



C. V. Raman Global University

AICTE IDEA Lab

Activity Newsletter:

September, 2022

Issue 01

C. V. Raman Global University, Odisha, India

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Message from President



Dear Friends,

CGU has incorporated skills into all levels of higher education since long. Today NEP is emphasizing on the same to build a robust education system to provide competent manpower for future India. Our University has always showcased talents not only by building 25 Centres of Excellence but by winning Medals in World Skills, Smart India & International Hackathons.

AICTE- Idea Lab is another addition to its feather. I am sure not only students from CGU but students from neighbouring colleges and schools will take its fullest advantage to build their creativity into reality.

I wish AICTE- Idea Lab will help us to bring many more glory by nurturing new ideas & helping students in innovation and start-up.

I wish AICTE- Idea Lab to be a great success at CGU.

Thank You

Mr. Sanjib Kumar Rout
Founder President
C. V. Raman Global University, Odisha

MESSAGE FROM COORDINATOR



I am delighted to learn that the CGU Idea-Lab is going to release the Newsletter of September 2022. The main goal of the CGU Idea-Lab is to impart skills development among young minds and support potential ideas with good technological merit. Students are engaged in activities, events and projects according to their interests. The Prime Minister's vision of new age learning-by 5E's such as Engage, Explore, Experience, Express and Excel is going to be accomplished through it. Idea **Innovation Design & Empowerment Applications** Lab would surely serve as an infrastructure for learners to take up and promote under graduates in a more imaginative and creative way. In addition, they will get essential hands-on training skills like critical thinking, problem-solving, research, collaboration, communication, lifelong learning etc. essential for the modern industry environment.

Thank you

Prof. Debarpita Ghosal
AICTE IDEA LAB, CGU

C. V. Raman Global University, Odisha, India

MESSAGE FROM EDITORS



It gives us immense pleasure to release the first edition of AICTE IDEA LAB newsletter and share the past and upcoming events happening at IDEA Lab CGU.

We truly believe that skills development is attainable among students by practical experience through various planned activities. IDEA Lab is a constant endeavour to aid in the growth of students in a scientific way and make them industry ready. CGU IDEA lab has several units that deal with hard and soft skills which focus on an all-round development of both the students and faculty. IDEA Lab quintessence on elucidating new ideas, creativity, innovation and practical based learning for learners and adopt various programs such as skills development workshops, awareness programmes, seminars, training sessions for learners under this emerging lab. Additionally, it is established as a major facility for the benefits of students and faculty members of all nearby institutions to become proactive for meeting the 21st century challenges and diversity. Simultaneously, the Industry personals can also utilize these facilities for their new product development and testing.

Thank you

Prof. Madhusudan Maiti
Editor, AICTE IDEA LAB, CGU
Department of ECE

&

Prof. Minushree Pattnaik
Co-Editor, Newsletter
Department of HSS
CGU

C. V. Raman Global University, Odisha, India

About AICTE IDEA LAB

C. V. Raman Global University, Odisha has been selected among 49 institutes across India by AICTE to establish IDEA LAB. The main intention of establishing IDEA Lab in CGU is to promote students to “engage, explore, experience, express and excel” as anticipated by the Hon’ble Prime Minister in the wake of the release of National Educational Policy 2020. It motivates students for application of Science, Technology, Engineering and Mathematics (STEM) central to enhance learning by doing and even product visualization. Its motto is to avail creative mind students 24x7 facility inside the campus, so that they can visualize and accomplish through experiential learning. And also, train them to adopt different skills like design thinking, collaboration, communication, lifelong learning, problem solving and critical thinking.



