankar (Retd.)	ROYAL SOCIETY FELLOWSHIP, SCOTLAND FNASC
3	Prof.V. Rajagopal Reddy	BRAIN KOREA FELLOW, KOREA, VISITING PROFESSOR.

EDITORIAL BOARDS

Prof. K.T. Ramakrishna Reddy:

Member, International J. of Optoelectronic Engineering, SA Publishers, USA.

Member, International J. of Advanced Materials Science, RI Publishers, Delhi.

Prof. O.Md. Hussain :

Editorial Board Member, Materials Science Research India,

Prof. V. Rajagopal Reddy:

Editorial Board Member, Indian Journal of Materials Science,

Prof. B. Deva Prasad Raju

Associate Editor, Journal of Applied Science

BOOKS PUBLISHED DURING 2017-2022

TITLE OF THE BOOK/CHAPTERS	AUTHOR	YEAR
Electrical Properties of n-GaN based MOS type Schottky Junctions	Prof.V. Rajagopal Reddy et.al .	2021
Nano Technology and feature trend applications	Dr. S.Venkatramana Reddy et.al .	2021
Optical studies of rare earth ions doped borate based TCZN oxide glasses	Prof. B. Deva Prasad Raju et.al .	2020
Studies on ZNS based room temperature Ferromagnetic DMS Nano Particles	Prof. R.P. Vijaylakshmi et.al .	2020
Synthesis and Properties of Transition Metal co-doped ZnS Nanoparticles	Dr. S.Venkatramana Reddy et.al .	2019
Ti-Based Schottky Contacts to n-InP: Electronic Device Applications	Prof. V.Rajagopal ReddY et.al .	2018
Phosphors synthesis and applications	Prof. B. Deva Prasad Raju	2018

STUDENT PROGRESSION (2017-2022)

GATE QUALIFIED	05
CSIR NET	08
APPSC	20
DOCTORAL STUDENTS IN ABROAD	11
POST DOCTORAL FELLOWS IN ABROAD	14
SCIENTISTS	05

STUDENT RESEARCH FELLOWSHIPS (2017-22)

UGC-BSR JRF'S	15
UGC- Rajiv Gandhi National FELLOWSHIP	01
CSIR FELLOWSHIP	04
DST INSPIRE FELLOWSHIP	03
RESEARCH ASSOCIATE	01

ADVANCED CENTRES IN THE DEPARTMENT

There are two Advanced Centres in the Department to cater to the needs of User Scientists all over India to work in the fields of MST Radar Applications and Atmospheric Sciences.

- **UGC – SVU Centre for MST Radar Applications**

The centre acts as a liaison between User Scientists from various Universities and institutes in India to work in MST Radar Centre at Gadanki. It provides logistic and financial support to the User Scientists. **Co-ordinator : Prof. S. Vijaya bhaskara Rao**

- **SVU – ISRO Advanced Centre for Atmospheric Sciences**

It provides logistic, financial and academic support to the User Scientists all over India to work in the area of Atmospheric Sciences in Tirupati. **Co-ordinator : Prof. S. Vijaya Bhaskara Rao**

MoUs SIGNED WITH INSTITUTIONS/ INDUSTRIES

NATIONAL	RCI-DRDO, Hyderabad; IISc , Bangalore; DAE-BRNS, Mumbai; NARL, Gadanki; ISRO, Bangalore; RRL, Trivandrum, NREDCAP Amaravathi.
INTERNATIONAL	University of Northumbria, UK; Intnl. Center for Optics, Mexico; University of Ljublajana, Slovenia; University of La Laguna, Spain; Thailand. University of Heriot Watt, UK; University of Paderborn, Germany; Belarus State University, Belarus; Nakhon Pathom Rajabhat University, Tokyo University of Sciences, Japan Institute of Chemical Physics, RAS, Russia.
INDUSTRIES	General Electricals, Bangalore; Honeywell Pvt.Ltd., Bangalore.

MAJOR EQUIPMENT AVAILABLE IN THE DEPARTMENT

Major equipment of worth Rs.792.5 Lakhs is available to caters to the research needs of the Department, Sister Departments of the University and other Institutions outside the University.

