

SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN :: BHIMAVARAM (AUTONOMOUS)



ANNUAL REPORT 2022-23

SVECW IIC ID: IC201810226



A. About IIC Institute

The MHRD's National Innovation and Startup Policy is a guiding framework that needs to be put into place in institutions to help with actions related to innovation and entrepreneurship. According to this framework, the Institution Innovation Council of SVECW takes on the task of building an environment for innovation and entrepreneurship. This is made possible by VISHVA TBI, which was started at the college under NIDHI TBI, and the Entrepreneurship Development Cell.

VISION

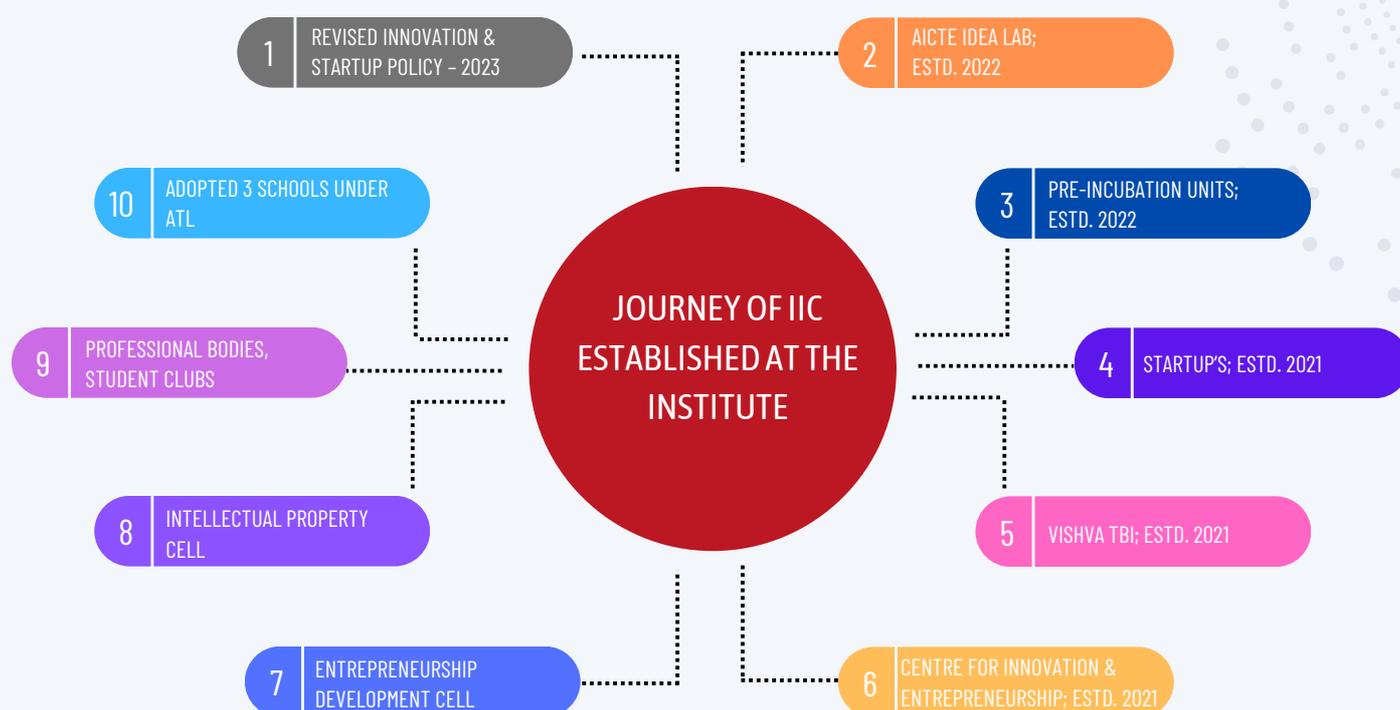
- To be recognized as a leading institution in the environment for promoting innovation and to spread the spirit of entrepreneurship in the campus.
- To make products and technologies that meet the needs of society by offering the innovative minds to be job providers

