



# VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified  
Kacharam, Shamshabad, Hyderabad - 501218, Telangana, India

## First International Conference on Smart Systems and Green Energy Technologies (ICSGET – 2022)

21, 22 October, 2022

### PROGRAM SCHEDULE

Day 1: 21 <sup>st</sup> October, 2022		
Invocation	<b>Ms. Sanjana</b> I Year, CSE AIML	10.00 – 10.02 AM
Welcoming Dignitaries to the Dias	<b>Dr. Rajat Kumar</b> Assistant Professor, EEE	10.03 – 10.05 AM
Lighting the Lamp	Dignitaries	10.06 – 10.10 AM
Releasing of Book of Abstracts	Dignitaries and Delegates	10.11 – 10.15 AM
Address by General Chair & HOD EEE	<b>Dr. Md. Asif</b> Associate Professor & Head, EEE	10.16 – 10.20 AM
Address by Steering Committee Chair	<b>Dr. Hari Shankar Jain</b> Professor, EEE	10.21 – 10.30 AM
Address by General Chair	<b>Dr. M. A. Jabbar</b> Professor and Head, CSE - AIML	10.31 – 10.35 AM
Address by Patron	<b>Dr. J V R Ravindra</b> Principal, VCE	10.36 – 10.45 AM
Introduction of Chief Guest	<b>Dr. P. Mounica</b> Assistant Professor, EEE	10.46 – 10.48 AM
Address by Chief Guest	<b>Dr. G. N. Srinivas</b> Professor, Jawaharlal Nehru Technological University, Sultanpur	10.49 – 11.00 AM
<b>Tea Break - 11.01 AM – 11.15 AM</b>		
Keynote Talk – 1	<b>Dr. G. N. Srinivas</b> Professor, Jawaharlal Nehru Technological University, Sultanpur	11.16 – 12.15 PM
Keynote Talk – 2	<b>Dr. Sanjeevikumar Padmanaban</b> Professor Aarhus University, Denmark	12.20 – 1.00 PM
<b>Lunch - 1.00 PM – 2.00 PM</b>		
Paper Presentation (Session Chairs)	<b>Dr. G. N. Srinivas</b> Professor, Jawaharlal Nehru Technological University, Sultanpur <b>Dr. G. Sree Lakshmi</b> Professor, EEE CVR College of Engineering	2.00 – 4.00 PM



# VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified  
Kacharam, Shamshabad, Hyderabad - 501218, Telangana, India

## First International Conference on Smart Systems and Green Energy Technologies (ICSGET – 2022)

21, 22 October, 2022

### PROGRAM SCHEDULE

Day 2: 22 <sup>nd</sup> October 2022			
Keynote Talk-3	Dr. Deepak Reddy Pullaguram Assistant Professor, EEE, IIT Kharagpur	10.00 – 11.00 AM	
Tea Break - 11.00 AM – 11.15 AM			
Paper Presentation (Session Chairs)	<b>Parallel Session 1</b> <b>Dr. G. N. Srinivas</b> Professor, Jawaharlal Nehru Technological University, Sultanpur <b>Dr. Hari Shankar Jain</b> Professor, EEE Vardhaman College of Engineering	11.15 – 1.00 PM	
	<b>Parallel Session 2</b> <b>Dr. D. S. Naga Malleswara Rao</b> Associate Professor, EEE Gokaraju Rangaraju Institute of Engineering and Technology <b>Dr. N. Venkata Phanendra Babu</b> Assistant Professor, EEE Chaitanya Bharathi Institute of Technology		
	Lunch - 1.00 PM – 2.00 PM		
	Paper Presentation (Session Chairs)		<b>Parallel Session 1</b> <b>Dr. G. N. Srinivas</b> Professor, Jawaharlal Nehru Technological University, Sultanpur <b>Dr. Hari Shankar Jain</b> Professor, EEE Vardhaman College of Engineering
<b>Parallel Session 2</b> <b>Dr. D. S. Naga Malleswara Rao</b> Associate Professor, EEE Gokaraju Rangaraju Institute of Engineering and Technology <b>Dr. N. Venkata Phanendra Babu</b> Assistant Professor, EEE Chaitanya Bharathi Institute of Technology			
Valedictory			
-		3.30 – 4.00 PM	



# VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified  
Kacharam, Shamshabad, Hyderabad - 501218, Telangana, India

## First International Conference on Smart Systems and Green Energy Technologies (ICSGET – 2022) 21, 22 October, 2022

### PAPER PRESENTATION SCHEDULE

Day 1: 21<sup>st</sup> October, 2022

(Session 1)

Time: 2.00 PM – 3.30 PM

VENUE: BLOCK-1 (ROOM 1002)

