



**One Day National Workshop
on
“EMERGING TRENDS IN RENEWABLE
ENERGY RESOURCES”
3rd August, 2019**



Sponsored by
RUSA- 2.0 Scheme
(Through Ch.S.D.St. Theresa's College for Women,
Eluru, West Godavari Dist., A.P.)



**Organized by
DEPARTMENT OF PHYSICS
Sri Y.N.College (A), Narsapur
In Association with IQAC**

- To debate best technical and sustainable options for increasing renewable energy and energy efficiency.
- Facilitate Research and Development in renewable energy and energy efficiency.

INVITATION TO:

Faculty, Academicians, Researchers & Students

REGISTRATION:

- Faculty & Researchers: 300/-
- Students: 100/-

CONVENERS:

Dr. APV Appa Rao, M.Sc., M.Phil., Ph.D.,
HOD of Physics & Controller of Exams.
Cell Ph. No.: 9441077553.

Sri. J.Rama Mohan, M.Sc., M. Phil.,
Lecturer in Physics
Cell Ph. No.: 9247457224.

ORGANIZING SECRETARY:

Dr.L.Malleswara Rao, M.Sc., M.Phil., Ph.D.,
Lecturer in Physics Cell Ph. No.: 9985137973.

CO-CONVENERS:

Sri.P.Ramakrishna Rao, M.Sc., M. Phil.,
Lecturer in Physics Cell Ph. No.: 9849304924.

Sri. M Shankar, M.Sc.,
Dept of Physics Cell Ph. No.: 8639727388.

TREASURER:

Miss.ASS Jyothi, M.Sc.,
Lecturer in Physics

EXECUTIVE MEMBERS:

Smt. P Rajeswari, M.Sc.,
Miss.G. Suvarchala Devi, M.Sc.,
Miss. K Nagendra Mani, B.Sc.,
Miss. B. Jhansi Lakshmi, M.Sc.,

ADVISORY COMMITTEE:

Dr.C.Satyanarayana Rao,
Secretary & Correspondent
Dr.K Venkateswarlu, Principal
Smt.S.M. Maheswari, Vice Principal
Dr.K Nageswara Rao, Coordinator, IQAC
Sri. R. V. Subba Rao, Research Advisor,
Vignan's University, Guntur and Former HOD, TC &
QCD, IGCAR, Dept of Atomic Energy, Chennai.

INVITED SPEAKERS:

1. **Prof. G. Bhagavannarayana**, Dean, Research, VSM College, Ramachandrapuram and Ex-Chief Scientist, National Physical Laboratory (NPL), New Delhi.
2. **Dr Y Bharath Kumar Reddy**, Additional General Manager, Solar Energy Corporation of India, New Delhi.
3. **Dr P. Balaji Bhargav**, Senior Research Scientist, SSN Research Centre, SSN Institutions, Chennai.
4. **Sri. R. V. Subba Rao**, Research Advisor, Vignan's University and Former HOD, TC&QCD, IGCAR, Dept of Atomic Energy, Chennai.

REGISTRATION FORM

Name:
Designation:
College/Institution:
Address:
Contact Number:
E mail:
Registration fee: DD No.....
Date.....
Bank.....

Station:
Date :

Signature of the Participant



RUSA-2.0 Scheme

(With the Financial assistance from Ch. S. D. St. Theresa's College for Women, Eluru, West Godavari Dist. A.P)

Sponsored

One Day National Workshop

on

"EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES"

3rd August, 2019

9:00A.M to 4:00P.M



ORGANISED BY

DEPARTMENT OF PHYSICS



SRI YN COLLEGE (AUTONOMOUS)

NARSAPUR-534275

W.G. Dist., (A.P)

ABOUT THE COLLEGE:

Narsapur, a small semi-urban coastal town is situated on the banks of the sacred river Vasishta Godavari in West Godavari District of Andhra Pradesh. Sri Yerramilli Narayana Murthy College, Narsapur was established in the year 1949 with the noble cause of serving people in the field of higher education. It is one of the oldest colleges in West Godavari District and has a prestigious history. It attained the status of a full-fledged Degree College in 1956 and has been elevated to Post Graduate level in the year 1989-90. With the untiring efforts of our present Secretary & Correspondent Dr C. Satyanarayana Rao, our college flourished with overall progress. The College celebrated Diamond Jubilee in 2010.

Our College has been accredited by NAAC Thrice at "A" grade. Our college has been selected for the award of "College with Potential for Excellence" by UGC.

UGC conferred Autonomous Status to our College in 2007. We are offering 13 certificate courses sponsored by UGC.

Since its inception, our college has been developing progressively with excellent and impressive infrastructure such as Administrative Block, Physical Sciences Block, Biological Sciences Block, MBA Block, MCA Block and Separate Library Buildings & Computer Labs for UG and PG; well equipped Science Laboratories, Language Labs and Commerce Lab for the overall development of our students. Gandhian Studies Centre sponsored by UGC, Women Empowerment Cell, Jawahar Knowledge Centre (JKC), HRD Centre, Yoga & Health Centre, Two E-Class Rooms, PG Seminar Hall, Two Solar supported decent women's hostels, a spacious Play Ground, Indoor Stadium, Multi Gym and Auditorium. With the valuable support, guidance and assistance

rendered by Andhra University, Adikavi Nannayya University, UGC, AICTE, Commissioner of Collegiate Education (CCE) and other educational authorities, the college evolved as a premier institute of Higher Education.

The College is offering 5 PG courses- MBA, MCA, M.Sc(Organic Chemistry), M.Sc(Mathematics) & M.A(English), 17 UG courses, 7 Intermediate Courses, B.Ed and D.Ed. The present students' strength of the college is about 3100.

ABOUT THE DEPARTMENT:

Introduction: The department of Physics came into existence in the year 1949 with Sri P V Somayajulu as the founder Head of the department. The department was succeeded by the heads Sri B V S Suryanarayana, Sri Y Sundaravasa Rao, Sri S Gurumurthy, Sri T S Prasad, Sri K L N Rao and Dr ARS Kumar.

Dr APV APPA RAO took charge as head of the department in 2017. The department offers various courses such as B Sc - MPC (TM & EM), MPE (EM) and MPCs (EM).

Highlights of the Department:

The Faculty members are highly qualified with 2 doctorates and 2 M.Phils. Faculty members have actively participated in workshops / seminars and presented many number of papers in National and International journals. All the staff members are actively connected with academic extension and extracurricular activities. The department members are nominated in various committees drafted by the Secretary & Correspondent and Principal. Dr A P V Appa Rao acting as controller of examinations. Dr L. Malleswara Rao acting as Public Relation Officer (PRO) and Sri J Rama Mohan acting as Co-ordinator, NSDC, HRD centre of our college.

Infrastructure:

The department is located in an area of 187.42 sq.mts. The lab is fully equipped and furnished with

apparatus and instruments to conduct B Sc-Physics practicals for all the three years of the course. A good number of old and new reference books are available in the department library. The lab has an internet facility through which our students get the advantage of ICT based learning of various programmes transmitted worldwide.

SCOPE OF THE WORKSHOP:

India's population is increasing rapidly and it is expected to be the world's most populous country by 2020. India has the 5th largest power generation portfolio. As the country is facing a huge energy demand, there is a need to tap all the potential renewable energy resources. India is endowed with vast potential of renewable energy resources which are presently tapped upto 31.70 GW of the total installed capacity of 245 GW in the country. India is the fourth largest importer of oil and sixth largest importer of petroleum products. India's utilisation of renewable energy resources is expected to reduce the dependence on expensive imported fossil fuels. Economic growth, increasing prosperity, growing urbanization and rising per capita energy consumption along with the government's increasing role in the development of cleaner fuels, have widened role and importance of the renewable energy generation in India. India needs to fully exploit its potential in solar, hydro, wind and nuclear energy in order to have complete energy security for the nation.

OBJECTIVES:

- To create awareness about renewable energy.
- Understand the various forms of conventional energy resources.
- Learn the present energy scenario and the need for energy conservation.
- Analyse the environmental aspects of renewable energy resources.
- To encourage the preferential use of renewable energy.



Sri Y.N.College (AUTONOMOUS)



Thrice Accredited by NAAC at "A" Grade
Recognized by UGC as "College with Potential for Excellence"
NARSAPUR - 534275, W.G.Dt., A.P.

INAUGURAL FUNCTION

We cordially invite you to the inauguration of

RUSA 2.0 Scheme

(Sponsored by Ch. S. D. St. Theresa's College for Women, Eluru)

National Workshop on

"EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES"

on 3rd August, 2019 at 9.00 A.M. In the P G Seminar Hall.