S. No	Name of the Equipment	Cost (Rs. In Lakhs)
1	Balzers BA 510E High Vacuum Coating Unit	15.00
2.	JEOL EPR Spectrophotometer	7.50
3.	Automated DLTS Spectrometer	14.00
4.	DC/RF Magnetron Sputtering System	30.00
5.	PHILIPS Liquid Nitrogen Plant	25.00
6.	SEIFERT Powder X-Ray Diffractometer	32.00
7.	Fluorescence Spectrophotometer	30.00
8.	Thermo FTIR Spectrophotometer	15.00
9.	Carl Zeiss Scanning Electron Microscope with EDS	95.00
10.	Perkin Elmer UV-VIS-NIR Spectrophotometer	25.00
11.	Horiba Jobin Yvon LabRAM Raman Spectrometer	70.00
12.	FLS 980 Fluoreseence spectrometer	30.00
13.	Clean Room Facilities	40.00
14.	Meteor Radar and Lidar	176.00
15	Vibrating Sample Magnetometer (VSM)	99.00
16.	High Performing Computing System	50.00
17.	Spectrum Analyzer	25.00
18.	Microwave Rain Radar	14.00
	TOTAL	792.50

EXPERIMENTAL FACILITIES

X-Ray Diffractometer

Horiba Jobin Raman Spectrometer

Meteor Radar

SEM with EDS

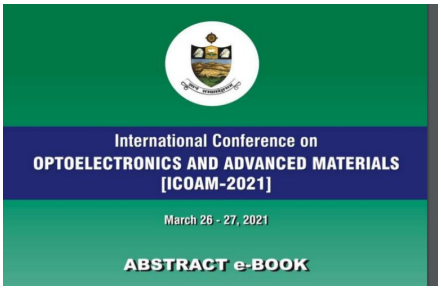
FLS 980 Fluorescence Spectrometer

Lidar

National Conference on Novel Materials for Device applications NCNDMA 2017-18

International Conference on Optoelectronics and Advanced Materials (ICOAM-2021)

Department of Physics in SV University, Tirupati



INDUSTRY VISIT

Industrial visit to SHAR - Srihari kota -ISRO facility with the physics department students

Workshop on Embedded systems and VLSI by Prof. S.Vijaya Bhaskara Rao at Seminar hall, Department of Physics.

SEMINAR BY DIRECTOR IGCAR DR.B.VENKATARAMAN @ SV UNIVERSITY

Prof. Ho Tan, Aus. National Univ

FRESHERS DAY PARTY OF 2018 PHYSICS STUDENTS OF SV UNIVERSITY

ACADEMIC & RESEARCH DETAILS OF FACULTY

(DETAILED STAFF PROFILES CAN BE SEEN UNDER PHYSICS DEPARTMENT AT WWW.SVUNIVERSITY.EDU.IN)

SN	NAME OF THE FACULTY	Teaching Experience	Number of Ph.D. Awarded	Number of Journals Published	H index
1	Prof. Y.C. Ratnakaram	32	21	146	32
2	Prof. K. T. Ramakrishna Reddy	30	26	207	46
3	Prof. O. Md. Hussain	25	15	150	23
4	Prof. S. Vijaya Bhaskara Rao	25	30	166	24
5	Prof. V. Rajagopal Reddy	26	25	220	31
6	Prof. R.P. Vijayalakshmi	23	15	95	24
7	Prof. B.Deva Prasad Raju	25	12	110	32
8	Dr. S. Venkatramana Reddy	20	08	119	24
9	Dr. B. Hemalatha Rudramadevi	12	05	47	10
10	Prof. S. Uthanna	30	18	175	32
11	Prof.C.K.JayaShankar	30	28	323	60

Gold Medal details

S.No	Year	Name of the medal	Purpose
1.	1996	Prof. Rallapalli Ramamurthy Gold Medal	Highest marks in Postgraduate college
2.	2007	Prof. Dodannagari Raja Reddy Memorial Gold Medal	Highest marks in Condensed matter Physics
3.	2007	Prof. B.Krishnamma Raja Reddy Gold Medal	Highest marks in M.Sc to a women student
4.	2007	Prof. J. Lakshmana Rao Gold Medal	Person with highest GATE Rank at the time of Convocation
5.	2009	Sri Thalla Narayana Setty Gold Medal	Student who passes M.Sc With electronics from 2011
6.	2017	Late Smt. Doggolu Venkata Subbamma Gold Medal	Best Woman outgoing student from M.Sc. Physics

