CHRIST
COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA

P.O. Irinjalakuda North, 680125

Office : 0480 2825258

Email : office@christcollegeijk.edu.in

http://christcollegeijk.edu.in

CRITERION	II	Teaching-Learning and Evaluation
KEY INDICATOR	2.3	**Teaching - Learning Process**
METRIC	2.3.1	**Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:**

DEPARTMENT OF COMPUTER SCIENCE

(ACADEMIC YEAR 2022-2023)

Introduction:

Student Centric Methods, includes experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences. Department of Computer Science strives to integrate experiential, participatory, and problem-solving methodologies by devising innovative teaching-learning methodologies that bring a profound learning experience for the divergent students in the DIGITAL ERA. Engaging the learner throughout the lecture session has been the best and acceptable methods of the teaching learning process. The traditional method of teaching inside the classroom engaged the students throughout the lecture session but the learner involvement could not be achieved and the evaluation process is not in an outcome-based method. The traditional way of lecture delivery is teacher-centric, not student-centred. We followed experiential learning, participatory learning, and problem-solving methodologies for enhancing learners learning experience.

Various Participatory, Problem Solving and Experiential learning activities followed in the department are:

Participative Learning	Problem Solving	Experiential Learning

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KEY INDICATOR	2.3	**Teaching - Learning Process**
METRIC	2.3.1	**Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:**

• Talk with an Industrial Expert • Student Induction Programme • Introduction to various AI Tools • Industrial Visit • Literature Survey paper presentation • Various Seminars • Various IT based Quizes • Group Learning Activities • Games • Web Designing	• Projects •	• Coding and Debugging • IT Quiz • Internships • IT Exhibita

EXPERIENTIAL LEARNING

Experiential Learning – 1

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Programme Name: Project Presentation

Programme Objective:

- To present their experiments and research
- To endow opportunities to exchange new ideas and applications in the field of computing.
- To address the real-world challenges and opportunities faced.

Programme Report: Final year Msc.CS students presented their projects in Two-Day International Conference on "DEEP DIVE INTO DATA SCIENCE" organized by the Department of Computer Science, Vimala College (Autonomous), Thrissur on 23, 24 February 2023.

Programme Outcomes:

- To create original research projects
- Enriched them various aspects like aptitude for research, new way of thinking, communicating ideas and appropriate interaction with people from various backgrounds.

Students' List:

NAME OF THE STUDENTS	REGISTER NO
ADEEB P H	CCAVMCS001
AGHILESH N S	CCAVMCS002
AKHILA ANTONY	CCAVMCS003
ANN MARY	CCAVMCS004
ASWATHY K J	CCAVMCS005

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DONAMOL	CCAVMCS006
JISMARIA PAUL	CCAVMCS007
JUSTIN BABU	CCAVMCS008
RAISY P A	CCAVMCS009
ROSMI.T. B	CCAVMCS010
SREYA HARIDAS	CCAVMCS011

Certificates:

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

NAAC Re-accredited (3rd cycle): A Grade, CGPA-3.50 on a 4-point scale
Thrissur-09, Kerala, India

CERTIFICATE

This is to certify that **Ms. Ann Mary** of **Christ College(autonomous),Irinjalakuda** presented a research paper titled, **Thai wh-question classification and generation with deep learning for Part-of-Speech tagging enhancement to natural language processing** at the Two-Day International Conference on "DEEP DIVE INTO DATA SCIENCE" organized by the Department of Computer Science, Vimala College (Autonomous), Thrissur on 23, 24 February 2023 .

Ms. Shelja Jose M
Co-ordinator

Ms. Sareena Rose
HoD

Dr. Sr. Beena Jose
Principal

TWO-DAY INTERNATIONAL CONFERENCE ON DEEP DIVE INTO DATA SCIENCE

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

NAAC Re-accredited (3rd cycle): A Grade, CGPA-3.50 on a 4-point scale
Thrissur-09, Kerala, India

CERTIFICATE

This is to certify that **Ms.ASWATHY K J** of **Christ College (Autonomous),Irinjalakuda** presented a research paper titled, **A Smart Medicine Dispenser monitoring system for aged and blind citizens with voice recognition** at the Two-Day International Conference on "DEEP DIVE INTO DATA SCIENCE" organized by the Department of Computer Science, Vimala College (Autonomous), Thrissur on 23, 24 February 2023 .

