





Institution's Innovation Council 7.0



SRI VENKATESWARA COLLEGE OF ENGINEERING

(Autonomous)

Karakambadi Road, Tirupati-517507.

ANNUAL REPORT 2024-25



KarakambadiRoad,OppositeLICTrainingCentre,Tirupati-517507.
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A. About IIC at SVCE

SVCE has established Institution's Innovation Council (IIC) as per the guidelines of MoE's Innovation Cell in the year 2018. The initiative was to create a vibrant local innovation ecosystem, start-up supporting mechanism, establish a functional ecosystem for scouting ideas and pre-incubation of ideas and to develop better cognitive ability for technology students. SVCE IIC is actively involved in organizing and conducting seminars, workshops, fieldtrips, project exhibitions, entrepreneurship bootcamps, Idea competitions etc. for its students and faculties.

Vision:

To be a premier Innovation Centre by fostering a vibrant ecosystem for the creation and development of Enterprise

Mission:

M1: Promotion of Creativity and Innovation among Students, Alumni and Faculty members.

M2: To create a climate conducive to excellent teaching - learning Process.

M3: To Support and Facilitate Innovative Product development.

Objectives:

- To inculcate the spirit of innovation.
- To Encourage and support innovations through guidance and mentorship.
- To establish functional ecosystem for scouting and pre-incubation of ideas.
- To develop Technology based Incubation (TBI) centers.
- To encourage innovative projects with commercial viability.

Major Focus of IIC:

- To create a vibrant local innovation ecosystem
- Start-up/ entrepreneurship supporting Mechanism in HEIs
- Prepare institute for Atal Ranking of Institutions on Innovation Achievements Framework (ARIIA) & NIRF
- Establish Functional Ecosystem for Scouting Ideas and Pre-incubation of Ideas
- Develop better Cognitive Ability amongst Technology Students



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B.Key functionaries at SVCE -IIC

After the success of IIC2.0, IIC 3.0, IIC 4.0 and IIC 5.0, IIC 6.0 the Institution's Innovation Council up-gradation meeting was held. The meeting was called upon by IIC President Dr.N. Sudhakar Reddy to congratulate all for attaining the 3.5 Star Rating for the academic year 2023-24 and plan the activities for the year 2024-25. The IIC member details for the academic year 2023-24 are as follows:

Sr. No.	Name of Member	Designation	Key Role/ Position assigned in IIC	Dept.		
	Faculty members					
1	Dr. N. Sudhakar Reddy	Principal	President CS			
2	Dr T Chandrasekhar Rao	Vice Principal	Vice President	ECE		
3	Dr. N Rajesh	Professor	Convener	ME		
4	Dr. K. Kumar	Associate Professor	Innovation activity EEE coordinator (Faculty)			
5	G. Anusha	Assistant Professor	Start-up activity coordinator	CIVIL		
6	D S Balakrishna	Assistant Professor	Internship coordinator	S&H		
7	Dr P Suresh	Associate Professor	IPR activity coordinator EEE			
8	Dr T Chandraiah	Associate Professor	Social media coordinator S&H			
9	Dr. SK Masthanvalli	Associate Professor	ARIIA coordinator S&H			
10	Dr. Vamsi Krishna	Associate Professor	NIRF coordinator	MECH		
11	K Srishyla	Assistant Professor	Member (Faculty)	CSM		
12	K B Vamsi	Assistant Professor	Member (Faculty)	ENGLISH		
13	D. Anusha	Assistant Professor	Member (Faculty)	CSE		
14	N Nalini	Assistant Professor	Member (Faculty)	IT		
15	Dr Y V Krishna Reddy	Associate Professor	NISP Coordinator	EEE		
	Student members					



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16	C Bindu Sree	Student	Student Lead coordinator	EEE
17	N Lohitha	Student	Event promoter	EEE
18	Polepalli Dhanya	Student	Internship coordinator	CSE
19	K Yashwanth	Student	Start-up coordinator	ECE
20	M. Sravan	Student	Innovation coordinator	EEE
21	P Naga Srinivas	Student	Member	MECH
22	K.Navyasree	Student	IPR coordinator	CIVIL
23	S Sowmica	Student	Member	IT
24	Murali Mahesh	Student	Member	CSM
25	Nochili Vasavi	Student	Social Media coordinator MBA	
	'	External Expert Members	1	
26	Dr. K Pavan	External Expert	Industry Association	
27	K Ravindranadh	External Expert	Patent Expert	
28	Dr P Cyril Prasanna Raj	External Expert	Industry Expert	
29	T Jayanandan	External Expert	Incubation Center	
30	Dr Usha Eswaran	External Expert	Investor	

Roles and Responsibilities

President

- Holds an important position and is in contact with MIC
- Responsible to ensure a decent performance of IIC and will respond to all the communication from IIC National Coordination Team(MHRD Innovation Cell).