C. V. Raman Global University, Odisha, India

Working Committee List

Sl. No.	Name of the members	Designation	Department
1	Prof. B. S. Satyanarayana	Vice-Chancellor	CGU
2	Prof. Priyadarshi Kanungo	Dean-Faculty of Engineering	CGU
3	Dr Bhagabati Prasad Pattanayak	CEO-AIC	CGU
4	Dr Debarpita Ghosal	Assistant Professor	Department of Chemical Engineering
5	Dr Hillol Joardar	Associate Professor	Department of Mechanical Engineering
6	Dr Bijaya K Khamari	Assistant Professor	Department of Mechanical Engineering
7	Dr Bikash Chandra Behera	Assistant Professor	Department of Mechanical Engineering
8	Dr Zefree Lazarus Mayuri	Assistant Professor	Department of Electrical and Electronics Engineering
9	Mr Manish Kumar Sharma	Assistant Professor	Department of Electrical Engineering
10	Dr Madhusudan Maity	Assistant Professor	Department of Electronics and Communication Engineering
11	Dr Susovan Basak	Assistant Professor	Department of Mechanical Engineering
12	Mr Manas Ranjan Mishra	Assistant Professor	Department of Computer Science and Engineering
13	Dr Tushar Kanti Samal	Assistant Professor	Department of Computer Science and Engineering
14	Mr Nabdeep Patra	Assistant Professor	Department of Electrical Engineering
15	Mr Rajat Samantray	Assistant Professor	Department of Electrical Engineering
16	Mr Sanjaya Mohanta	Technical Trainer	Robotics (CoE)
17	Mr Srinibash Padhi	Technical Trainer	PCB CoE
18	Bhunja Sankar Durga	Technical Trainer	Welding CoE
19	Sanjay Kumar Sahoo	Technical Trainer	TRTC (CoE)
20	Dr Krishnapada Barui	Assistant Professor	Department of Civil Engineering

EQUIPMENT LIST & EQUIPMENT GALLERY

EQUIPMENT PURCHASED LIST

Sl. No	Name of the Equipment/tool	Quantity
1.	3D scanner-GOM Scan 1	1
2.	Rotary table- Manual	1
3.	EinScan Handheld 3D Scanner	1
4.	Ein Scan Rotary Table+ Tripod Stand	1
5.	Geomagic Design X- Software	1
6.	F170 Printer System	1
7.	Nylon Mallet	5
8.	Hacksaw	2
9.	Impact drill	2
10.	Mini hacksaw	2
11.	Rubber mallet	3
12.	Screw driver	2
13.	Ratchet Set	2
14.	Soldering Iron station	1
15.	Allen key set	2
16.	Measurement Tape	1
17.	Double open ended spanner	1
18.	LED torch flashlight	2
19.	Spirit Level	5
20.	Steel rule	3
21.	Tin cutter with spring	10
22.	Try square (6")	2
23.	Try square (8")	2
24.	Wood chisels	1
25.	Glue gun	5
26.	Dell mobile precision workstation 3571	1
27.	Agitation Tank	1
28.	CNC Router	1



WORKSHOP ON IoT AND ITS APPLICATIONS

CGU AICTE IDEA LAB organised a two-day workshop on IoT and its application on 9th and 10th September 2022. In this workshop they explained the Internet of Things (IoT), the network of physical objects- 'things'- that are embedded with sensors, software and other technologies for the purpose of connecting and exchanging data on other devices and systems over the internet. The devices range from ordinary household objects (mobile phones, washing machines, Bluetooth devices, computers, laptops, etc.) to sophisticated industrial tools (robotics, Self-driven cars, IoT retail shops, farming, smart grids, medical devices, software-defined production processes, etc.). This workshop provided an opportunity to discuss and address the experimental and theoretical works, and methods to solve problems. It also discussed various ways to apply IoT tools and techniques to solve real-world problems. Experts also discussed real-time IoT dashboards and alerts, learners gain visibility into key performance indicators, statistics for mean time between failures and other information. Resource persons were Mr Harish Mohanty, Embedded Engineer–II, and Mr Soumya Ranjan Sahoo, Embedded Engineer–II, M/s Asiczen Technologies India Private Ltd, Bhubaneswar.

