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BESIDE YSR INTERNATIONAL CRICKET STADIUM, P.M.PALEM, VISAKHAPATNAM – 530041

# INSTITUTION INNOVATION COUNCIL

# **ANNUAL REPORT 2023-2024**

# ABOUT IIC INSTITUTE

Vision / Mission of IIC established at the Institute

#### **VISION:**

❖ To foster a culture of innovation, entrepreneurship, and sustainable development by empowering students and faculty to transform ideas into impactful solutions, positioning the institution as a leader in technological advancement and societal progress.

# MISSION:

- ➤ To create a conducive ecosystem for innovation and entrepreneurship by providing mentorship, resources, and industry partnerships.
- ➤ To inspire and nurture creativity, critical thinking, and problem-solving skills among students and faculty members.
- ➤ To facilitate the transformation of innovative ideas into viable products and solutions that address real-world challenges.
- To promote interdisciplinary collaboration, encouraging innovative projects that span multiple fields of engineering and technology.
- ➤ To support start-ups and entrepreneurial ventures, offering incubation services, funding, and networking opportunities.
- To contribute to the nation's technological and economic growth by fostering innovation-led enterprises and sustainable solutions.

#### Journey of IIC established at the Institute

The IIC Journey at the Institute is structured to cultivate innovative thinking and collaborative solutions among diverse stakeholders. Rooted in inclusivity, engagement, and shared aspirations, this framework

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enables participants—ranging from students to faculty and industry partners—to co-create knowledge and experiences. By leveraging the collective strengths of the community, varied perspectives are being brought to bear on problem-solving, enhancing outcomes.

Stakeholder support was essential for sustaining progress and achieving meaningful objectives within our IIC Journey. Workshops, mentorship programs, and networking opportunities were strategically implemented to harness expertise and resources from diverse partners. This collective engagement empowered almost all the participants and strengthened the Institute's capacity for innovation, ensuring that it remained at the forefront of educational excellence and societal contribution. Through active stakeholder involvement in dialogue and decision-making processes, the educational experience was enhanced, and broader community impact was achieved by us.

The role of stakeholder support in enhancing the IIC experience could not be overstated. Industry partners, faculty, and alumni provided guidance and encouragement, enriching intellectual capital and opening avenues for networking and mentorship thatwere highly effective strategic strategies for the movement. This interconnected support fostered a culture of innovation, where stakeholders feedback led to the program improvements and strategic advancements. The tangible benefits of such support got reflected in the program outcomes and participant satisfaction, evidenced by real-world project opportunities and skill acquisition from workshops and seminars.

Challenges in stakeholder engagement, such as aligning diverse interests and maintaining effective communication, present significant hurdles. However, these challenges also offered opportunities to build a deeper sense of community and drive collective impact. Transparent communication and mutual respect are crucial for turning these challenges into opportunities for refining initiatives were initiated.

Finally, not only stakeholders support had been fundamental to the success of the IIC Journey but other people also who are directly or indirectly involved had been proved to be vital in the smooth functioning of the IIC at S V P Engineering College. The collaborative engagement among every-one has fostered

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an environment conducive to innovation and excellence. Moving forward, nurturing these relationships will be vital for adapting curricula and research agendas to meet evolving demands. The IIC Journey exemplifies the power of collaboration and mutual investment, highlighting the importance of on-going dialogue and partnership in achieving greater impact.

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

The Institution's Innovation Council (IIC) at SANKETIKA VIDYA PARISHAD ENGINEERING COLLEGE is proud to exemplify a diversified representation, fostering a dynamic ecosystem that integrates multiple perspectives from various sectors. Our IIC brings together industry professionals, faculty members, and students from across different disciplines and departments, ensuring a holistic approach to innovation.

Key industry partners play a pivotal role by offering valuable insights, technical expertise, and mentorship, keeping the council aligned with current market trends. Additionally, interdisciplinary collaboration is central to our IIC's mission, with representation from departments such as Computer Science, Mechanical Engineering, Business, and more. This diversity fuels innovative thinking by encouraging the cross-pollination of ideas, fostering creativity and unique solutions to complex problems.