MISSION

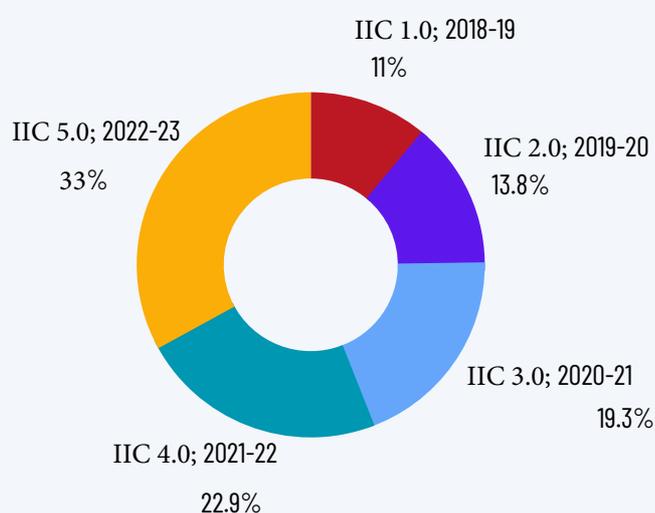
- Organise regular workshops, seminars, and interactive sessions with entrepreneurs, investors, and professionals to facilitate the dissemination and cultivation of creative ideas.
- Engage in professional networking activities with professionals and established national organisations focused on fostering entrepreneurship.
- Organize idea contests and Project Exhibitions to showcase the innovative ideas.
- Create an ecosystem that will foster entrepreneurial spirit among Faculty and Students. Offer mentorship to translate ideas into products and services that cater to the needs of the society.

Journey of IIC established at the Institute

The Institution's Innovation Council (IIC) is one of the Unique Initiatives of MoE's Innovation Cell, Govt. of India to promote Innovation, Start-up and Entrepreneurship activities. Our college registered for IIC in A.Y:2018-2019, to promote the vision of IIC in terms of Innovation, Start-up and Entrepreneurship among faculty members and students. College got a star rating of 3 out of 5 in IIC 4.0 and ranked in the band of 151-300 in the category of NIRF Innovation ranking 2023. Faculty and Students actively take part in various programs conducted by MIC, IIC and the college also conducts related activities on its own as self-driven activities.



Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units etc.



IIC at SVECW represents the Innovation & Entrepreneurship training and promotion. Below is the representation of people from different centres and are part of IIC 5.0 for effective functioning.

- Dr. G.Subbaraju, IIC Convener
- Dr. K Padma Vasavi, Coordinator IPR Cell & In-charge- NIDHI TBI Centre
- Dr. T Sudheer, IDEA Lab,
- Dr. V.V.R. Maheswara Rao, NIRF Coordinator
- Dr. G. Ratnakanth, Coordinator EDC
- Dr. G Durga Prasad, In-Charge Innovation Cell
- Mr. B Satya Krishna, In-Charge Startup Cell
- Mr. D. Ramesh Varma, Vishnu Foundation Technology Business Incubator
- Mr. Ch. Anudeep, Startup Activity Coordinator
- Mr. K. Pawan Kumar, Product Manager, Microsoft Corporation (I) Pvt. Ltd.
- Mrs. Shibani Pandit, Product Designer, VMware Software India Pvt. Ltd, Bangalore
- Mr. K. Prasanth, Co-Founder, StudyOwl, Bangalore
- Mr. Ravi Muttineni, Venture Capitalist, Bangalore
- Ms. Raga Mounika, Developer, Athena Health, Bangalore

- **Head of the Institute** - Mentoring and guiding to the IIC council members
- **President** - Conduction of Meetings, Discussion of events and activities to be conducted
- **Convener** - Planning of activities according to IIC, uploading the reports received from coordinators, Updating the info to the faculty and students as soon as received from IIC
- **Coordinators and Members** - Conduction of activities and submitting the report

B. Brief mention of key functionaries at the IIC Institute



Sri K. V. Vishnu Raju
CHAIRMAN



Dr. G. Srinivasa Rao
HEAD OF THE INSTITUTE
(HOI)



Dr. P. Srinivasa Raju
PRESIDENT



Dr. G. Subba Raju
Convener



Dr. K. Padma Vasavi
IPR Activity Coordinator



Dr. P. Kiran Sree
Social Media Coordinator



Dr. S.M. Padmaja
Innovation Activity Coordinator



Dr. S. Hanumantha Rao
Internship Activity Coordinator



Dr. V.V.R. Maheswara Rao
NIRF Coordinator



Dr. G. Durga Prasad
NISP Coordinator



Mr. Ch. Anudeep
Startup Activity Coordinator

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

Total No. of IIC Members
Faculty:21, Students:12, External Members:3

01.