Vice President

- Takes the role of building and strengthening the in-house mentor pool and human resource capacity to drive campus Innovation and Entrepreneurship activities.
- Strengthen the intra and inter-institutional partnership and collaboration to encourage innovation and enabling environment of easy access to resources within and outside the institute.

Convener

- Ensure the participation in the meeting and will prepare the meeting agenda atleast 10days prior, taking valuable inputs from all the council members and President.
- Collect ideas from all the members, Documentation and maintenance of the proceedings like photographs and minutes of the meetings.



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Social Media Coordinator

- Create and manage the IIC page/account on Facebook/Twitter/YouTube/Instagram and other relevant social media platforms.
- Post all the relevant information about the council meeting resolution and action plan IIC activities and follow/tag MIC/IIC page and posts on the separate platforms.

Start-up Activity Coordinator

- Identifying and guiding potential / early-stage entrepreneurs, student innovators at the Institute on a regular basis.
- Encourage faculty members and students to pursue research studies related to Entrepreneurship.

IPR Activity Coordinator

- Organize events on IPR related activities as per IIC calendar and plan awareness programmes on a regular basis.
- Commercialize innovations through technology transfer, technology licensing and Start-ups, etc.

Members

- Ensure the Institution's Innovation Council's logo and the words "in association with Institution's Innovation Council, Ministry of Education (MoE), Govt. of India", is included in the brochure without fail for all the academic activities of their respective departments like webinars, seminars and workshops related to Industry Interaction, Startup, Entrepreneurship, Research and Innovation/Intellectual Property Rights (IPRs).
- Establish Innovation Clubs for students with all the facilities and equipment needed for Innovation and Entrepreneurship(I&E) activities in their respective departments.
- Develop an Innovative and Entrepreneurial mind-set through a series of activities like workshops, awareness, market outreach events, orientation, advocacy meetings, campus Hackathons and networking events (Intra and Inter-institutional, enablers, stakeholders).
- Organize entrepreneurial skill development/employment generating programs for external participants (local residents, community mem bers, alumni etc.)
- Develop short term certificate courses on Innovation and Entrepreneurship.
- Persuade departments to offer Major or Minor Specializations or credit courses related to Innovation and Entrepreneurship(I&E) and IPR.

In the academic years 2018-19, 2019-20 our institute has only 15 members in my council faculty list. Later in the academic year 2023-2024, 2024-2025, we have total of 30 members IIC list with various coordinators as listed above.



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C. Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution

S. No.	Description	Count
1	Total No. of IIC Members	30
2	Total No. of IAs	29
3	Total No. of faculty Mentors From Portal	47
4	Pre-Incubation Units	3
5	Incubation Units	1
6	IP Facilitation Unit	1

S.No	Name	Email	Contact
1	Mr Guru Sai Prasad	guruprasad.g@svcolleges.edu.in	9703150452
2	Allabaksh Shaik	baksh402@gmail.com	9700644100
3	Dr S Gautami	gautami.s@svcolleges.edu.in	9985506543
4	Dr Y Madhavi	madhavi.y1@svcolleges.edu.in	8919365391
5	Dr S Kalesha Masthan Valli	kalesha.s@svcolleges.edu.in	8978686923
6	Dr P Baby Maruthi	babymaruthi.p@svcolleges.edu.in	9963731930
7	Dr M Vamsi Krishna	vamsikrishna.mamidi@svcolleges.edu.in	8978407734
8	Mr V Mahesh	mahesh.v@svcolleges.edu.in	9652963387
9	Dr K Kumar	kumar.k1@svcolleges.edu.in	9703170418
10	Dr P Subramanyacharya	palakonda0012gmail.com	8309082823
11	Dr K Raveendra	raveendra.k@svcolleges.edu.in	9949863537
12	Dr Kasa Sudheer	sudheer.kasa@gmailcom	9742713909
13	G Anusha	anusha.g@svcolleges.edu.in	9440232503
14	D Anusha	anusha.dt@svce.edu.in	9703011392
15	J Kiran Kumar	kirankumar.ja@svcolleges.edu.in	9032840286
16	Srishyla K	srishyla.kp@svce.edu.in	9902511918
17	N Nalini	nalini.nara@svcolleges.edu.in	8985322122
18	G Geethanjali Jain	geethanjalijain.g@svcolleges.edu.in	6303056208
19	Dr P Suresh	suresh.p1@svcolleges.edu.in	9000846783