Faculty members and Coordinator put together from various units serve as mentors, supporting students through every stage of their projects, while students across disciplines actively contribute to the innovation ecosystem. This diversified representation strengthens the council's ability to tackle multifaceted challenges and produce cutting-edge solutions.

Brief mention of key functionaries at the IIC Institute		
President	1. To lead the IIC Council.	
	2. To have the IIC portal Login ID and will be the custodian of IIC portal	
	login and data/ reports uploaded therein.	
	3. To call the meetings, set meeting agenda and will monitor the deliverable.	

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	4. To be the main point of contact with MHRD/MoE Innovation Cell.	
	5. To respond to all communication from IIC National Coordination team	
	(MHRD Innovation Cell) and will be responsible to ensure decent performance of	
	IIC.	
	6. To coordinate with MHRD/MoE innovation cell and responsible for all the	
	IIC activities in the institute.	
	7. To ensure Institution's participation in IIC calendar activity and take lead	
	in the institution driven activities (own initiatives).	
	8. To ensure the effective implementation of IIC activities with the help of	
	Convenor.	
	9. To change the council members as per the decision taken in council	
	meetings and update the information on portal.	
	10. To be responsible for submitting the progress/activity reports on the IIC	
	portal.	
Vice President	1. To build and strengthen the in-house mentor pool and human resource	
	capacity to drive campus Innovation & Entrepreneurship activities.	
	2. To Identify, handhold and guide potential/early-stage entrepreneurs, student	
	innovators at the Institute on regular basis.	
	3. To develop a critical mass of motivated students & faculties with creative	
	potential, and Entrepreneurial orientation & skill set.	
	4. To Commercialize the innovations through technology transfer, technology	
	licensing and Startups, etc.	
	5. To build an infrastructure support and facilities to promote innovation and	
	enable environment of easy access to resources within and outside the institute.	
	6. To strengthen the intra and inter-institutional partnership and collaboration	
	with ecosystem at different level and co-creation of new program interventions	
Convenor	1. To work in close coordination with IIC President and will provide help	
	wherever required for smooth conduct of activities.	







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- 2. To ensure the participation in the meeting and will prepare the meeting agenda at least 10 days prior to meeting with the inputs from all valuable council members and President.
- 3. To maintain documentation of the proceedings like meeting photos, Minutes of Meetings, Meeting Video has to uploaded to Institution YouTube Channel and the link has to be shared with competent authorities and any other proof.
- 4. To ensure that the internal examination dates would not interfere with the IIC activities and coordinate with all departments to ensure the same.
- 5. To collect the inputs from all the members of the council at regular interval, especially external members for better planning of IIC activities and effective delivery of results.

#### Coordinators etc.

#### SOCIAL MEDIA COORDINATOR

- 1. To create and manage IIC page/account on Facebook, Twitter and YouTube and other relevant social media platforms.
- 2. To be responsible for posting all the relevant information about council meeting resolution and action plan, IIC activities and follow/tag MIC/IIC page and posts on these platforms.
- 3. To ensure that all students follow MIC/IIC page/account on social media to get first-hand information.

#### STARTUPS/INNOVATION/INTERNSHIPS/IPR COORDINATORS

#### Members

1. To 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 compulsorily for all the academic activities of their respective departments like webinars, seminars and workshops related to Industry Interaction, Startup, Entrepreneurship, Research and Innovation







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/ Intellectual Property Rights (IPRs).