Session Chairs: Dr. G. N. Srinivas, Professor, JNTU, Sultanpur

Dr. G. Sree Lakshmi, Professor, CVR College of Engineering

Paper Id	Title of the Paper	Author Name	Name of the College	Time
782	A low-cost IoT-based system for monitoring the health of individual soldiers and tracking their real-time whereabouts in combat zones	Murugan A.S.S., R. Harsha Vardhan and Natarajan Karuppiah	CVR College of Engineering	2:00 PM
516	Control Techniques for Bipolar Bidirectional Converter for Interfacing Renewable Energy Storage System to DC Micro-grid	Srikanth Nunavath and Patil Mounica	Vardhaman College of Engineering	2:16 PM
4100	Performance Enhancement of Partial Shaded Photovoltaic System with the Novel Snake ladder Pattern Array Configuration Scheme	P. Keerti and B. Praveen Kumar	Vardhaman College of Engineering	2:31 PM
5467	Design and Implementation of a Low-Cost Fully Automated Solar-Powered Mower Vehicle	R. Harshvardhan, Murugan A.S.S., Dakka Obulesu and Natarajan Karuppiah	CVR College of Engineering	2:46 PM
5358	Fuzzy Logic Controlled Hierarchical Power Management Scheme for A Solid-State Transformer (SST) Interfaced D.C Micro Grid	Udutha Satheesh and B. Raja Gopal Reddy	Vardhaman College of Engineering	3:01 PM
2625	Enhancing Smart Farming Techniques by Applying Prediction Techniques through IoT and Machine Learning	Rudraraju Vandana, G. Surya Prabhav, S V Vaishnavi and R. Karthikeyan	Vardhaman College of Engineering	3:16 PM



# VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified  
Kacharam, Shamshabad, Hyderabad - 501218, Telangana, India

## First International Conference on Smart Systems and Green Energy Technologies (ICSGET – 2022)

21, 22 October, 2022

### PAPER PRESENTATION SCHEDULE

Day 2: 22<sup>nd</sup> October 2022

(Session 2)

TIME: 11.15 AM – 1.00 PM

VENUE: BLOCK-1 (ROOM 1002)

#### Parallel Session 1

Session Chairs: Dr. G. N. Srinivas, Professor, JNTU, Sultanpur  
Dr. Hari Shankar Jain, Professor, VCE

Paper Id	Title of the Paper	Author Name	Name of the College	Time
2563	Design and study of a double – boost non-isolated converter with continuous input current	A. Gopalakrishna and G. Priyanka	Vignana Bharathi Institute of Technology	11:16 AM
576	Fuzzy Logic Control of Switched Reluctance Motor for Electric Vehicles Applications	Mohammed Mateen, S. Saravanan, D. Gireesh Kumar, K. Vijaya Bhaskar Reddy, K. Mahesh	B V Raju Institute of Technology	11:31 AM
7368	Modelling and Implementation of SEPIC Converter for Electric Vehicle Application	Sunil Kumar Chava, Udayini Vanga and Srilekha Akula	BVRIT HYDERABAD College of Engineering for Women	11:46 AM
6614	Energy Forecasting using Hybridization of CSO with LSTM	P Elumalaivasan, G. Sasi, A. Ganesh Babu	Vel Tech Rangarajan Dr. Sakunthala R & D Institute of Science and Technology	12:01 PM
6979	Monitoring and Security Based Smart Wastebin for Real Time Application	Shuvendra Kumar Tripathy, Gopinath Palai and Kp Swain	Trident Academy of Technology Bhubaneswar	12:16 PM
6065	Synthesis of Micro-encapsulated Beeswax using in-situ polymerization and its characterization	Vijayrakesh K, Muthuvel S, Gopinath G R, Sudhakar Pandian R and Rajesh Kanna G	Kalasalingam Academy of Research and Education	12:31 PM
873	Improved load frequency control of 2-area power system using nature inspired algorithm	P. Sai Pavan Kumar, Idamakanti Kasireddy, Dsnm Rao and Ch Phani Kumar	Vishnu Institute of Technology Bhimavaram	12:46 PM



# VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified  
Kacharam, Shamshabad, Hyderabad - 501218, Telangana, India

## First International Conference on Smart Systems and Green Energy Technologies (ICSGET – 2022)

21, 22 October, 2022

### PAPER PRESENTATION SCHEDULE

Day 2: 22<sup>nd</sup> October 2022

(Session 2)

TIME: 11.15 AM –1.00 PM

VENUE: BLOCK-1 (ROOM 1003)

#### Parallel Session 2

Session Chairs: Dr. D. S. Naga Malleswara Rao, Associate Professor, GRIET  
Dr. N. Venkata Phanendra Babu, Assistant Professor, CBIT

Paper Id	Title of the Paper	Author Name	Name of the College	Time
106	Detection and tracking maximum power point of a PV system under PSC using cuckoo search algorithm (CSA) MPPT	Snehalatha Venkatapuram, Saravanan S and Mahesh K	B V Raju Institute of Technology	11:16 AM
157	Design of solar powered high step up non-isolated converter with low switching stress.	B. Nagi Reddy and B Poojitha	Vignana Bharathi Institute of Technology	11:31 AM
9665	Hardware Implementation of Electric Spring Converter in a PV and Wind based Smart grid for Power Quality Improvement	M. S. G. Smitha and Md. Asif	Anantha Lakshmi Institute of Technology and Sciences	11:46 AM
4115	Android Based Campus Solution (AICS) for Department Management	Geerthik S, Ranganathan L, Anand T and Sajitha L	Agni College of Technology	12:01PM
581	Power Sharing Strategy Based on Inverted Droop Controlled Microgrid	Prabakaran K, Senthil Kumar R, Srividhya R, Praveen G, Dinesh Kumar R and Sanjay T P	Easwari Engineering College	12:16 PM
3203	Performance Assessment of SMA Based MPPT Controller for PV System Considering Random PSC	Suresh Kumar Asadi	SVU College of Engineering	12:31 PM
7599	Smart Anomaly Detection and Classification for Validation Process of Watch Gears using LABVIEW	Boobalan S, Sanjeeve R, Vignesh R S, Vignesh S and Thaqib K	Sri Krishna College of Engineering and Technology	12:46 PM



# VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified  
Kacharam, Shamshabad, Hyderabad - 501218, Telangana, India

## First International Conference on Smart Systems and Green Energy Technologies (ICSGET – 2022)

21, 22 October, 2022

### PAPER PRESENTATION SCHEDULE

Day 2: 22<sup>nd</sup> October 2022

(Session 3)

TIME: 02.00 PM – 03.45 PM

VENUE: BLOCK-1 (ROOM 1002)

#### Parallel Session 1

Session Chairs: Dr. G. N. Srinivas, Professor, JNTU, Sultanpur  
Dr. Hari Shankar Jain, Professor, VCE

Paper Id	Title of the Paper	Author Name	Name of the College	Time
7933	An Effective Rapid Electric Vehicle Charger Using a Quasi-Direct Boost - Buck Converter	J Sreedhar and U Prashanth	Vignana Bharathi Institute of Technology	02:01 PM
2353	Power Optimization Scheme in Electric Vehicle Using Induction Motor Based FOPID Control Strategy	Devineni Gireesh Kumar and B Akhil Raj	B V Raju Institute of Technology	02:16 PM
8931	Comparative study on Sudoku using Backtracking algorithm	Shanmugasundaram Hariharan, Navya T, Mounika T J, Tharun S, Kaladevi R and Bhanuprasad A	Vardhaman College of Engineering	02:31 PM
2770	IOT Based Renewable Energy Monitoring System	Venkata Suresh Yarava and Hari Shankar Jain	Vardhaman College of Engineering	02:46 PM
4146	Enhanced Machine Learning Technique for Multi-Stages Alzheimer's Disease Classification	Bhavya Sri S, Keerthi S, Md Hassan and Karthikeyan R	Vardhaman College of Engineering	03:01 PM
2544	Design of IOT Based Real Time Geo-Fencing Model for the Realization of High Security System	Shuvendra Kumar Tripathy and Gopinath Palai	Trident Academy of Technology Bhubaneswar	03:16 PM
2904	Finger Print Based Intelligent Locker System	Senthil Kumar R, Prabakaran K, Mohammed Ovaiz A	Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College	03:31 AM



# VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified  
Kacharam, Shamshabad, Hyderabad - 501218, Telangana, India

## First International Conference on Smart Systems and Green Energy Technologies (ICSGET – 2022)

21, 22 October, 2022

### PAPER PRESENTATION SCHEDULE

Day 2: 22<sup>nd</sup> October 2022

(Session 3)

TIME: 02.00 PM – 3.45 PM

VENUE: BLOCK-1 (ROOM 1003)

#### Parallel Session 2

Session Chairs: Dr. D. S. Naga Malleswara Rao, Associate Professor, GRIET  
Dr. N. Venkata Phanendra Babu, Assistant Professor, CBIT

Paper Id	Title of the Paper	Author Name		Time
1245	Analysis and Simulation of Fuel Cell Powered Integrated Converter with Single Active Switch	C. V Vijay Kumar, T Sanjana and B Nagi Reddy	Vignana Bharathi Institute of Technology	02:01 PM
8507	Design of IoT Based Smart, Portable and Low-Cost Massage Band	J. Naga Vishnu Vardhan, K Deekshitha, S Tejaswini	BVRIT Hyderabad College of Engineering for Women	02:16 PM
9588	Composite and Microencapsulated Phase Change Materials: A Brief Review	Ashok Kumar B J, Muthuvel S, Rajini N, Gopinath G R, Sudhakara Pandian R and Rajesh Kanna G R	Kalasalingam Academy of Research and Education	02:31 PM
605	Implementation of Leader Follower Approach in Quadcopter	Pandiyarajan R, Vivek T, Agnishwar Jayaprakash and Chandravadhana S	Agni College of Technology	02:46 PM
2932	Fully Automated Sun Drying System for Food Grains	Senthil Kumar R, Harshvardhan Naidu S, Suguna R, Raghunandhan R, Poovendan V	Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College	03:01 PM
6562	A New Two Switch Non-Inverted Buck-Boost Converter for PV System	J. N Bhanutej, U Hemalatha and B Nagireddy	Vignana Bharathi Institute of Technology	03:16 PM
553	A Neuro-Fuzzy method for forecasting electricity consumption in the agricultural sector for India	Devineni Gireesh Kumar, Saravanan S and Sainadh Singh Kshatri	B V Raju Institute of Technology	03:31 PM