Total No. of IAs: 17
(Advanced Level:6 Basic Level:11)

02.

Total No. of faculty Mentors
from Portal:21

03.

Pre-Incubation Units, If any :5
(Entrepreneurship development Cell,
Innovation Cell, Startup Cell, NIDHI TBI,
AICTE IDEA LAB)

04.

Incubation Units, If any: 1
(VISHVA TBI)

05.

IP Facilitation Unit, If any:
SVECW-IPR Cell

06.

Innovation Ambassadors



Dr. K. Padmavasavi

Professor in ECE



Dr. S. M. Padmaja

Professor in EEE



Dr. V. Maheswara Rao

Professor in CSE



Dr. S. D. K. Varma

Professor in EEE



Dr. S. H. Rao

Professor in ECE



Dr. G. D. Prasad

Professor in AI



Dr. T. Sudheer

Assoc. Prof. in ECE



Mr. G. Challa Ram

Asst. Prof. in ECE



Mr. Ch. Anudeep

Asst. Prof. in MBA



Mr. S. Ravi Chandra

Asst. Prof. in IT



Mr. M. V. V. Rama Rao

Asst. Prof. in CSE



Mr. D. Ramesh Varma

Asst. Prof. in ECE



Mr. Anandraj

Asst. Prof. in AI



Mr. B. Satya Krishna

Asst. Prof. in ME

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

VISHVA TBI

- Innovative FAB Lab for Advanced Prototyping and Manufacturing
- PCB Lab for Rapid Prototyping and Manufacturing
- Mentoring Support
- Technical & Funding Guidance
- Work Space at TBI
- IP Development Support

AICTE IDEA LAB

- 3D printers
- 3D scanners
- IoT Kits, Arduino
- Raspberry
- CNC Wood routers
- CO2 Laser Cutting
- Mentoring Support
- IDEA Pitching and POC Verification

I&E COURSES

- Design Thinking
- Entrepreneurship and Small Business Management
- Organic farming
- Food Technology
- Intellectual Property Rights and Patents
- Design and Drawing of Reinforced Concrete Structures
- Innovations in Marketing

IPR CELL

- Innovation protection through Patent, Copyright and Trademarks
- Mentoring Support

EDC CELL

- Motivating Students Towards Entrepreneurship
- Mentoring Support
- Business Model Canvas