- 2. To establish Innovation Clubs for students with facilities and equipment needed for Innovation and Entrepreneurship (I & E) activities in their respective departments.
- 3. To develop an Innovative and Entrepreneurial mindset through a series of activities like workshops, awareness, market outreach events, orientation, advocacy meetings, campus hackathons, networking events (Intra and Interinstitutional, enablers, stakeholders).
- 4. To encourage faculty and students to pursue research studies related to Entrepreneurship.
- 5. To develop short term certificate courses on Innovation and Entrepreneurship.
- 6. To convince departments to offer Major or Minor Specializations or credit courses related to Innovation and Entrepreneurship (I & E) and IPR
- 7. To organize Employment Generation skill development programs of minimum 30 contact hours of duration.
- 8. To organize entrepreneurial skill development / employment generating programmes for external participants (local residents, community members, alumni etc.)
- 9. To coordinate with IPR Cell to generate revenue from patents, copyrights, trade secrets and others.
- 10. To obtain grants from Government, Non-Govt, CSR Bodies towards promoting and supporting innovations.

Portfolio/graphical/Tabular representation of Resor	urce strength (human capital and Physical capital) of	
the IIC institution		
Total No. of IIC Members	68 students + 36 faculties = 104 members	
Total No. of IAs	02	
Total No. of faculty Mentors (From Portal)	02	
Pre-Incubation Units, If any	01	

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Incubation Units, If any	01
IP Facilitation Unit, If any	01

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

Highlight Achievements (Narrativ	ve/Graphical/tabular representation)
Number and Different types of I&E and IPR	as enclosed
activities Conducted	
No. of student's & faculty ideas generated	02
No. of student's & faculty Innovation/prototypes	00
developed	
No. of IPs generated, published and granted	02
No. of Student & Faculty Start-ups/Ventures	00
established.	
Amount spent on promotion and awareness	00
generation on Innovation Entrepreneurship in the	
campus	
Amount grant or fund supported to student &	00
Faculty lead Innovations, start-ups and IPR	
No. of Technology Transfer and	in the pipe-line
Commercialisation happened	

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

Two of the students projects guided/mentored by the coordinators had got selected to be exhibited at the DRDO-NSTL, Visakhapatnam on the Science-Day.

The prototypes were put-up for the display at the groups schools/colleges and were explained by the team of the students to the others visitors.

Andhra University's incubation center a-HUB is also being visited along with the GITAM University's HUB for pitching the ideas and generating new ideas for transformation to the ideation for the budding startupeers.

Highlight selected best Innovations & images with mention of inventor/innovation name		* * * * * * * * * * * * * * * * * * * *	
<b>Best</b> – <b>Innovations</b>		Innovation with the names of the Inventors	**
The letter received f	om DRDO-NSTL is	being enclosed for the reference purposes.	11

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Selected list of models for exhibition at NSTL -DRDO Inbox



Wed, 8 May, 11:10

# National Technology day <ntdc.nstl.drdo@gmail.com>

to me, prinicpal

!!Greetings!!

Good morning madam/sir

List of model/abstract selected for exhibition at NSTL -DRDO

- (1) Machine Learning based estimation of output current ripple in PFC&IBC used in battery charger of EV: A comparison of LR, RF and ANN techniques
- (2) Effective Energy Management Plan for Fuel Cell Hybrid Electric Vehicles Employing Classifier Fusion Method
- (3) Arduino based Child Rescue System from open borewell.
- Please inform faculties as well as students to contact immediately.
- Please bring your all model at NSTL at the earliest by today evening.

Highlight selected start-ups established by students/	faculties with mention of founder/cofounder name
Start-ups Name	Founder/Co-Founder
1. Machine Learning based estimation of output current ripple in PFC&IBC used in battery charger of EV: A comparison of LR, RF and ANN techniques	Mr P S N Bhaskar & Team
2. Effective Energy Management Plan for Fuel Cell Hybrid Electric Vehicles Employing Classifier Fusion Method	Mr Pakki Murari & Team
3. Effective Energy Management Plan for Fuel Cell Hybrid Electric Vehicles Employing Classifier Fusion Method	Mr R S Kiran & Team