KEYNOTE ADDRESS

Prof. G. Bhagavannarayana

Dean, Research, VSM College, Ramachandrapuram and Ex-Chief Scientist,
National Physical Laboratory (NPL), New Delhi.
kindly consented to be the Chief guest and inaugurate the Workshop.

GUESTS OF HONOUR

Dr. Y. Bharath Kumar Reddy

Addl. General Manager, Solar Energy Corp. of India, New Delhi.

Dr. P. Balaji Bhargav

Senior Research Scientist, SSN Research Centre, SSN Institutions, Chennai.

Sri R. V. Subba Rao

Research Advisor, Vignan's University and Former HOD,
TC&QCD, IGCAR, Dept. of Atomic Energy, Chennai.

Sri G. V. K. Rama Rao

Vice-President, Sri Y N College (A)
will honour the guests.

Dr. C. Satyanarayana Rao

Secretary & Correspondent, Sri Y N College (A)
will deliver the welcome address

Dr. K. Venkateswarlu

Principal, Sri Y N College (A)
will preside over the function

The Management, Principal,

Staff & students, DEPARTMENT OF PHYSICS



VALEDICTORY FUNCTION

on 3rd August, 2019 at 3.30 P.M.

In the P G Seminar Hall.

Sri G. V. K. Rama Rao

Vice-President, Sri Y N College (A)

will preside over the function

Sri P. Sri Rama Rao

Treasurer, Sri Y N College (A)

will deliver the welcome address

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Prof. G. Bhagavannarayana

Dean, Research, VSM College, Ramachandrapuram and Ex-Chief Scientist,
National Physical Laboratory (NPL), New Delhi.

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Research Advisor, Vignan's University and Former HOD,
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DEPARTMENT OF PHYSICS

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SRI Y N COLLEGE (A)

NARSAPUR, West Godavari District, Andhra Pradesh.

Affiliated to Adikavi Nannaya University, Rajamahendravaram

Thrice Accredited by NAAC with 'A' Grade

Under the Scheme of

RASTRIYA UCHTAR SIKSHA ABHIYAN (RUSA - 2.0 Scheme)

With the Financial assistance from

Ch. S. D. St. Theresa's College for Women, Eluru, West Godavari Dist. A.P

National Work Shop

on

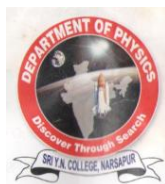
“EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES”

on

3rd August, 2019

Organized by

DEPARTMENT OF PHYSICS



In Association with Internal Quality Assurance Cell (IQAC)



RUSA - 2.0 SCHEME

(Sponsored by Ch. S. D. St. Theresa's College for Women (Autonomous)
(NAAC A+ (3.56 CGPA) 4th Cycle, ISO9001-2015, Eluru, West Godavari Dist. A.P)



ONE DAY NATIONAL WORKSHOP ON "EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES"

On 3rd August 2019

Organised by

DEPARTMENT OF PHYSICS & IQAC
SRI Y.N. COLLEGE (AUTONOMOUS)

(Affiliated to Adikavi Nannaya University)
Thrice Accredited by NAAC at "A" Grade
Recognized by UGC as "College with Potential for Excellence"
NARSAPUR - 534275, W.G.Dt., A.P.



Self Declaration

I hereby declare that the department of Physics of Sri Y N College, Narsapur, W.G.Dt. had successfully conducted One day national Workshop on “**EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES**” 3rd August, 2019 from 9:00A.M to 4:00P.M



**Signature of Convener
(J RAMA MOHAN)
Date 03-09-2019**

CERTIFICATE

This is to certify that the department of Physics of Sri Y N College, Narsapur, W.G.Dt. had fulfilled all the norms and successfully conducted One day national Workshop on “**EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES**” 3rd August, 2019 from 9:00A.M to 4:00P.M with the financial assistance (Rs. 1,10,000/-, Rupees one lakh ten thousand only) from Ch. S. D. St. Theresa’s College for Women, Eluru, West Godavari Dist. A.P., under the Scheme of **RASTRIYA UCHTAR SIKSHA ABHIYAN (RUSA - 2.0 Scheme)** with four resource persons with Chief guest, Prof. G Bhagavannarayana, Dean, Research, V S M College, Ramachandrapuram and Ex-Chief Scientist, National Physical Laboratory (NPL), New Delhi,



Signature of Convener

Principal

RUSA Coordinator

RUSA Coordinator
Ch. S. D. St. Theresa's College for Women, Eluru
West Godavari Dist. A.P.

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ORGANIZING COMMITTEE

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HOD of Physics & Controller of Exams.
Cell Ph. No.: 9441077553.

Sri. J.Rama Mohan, M.Sc., M. Phil.,
Lecturer in Physics
Cell Ph. No.: 9247457224.

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Lecturer in Physics Cell Ph. No.: 9985137973.

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Lecturer in Physics Cell Ph. No.: 9849304924.

Sri. M Shankar, M.Sc.,
Dept of Physics Cell Ph. No.: 8639727388.

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Miss. B. Jhansi Lakshmi, M.Sc.,

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Dr.C.Satyanarayana Rao, Convener
Secretary & Correspondent

MEMBERS:

Dr.K Venkateswarlu, Principal
Smt.S.M. Maheswari, Vice Principal
Dr.K Nageswara Rao, Coordinator, IQAC
Sri. R. V. Subba Rao, Research Advisor, Vignana's University, Guntur & Former HOD, TC & QCD, IGCAR, Dept of Atomic Energy, Chennai.
Sr.Showrilu K, Vice Principal & RUSA Coordinator
Dr.A.Nirmala Jyothsna, HOD, Dept of Physics & Electronics
Dr.K. Sreelatha, Asst. Professor, Dept of Physics

PROGRAMME SCHEDULE

Registration : 8:00A.M to 9:00 A.M

SESSION I

Inauguration : 9:00A.M to 9.45A.M.

SESSION II

Guest Lecutre : 9:45A.M to 11:15 A.M

Prof. G Bhagavannarayana, Dean, Research, VSM College,
Ramachandrapuram & Ex-Chief Scientist, NPL,
New Delhi.

Tea Break : 11:15 A.M to 11:30 A.M

SESSION III

Invited talk : 11:30A.M to 12:30 P.M

Dr Y Bharath Kumar Reddy, Additional General Manager, Solar
Energy Corporation of India, New Delhi.

Lunch Break : 12:30P.M to 1:15 P.M.

SESSION IV

Invited talk : 1:15P.M to 2:15 P.M

Dr P Balaji Bhargav, Senior Research Scientist, SSN
Research Centre, SSN Institutions, Chennai.

SESSION V

Invited talk : 2:15P.M to 3:15 P.M

Sri. R V Subba Rao, Research Advisor, Vignan's University and
Former HOD, TC & QCD, IGCAR, Dept of Atomic Energy.

Tea Break : 3:15 P.M to 3:30 P.M

SESSION VI

Valedictory Funciton: 3:30P.M to 4:00 P.M

REGISTRATION

8AM TO 9AM

The process of registration for the workshop has started at 8AM. Teaching staff and students from various colleges registered on spot for the programme in the given schedule. Forty three faculty members and seven students from other colleges were registered through payment of necessary fee. Faculty members of various departments and final year degree students of our college were participated with great zeal and enthusiasm. Students were given assignment to prepare a overall report of the workshop.

SESSION I: 9AM TO 9.45AM

INAUGURATION

The programme was started at 9AM as per the schedule in PG Seminar hall of Sri Y N College. Miss. A S S Sai Jyothi, Treasurer of the programme invited the dignitaries on to the dias. The programme began with Prayer sung by Miss. P Nagini, Miss. K Tanuja Devi and Miss. O Satyavathi of II B.Sc. (MPCs) students.



Chief Guest, Prof. G Bhagavannarayana, Dean, Research, VSM College, Ramachandrapuram & Ex-Chief Scientist, NPL, New Delhi lighting the holy lamp.

Prof. G. Bhagavannarayana, lighted the holy lamp to inaugurate the Work Shop and announced the commencement of the programme. Dr. K Venkateswarlu, Member, Advisory Committee of the Workshop & Principal of the college acted as president of the Workshop. He delivered the opening remarks and explained various aspects and scope of the programme. Dr. Ch. Satyanarayana Rao, Convener, Advisory Committee of the Workshop & Secretary and Correspondent of the college, invited all the dignitaries through his 'Welcome Address'. Dr. A P V Appa Rao, Head of the Department of Physics and Convener of the Workshop explained the need for the adoption of renewable energy resources and theme of the workshop.



Prof. G. Bhagavannarayana, delivered a presentation which lead inspiration for the topic of the workshop. He stressed the necessity for looking forward in utilizing the renewable energy

Prof. G. Bhagavannarayana, delivered a presentation which lead inspiration for the topic of the workshop. He stressed the necessity for looking forward in utilizing the renewable energy resources.