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20	Dr P Subhramanyachari	palakonda001@gmail.com	8309082823
21	T.Sravani	sravani.t1@svce.edu.in	7416100661
22	C P BALAJI	balaji.cp@svce.edu.in	8985664773
23	Dr. V Lakshmi Devi	lakshmidevi.v@svcolleges.edu.in	9032621234
24	Dr.T.Kaliraja	kaliraja.t@svcolleges.edu.in	9444312699
25	K.Kavitha	kavitha.ks@svcolleges.edu.in	9840208660
26	M.Vineela	vineela.m@svce.edu.in	7816037838
27	Dr P Jaya Prakash	jayaprakash.pl@svcolleges.edu.in	9908876781
28	Y.Maheswari	maheswari.y@svcolleges.edu.in	6301497080
29	Dr. E.Sreedevi	sreedevi.er@svce.edu.in	6302042336

D.Facilities, Infrastructure Incubation/ Incubation kind and Student bodies/ clubs engaged in promotion of Innovation of Pre- and Entrepreneurship in the campus

Student club would help to engage students in innovative and creative activities apart from providing opportunities for hands-on activities. The student club creates awareness, educate, nurture and inculcate a culture of innovation amongst students and to enable them to generate new ideas and become more innovative.

Student bodies/clubs engaged in the promotion of Innovation and Entrepreneurship in campus.

- 1. SHILANYAS Civil Engineering Association at Sri Venkateswara College has been formed.
- 2. IEEE PES society has been formed in 2021. Students clubs related to innovation and research have been started.
- 3. ISTE student chapter was established in 2012.
- 4. The IEEE Communications Society Student Branch Chapter at the Sri Venkateswara College of Engineering has been formed.
- 5. IEEE SVCE Com Soc Society is a student association is established by the Department of CSE
- 6. The IEEE Computer Society Student Branch Chapter at the Sri Venkateswara College of Engineering has been formed.
- 7. IEEE WiE society is a student association, established by the Department of CSE
- 8. IEEE Photonics Society is a faculty association
- 9. ACSA- Agile Computer Science Associates Club exist to conduct various activities for student career development and innovational ideas for CSE department.



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10.CMAT - Department Technical Association/Club exist to conduct various activities for student career development and innovational ideas.



Clubs:

1. Animation and Graphics Club

A college animation program cultivates learners' raw artistic talent and develops proficiency in the use of 2D and 3D computer applications.

Skills:

- **1.** Knowledge of trigonometry to help move characters around, while algebra and integral calculus help to create more defined special effects and scenery.
- 2. Help students develop soft skills, which are crucial when working with team.
- 3. Students can master the use of color, light, and texture. with focus on drawing, illustration, design, color theory, and typography to develop sketches and still images brought to life with computer applications.

Photograph of Core team along with faculty coordinators:



2. Robotics Club

Robotics club encourages students who are interested in learning about and working with robots. Students can participate in robotics competitions



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Skills:

- Apply knowledge creatively, to see how systems interact with each other and with the environment.
- To develop professional engineering skills among the students which will help them in the professional life.

Photograph of Core team along with faculty coordinators:



3. Coding Club

Programming skills are essential tools that can be utilized and incorporated into various fields and domains. Hence, it becomes absolutely essential to equip young minds with such skills. Coding Club aims to establish a coding culture on campus, reaching every student passionate about coding. The club's motto is to Create-Build-Innovate.

Skills:

- Contribute to open source projects, build websites and applications, provide technical support
- to organizations and various clubs on campus
- Represent the college at inter-collegiate events
- Take part in competitions like ACM-ICPC, Google Code Jam, Google Summer of Code, and other online coding events

Photograph of Core team along with faculty coordinators:



4. Innovation Club

Cub will serve a platform to excel in their specialized area of interest, Itwill assist students and also encourage young talented minds by providing them a perfect platform for showcasing their talents, working together as teams and participate in various inter-college technical competitions.