Sponsored Research Projects / Funding

SN	Principal Investigator	Project Title & Funding Agency	Amount & Year
1.	Prof. K.T. Ramakrishna Reddy	Investigations on advanced materials for device applications UGC – CAS – II Program	Rs. 280 Lakhs 2015 – 2020
2.	Prof. K.T. Ramakrishna Reddy	Indo – Russian Major Research Project	Rs. 70.30 Lakhs 2017 – 2020
3.	Prof. K.T. Ramakrishna Reddy	InS_3-SnSSe thin film hetero junction for photo voltaic applications DST – New Delhi	Rs. 12.60 Lakhs 2019 – 2021
4.	Prof. S. Vijayabhaskara Rao	UGC – SVU centre for MST Radar Applications UGC – NEW DELHI	Rs. 350.00 Lakhs 2012 – 2019
5.	Prof. S. Vijayabhaskara Rao	Aerosol Radiative Forcing over India (ARFI) ISRO – SPL, Trivandrum	Rs. 35.00 Lakhs 2013 - 2018
6.	Prof. S. Vijayabhaskara Rao	Vertical and Lateral coupling investigations of lower and middle atmospheres using MLT radar networks | DST – India	Rs. 43.39 Lakhs 2014-2018
7.	Prof. S. Vijayabhaskara Rao	ISRO – RESPOND ISRO	Rs. 75.00 Lakhs 2015 – 2020
8.	Prof. S. Vijayabhaskara Rao	Climate change perspectives through studies on aerosols, atmospheric modelling and Remote sensing (UGC- Centre for Potential for Excellence in Particular Area) | DST – India	Rs. 449 Lakhs 2016 – 2021
9.	Prof. S. Vijayabhaskara Rao	Estimation of Escape of water to space through D/H Ratio and atomic hydrogen escape in the Martian upper atmosphere ISRO – MOM – AO Project	Rs. 15.51 Lakhs 2016 – 2019
10	Prof. P. Sreedhara Reddy	MRP – Mid career Award Project UGC – New Delhi	Rs. 8.00 Lakhs 2017
11.	Prof. Y.C. Ratnakaram	MRP – Mid career Award Project UGC – New Delhi	Rs. 8.00 Lakhs 2018
12.	Prof. K.T. Ramakrishna Reddy	MRP – Mid career Award Project UGC – New Delhi	Rs. 10.00 Lakhs 2018
13.	Prof. V.Rajagopal Reddy	MRP – Mid career Award Project UGC – New Delhi	Rs. 10.00 Lakhs 2018
14.	Dr. B. Hemalatha Rudramadevi	CARS – DRDO	Rs. 9.73 Lakhs 2019
15	Dr. Himabindhu Hanumanthu	Students Research Projects (Other than compulsory by the University) DST	Rs. 19.20 Lakhs 2019 – 2021

Publications by Subject Area (Top 10)

Source SCOPUS

Subject Area	Scholarly Output	Citations	Authors	Field-Weighted Citation Impact
Sri Venkateswara University	1,436 ▼	8,967	1,054 ▼	0.85
Engineering	528 ▼	2,552	408	0.74
Physics and Astronomy	395 ▲	3,327	305 ▲	1.12
Materials Science	392 ▼	3,286	308 ▼	1.07
Chemistry	335 ▼	3,002	355 ▲	0.98
Computer Science	243 ▼	634	205 ▼	0.52
Chemical Engineering	184 ▼	1,799	222 ▼	1.08
Biochemistry, Genetics and Molecular Biology	164 ▼	1,049	230 ▼	0.73
Environmental Science	109 ▼	556	165 ▼	0.71
Pharmacology, Toxicology and Pharmaceutics	99 ▼	604	198 ▼	0.75
Mathematics	76 ▼	351	70 ▼	0.94

Physics & Astronomy is contributing to higher research quality

DEPARTMENT OF PHYSICS

SRI VENKATESWARA UNIVERSITY

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