B.V.Raju College

Autonomous

Accredited by NAAC with B++

NIRF Rank band 201-300

Sri Vishnu Educational Society Bhimavaram

CENTER FOR INNOVATION CLUB

Department of Physics

Club Activities

Workshops

Lab to school

conducting events

Hands on experience

Repairing and reuse of electronic waste

making low budget audio systems

Friday, August 9, 2024

Student Club Application Form

College	BVRC
Club Name	CENTER FOR INNOVATION CLUB
Date of Application	Sunday, September 8, 2024

Primary Purpose/Mission of the Club

REUSE OF ELECTRONIC WASTE IN OUR COLLEGE TO BUILD NEW PRODUCTS AND ALSO TO PROVIDE HANDS-ON EXPERIENCE TO THE STUDENTS WITH MANUAL AND USING AI

Description of Club Activities

*RECOVERING OF THE ELECTRONIC WASTE
*CONDUCTING WORKSHOPS
*CONDUCTING EVENTS
*MAKING LOW BUDGET AUDIO SYSTEMS
*LAB TO SCHOOL
*REPAIR AND REUSE OF ELECTRONIC WASTE

Target Audience (e.g., undergraduate students, specific majors, etc.)	UNDERGRADUATE

Club Leadership

President Details

Full Name	KORASIKHA HARSHINI
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Vice President

Details

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Treasurer

Details

Name	KARRI SURYA AYYAPPA SAI RAMA REDDY
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Secretary

Details

Name	CHALLA SAI SIVA KEERTH
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Faculty Advisor

Details

Name	CHEVURI CHIRANJEEVI VEERA BRAHMA VASANTH
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CENTER FOR INNOVATION CLUB ACTIVITIES

2024-2025

S.No	Name of the Event	Batch	Activity	From	To	College	Number of Participants
1	4 weeks workshop	1	Theory	01-07-2024	27-07-2024	SBSP	120
		1	Hands-on experience				
		2	Theory				
		2	Hands on experience				
		3	Theory				
		3	Hands on experience				
		4	Theory				
		4	Hands on experience				
		5	Theory				
		5	Hands on experience				
		6	Theory				
		6	Hands on experience				
		7	Theory				
		7	Hands on experience				
		8	Theory				
		8	Hands on experience				
2	National Symposium	1	science in photography	13-12-2024	14-12-2024	BVRC	40
		2	Project Expo				
3	Science festa 2k25	1	Drawing	17-02-2025	-	BVRC	64
		2	Digital presentation	18-02-2025	-		13
		3	Poster Making	19-02-2025	-		32
		4	Scientific Bingo	20-02-2025	23-02-2025		240
		5	Project expo	28-02-2025			10

Activity: HANDS-ON EXPERIENCE WORKSHOP

Participants: First-Year Polytechnic Students

The B V Raju College Center for Innovation conducted Hands-on experience in innovation, which involved actively engaging in the creative process, experimenting with new ideas, and developing practical solutions. This approach emphasizes learning by doing, where individuals and teams prototype, test, and refine their ideas in real-world scenarios. Such experience is invaluable as it allows innovators to understand the practical challenges, iterate based on feedback, and gain insights that theoretical knowledge alone cannot provide. Engaging directly with the innovation process fosters creativity, resilience, and a deeper understanding of the market and user needs, ultimately leading to more successful and impactful innovations.

The final-year physics students started a 4-week workshop on hands-on experience in the CFI on July 1st, 2024, for the students of Smt. B Seetha Polytechnic students. Overall, 120 students participated in the workshop. 15 students per batch were trained for two days in the CFI. During the two days of training, the students were taught basic soldering techniques and how to remove and replace components in the PCB. They were also separated into three teams with five members each and mentored by two CFI students. During the two days, each team built some small projects.

Objective:

- Identification of simple electronic components
- Acquiring basic soldering techniques
- Ability to deal with gadgets

Conclusion: The Hands-on Experience Workshop provided participants with practical skills in electronic components, soldering techniques, and project development, fostering a deeper understanding of innovation through active engagement.

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PROCEDURE FOR CONDUCTING THE WORKSHOP

THEORY SESSION:

- ✓ The faculty will give a PowerPoint presentation
- ✓ Covers Invention, innovation, and Creativity
- ✓ Explains about latest technologies
- ✓ Basic soldering

HANDS-ON EXPERIENCE:

- ✓ Under the guidance of the Faculty, the final students who were experts in the CFI will teach the students about the components
- ✓ Soldering
- ✓ Their uses and applications
- ✓ Within these 2 days, the students, under the guidance of their mentors, will complete a project.