AICTE IDEA LAB

VISHVA TBI



I&E ACTIVITIES

25 IIC Calendar Activity

07 MIC driven Activity

46 Self driven Activity

13 Celebration Activity

Professional Bodies

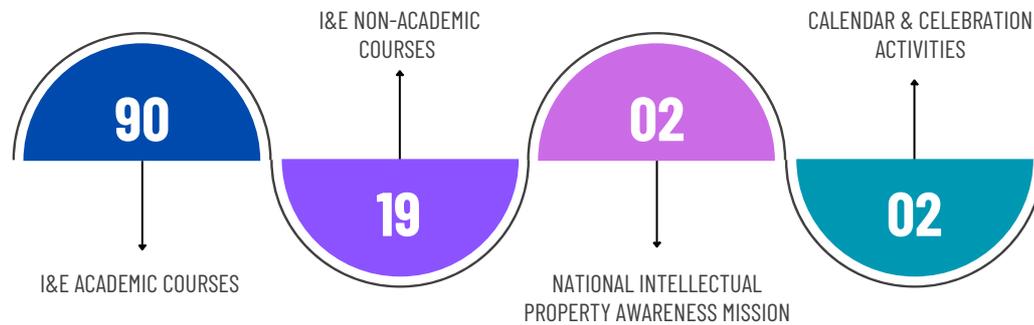


Student clubs



E. Highlight Achievements (Narrative/Graphical/tabular representation)

NUMBER AND DIFFERENT TYPES OF I&E AND IPR ACTIVITIES CONDUCTED



FEATURES	BASIC
NO. OF STUDENT'S & FACULTY IDEAS GENERATED	127
NO. OF STUDENT'S & FACULTY INNOVATION/PROTOTYPES DEVELOPED	31
NO. OF IPS GENERATED, PUBLISHED AND GRANTED	PUBLISHED: 41 GRANTED: 06
NO. OF STUDENT & FACULTY START-UPS/VENTURES ESTABLISHED	NIL
AMOUNT SPENT ON PROMOTION AND AWARENESS GENERATION ON INNOVATION ENTREPRENEURSHIP IN THE CAMPUS	RS.931790.00
AMOUNT GRANT OR FUND SUPPORTED TO STUDENT & FACULTY LEAD INNOVATIONS, START-UPS AND IPR	RS.462360.00
NO. OF TECHNOLOGY TRANSFER AND COMMERCIALISATION HAPPENED	NIL

F. Highlight few best IIC Faculty/Student members and their achievements / Rewarded for the innovations at different forum



Mr. G. Challa Ram | ECE

Mr. G. Challa Ram is an active IIC Innovation Ambassador at SVECW, he inspires students with talks on innovation and startups. He guided the "Buzzing Band" project, a finalist in PAL's Innovah competition, using Arduino for vibration alerts aiding the elderly. He organized mentoring events, aiding SVECW students in business canvas prep. He also gave expert talks at SVECW and Smt. Seetha Polytechnic College, enriching students' startup understanding. Some of the Achievements are: Completed advanced IA training, Mentored students in Yukthi and PAL's Innovah project competition, Guided students toward design thinking approach etc.,



Dr. S. Dileep Kumar Varma | EEE

I Dr. S.Dileep kumar Varma, an EEE Department professor, is serving as an IIC Ambassador for Shri Vishnu Engineering College for Women in Bhimavaram. I consider myself fortunate to have served as SVECW's innovation ambassador. I have planned a number of internal and external activities, such as Project Expo, Ideation competitions, field trips, industry expert lectures, and school outreach programs, to raise student understanding of innovation, entrepreneurship, and start-ups. Furthermore, I have given expert speeches on innovation and design thinking within the institute and outside of the university to empower students and pique their interest in developing innovative products for the benefit of the community. As an innovation ambassador, I also coached and encouraged several students in the selection and creation of prototype models.



Mr. Ch. Anudeep | MBA

I, Mr. Ch. Anudeep, Assistant Professor, MBA Department is glad to have an opportunity to act as Innovation Ambassador for "Institutes of Innovation Council "since 5 years. In this journey i learn so many things and which i implemented on my students and our students grab the Prizes in the Idea pitching Events it's my achievement and also now i am travelling with Atal Innovation Lab students of different schools what i believe is now it's time for me to turn School students to Entrepreneurs.

G. Highlight selected best Innovations & images with mention of inventor/innovation name

Name of the Project: Vibro Tactile Alert

The technology behind this prototype centers around an Arduino board integrated with a vibration alert sensor and an LED display. Upon activation, the LED display showcases a designated number that corresponds to the caller. Each number is associated with a predefined message, effectively conveying specific information between the communicating parties. The brilliance of this system lies in its simplicity; users can trigger the alert using their wearable bands, initiating a communication channel without any hindrance. The potential of the Vibro Tactile Alert prototype has been recognized and submitted to the Yukthi Innovation Project Contest.

Dr. K Padma Vasavi, Professor ECE / Ms. Likitha, IV ECE, Ms. M Satwika, IV ECE



Name of the Project: Design and fabrication of Footstep Power Generation using Rack and pinion mechanism

Designing and fabricating a footstep power generation system using a rack and pinion mechanism involves converting the mechanical energy generated by human footsteps into electrical energy. This concept is often used in environments with high foot traffic, such as busy streets, shopping malls, or public transportation hubs