Ms. Shelja Jose M
Co-ordinator

Ms. Sareena Rose
HoD

Dr. Sr. Beena Jose
Principal

TWO-DAY INTERNATIONAL CONFERENCE ON DEEP DIVE INTO DATA SCIENCE

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

NAAC Re-accredited (3rd cycle): A Grade, CGPA-3.50 on a 4-point scale
Thrissur-09, Kerala, India

CERTIFICATE

This is to certify that **Mr. AGHILESH N S** of **Christ College (Autonomous), Irinjalakuda, Thrissur** presented a research paper titled, **A COMBINED IMAGE STEGANOGRAPHIC AND CRYPTOGRAPHIC APPROACH FOR ENHANCING DATA SECURITY BY TRANSLATING DATA INTO AMINO ACID SEQUENCES** at the Two-Day International Conference on "DEEP DIVE INTO DATA SCIENCE" organized by the Department of Computer Science, Vimala College (Autonomous), Thrissur on 23, 24 February 2023 .

Ms. Shelja Jose M
Co-ordinator

Ms. Sareena Rose
HoD

Dr. Sr. Beena Jose
Principal

TWO-DAY INTERNATIONAL CONFERENCE ON DEEP DIVE INTO DATA SCIENCE

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Experiential Learning – 2

Programme Name: Coding & Debugging Competition: Clash of Geeks

Programme Objective:

- To Develop and deploy an application.
- To enhance participants' coding skills, problem-solving abilities, and debugging techniques.
- To provide a hands-on experience.

Programme Report: Department of Computer science organized Clash of Geeks (coding & Debugging event) hosted by Zephyrus 4.0-Tech Fest on December 14, 2022. As part of that our second and final year students developed a platform for this competition.

Programme Outcomes:

- Learn to love their field of study
- Ability to utilize the information to a noble cause
- Thinking, reasoning, decision making, role play capabilities

Brochure:

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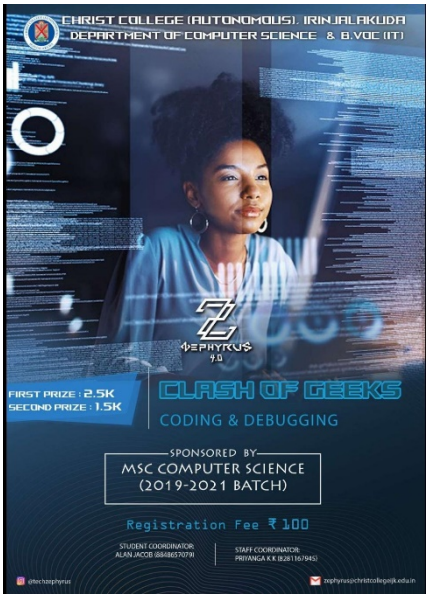

Geotagged Photos:

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Experiential Learning – 3

Programme Name: IT Quiz Competition: Blitz

Programme Objective:

- To enhance their skills.
- To select and evaluates various talents
- Selection of techniques and methodologies to foster competition

Programme Report: Department of Computer science organized BLITZ (IT Quiz) hosted by Zephyrus 4.0-Tech Fest on December 14, 2022. As part of that our second and final year students conducted the event.

Programme Outcomes:

- Learn to love their field of study
- To handle persons from different levels
- Thinking, reasoning, decision making, roleplay capabilities
- Actively participate in community life

Brochure:

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KEY INDICATOR	2.3	**Teaching - Learning Process**
METRIC	2.3.1	**Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:**

Geotagged Photos:

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CRITERION	II	Teaching-Learning and Evaluation
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METRIC	2.3.1	**Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:**

Experiential Learning – 4

Programme Name: IT Exhibition: It Exhibitia

Programme Objective:

- To develop and share knowledge.
- To identify various talents
- Selection and application of latest trend, techniques and methodologies

Programme Report: IT EXHIBITA is a state level 2-day exhibition conducted by Zephyrus 4.0 on December 12 & 13, 2022. Topics of the exhibition include following domains like Artificial Intelligence, Machine Learning, Deep Learning, Internet of Things, Augmented Reality, Virtual Reality, Computer Vision / Natural Language Processing, Cloud Computing, Cybersecurity, Robotics, Big Data, Bioinformatics / Medical Technology & Quantum Computing. Almost 18 teams from various colleges participated in the exhibition. During the exhibition our students formed into groups and showcased their findings.