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Skills:

- To provide a platform to realize and believe in themselves.
- To empower students to become young entrepreneurs.
- > To create an innovative environment for the students to discover, develop, deploy and

express their skills and talents.

> To encourage students to carry out their hidden talents in various disciplines of Engineering.

Photograph of Core team along with faculty coordinators:



These student clubs will help the students to turn into good entrepreneurs. Our institute provides 4500 sqfts in a well corporate style exclusively for experimenting their ideas and official meetings, interactions and exchanging thoughts etc., Students who wanted to turn as entrepreneurs will be part of below mentioned students clubs.

E. Achievements

Field description	Data
Number and Different types of Innovation & Entrepreneurship and IPR activities conducted	25
No. of student's & faculty ideas generated	140
No. of student's & faculty Innovation/prototypes developed	30
No. of IPs generated, published and granted	127
No. of Student & Faculty Start-ups/Ventures established.	2
Amount spent on promotion and awareness generation on Innovation	Rs.2,70,000/-
Entrepreneurship in the campus	3
Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR	Rs. 3,30,000/-
No. of Technology Transfer and Commercialization happened	1

F. Best IIC Faculty/Student members and their achievements/Rewarded i) Student Achievements:

- ➤ Mr. Gowthami Kadirimangalam (IV-ECE, SV University) and team were awarded acceptance to present their project titled "Robotic Arm Vehicle for Planting" for the final round of IEEE YESIST 12 2024 by IEEE, which was conducted in Tunisia on 01st September 2024.
- ➤ Mr. Y.Prasanth Kumar (Computer Science and Engineering student, Batch 2020-2024) has started Google developers students club, achieved Tier 1 in cloud study Jams and got appreciated with 60K worth of Google Swags



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ii) Faculty Achievements:

- ➤ IIC president, Dr. N. Sudhakar Reddy, Principal, received the "Educational Excellence Award" from Indianpreneur Magazine on 15th December 2024.
- ➤ Dr. K. Venkateswara Raju, Professor, Dept of Mathematics, Institute, was awarded the Research Excellence Award and BEST HOD Award by the SIDVI FOUNDATION at an international award ceremony held on the Birth Anniversary of Bharat Ratna Dr. Sarvepalli Radhakrishnan on 05/10/2024.
- ➤ Dr. K. Anantha Kumar, Dept. of Mathematics, received the Top 2% Scientists recognition from Stanford University in 2024.

G.Best Innovations:

Description

Image

1. DESIGN AND FABRICATION OF SPIRAL BLADE WIND TURBINE

The Spiral Wind Turbine (SWT) is designed for low-speed urban winds, with blade angle playing a key role in performance. Large blade angles give higher power output, wider operating ranges, and stronger thrust but with more fluctuations. Small blade angles cause stronger blockage and reduced efficiency. Wake recovery is better for large blade angle rotors than small ones.



2. DEVELOPMENT OF SPIDER LEG WALKER USING KLANN MECHANISM

Multi-legged mechanical system inspired by spider movement, aimed applications in agriculture. at ecological construction. and restoration for soil ramming and compaction. Unlike traditional wheeled or tracked vehicles, which struggle in uneven terrains, wet fields, and steep slopes, this system offers enhanced adaptability, agility, and balance.



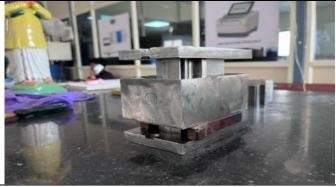
3. DESIGN AND FABRICATION OF A HIGH PRECISION DIE FOR GAS TURBINE BLADE MANUFACTURING



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This focuses project on the manufacturing of a die for gas turbine blades, which is a crucial step in producing high-performance turbine components. This study explores the application of advanced machining techniques to achieve precision. accuracy, efficiency and in die fabrication.