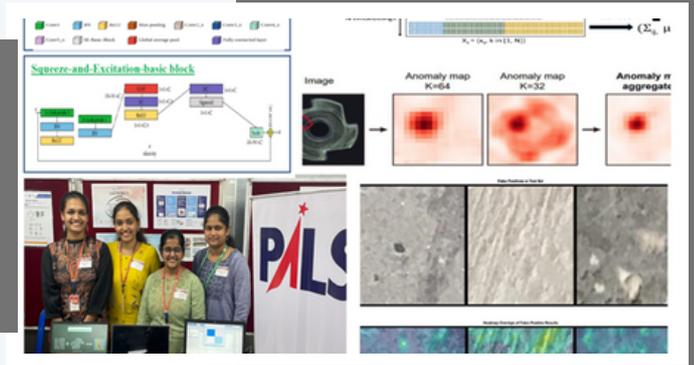
Inventor Name: Mr. B. Satya Krishna



Name of the Project: Detection of surface cracks in civil and mechanical structures

The specific innovation lies in the use of a multilayer Deep Neural Network based on the ResNet-18 architecture for this purpose. Let's break down the key innovations step by step. This approach leverages the power of deep learning and CNNs to automate and improve the accuracy of crack detection in civil and mechanical structures, making it a promising advancement in the field of structural health monitoring and maintenance. This innovative project has selected as one of the finalist in PALS Innowah 2023 contest which is held at IIT Madras Research Park.

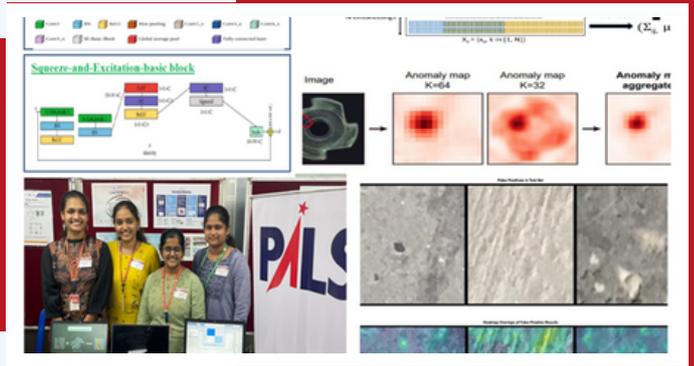
Dr. M V Subba Rao Associate Professor, Ms. M Sravani, Ms. P Sai Sneha, N Harika Satya Sindhu, IV ECE Dept



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H. Highlight selected start-ups established by students/faculties with mention of founder/cofounder name

--NIL--

I. List if any break through Innovations / Technology Developed at the institute (2-3 technology with 2-3 lines about technology and innovation)



Name of the project: CONCRETE CANOE

Inventor Name:

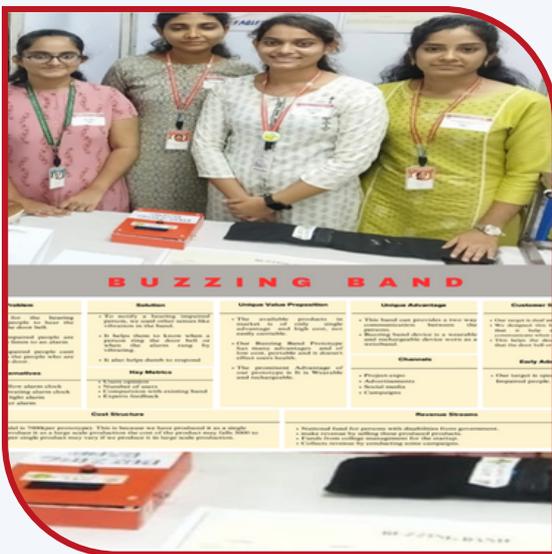
Dr. P Gireesh Kumar, Professor
Mr. Ram Gopal, Assistant Professor CE Dept.

Pushing the boundaries of traditional materials, this innovation showcases our commitment to redefining possibilities and fostering a culture of innovation within our academic community. The Concrete Canoe not only exemplifies our dedication to hands-on learning but also represents a bridge between theoretical knowledge and real-world application.

Name of the project: Retrofitting of the conventional vehicle into the hybrid scooter

Inventor Name: Mr. Manoneet Kumar

Retrofitting a conventional vehicle into a hybrid scooter involves modifying the existing vehicle to incorporate hybrid technology, which combines both an internal combustion engine (ICE) and an electric motor. This process aims to enhance the vehicle's fuel efficiency, reduce emissions, and provide the option of electric propulsion



Name of the project: Buzzing Band

Inventor Name:
Mr. G. Challa ram

This innovative project introduces a wearable wristband designed to cater to the requirements of both the elderly and those with hearing impairments. The core of this prototype centers around a wristband that is comfortably worn by elderly individuals or those with hearing challenges while they are at home alone. This innovative project has selected as one of the finalist in PALS Innowah 2023 contest which is held at IIT Madras Research Park.