SESSION II: 9.45AM TO 11.15AM
Keynote address by the Chief Guest



Prof. G. Bhagavannarayana, delivered *Keynote address* in the second session with Topic, “Renewable energy harvesting, storage and conservation- An overview on various methods from conventional to nanotechnology”

Biographical sketch of Dr. G. Bhagavannarayana

Prof. G. Bhagavannarayana born in Machara, EG. Dt., did his M.Sc. from Andhra University and Ph.D. from University of Delhi under the supervision of Prof. Trigunayat, Delhi Univ. and Prof. Krishna Lal, Ex-Director, NPL and Ex-President, INSA, Delhi. He served over 32 years as scientist at various levels (including HOD of Sophisticated Analytical Instruments Division) at CSIR-National Physical Laboratory (NPL). New Delhi. He superannuated from NPL on 31-05- 2015 as a Chief scientist & Professor, and Head Crystal Growth & X-ray Analysis activity and later served as Prof. in Phys, K L University (taught Nano Science and Technology). During 16-1-2016 to 12-02-2018, he served as Director for the R K Valley branch of Rajiv Gandhi University of Knowledge Technologies, AP. His main research areas are growth of device quality nonlinear optical and high-energy radiation detector bulk single crystals by solution and melt techniques and characterization of as grown and processed single crystals, epitaxial layers including hetero bipolar transistor & quantum structures and their devices by various high-resolution X-ray diffraction and scattering techniques. So far, he published more than 300 research articles in high impact factor international SCI journals with more than 6500 citations and 38 h-factor. He also published 60 papers in Proceedings. Two of his research articles were selected in the top 70 outstanding scientific articles out of the 80,000 SCI articles published by CSIR in 70 years in all areas of research compiled on the auspicious occasion of its 70th year of establishment on Sept. 26, 2012. He has delivered more than 120 R&D and academic invited lectures, key note/plenary lectures and chief guest addresses at different prestigious

National/Intl. Conferences/institutions in the country and abroad. During 2011 to 2015 he was teaching M.Tech and Ph.D. students in the newly started “Academy of Scientific and Innovative Research” (ACSIR) programme by CSIR. He is a recipient of MRSI (Materials Research Society of India) best paper award and Prof. P. Ramasamy National Award for Crystal Growth from the Indian Association of Crystal Growth. A patent has been granted for the development of a new non-thermal annealing technique for the fabrication of shallow p-n junctions. He developed a state-of-the-level multicrystal X-ray diffractometer and invented two characterization techniques (i) to characterize epitaxial films for determination of relaxation and composition by a combined X-ray and Raman method and (ii) to determine the crystallographic orientation of surfaces of single crystals or wafers by high resolution XRD. He established many formal collaborations with various R&D and academic institutes like Anna University, SSN College of Engg., Chennai, VIT University, Vellore, Annamalai University, Madurai Kamaraj University, Bharatidasan University, S.T. Hindu College, Nagercoil, Loyola & Presidency Colleges, Chennai, Govt. College (A), Rajahmundry, Delhi University, LASTEC, Delhi, RRCAT, Indoor etc. and guiding many young researchers through his expertise and by giving lectures on different platforms.

Outline of the talk

I. Renewable energy Generation:

- (i) Micro power generation through Piezoelectric Generators
- (ii) Geothermal power plants
- (iii) Micro-hydro-electric power plants
- (iv) Biogas Fuel to generate heat or electricity
- (v) The development of wind power
- (vi) Power generation through fuel cells
- (vii) Bio-fuel development for renewable energy
- (viii) Photo electrochemical cell through artificial photosynthesis
- (ix) Photovoltaic Solar Power plants using bulk single crystal wafers
- (x) Thin film (Single Junction & Multi-junction) solar cells
- (xi) Organic Photovoltaic Cells
- (xii) Dye Sensitized Solar Cells
- (xiii) Quantum Dot Sensitized solar cells
- (xiv) Perovskite Solar Cells

II. Storage of Energy using CNTs in Super-capacitors

III. Conservation of energy through the advanced technologies:

(i) Energy conservation through advanced Light Emitting Diodes (LEDs)

(ii) Energy conservation through superconducting material



Prof. G Bhagavannarayana interacting with the students.

He enlightened the gathering how one can generate renewable energy through various opportunities available for us. He also explained how the energy generated can be stored by making use of the present day research. He interacted with the students, delegates and the members at the end of his *keynote address*. We got an excellent feedback for his talk.

After the completion of *Keynote address*, a small break for tea and snacks was announced for about 15 minutes i.e., from 11.15AM to 11.30AM.

SESSION III: 11.30AM TO 12.30 PM

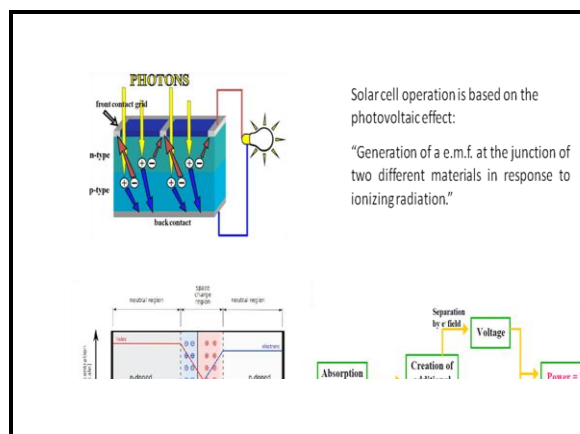
1ST INVITED TALK

The first invited talk was presented by Dr. Y Bharat Kumar Reddy, Additional General Manager, Solar Energy Corporation of India, New Delhi.

Biographical sketch of Dr. Y B K Reddy

Dr. Reddy has wide experience in Solar Photovoltaics in both technical and commercial areas. HE has completed MSC, PhD from at Sri Venkateswara University, Tirupati. He has worked on CIGS thin film solar technology for his doctoral thesis. Before joining SECI he has worked at Sujana Energy Limited, Hyderabad as Technical head, Moser Baer India Limited, Greater Noida as R&D Manager, National University of Singapore and IIT Chennai as Post-doctoral researcher. He has published more than 20 research publications and granted with 2 patents.

Currently he is working as AGM (Solar) at SECI, and taking care of the technical aspects of all types of solar PV systems, Solar projects with storage, Solar-wind hybrid projects, solar radiation assessment and forecasting studies etc. He is also taking care of Project management consultancy and project development activities at SECI.



He presented his talk on the topic “Solar Photovoltaic technologies Fundamentals and Commercial Success” He presented various technologies employed in fabricating the photo voltaic cells. He explained different generations in the development of photo voltaic cells. He elaborated alternate technologies through present day research, for improving the efficiency of PV cells. He explained about the upcoming technologies in establishing the necessary equipment for utilizing solar energy for conversion into electric energy. He presented in a pleasant way how the solar power projects can be established in various fields. We got a tremendous feedback for his presentation.

A working lunch was arranged between 12.30PM and 1.15PM for all the delegates and students.

SESSION IV: 1.15PM TO 2.15PM

2nd INVITED TALK

The second invited talk was presented by Dr. P. Balaji Bhargav, Senior Research Scientist, SSN Research Centre, SSN Institutions, Chennai. .

Biographical sketch of Dr. P. Balaji Bhargav

Dr. P. Balaji Bhargav, Research Scientist, SSN Research Center has 10 years of research and teaching experience. He received M.Sc (Physics) degree from Sri Venkateswara University, Tirupati, Andhra Pradesh with Specialization in Solid State Physics and Ph.D from the same university. He carried out research work on preparation and characterization of solid polymer electrolyte membranes for electrochemical cell applications.

After completion of his Ph.D, he worked in the field of Polymer electrolyte membrane fuel cell (PEMFC) at Yuan Ze Fuel Cell Center, Taiwan for one year as Postdoctoral fellow. He published 30 research publications in refereed international journals and participated in several national and international conferences.

Currently he is working in the fields of Amorphous silicon based thin film solar cells, Nanostructured Silicon based anode materials for Lithium ion battery applications, Development of transparent conducting electrode materials (Graphene, GZO, AZO, Ag nanowires) and Synthesis of metal-oxide nanostructures for Optoelectronic applications.



He presented his talk on the topic “Devices for Conversion and Storage of Energy”. He explained various methods of fabricating solar energy storage devices. He elucidated the present day research carrying out on different types of energy storage devices. He presented detailed explanation of synthesizing most efficient renewable energy storage devices.

SESSION V: 2.15PM TO 3.15PM

3RD INVITED TALK

The third invited talk was presented by Mr. R V Subbarao, Research Advisor, Vignan's University and Former HOD, TC & QCD, IGCAR, Dept of Atomic Energy.