Theoretical Session



Practical Session



C. V. Raman Global University, Odisha, India

Experiential Learning and Innovation Capability through using IDEA Lab CGU

AICTE IDEA Lab CGU organized an interaction session on the topic **Experiential Learning and Innovation Capability** using IDEA Lab on 15th September 2022. The keynote speakers were Prof. Sunil Kumar Sarangi, former Professor IITKGP and former director NIRRKL, Professor Ganapati Panda, former deputy director IIT Bhubaneswar. The main speaker is Prof. B.S. Satyanarayana, Vice-Chancellor, C.V. Raman Global University and Chief Mentor, IDEA Lab. In the interaction session they expressed their views on “how experiential learning can drive innovation” and also about “the principles and stages of idea generation”. Their speeches were motivating for students and the faculty community, to observe real-time problems and come up with new ideas to mitigate those challenges.



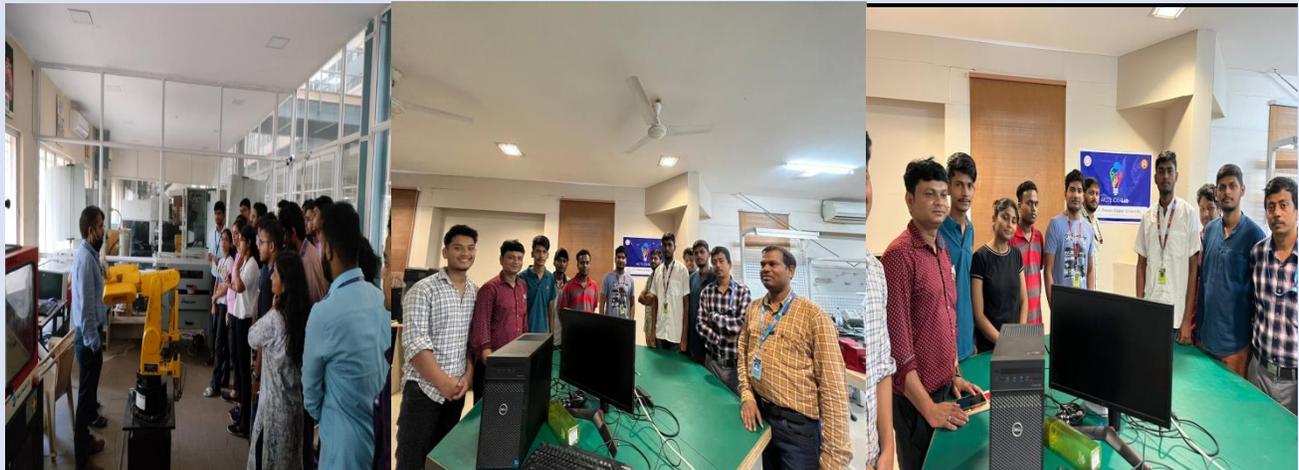
Prof. Sunil Kumar Sarangi addressing the gathering.



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STUDENT'S AWARENESS VISIT TO AICTE IDEA

An awareness program on AICTE IDEA (Idea, Development, Evaluation and Application) Lab was organized by AICTE IDEA Lab CGU team on 19th to 21st September 2022 from 4.30 to 5.30 pm. Students from all branch of 2nd year B.Tech, C. V. Raman Global University took part in it. In this program, AICTE IDEA Lab members Dr. Hillol Joardar, Dr. Debarpita Ghosal, Dr. Madhusudan Maiti, Dr. Krishnapada Barui, Mr. Sanjay Mohanta and Mr. Nabdeep Patra of CGU explained the vision, mission, objectives, facilities and the role of the students by means of IDEA lab. Team members also explained about the process of establishment of the IDEA lab and the expected outcomes of the Lab. They motivated the students to think for new ideas, product development and entrepreneurship related activities.



We need a spirit of victory, a spirit that will carry us to our rightful place under the sun, a spirit which will recognize that we, as inheritors of a proud civilisation, are entitled to a rightful place on this planet. --- *C. V. Raman*



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