J. Participation of IIC-institute in various programs of Central and Stage Govt. Highlighting specially for the schemes or programs

REGISTERED FOR ARIIA (AIR-C-17962)		APPROVAL OF INNOVATION AND ENTREPRENEURSHIP POLICY OF THE INSTITUTE	✓	IMPLEMENTATION ACTION PLAN DEVELOPED	✓
NIRF INNOVATION RANK	151-300 BAND	POLICY NOTIFIED	✓	ALLOCATED 1% OF ANNUAL BUDGET	✓
SMART INDIA HACKATHON	PARTICIPATING	DEDICATED POLICY WEB LINK	✓	CONDUCT OF AWARENESS PROGRAM ON POLICY OBJECTIVES, AND PROVISIONS	✓
KAVACH	✓	YUKTI NATIONAL INNOVATION CHALLENGE	✓	NEP KI SAMAJH' - REG NEP 2020	✓

K. Detail of Social Media & Connections of IIC institute

- <https://www.linkedin.com/school/vishnusvecw/>
- <https://www.twitter.com/svecw2>
- https://www.instagram.com/vishnu_svecw/
- <https://www.facebook.com/svecwcollege>

L. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell



I am glad to have an opportunity to act as Innovation Ambassador for "Institutes of Innovation Council "since 5 years. It gives immense pleasure to inspire and motivate Students Change their perception towards Problem identification and Problem solving

Mr. Ch.Anudeep, Innovation Ambassador,
Assistant Professor, MBA Department

I am grateful to be a part of Institutes Innovation Council and I am happy to participate in the innovation and entrepreneurship related activities. It is really inspiring and encouraging and also develops my skills.

D.Kavya Sri,
MBA Student



I am grateful to be a part of IIC. I am happy to participate in innovation and Entrepreneurship related activities. All the students get an opportunity to Interact with the renowned entrepreneurs which encourage students and inspiring them.

Irrinki Mohana,
MBA Student

I wholeheartedly support the Institute Innovation Cell Ambassador program for its dedication to promoting innovation, nurturing leadership, and leaving a lasting imprint. Through my interactions with the program and its ambassadors, I am confident that it will continue to empower the next generation of innovators and change-makers, driving progress and innovation.

G. Challa Ram, Innovation Ambassador,
Assistant Professor, ECE Department



I R. Divya Sai, a third-year B.Tech. EEE student, is thrilled to serve as one of the IIC student co-ordinators at Shri Vishnu Engineering College for women. I had the chance to take part and lend a hand at a variety of events, including Project Competitions, Hackthons, Field Visits, Expert Lectures, and Outreach Programs run by IIC.

R. Divya Sai,
EEE Student

IIC events helps me to develop the qualities and skills of various technologies and attain a strong foundation in Information Techonlogy. As a result of my encounters with the program and its ambassadors, I am sure that it will keep inspiring the next generation of change-makers and innovators, advancing advancement and innovation.

B. Sanvitha
IT Student



M. Images

Glimpses of the Events Organized by Various Departments under IIC:



Highlights of the Activities

YUKTI NATIONAL INNOVATION REPOSITORY



ATL School Mapping

Sl. No	School Name	E-Mail	Nominate IIC Coordinator
1	D N R E M HIGH SCHOOL BHIMAVARAM	dnremhighschool@gmail.com	Dr. S.Dileep Kumar varma
2	ST ANNS ENGLISH MEDIUM SCHOOL WEST GODAVARI	venkatramanap69@gmail.com	Ch.Anudeep
3	VISHNU SCHOOL BHIMAVARAM	vishnupublicschool@yahoo.co.in	L. Ramgopal

Industry Partnership / Associations



N. Contact

Dr. G. Srinivasa Rao
Principal

Dr. P. Srinivasa Raju
Vice-Principal
President - IIC

Dr. G. Subba Raju
Professor & HOD-MBA
Convener - IIC

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