Biographical sketch of Mr. R V Subbarao

R.V. Subba Rao did his M. Sc (Physics) in **Andhra University, Visakhapatnam** and joined the 24th batch of the **BARC Training School** in 1980. After successfully completing the training, he joined the Metallurgy and Materials Group of Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam. He specialized in the areas of Surface Analysis and Laser Surface Modification. He was associated in the development of the Country's first *indigenous Scanning Auger Microprobe* built by Bhabha Atomic Research Centre (BARC) in the earlier years of his career and worked on its upgradation at IGCAR. He has also successfully adopted the *indigenously built Multibeam CO₂ Laser System* for R&D works of surface modification of structural materials for improving corrosion and oxidation resistance. He has carried out certain very specific assignments of strategic nature for the Department and was responsible for increasing the lifetime of a key component.

He was in IFW, Dresden, Germany for one year on deputation and after returning back he established a sophisticated surface characterization laboratory equipped with *X-ray Photoelectron Spectroscopy and Laser Raman Microscopy* facilities for carrying out passivation studies at Corrosion Science and Technology Group. He has contributed to the process development of fluoride passivation of maraging steels for RMP, Mysore plant and in evolving the chemical cleaning procedure of PFBR-Steam Generator tubes at L&T shop floor during fabrication stage. He has published about 70 papers in reputed International and National Journals and edited a couple of books. He organized several International Conferences and served in the Editorial Board of the Annual Reports of the Research Centre for over 8 years. He took charge of the IGCAR Campus of the BARC Training School for a couple of years and later moved to a strategic project of the Department, **Fast Reactor Fuel Cycle Facility (FRFCF)**. While handling the Strategic Planning works of FRFCF he was assigned the responsibilities of **Heading the Technical Coordination & Quality Control Division** located inside BARC, Mumbai and so he had to relocate to Mumbai and he laid down his office from Mumbai after completing 36 years of Glorious Service in the Department of Atomic Energy.

Currently he is **Research Advisor** to Vignan's Foundation for Science, Technology and Research, **VFSTR** (Deemed to be University), Vadlamudi, Guntur Dt., Andhra Pradesh



- Country of 1.1 billion people with population likely to stabilize at 1.5 billion by 2050.
- 6th largest producer of electricity in the world.
- Given our large population the per capita electrical consumption continues to be very low (1/6 of world average).
- To reach at least the world average standards and to meet the needs of our growing population power generation has to be increased many folds.
- For such large requirements all sources of energy have to be deployed.
- Presently 86% of our electricity needs are met by burning coal/oil.
- However the coal/oil option, has severe global impacts on environment and commerce in addition to huge infrastructure needs.
- In our energy mix nuclear energy role has to be increased in addition to hydro and non-conventionals.

He presented his talk on the topic “Atomic Energy for Energy Security and for Enhancing Quality of Life”. He stressed the necessity for the usage of atomic energy as an alternative source of non-renewable energy resources. He reported that the atomic energy generation by using Thorium will be very cheaper, as it is available abundantly in our country. He explained and announced that no one can be panic in utilizing the nuclear power.

After the completion of *all the invited talks*, a small break for tea and snacks was given for about 15 minutes i.e., from 3.15PM to 3.30PM.

SESSION VI: 3.30PM TO 4.00PM

VALEDICTORY FUNCTION & DISTRIBUTION OF CERTIFICATES

The programme was started at 3.30pm as per the schedule. Miss. A S S Sai Jyothi, Treasurer of the programme invited the dignitaries on to the dias. The programme began with Prayer sung by Miss. T Naga Peddintlu and Miss. JVSSLB Nikhila of III B.Sc. (MPE) students. Mr. G V K Rama Rao, Vice President of our college presided over the valedictory function. He appreciated all the resource persons along with the chief guest for their valuable presence and participation in the National

Workshop. He advised the participants to follow the talks and be useful for the overall development of the nation. He proclaimed that the programme became grand success and the theme of the programme was fulfilled. Then, the delegates were presented with the certificates by the Chief Guest, Prof. G Bhagavannarayana. Finally, vote of thanks was presented by Mrs. P Rajeswari, Executive member of the Workshop and Lecturer in Physics of our college. Then, National anthem was sung by all the participants along with Miss. K Subhashini and Miss P Parvathi Naga Sudha of III MPCs. students.



Distribution of Workshop Participation certificate to Participants by Resource Person Prof. G. Bhagavannarayana & RV Subba Rao and Vice President in the valedictory function

CONCLUSION

The one day national workshop on “Emerging Trends in Renewable Energy Resources” was conducted by Department of Physics of Sri Y N College, Narsapur on 3rd August, 2019 successfully with financial support from Ch. S D St. Theresa’s College for women, Eluru under RUSA-2.0 scheme. Four eminent personalities from various fields attended as resource persons and enlightened

the participants. About 84 delegates registered for the workshop and 99 students registered for the workshop. The management members and participants expressed gratefulness for the performing the workshop in a pleasurable manner. The students of our and other colleges interacted with the resource persons and benefitted in getting acquaintance with the present day research work of getting and storing the renewable energy from various sources.

GUESTS OF HONOUR



Felicitations to Prof. G Bhagavannarayana, Chief Guest by Staff and Management.



Felicitations to Dr. Y Bharat Kumar Reddy, Guest Speaker



Felicitations to Dr. P Balaji Bhargav, Guest Speaker



Felicitations to Mr. R V Subbarao, Guest Speaker



Group photo of faculty of Department of Physics with Resource persons and Management members.



Participants with resource persons at a glance.



SRI Y.N. COLLEGE (AUTONOMOUS)

(Affiliated to Aadikavi Nannaya University, Rajamahendravaram)
Thrice Accredited by NAAC at "A" Grade
Recognized by UGC as "College with Potential for Excellence"
NARSAPUR - 534275, W.G.Dt., A.P.



RUSA - 2.0 SCHEME

(Sponsored by Ch. S. D. St. Theresa's College for Women (Autonomous)
(NAAC A+ (3.56 CGPA) 4th Cycle, ISO9001-2015, Eluru, West Godavari Dist. A.P)

Certificate of Participation

This is to Certify that Smt. P. Rajeswari, Lecturer in Physics,
Sri YN College, Narsapur. has Participated in the
One Day National Workshop on

"EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES"

organised by
Department of Physics, Sri YN College(A), Narsapur
on 3rd August, 2019.


Organising Secretary


Convener





Principal

To debate best technical and sustainable options for increasing renewable energy and energy efficiency.

Facilitate Research and Development in renewable energy and energy efficiency.

INVITATION TO:

Faculty, Academicians, Researchers & Students

REGISTRATION:

Faculty & Researchers: 300/-
Students: 100/-

CONVENERS:

Dr. APV Appa Rao, M.Sc., M.Phil., Ph.D.,
HOD of Physics & Controller of Exams.
Cell Ph. No.: 9441077553.

Sri. J.Rama Mohan, M.Sc., M. Phil.,
Lecturer in Physics
Cell Ph. No.: 9247457224.

ORGANIZING SECRETARY:

Dr.L.Malleswara Rao, M.Sc., M.Phil., Ph.D.,
Lecturer in Physics Cell Ph. No.: 9985137973.

CO-CONVENERS:

Sri.P.Ramakrishna Rao, M.Sc., M. Phil.,
Lecturer in Physics Cell Ph. No.: 9849304924.

Sri. M Shankar, M.Sc.,

Dept of Physics Cell Ph. No.: 8639727388.

TREASURER:

Miss.ASS Jyothi, M.Sc.,
Lecturer in Physics

EXECUTIVE MEMBERS:

Smt. P Rajeswari, M.Sc.,
Miss.G. Suvarchala Devi, M.Sc.,
Miss. K Nagendra Mani, B.Sc.,
Miss. B. Jhansi Lakshmi, M.Sc.,

ADVISORY COMMITTEE:

Dr.C.Satyanarayana Rao,

Secretary & Correspondent

Dr.K Venkateswari, Principal

Smt.S.M. Maheswari, Vice Principal

Dr.K Nageswara Rao, Coordinator, IQAC

Sri. R. V. Subba Rao, Research Advisor,

Vignana's University, Guntur and Former HOD, TC & QCD, IGCAR, Dept of Atomic Energy, Chennai.

Sr.Showrila K, Vice Principal & RUSA Coordinator

Dr.A.Nirmala Jyothsna, HOD, Dept of Physics & Electronics

Dr.K. Sreelatha, Dept of Physics, Asst. Professor

INVITED SPEAKERS:

1. Prof. G. Bhagavanarayana, Dean, Research,
VSM College, Ramachandrapuram and Ex-Chief Scientist, National Physical Laboratory (NPL), New Delhi.