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

Participation of IIC-institute in various programs of	Impact Lecture Schemes
Central and Stage Govt. Highlighting specially for	
the schemes or programs	
NISP Adoption status - Trained Faculty, Policy	00

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Formulation, Policy Implementation	
Smart India Hackathon etc.	in the pipelines
YUKTI Innovation Challenge	in the process and the information shared

Detail of Social Media & Connections of IIC institute	Instagram, facebbook and College website is being updated with the happenings and posting on a regular basis
Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell	as enclosed
Images	
Contact	PRESIDENT : R S KIRAN
	M: 9014166673
	HEAD OF THE INSTITUTE :
	Prof(Dr) T V RAMAKRISHNA
	PH:0891-2781375







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<u>IESTIWONIAL</u>
Name of the Student
College Regn No.
Branch of Study
Year of Study
The Innovation Council program at SANKETIKA VIDYA PARISHAD ENGINEERING COLLEGE –
ANDHRA UNIVERSITYecosystem has been an incredible experience, fostering a culture of creativity,
entrepreneurship, and problem-solving among students. It has provided a platform for us to engage in hands
learning, collaborate with industry experts, and transform innovative ideas into practical solutions.
As a B.Tech student, I found the program particularly valuable in honing my technical skills while developing
an entrepreneurial mind-set. The workshops, hackathons, and mentorship sessions have been instrumental in
expanding my knowledge and opening up new opportunities for real-world applications.
The IIC has truly empowered me to think beyond conventional boundaries and inspired me to actively pursu
my passion for innovation. I believe the program is an essential component of every student's academic journ
equipping us with the tools and confidence needed to succeed in today's fast-evolving technological landsca
Signature
Date

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# INSTITUTION INNOVATION COUNCIL

		<u>TESTIMONIAL</u>	
Na	me of the Student		
Co	llege Regn No.		
Bra	anch of Study		
Ye	ear of Study		
\ \			
The Innovati	on Council at SANK	ETIKA VIDYA PARISHAD ENGINEERING COLLEGE-ANDHRA UNIVERSIT	Ϋ́
truly embodi	es the spirit of "Exce	elling into Excellence." It has been a transformative journey, fostering a dynamic	
environment	where students are e	encouraged to think creatively and push the boundaries of innovation.	
As a final-ye	ar B.Tech student in	Computer Science and Engineering, I have experienced firsthand how the Innovatio	n
Council emp	owers students to co	nvert innovative ideas into impactful solutions. Through its meticulously designed	
·		etitions, the council has helped me sharpen my technical expertise while cultivating	
		amwork, and entrepreneurial thinking.	
The council's	s commitment to nur	turing talent and driving excellence has equipped me with the confidence to take on	real-
world challer	nges and pursue inno	ovation with purpose. It has not only elevated my academic experience but also prepa	ared
me to excel i	n the ever-evolving t	technological landscape.	
The Innovati	on Council is a beaco	on of excellence, continuously inspiring us to aim higher, innovate boldly, and contri	ibute
meaningfully			
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		Signature	
		Date	
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# **TESTIMONIAL**

Name of the Student	
College Regn No.	
Branch of Study	
Year of Study	

The Innovation Council program at SANKETIKA VIDYA PARISHAD ENGINEERING COLLEGE-ANDHRA UNIVERSITY has been a remarkable initiative, driving an atmosphere of creativity, collaboration, and innovation. It has given students like me the opportunity to explore new ideas, work on real-world challenges, and develop skills that go beyond the classroom.

As a student in this college, I have gained invaluable insights from the various activities organized by the council, including workshops, hackathons, and mentorship programs. These experiences have helped me enhance my technical abilities and shaped my problem-solving approach, preparing me to tackle industry challenges with confidence.

The faculty and mentors involved in the program have been incredibly supportive, guiding us through the innovation process and encouraging us to think critically and creatively. Their dedication to fostering a culture of innovation is truly commendable.