4. ELECTRICAL VEHICLE BATTERY MANAGEMENT SYSTEMS (BMS), WITH CHARGER MONITORING AND FIRE PROTECTION

The Electrical Vehicle Batterv Management System (BMS) with Charger Monitoring and Fire Protection is designed to ensure the safe, efficient, and reliable operation of EV batteries. It continuously monitors key battery parameters such as voltage, current, state of charge, and temperature, while performing cell balancing and fault detection. The system integrates advanced charger monitoring to regulate charging processes and prevent battery damage



H. Entrepreneurs /start-ups established by students/faculties

	Entrepreneurship/Start-up			
S.				
No.	Branch	Roll No.	Name of the Student	Name of The Company
1	MBA	22BFE00201	S.Vijay Sekhar Reddy	Bombay electricals
2	CIVIL	19BF1A0115	K VAMSI	VAMSI BRICKS
3	ME	19BF1A0326	K Ramprasad	RP websites
5	EEE	17BF1A02C0	SAMADI VENU	Bells & Peppers
6	CSE	22BF1D5803	A Hemanth	Home stay Pooling
7	EEE	18BF5A02B5	B Chiranjeevi	TechEval, Edu Solutions
8	CSE	18BF1A02B5	G Manohar	CropRid Pvt. Ltd
9	MECH	17BF1A0318	C Bhanu Prakash	Smart Aqua Designs
10	CIVIL	17BF1A0145	T Pavan	Smart Doors Pvt. Ltd
11	CSE-AIML	23BFA33219	Mohd. Azad	Disygo Digital Solution
12	MECH	22BF5A0342	S Peerla Md. Sohel	Rveiya Dynamics Pvt. Ltd.



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I. Break through Innovations / Technology Developed at the institute (patents)

I. Brea	k through Innovations / Technology Developed at	t the institute (patents)
S. No	Title of the Patent	Inventor Name
1	Ai Based Balance And Posture Detecting Device	Dr N Sudhakar Reddy
2	Ai Based Virtual Reality (Vr) Device	Dr N Sudhakar Reddy
3	Automated Device For Brain Tumour Detection	Dr N Sudhakar Reddy
4	Smart Building Structural Health Monitoring As A Service (Shaas) Platform Using Iot And Machine Learning	N.Narendra Reddy
5	Data Driven Iot Patform For Continuous Health Monitoring And Anomaly Detection In Chronic Disease Management	N.Narendra Reddy
6	Personalized Healthcare System Using Federated Learning For Secure And Private Patient Monitoring	Dr. Y.Vishnu Tej
7	Ai Powered Real Time Language Translation And Learning Platform For Multilingual Education	Dr S.Sajida
8	Precision Aerial Drone For Automated Coconut Harvesting	R Venkataramana
9	Ai Based Virtual Reality(Vr) Device	Dr.N.Sudhakar Reddy
10	Wireless Electric Vehicle Charger	Dr Y.A.Siva Prasad
11	Enhancing Agriculture Through Iot Based Embedded Systems, Cloud Computing And Machine Learning For Plant Disease Detection	Dr.Saritha Anchuri
12	Integrating biotic And Abiotic Stress Detection In Crops Through Iot And Cloud Computing	Dr.P.Prathusha
13	High Frequency Signal Enhancement Antenna With Low Snr Device	Dr.T.Sree Lakshmi
14	Real-Time Object Detection Using Deep Learning Techniques	A Krishna Mohan
15	Iot Based Portable Herbicide Making Machine	Dr. G. Padma Priya
16	Ai Based Virtual Reality Device	Dr C.Madhu
17	A Compensated Two Stage Operational Amplifier	Allabaksh Shaik
18	A Solar-Powered Water Purification System	Dr.C.Padma
19	Cyberspace Enhanced Ultra-Smart Computing System For Advanced Data Processing	Dr.P.Suresh Babu
20	Ai-Powered Iot Solutions For Smart Home Automation With Enhanced Security Features	Dr.E.Anant Shankar
21	Optimising Ev Charging Station Operations Using Iot, Cloud Computing, And Machine Learning For Eco-Friendly Transportation	Dr.E.Anant Shankar
22	Iot Based Bio-Cardiac Diagnostic Device	Dr.E.Anant Shankar
23	Ai-Based Balance And Posture Detection Device	Dr.E.Anant Shankar
24	Ai Based Virtual Reality (Vr) Device	Yuvaraj K
25	Generative Ai Powered System For Electric Vehicle Battery Grid Integration And Management	V Tejovathi
26	Iot Based Device For Precision Agriculture	M.Poornima
27	Ai Based Voice Controlled Air Purifier Device	C.H.Pallavi
28	Design Of A Dual Band Microstrip Patch Antenna For Ism, And X Band Applications	B.Deepa
29	Advanced Iot Sensor Networks For Accurate And Efficient Environmental Monitoring	B.Deepa