2. Dr Y Bharath Kumar Reddy, Additional General Manager, Solar Energy Corporation of India, New Delhi.

3. Dr P. Balaji Bhargav, Senior Research Scientist, SSN Research Centre, SSN Institutions, Chennai.

4. Sri. R. V. Subba Rao, Research Advisor, Vignana's University and Former HOD, TC&QCD, IGCAR, Dept of Atomic Energy, Chennai.

REGISTRATION FORM

Name:

Designation:

College/Institution:

Address:

Contact Number:

E mail:

Registration fee: DD No.

Date:

Bank:

Station:

Date :

Signature of the Participant



RUSA-2.0 Scheme

(With the Financial assistance from Ch. S. D. St. Theresa's College for Women, Eluru, West Godavari Dist. A.P)

Sponsored

One Day National Workshop

on

"EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES"

3rd August, 2019

9:00A.M to 4:00P.M



ORGANISED BY

DEPARTMENT OF PHYSICS



SRI YN COLLEGE (AUTONOMOUS)

NARSAPUR-534275

W.G. Dist., (A.P)

ABOUT THE COLLEGE:

Narsapur, a small semi – urban coastal town is situated on the banks of the sacred river Vasistha Godavari in West Godavari District of Andhra Pradesh. Sri Yerramilli Narayana Murty College, Narsapur was established in the year 1949 with the noble cause of serving people in the field of higher education. It is one of the oldest colleges in West Godavari District and has a prestigious history. It attained the status of a full-fledged Degree College in 1956 and has been elevated to Post Graduate level in the year 1989-90. With the untiring efforts of our present Secretary & Correspondent Dr C. Satyanarayana Rao, our college flourished with overall progress. The College celebrated Diamond Jubilee in 2010.

Our College has been accredited by NAAC Thrice at "A" grade. Our college has been selected for the award of "College with Potential for Excellence" by UGC.

UGC conferred Autonomous Status to our College in 2007. We are offering 13 certificate courses sponsored by UGC.

Since its inception, our college has been developing progressively with excellent and impressive infrastructure such as Administrative Block, Physical Sciences Block, Biological Sciences Block, MBA Block, MCA Block and Separate Library Buildings & Computer Labs for UG and PG; well equipped Science Laboratories, Language Labs and Commerce Lab for the overall development of our students. Gandhian Studies Centre sponsored by UGC, Women Empowerment Cell, Jawahar Knowledge Centre (JKC), HRD Centre, Yoga & Health Centre, Two E-Class Rooms, PG Seminar Hall, Two Solar supported decent women's hostels, a spacious Play Ground, Indoor Stadium, Multi Gym and Auditorium. With the valuable support, guidance and assistance

rendered by Andhra University, Adikavi Nannayya University, UGC, AICTE, Commissioner of Collegiate Education (CCE) and other educational authorities, the college evolved as a premier institute of Higher Education.

The College is offering 5 PG courses- MBA, MCA, M.Sc(Organic Chemistry), M.Sc(Mathematics) & M.A(English), 17 UG courses, 7 Intermediate Courses, B.Ed and D.Ed. The present students' strength of the college is about 3100.

ABOUT THE DEPARTMENT:

Introduction: The department of Physics came into existence in the year 1949 with Sri P V Somayajulu as the founder Head of the department. The department was succeeded by the heads Sri B V S Suryanarayana, Sri Y Sundarasiya Rao, Sri S Gurusamrthy, Sri T S Prasad, Sri K L N Rao and Dr AKS Kumar.

Dr APV APPA RAO took charge as head of the department in 2017. The department offers various courses such as B.Sc - MPC (TM & EM), MPE (EM) and MPCs (EM).

Highlights of the Department:

The Faculty members are highly qualified with 2 doctorates and 2 M.Phils. Faculty members have actively participated in workshops / seminars and presented many number of papers in National and International journals. All the staff members are actively connected with academic extension and extracurricular activities. The department members are nominated in various committees drafted by the Secretary & Correspondent and Principal. Dr A P V Appa Rao acting as controller of examinations. Dr L. Malleswara Rao acting as Public Relation Officer (PRO) and Sri J Rama Mohan acting as Co-ordinator, NSDC, HRD centre of our college.

Infrastructure:

The department is located in an area of 187.42 sq.mts. The lab is fully equipped and furnished with

apparatus and instruments to conduct B.Sc-Physics practicals for all the three years of the course. A good number of old and new reference books are available in the department library. The lab has an internet facility through which our students get the advantage of ICT based learning of various programmes transmitted worldwide.

SCOPE OF THE WORKSHOP:

India's population is increasing rapidly and it is expected to be the world's most populous country by 2020. India has the 5th largest power generation portfolio. As the country is facing a huge energy demand, there is a need to tap all the potential renewable energy resources. India is endowed with vast potential of renewable energy resources which are presently tapped upto 31.70 GW of the total installed capacity of 245 GW in the country. India is the fourth largest importer of oil and sixth largest importer of petroleum products. India's utilisation of renewable energy resources is expected to reduce the dependence on expensive imported fossil fuels. Economic growth, increasing prosperity, growing urbanization and rising per capita energy consumption along with the government's increasing role in the development of cleaner fuels, have widened role and importance of the renewable energy generation in India. India needs to fully exploit its potential in solar, hydro, wind and nuclear energy in order to have complete energy security for the nation.

OBJECTIVES:

- To create awareness about renewable energy.
- Understand the various forms of conventional energy resources.
- Learn the present energy scenario and the need for energy conservation.
- Analyse the environmental aspects of renewable energy resources.
- To encourage the preferential use of renewable energy.



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INAUGURAL FUNCTION

We cordially invite you to the inauguration of

RUSA 2.0 Scheme

(Sponsored by Ch. S. D. St. Theresa's College for Women, Eluru)

National Workshop on

"EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES"

on 3rd August, 2019 at 9.00 A.M. In the P G Seminar Hall.

KEYNOTE ADDRESS

Prof. G. Bhagavannarayana

Dean, Research, VSM College, Ramachandrapuram and Ex-Chief Scientist,
National Physical Laboratory (NPL), New Delhi.

kindly consented to be the Chief guest and inaugurate the Workshop.

GUESTS OF HONOUR

Dr. Y. Bharath Kumar Reddy

Addl. General Manager, Solar Energy Corp. of India, New Delhi.

Dr. P. Balaji Bhargav

Senior Research Scientist, SSN Research Centre, SSN Institutions, Chennai.

Sri R. V. Subba Rao

Research Advisor, Vignan's University and Former HOD,
TC&QCD, IGCAR, Dept. of Atomic Energy, Chennai.

Sri G. V. K. Rama Rao

Vice-President, Sri Y N College (A)
will honour the guests.

Dr. C. Satyanarayana Rao

Secretary & Correspondent, Sri Y N College (A)
will deliver the welcome address

Dr. K. Venkateswarlu

Principal, Sri Y N College (A)
will preside over the function

The Management, Principal,

Staff & students, DEPARTMENT OF PHYSICS

VALEDICTORY FUNCTION

on 3rd August, 2019 at 3.30 P.M.

In the P G Seminar Hall.

Sri G. V. K. Rama Rao

Vice-President, Sri Y N College (A)
will preside over the function

Sri P. Sri Rama Rao

Treasurer, Sri Y N College (A)
will deliver the welcome address

GUESTS OF HONOUR

Prof. G. Bhagavannarayana

Dean, Research, VSM College, Ramachandrapuram and Ex-Chief Scientist,
National Physical Laboratory (NPL), New Delhi.

Dr. Y. Bharath Kumar Reddy

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Research Advisor, Vignan's University and Former HOD,
TC&QCD, IGCAR, Dept of Atomic Energy, Chennai.