I can confidently say that the Innovation Council has played a pivotal role in my academic and professional growth, and I highly recommend it to anyone looking to excel in their educational journey. It is a wonderful platform that pushes students to think outside the box and pursue their ambitions with passion.

Signature

Date

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#### **TESTIMONIAL**

Name of the Student	
College Regn No.	
Branch of Study	
Year of Study	

I am incredibly grateful for the opportunity to be part of the Innovation Council SANKETIKA VIDYA PARISHAD ENGINEERING COLLEGE-ANDHRA UNIVERSTY. The program stands out as one of the most enriching experiences of my academic journey. It has been instrumental in fostering a culture of innovation, creativity, and problem-solving among students.

As a student in this college, I have greatly benefited from the various workshops, ideation challenges, and mentorship sessions that the council organizes. These initiatives have not only enhanced my technical knowledge but also equipped me with critical thinking and entrepreneurial skills that will be invaluable in my future career.

The program is excellently structured, providing students with the necessary resources and guidance to turn their innovative ideas into practical projects. It promotes collaboration, leadership, and hands-on learning, which are essential for navigating the fast-paced tech industry.

I recommend the Innovation Council for its dedication to student growth and its commitment to fostering excellence. The program has left a lasting impact on me, inspiring me to continue pursuing innovative solutions to real-world challenges. I highly recommend this initiative to every student who wishes to excel and make a difference.

Signature

Date

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Name of the Student	
College Regn No.	
Branch of Study	
Year of Study	

I would like to extend my heartfelt gratitude to the Innovation Council at SANKETIKA VIDYA PARISHAD ENGINEERING COLLEGE –ANDHRA UNIVERSITY for playing a pivotal role in shaping my career journey. The program has been a cornerstone of my academic and professional growth, providing me with unparalleled opportunities to explore innovative ideas and practical solutions.

As a B.Tech student, the skills and experiences I have gained through this program have been invaluable for my career progression. The hands-on projects, mentorship from industry leaders, and exposure to real-world challenges have given me a competitive edge as I prepare to enter the workforce.

The Innovation Council's focus on creativity, collaboration, and entrepreneurship has not only enhanced my technical abilities but also instilled a sense of confidence and leadership in me. These attributes will undoubtedly serve me well as I pursue my professional goals in the tech industry.

I sincerely thank the Innovation Council for its unwavering support and dedication to fostering student innovation. This program has significantly contributed to my career readiness and has inspired me to continually strive for excellence in all my future endeavors.

Signature

Date

## **TESTIMONIAL**

Name of the Student

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	College Regn No.		
	Branch of Study		1
	Year of Study		
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I would	like to express my deep	pest gratitude to the coordinators and faculty members of the Innovation	Council
at SAN	KETIKA VIDYA PAR	ISHAD ENGINEERING COLLEGE-ANDHRA UNIVERSITY for their	
unwave	ring support and guidan	ce throughout my journey. Their mentorship has been instrumental in sha	aping
my prof	essional growth and pre	eparing me for the challenges ahead.	
As an E	ngineering student, I ha	ve had the privilege of participating in various initiatives led by the Inno	vation
Council	. The dedication of the	coordinators and faculty to fostering innovation, encouraging creativity, a	and
nurturin	g leadership has been n	othing short of inspiring. Their constant encouragement and insightful fe	edback
have he	ped me develop a stron	g foundation of technical and entrepreneurial skills that are essential for	my
future c	areer.		
The han	ds-on learning experien	ices, workshops, and real-world problem-solving opportunities made pos	sible by
the facu	lty's efforts have signif	icantly contributed to my professional development. I am confident that t	he
knowled	lge and skills I have gai	ned under their guidance will help me excel in my career.	
Thank y	ou to the Innovation Co	ouncil coordinators and faculty members for their invaluable contribution	s to my

Date

Signature

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growth. Your commitment to student success is truly commendable, and I will carry the lessons I've learned

**R S KIRAN** PRESIDENT-IIC

here with me throughout my professional journey.