CERTIFICATE DISTRIBUTION:

- ✓ After the completion of the project with hands on experience, a certificate will be provided to the students

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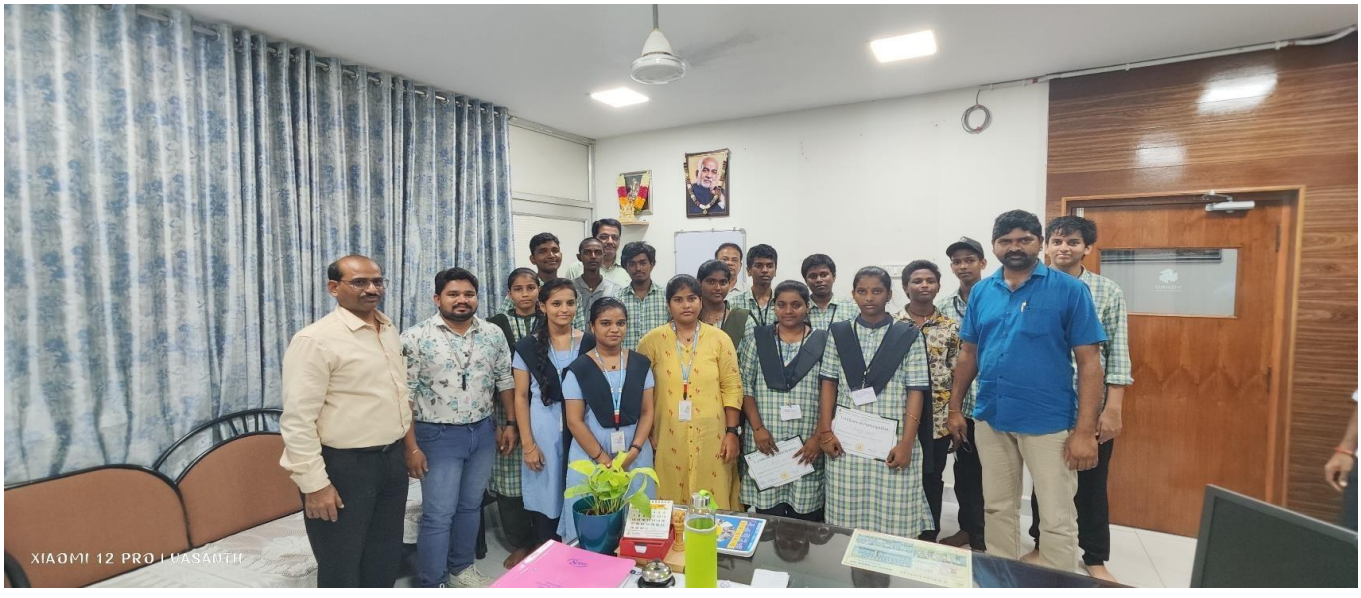

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CENTER FOR INNOVATION CLUB
HANDS-ON EXPERIENCE WORKSHOP
CHALLENGES AND OUTCOMES

Challenges for the workshop:.

- Resource Availability
- Skill Levels of Participants
- Time Management
- Safety Concerns
- Participant Engagement
- Follow-Up

Outcomes of the workshop:

- ✓ Students can identify the small electrical components
- ✓ Students will do soldering on their own
- ✓ They can identify Phase and neutral
- ✓ Hands-on experience creates interest in making new devices

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FEEDBACK

1.The Hands-on Experience Workshop was an invaluable opportunity for first-year students to gain practical skills in electronics and project development. We actively engaged in soldering techniques and teamwork, enhancing our understanding of innovation. The structured guidance from final-year students and faculty fostered a productive learning environment. Overall, the workshop ignited interest in creating new devices and problem-solving.

2.The Hands-on Experience Workshop was truly beneficial for first-year students, providing essential skills in electronics and project development. The interactive soldering sessions and teamwork initiatives greatly deepened participants' understanding and sparked creativity. Mentorship from final-year students and faculty enriched the learning experience. Overall, it was a fantastic opportunity that encouraged innovative thinking and collaboration.

Activity: NATIONAL SCIENCE DAY (SCIENCE FESTA 2K25)

Participants: All UG / PG students

National Science Day is celebrated in various countries, including India, on February 28th each year to commemorate the discovery of the Raman Effect by physicist Sir C.V. Raman in 1928. This day serves to highlight the significance of science and its contributions to society, promoting scientific literacy and the understanding of scientific principles among the general public.

OBJECTIVE:

1. Commemoration of Scientific Achievements: This event celebrates Sir C.V. Raman's discovery of the Raman Effect and showcases the impact of scientific research on our understanding of the natural world.

2. Promotion of Scientific Literacy: The day aims to enhance public understanding of science and its principles, encouraging people to appreciate the role of science in everyday life.

3. Inspiration for Future Generations: By highlighting scientific discoveries and innovations, National Science Day inspires students and young minds to pursue careers in science, technology, engineering, and mathematics (STEM).

4. Awareness of Science's Role in Society: It emphasizes how science contributes to societal development, addressing global challenges such as health, environment, and technology.

5. Encouragement of Scientific Collaboration: The day fosters collaboration among scientists, researchers, educators, and students to share knowledge and ideas.

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PROCEDURE FOR CONDUCTING THE NATIONAL SCIENCE DAY EVENT

Initial procedure:

- A meeting within the department will be held among the faculty
- A meeting with the students will be held, and the number of events will be finalized
- Faculty coordinators and student Organizers will be finalized
- A notice is submitted to the Principal and vice-principal, sir, through HOD.
- Official confirmation and event date will be finalized.
- Student organizers will select the student coordinators.

Announcements and Data Collection:

- A brochure is designed by the students
- It will be circulated among the students
- Students who are interested in the events will fill out a google form provided to them
- Event-wise data is collected from the google forms

Event organization:

- For every event, one faculty, two student organizers, and five student coordinators will be allotted
- Every event will be conducted only by the students