Dr. K. Venkateswarlu

Principal, Sri Y N College (A)
will honour the guests

The Management, Principal,

Staff & students

DEPARTMENT OF PHYSICS

Registration No. 272112

PROVIDED BILLS



DEPARTMENT OF PHYSICS SRI Y.N.COLLEGE (AUTONOMOUS)-NARSAPUR

(Affiliated to Adikavi Nannaya University)

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RUSA-2.0 SCHEME

(With the Financial assistance from Ch. S. D. St. Theresa's College for
Women, Eluru, West Godavari Dist. A.P)

STATEMENT OF EXPENDITURE UNDER WORKSHOP

(For the period from 01-06-2019 to 24-8-2019)

File No.	
Title of the Workshop & date	<i>EMERGING TRENDS IN RENEWABLE ENERGY RESOURCE</i> , 3rd August, 2019
Name of convenor	Sri J Rama Mohan, Lecturer in Physics
Name of the Organising secretary	Dr L Malleswara Rao, Lecturer in Physics

RECEIPTS AND PAYMENTS ACCOUNT

RECEIPTS		PAYMENTS	
To Opening balance	NIL	By Pre-programme expenditure	25,055-00
Grant received from RUSA 2.0 from Ch. S. D. St. Theresa's College for Women, Eluru through Sri Y. N. College, Narsapur	1,10,000-00	TA, DA & Honorarium	54,317-00
		Expenditure at the Programme	43,976-00
		Post programme expenditure	3,150-00
Registration	13,600-00		
Advance by Convenor	2,898-00		
Total	1,26,498-00	Total	1,26,498-00


Convenor





DEPARTMENT OF PHYSICS
SRI Y.N.COLLEGE (AUTONOMOUS)-NARSAPUR
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RUSA-2.0 SCHEME

(With the Financial assistance from Ch. S. D. St. Theresa's College for Women, Eluru, West Godavari Dist. A.P)

STATEMENT OF EXPENDITURE UNDER WORKSHOP

(For the period from 01-06-2019 to 24-8-2019)

File No.	
Title of the Workshop & date	EMERGING TRENDS IN RENEWABLE ENERGY RESOURCE , 3rd August, 2019
Name of convenor	Sri J Rama Mohan, Lecturer in Physics
Name of the Organising secretary	Dr L Malleswara Rao, Lecturer in Physics

INCOME AND EXPENDITURE

Expenditure		Income	
To Pre-programme expenditure	25,055-00		
TA,DA & Honorarium	54,317-00	By Grant received from RUSA 2.0 from Ch. S. D. St. Theresa's College for Women, Eluru through Sri Y. N. College, Narsapur	1,10,000-00
Expenditure at the Programme	43,976-00		
Post programme expenditure	3,150-00		
		Registration	13,600-00
		Excess of expenditure towards workshop	2,898-00
Total	1,26,498-00	Total	1,26,498-00


Convenor





DEPARTMENT OF PHYSICS
SRI Y.N.COLLEGE (AUTONOMOUS)-NARSAPUR

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RUSA-2.0 Scheme

(With the Financial assistance from Ch. S. D. St. Theresa's College for Women, Eluru, West Godavari Dist. A.P)

STATEMENT OF EXPENDITURE UNDER WORKSHOP
(FINANCIAL YEAR 2019-2020)

File No.	F.MRP-325/2019 (W/S/C//RUSA 2.0-STC)
Title of the Workshop & date	EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES , 3rd August, 2019
Name of convenor	Sri J Rama Mohan, Lecturer in Physics
Name of the Organising secretary	Dr L Malleswara Rao, Lecturer in Physics

Sanction No. & Date	Amount of Grant Sanctioned from RUSA	Grant/income from other sources including registration fee	Total Income from all sources (Rs.)	Total Expenditure incurred (Rs.)	Net outstanding to be sanctioned (Rs.)	No. of participants	Duration of the Activity (with dates)
No.: 1-19/38 (June, 2019)	1,10,000	43x300=12900 7x100=700	1,23,600	1,26,498.27	2898.27	50	One day (03-08-2019)

Income and expenditure statement

S.No.	Date	Particulars	Income (Rs.)	Expenditure (Rs.)
		I installment amount	75000.00	
		II installment amount	35000.00	
		Income through Registration fee (43x300 + 7x100)	13600.00	
		TOTAL	123600.00	

Pre programme expenditure:

1.	3.7.2019	Bill No. 168, Sri Rajeswari Book Stall, Narsapur Paper (A4 – 4 reams & legal - 1 ream)		935.00
2.	4.7.2019	Bill No. 233, Sri Rajeswari Book Stall, Narsapur Long note book		45.00
3.	11.7.2019	DTDC Nos. H88610260, 261 & 262 Courier charges for sending letters to the resource persons		190.00
4.	23.7.2019	Sl. No. 110, Krishna Sweet Mart & General Stores, Narsapur Refreshments at the meeting conducted for the department and committee members		670.00

5.	24.7.2019	No. 80, Berhampur Khadi Silk Stores, Rjy, Shaals for felicitation of resource persons and other guests	3120.00
6.	24.7.2019	Sl. No. 484, B K Javar;s, Rjy, Folder files for participants and others attending for the workshop	3920.00
7.	24.7.2019	No. 64, Sri Manikanta Book Center, Rjy, Button files and pens for the participants and others.	3650.00
8.	24.7.2019	Expenditure for purchasing the items in S. No. 4, 5 & 6	2919.39
9.	25.7.2019	No. 62, Creative Services, Stickers, Lunch coupons, Receipts, Certificates (4/c) and Invitations (2/c)	4500.00
10.	25.7.2019	No. 508, Sri Rajeswari Book Stall, Narsapur, Covers for sending Invitations and others	80.00
11.	25.7.2019	V. No. 01, For Xerox copies of registration forms, feedback forms, programme sheets etc.	450.00
12.	2.8.2019	No. 49, Creative Services, Nsp. for Welcome banner, Banner for resource persons, flexes etc.	3030.00
13.	2.8.2019	V.No. 02, remuneration for displaying the banners along the path to the workshop hall	500.00
14.	2.8.2019	CM No. 1592-6510082855 More Super Market, Nsp. Eveready Red AA, Water bottles, etc.	104.50
15.	2.8.2019	CM No. 1592-7762027730 More Super Market, Nsp. Apple Royal Gola for resource persons	155.38
16.	2.8.2019	Bill No. SP31607 grocery (Toilet kits for resource persons)	616.00
17.	2.8.2019	Bill No. 932, Venkata Satya Enterprises, grocery (Toilet kits for resource persons)	40.00
18.	2.8.2019	S.No. 119, Jagadamba China Bazar, Narsapur, Laser light pointer for PPT presentations	70.00
19.	2.8.2019	Bill No. 1396, Aditya Super Bazar, Narsapur, grocery (Toilet kits for resource persons)	60.00

25055

TA, DA & Honorarium for Resource persons:

I. Dr. Y B K Reddy, Addl. Gen. Manager, Solar Energy Corporation of India, New Delhi:

20.	2.8.2019	Flight tickets – New Delhi to Vijayawada & Vijayawada to New Delhi	9622.00
21.	2.8.2019	V.No. 03, taxi fare Gannavaram airport to Narsapur	4800.00
22.	2.8.2019	Bill No. 6766, Hotel Grand Arya, dinner	970.00
23.	2.8.2019	Ticket No. OIXB-4761, Toll gate fee	65.00
24.	2.8.2019	Ticket No. 0520190802170858854, Toll gate fee	130.00
25.	2.8.2019	Ticket No. 152772, Toll gate fee	60.00
26.	3.8.2019	V. No.: 04, Honorarium	6000.00
27.	4.8.2019	V.No. 05, taxi fare Gannavaram airport to Narsapur	4800.00
28.	4.8.2019	Ticket No. 01201908041908231987, Toll gate fee	45.00
29.	4.8.2019	Ticket No. 131495, Toll gate fee	60.00
30.	4.8.2019	Ticket No. 0005-4323, Toll gate fee	65.00

2. Prof. G Bhagavannarayana, Dean, Research, VSM College, Ramachandrapuram:				
31.	2.8.2019	No. 22, Jai Sri Appana Plaza-Vasavi Sai Function Hall, Narsapur – stay for the chief guest and others		3000.00
32.	3.8.2019	V. No. : 06, TA for Prof. G Bhagavannarayana		4000.00
33.	3.8.2019	V. No. : 07, Honorarium		6000.00
3. Dr. P Balaji Bharghav, Senior Research Scientist, SSN Research Centre, SSN Institutions, Chennai:				
34.	3.8.2019	V. No. : 08, TA (Rs. 2700/-) & Honorarium (Rs. 6000/-) to Dr. P Balaji Bharghav		8700.00
4. Sri R V Subba Rao, Research Advisor, Vignan University, Guntur:				
35.	3.8.2019	V.No. 09, Honorarium for Mr. R V Subba Rao		6000.00
				54317
<u>Expenditure at the programme:</u>				
36.	3.8.2019	Receipt No. 10, snacks for delegates, guests and members on duty at the workshop		3750.00
37.	3.8.2019	Receipt No. 11, Refreshments and other expenses for the resource persons and others at the workshop		980.00
38.	3.8.2019	No. 81, Phanisree catering and suppliers, Narsapur, lunch for resource persons, delegates and other members on duty of the workshop		26000.00
39.	3.8.2019	No. 82, Phanisree catering and suppliers, Narsapur, Shamiyana for arrangement of lunch for resource persons, delegates and other members on duty of the workshop		3000.00
40.	3.8.2019	No 22, Sri Satya Saibaba Sweet Home, Narsapur, for evening snacks		6150.00
41.	3.8.2019	Receipt No. 12, Tea and coffee for the delegates and other members at the workshop		1950.00
42.	3.8.2019	B. No. 13, C L N Dhavaji Sons, water bottles at the dias		216.00
43.	3.8.2019	No. 2, Manasa Fancy & General Stores, Narsapur, Holy lamp requirements		430.00
44.	3.8.2019	No. 14, Sri Devi Flower merchants, Narsapur, Garlands and bouquets for felicitations		1500.00
				43976
<u>Post programme expenditure:</u>				
45.	9.8.2019	No 27, Sri Satya Saibaba Sweet Home, Narsapur, snacks for the thanks giving function for the members of the workshop		1560.00
46.	24.8.2019	No. 69, Das Digital Studio, Narsapur, photos of the workshop		1550.00
47.	24.8.2019	No. H89338549, courier charges for sending the memento for Prof. G Bhagavannarayana		40.00
GRAND TOTAL			123600.00	126498.27
Net balance amount to be sanctioned			2898.27	