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		, 1
30	Design Of A Textile-Based Wearable Antenna For On-Body Wireless Communication Applications	Dr.S.Salma
31	A Defected Ground Structure Based Dual Element Mimo Antenna With Circular Polarization For Satellite, Ism, And Radio Navigation Applications	Dr.S.Salma
32	Design Of A Dual Band Microstrip Patch Antenna For Ism, And X Band Applications	Dr.S.Salma
33	Ai Based Facial Recognition Device Using Image Processing	M Mahesh
34	Cloud Based Water Usage Monitoring And Control Device	C Rajani
35	Self-Cleaning Solar Panels With Foldable Design	P.Bharathi
36	Device For Testing Integrated Circuits	Dr. V Madhurima
37	Scanner Device For Image Extraction	Dr K Raveendra
38	Implementation Of A Facial Recognition Based Enhanced Security System	Dr.K.Lokesh Krishna
39	Real-Time Student And Employee Attendance Tracking Using Facial Recognition And Internet Of Things	G. DILLI BABU
40	Intelligent Battery Management System For Optimized Charging And Discharging In Electric Vehicles Using Ai And Iot	K.Prathibha
41	Advanced Power Electronics For Renewable Energy Integration	Dr. Shaik Rafi Kiran
42	Integrated Ai And Iot Driven System For Smart Environment Control And Energy Optimisation In Public Infrastructure	Dr. B. Venkatesh Reddy
43	Deep Learning Based Magnetic Resonance Imaging Scanning Device	Dr. B. Venkatesh Reddy
44	Wireless Electric Vechicle Charger	K YAMUNA
45	Ai Based Virtual Reality (Vr) Device	Dr P Suresh
46	Eco-Friendly Solar-Powered Electric Vehicles: A Sustainable Transportation Solution	Dr. Y V Krishna Reddy
47	Energy Storage Solutions For Efficient Management Of Fast Ev Charging Stations	G. DILLI BABU
48	Smart Home Ecosystem With Centralized Control And Personalized Automation	Dr. Kumar K
49	Intelligent Robotic Battery Swap Technology For Electric Vehicles	Dr. V Lakshmi Devi
50	Swift Frame For Electric Bicycle	P Vinod Kumar
51	Renewable Energy Powered Poles To Detect Noise Pollution	J A Baskar
52	Self Cleaning Solar Panels With Foldable Design	Dr. Kumar K
53	Ultra Thin, Rollable Solar Panels With Wireless Charging	Dr. V Lakshmi Devi
54	Controlled Charging Hub For Usb Devices In Electrical Switchboard	Dr. Kumar K
55	Iot Enabled Battery Unit With Smart Battery Management And Display	Dr. V Lakshmi Devi



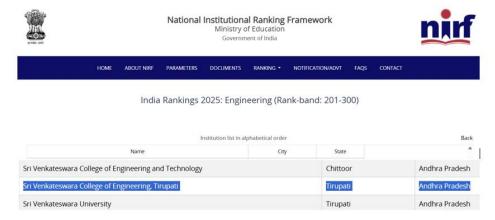
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J. Participation of SVCE- IIC in various programs of Central and State Govt. Received 3.5 star rating & Letter of appreciation in IIC 5.0



Participated in NIRF ranking-2025 and Received 201-300 Band in Engineering



Dr N Rajesh, IIC Convenor, Contributed in Mega Tinkering Day on 12^{th} Aug 2025, held virtually and simultaneously in schools nationwide





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Accredited by NBA (B.Tech–CSE, ECE, EEE, Mech., Civil and IT) & NAAC with 'A' Grade Approved by AICTE, New Delhi permanently affiliated to JNTUA, Ananthapuram.

K. Detail of Social Media & Connections of IIC institute

Our Institute has almost all social media communities to promote the innovation, entrepreneurship and startup activities of IIC and AICTE programs that are as follows

- 1. https://www.instagram.com/iic_svce/?igshid=MzNlNGNkZWQ4Mg%3D%3D
- 2. https://www.facebook.com/SVCETPT/
- 3. https://twitter.com/svce_tirupati?lang=en

L&M Images

Glimpses of Quarter 4





We, IIC at SVCE dedicated to develop Start Up & Entrepreneurship eco system in and around college premises.

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