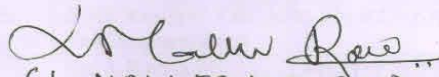
3150

I have satisfied myself that the Statement of Expenditure is accurate, results from reliable accounting systems and is based on verifiable supporting documents



(J. RANA MOHAN)

(Name and Signature of Convener)



(L. MALLESWARA RAO)

(Name and Signature of Organising Secretary)



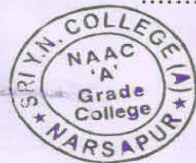
(Name and Signature of Principal of the College)

PRINCIPAL

Sri Y.N. College (Autonomous)

NAAC Accredited 'A' Grade College

NARSAPUR - 534 275, W.G.D., (A.P)



Id No:
19226356
AAAABT4212

Signature (with Seal) of the authority as indicated in sub clause (q) of clause 3 of chapter I of research funding rules, 2015.

CH. S. D. ST. THERESA'S COLLEGE FOR WOMEN (AUTONOMOUS), ELURU

Affiliated to Adikavi Nannaya University, Rajamahendravaram
College of Excellence, NAAC A* (3.56/4)

Phone numbers: 08812-251210, Fax: 08812-250380, Website: www.chsdtheresacollege.net

Email: chsdtheresa@gmail.com, st_theresa2003@yahoo.co.in

Contact Nos: 7337461488, 9490970007, 9441751205

From
The Principal
St. Theresa's College, Eluru

No: P-MRP-325/2019 (W/S/C/RUSA 2.0-STC)

Dated : June, 2019

The Accounts Officer
Ch. S. D. St. Theresa's (A) College for Women,
Eluru, West Godavari Dist. 534003

LINKNO: 1-19/38

Department of Physics

Sub: Financial Assistance to conduct One-Day National level Workshop on 'Emerging Trends in Renewable Energy Resources'-Approval-Cum Sanction Letter of first instalment - reg.

Sir/Madam,

This has reference to conduct One-Day National level Workshop on 'Emerging Trends in Renewable Energy Resources' submitted by Dr. L. Malleswara Rao, Organising Secretary Sri. J.Rama Mohan, Convener, Department of Physics, Sri Y N College, Narsapur, W.G. Dist. A.P. for Financial Assistance under the above scheme and to say that RUSA Coordinator has approved a grant of Rs. 1, 10,000/- to the Convener for undertaking the above mentioned One-Day National Level Seminar as per the items of the expenditure listed below:

FINANCIAL ASSISTANCE IS SOUGHT

	Amount allocated (Rs)	Amount sanctioned as first instalment(Rs.)
a. TA and Honorarium	30,000/-	15,000/-
b. Pre-Workshop printing (Announcements, Invitations, Abstracts, DTP & Printing etc.)	15,000/-	7,500/-
c. Participants certificates & Kits	25,000/-	12,500/-
d. Local Hospitality including board and lodging: (may be restricted to 25% of the total allocation from the UGC)	30,000/-	15,000/-
e. Banners and Photos	10,000/-	5,000/-
(GRAND TOTAL): Rs.	1, 10,000/-	55,000/-

1. I am further to convey the sanction of the above said payment under RUSA Rs. 55,000/- to the Principal, Sri Y N College, Narsapur, W.G. Dist. A.P. of the concerned college as first instalment towards the above project.
2. The above approval is subject to the general conditions of grants prescribed by the RUSA for the scheme.
3. The sanctioned amount is valid for payment during the financial year 2019-20 only and the amount of the grant shall be credited to "The Principal of the Concerned College", by electronic mode.

4. In case the Convener of the Workshop has been transferred/ left/ retired from the college, the released amount may be returned to The Principal, St. Theresa's College immediately.
5. The Convener is required to submit the Workshop report along with the documents 1) Workshop Report 2) Utilization Certificate duly signed by the Convener, Principal 3) Statement of expenditure duly signed by the Convener, for the first installment of grant received immediately on completion of conducting Workshop.
6. The college must send the filled in Acknowledgement Certificate within 15 days of receipt of this letter else the college may return the sanctioned amount to this office.
7. The grant is subject to the adjustment based on utilization certificate in the prescribed proforma submitted by the Institution.
8. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished as early as possible after the close of current financial year.
9. National Level Workshop To be completed on or before 30th December 2019.
10. Date of One-Day National Level Workshop: The effective date of conducting One-Day National Level Seminar will be the date of receipt of fund by the Institution.

Yours faithfully,

Dr. Sr. Marietta D. mello
Dr. Sr. Marietta D. mello

Ch. S.D. St. Theresa's College for Women,
ETURU-534 803(W.G.Dist.A.P.)

The sanctioned grant will be transferred to your college account by e-payment. You are requested to acknowledge the receipt of the above amount by sending the acknowledgement form within 15 days.

Copy to:

1. The Principal,
Sri Y N College,
Narsapur, W.G. Dist. A.P.
2. MR/MRS/MS: Dr. L. Malliswara Rao, Organising Secretary
Sri. J Rama Mohan,
Convener
Sri Y N College,
Narsapur, W.G. Dist. A.P.

Yours faithfully,



DEPARTMENT OF PHYSICS
SRI Y.N.COLLEGE (AUTONOMOUS)-NARSAPUR

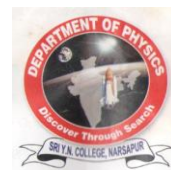
(Affiliated to Adikavi Nannaya University)

Thrice Accredited by NAAC at 'A' Grade

Recognized by UGC as 'College with Potential for Excellence'

RUSA-2.0 Scheme

(With the Financial assistance from Ch. S. D. St. Theresa's College for Women, Eluru, West Godavari Dist. A.P)



One Day National Workshop on

"EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES"

3rd August, 2019

WORKSHOP EVALUATION FORM (FEEDBACK FORM)

Thank you for participating in the workshop. We hope you find it valuable to. We would appreciate if you could take a few minutes to fill out this feedback form so that we can improve the workshop for future attendees.

	Excellent	Very Good	Good	Fair
1. The workshop was well organised				
2. Speaker's Knowledge of the Subject				
3. Speaker's ability to gain and keep my attention				
4. Visual Aids				
5. facilities provided by the College				
6. Additional Resources available				
7. The Workshop increased my knowledge and skill in renewable energy				
8.The information and skills presented were relevant and useful				
9.The presenter (s) provided adequate time for questions and answered them satisfactory.				
10.Overall Rating				

"EMERGING TRENDS IN RENEWABLE ENERGY RESOURCES"

Registration of staff members and Participants:





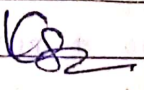
- 1) Sri. R. V. Subba Rao, Research Advisor, Vignana's University and former HOD, TSSSCD, IQCAR, Chennai
- 2) Dr. K. Venkateswarlu, Principal *Venkateswarlu*
- 3) Smt. S. M. Maheswari, Vice-principal *Maheswari*
- 4) Dr. K. Nageswara Rao, IQAC Co-ordinator *Nageswara Rao*
Committee members
- 5) Mr. K. C. S. V. Ramana, HOD of Geography *Ramana*
- 6) Mr. B. N. S. V. Prasad, Lecturer in Geography *Prasad*
- 7) Mr. B. Venkata Ratnam, HOD of Commerce *Ratnam*
- 8) Mr. G. Sankarababu, HOD of Biotechnology *Sankarababu*
- 9) Mr. Ch. S. V. Ravi Kumar, Lecturer in Computer Science *Ravi Kumar*
- 10) Mr. G. Ranga Babu, HOD of Mathematics, PG & R *Ranga Babu*

- 11) Mr. Ch. Venkatesh Goch, Lecturer in Mathematics
 12) Mr. S. Yacob, Lecturer in Telugu
 Department of physics

- 13) Dr. A P V APPA Rao, HOD of Physics & Controller of Ex.
 14) Sri. J. Rama Mohan, Lecturer in physics
 15) Dr. L. Malleswara Rao, Lecturer in physics
 16) Sri. P. Rama Krishna Rao, Lecturer in physics
 17) Sri. M. Shankar, Lecturer in physics
 18) Miss. A. S. Saijyothi, Lecturer in physics
 19) Smt. P. Rajeswari, Lecturer in physics
 20) Miss. G. Suresh Chala Devi, Lecturer in physics
 21) Miss. K. Nagendra Mani, Demonstrator in physics
 22) Miss. B. Jhansi Lakshmi, Demonstrator in physics

Non teaching staff

- 23) Mrs. M. Ramana Mani, Programmer in Examination section
 24) Mrs. M S P Lakshmi, Programmer in Examination section
 25) Sri. M Praveen Kumar, Examination section
 26) Sri. G. Ravi, Geography Department
 27) Sri. Murali, Vocational Department
 28) Sri. P. Subba Rao, P.G. Computer Department
 29) Sri. M. V. Saradhi, Chemistry Department
 30) Sri. K. Satya Prakash, Physics Department
 31) Sri. S. Venkateswarlu, Physics Department
 32) Smt. R. Aruna Kumari, Physics Department
 33) Sri. T. Edu Kondalu, Superintendent
 34) S. SOMA SEKHAR - Histry Lecturer

SNo	Name & Address	(Rs.) Amount	Signature
1	prof S.V. G. V. A. prasad Dept of physics ideal college of Arts and Science Kakinada.	300/-	for 
2	Gr. Raju. Dept of physics Ideal College of Arts and Science Kakinada.	300/-	
3	Km. K. V. Lakshmi Dept of physics ideal college of Arts and Science Kakinada.	300/-	
4	Kum. M. Siri Dept of physics ideal college of Arts and Sciences Kakinada.	300/-	
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300/-

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Lecturer in Zoology
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18 K. Koleswara Rao
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21. Dr. K. Ramanarayana Lecturer in physics Sri A.S.N.M. College. Palakollu.	300/-	K. Ramanarayana
22. Kum. T. NANY Lecturer in physics S.K.S.D Women's College Tanuku.	800/-	T. Nany
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24. K. Padmaja Rani Lecturer in physics S.K.S.D Women's College. Tanuku.	300/-	K. Padmaja Rani

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26 M. Teja Sri 100

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Tanuku, Student.

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34	C.S. Ananda Kumar Lecturer in physics S.V.K.P. & Dr. K.S. Raju. Arts and Science college. Penuigonda. W.G.D.	300/-	CSA
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S.V.K.P & Dr K.S Raju.
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Lecturer in Physics
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| 43. Sri. K. Naga Praveen
Lecturer in Physics,
A.N.R. College,
Gudivada | 300/- K. Naga Praveen. |
| 44. Sri. R. N. A. Prasad
Lecturer in Physics
A.N.R. College
Gudivada | 300/- R. N. A. Prasad |
| 45. Sri N. Sudhakara Rao
HOD of Physics
KGR College
Bhimavaram | 300/- C. S. Rao |
| 46. Smt. M. Satyavani
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DNR College (A)
Bhimavaram. | 300/- For
M. Satyavani |
| 47. Dr. S. Venkata Raju
HOD of physics
D.N.R. College
Bhimavaram. | 300/-
For
S. Venkata Raju |

Pupils Attendance Register

1		2		3		4		5		6		7		8		9	
Sl. No.	Name	Age	Sex	Religion	1	2	3	4	5	6	7	8	9	10	11	12	13
1	P. Basirathi Naga Sudha	16															
2	K. Subhashini	7															
3	K. Msudala	11															
4	K. Meena	19															
5	B. Swathi	15															
6	R. Anusutha	25															
7	CH. Rajeswari	13															
8	S. Mounika Naga Sri	12															
9	S. Dhana Priya	9															
10	A. Shanthi Swarupa	21															
11	K. Durga Bhavani	22															
12	K. N. S. Devi Sri	3															
13	V. Geetha	20															
14	P. Chandani	8															
15	T. Ratna Deepika	17															
16	O. Nanda kalyani	01															
17	S. D. Satya	26															
18	B. Teja Sree	29															
19	B. Sree Priya	4															
20	B. Durga Bhavani	6															
21	V. Satya Kumari	23															
22	T. Bala Yamuna	24															
23	R. Prathyusha	10															
24	P. Pavana Tulasi	49															
25	P. Rama Tulasi	28															
26	B. Dhara Lakshmi	05															
27	P. Sree Lakshmi	18															
28	P. Divya Snehittha	47															
29	T. Madhurya	48															
30	M. Satya Durga	14															

పిల్లల హాజరుపట్టి

6		7		8		9	
Sl. No.	Name	Age	Sex	Religion	1	2	3
1	P. Basirathi Naga Sudha	16					
2	K. Subhashini	7					
3	K. Msudala	11					
4	K. Meena	19					
5	B. Swathi	15					
6	R. Anusutha	25					
7	CH. Rajeswari	13					
8	S. Mounika Naga Sri	12					
9	S. Dhana Priya	9					
10	A. Shanthi Swarupa	21					
11	K. Durga Bhavani	22					
12	K. N. S. Devi Sri	3					
13	V. Geetha	20					
14	P. Chandani	8					
15	T. Ratna Deepika	17					
16	O. Nanda kalyani	01					
17	S. D. Satya	26					
18	B. Teja Sree	29					
19	B. Sree Priya	4					
20	B. Durga Bhavani	6					
21	V. Satya Kumari	23					
22	T. Bala Yamuna	24					
23	R. Prathyusha	10					
24	P. Pavana Tulasi	49					
25	P. Rama Tulasi	28					
26	B. Dhara Lakshmi	05					
27	P. Sree Lakshmi	18					
28	P. Divya Snehittha	47					
29	T. Madhurya	48					
30	M. Satya Durga	14					

Registration of students

Pupils Attendance Register

నెల
సంవత్సరము

1	2	3	4	5
అధ్యక్షుని నెంబరు	నెం.	పేరు	నెంబరు	1 2 3 4 5 6 7 8 9 10 11 12 13

MPS

31	K. Srinani	27
32	K. Vasa Prasad	42
33	T. Sai	35
34	P. Nampsi	34
35	B. Venu Prakash	52
36	SK. Tanisha	40
37	M. Udaya Bhaskar	51
38	G.C. Suresh	32
39	S. Venkatesh	50
40	K. Sanjay Kumar	36

MPE

41	K. Jyothsna	2
42	K. Sai Divya Bhavani	3
43	K. Ganga Bhavani	4
44	CH. Lakshmi Prasanna	6
45	A. Kavitha Sree	7
46	T. Naga Peddintlu	24
47	V. Sushma Sree	25
48	J.V.S.S.L.B. Nikhila	26
49	D. Tejeswari	27
50	Ch. L. Narasimha	37
51	M. Mahesh	36
52	G. Jaya Raju	17
53	K. Jagadeesh	30
54	S. Raja Sethas	38
55	D. Keela Krishna	9

ఉదయము హాజరు : బాలురు ☐ బాలికలు ☐

ఉపాధ్యాయుని సంతకం

సాయంత్రం హాజరు : బాలురు ☐ బాలికలు ☐

పిల్లల హాజరుపట్టి

రోజుల సంఖ్య
సగటు హాజరు

తరగతి
పేరు

6	7	8	9
హాజరైన బాలురు	దినములు హాజరైన	ఉత్తీర్ణత పేరు	తరగతి పేరు

K. Srinani	
K. Vasu Prasad	
T. Sai	
P. Nampsi	
B. Venkatesh	
SK. Tanisha	
M. Udaya Bhaskar	
G.C. Suresh	
K. Sanjay Kumar	

K. Jyothsna	
K. S. D. Bhavani	
K. Ganga Bhavani	
Ch. Lakshmi Prasanna	
A. Kavitha Sree	
T. Naga Peddintlu	
V. Sushma Sree	
J.V.S.S.L.B. Nikhila	
D. Tejeswari	
Ch. L. Narasimha	
M. Mahesh	
G. Jaya Raju	
K. Jagadeesh	
S. Raja Sethas	
D. Keela Krishna	

పాఠశాల పనిచేసిన దినములు



Pupils Attendance Register

GUPTA'S

పిల్లల హాజరుపట్టి

అవగాహన

Pupils Attendance Register

[illegible]

పిల్లల హాజరుపట్టి

[illegible]