Programme Outcomes:

- Learn to love their field of study
- To find solutions to ethical problems
- Thinking, reasoning, decision making capabilities
- Actively participate in solving environmental issues and inter disciplinary issues
- How to handle and communicate with people of different levels

Brochure:

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METRIC	2.3.1	Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Geotagged Photos:

Experiential Learning – 5

Programme Name: Internships

Programme Objective:

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METRIC	2.3.1	**Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:**

- Practical Application of Knowledge
- Skill Development
- Industry Exposure
- Professional Development
- Exploration of Career Paths
- Project Experience
- Understanding Organizational Culture

Programme Report: As a part of curriculum BSc Computer Science and BCA students have to complete their internships. It helps them learn the ways to understand and perform the desired duties and responsibilities in a particular role effectively. An internship is an amalgamation of theory and practice. Student interns equip themselves with practical skills in office settings. Internships also offer the benefit of creating professional recommendations, practical experience for your resume, and building networking opportunities. Computer Science internship is an educational strategy that integrates classroom studies with work-based learning that is related to the student's academic curriculum and career goals.

Programme Outcomes:

- Enhance the ability of analysing and solving problems
- Explore the latest trends and opportunities of IT industry
- Provide practical experience how to communicate effectively and build leadership qualities in the professional field.

Students' List

- **B.Sc Computer Science (2021-24 Batch)**

Roll No	Name Of Student	Internship Topic
700	Abhai KS	Data Science -ML-AI & Tableau

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701	Adarsh ps	Data Science-ML-AI & Tableau
702	Alrich Babu	Data Science-ML-AI & Tableau
703	Amal krishna A	Data Science -ML-AI & Tableau
704	Amal Joe	Data Science-ML-AI & Tableau
705	Anannya NV	Data Science
706	Anirudh Pradeep	Machine Learning & AI
707	Arun K J	Data Science -ML-AI &Tableau
708	Aryan M Anand	Data Science -ML-AI &Tableau
709	Athul TS	Data Science-ML-AI & Tableau
710	Chris Benny Kuniyanthodath	Data Science -ML-AI &Tableau
711	Clinet Rovea Ross	Data Science-ML-AI & Tableau
713	Darine Jacob	Data Science -ML-AI &Tableau
714	Devika Shaji	Data Science -ML-AI &Tableau
715	Ebin Joshy	Data Science-ML-AI & Tableau
716	GOPIKA M S	Data Science -ML-AI & Tableau
717	Jasni kr	Data Science -ML-AI & Tableau
718	Jeevan Dominic	Machine Learning & AI
719	Krishnasuryamsh TS	Data Science-ML-AI & Tableau
720	Krishnapriya T.P	Data Science-ML-AI & Tableau
721	Lakshmi P k	Data Science -ML-AI & Tableau
722	Manuel Devassy	Data Science -ML-AI &Tableau
723	Meldez Thomas Mathew	Machine Language & AI
724	Mohamed Faiz	Data Science -ML-AI &Tableau
725	Mohammed Faris	Data Science
726	Navaneeth Krishna	Data Science-ML-AI & Tableau
727	Pallikunnan Jerry Shaun	Data Science -ML-AI & Tableau
728	Parvathy Kuruppath	Data Science -ML-AI & Tableau
729	Pathiaparambil Jenson Jose	Data Science -ML-AI & Tableau
730	RAHNA P A	Data Science & ML

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731	Riswana P S	Data Science -ML-AI & Tableau
732	Savio	Data Science -ML-AI & Tableau
733	Seslin	Data Science & ML
734	Shanik y s	Data Science -ML-AI & Tableau
735	SImon B Chetupuzha	Data Science -ML-AI & Tableau
736	Sivaprasad	Data Science -ML-AI & Tableau
737	Sonal	Data Science -ML-AI & Tableau
738	Sowmya Hariharan	Data Science-ML-AI & Tableau
739	Steve Wilson	Data Science-ML-AI & Tableau
740	Vivin Roy	Data Science -ML-AI & Tableau

- **BCA (2021-24 Batch)**

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ROLL NO	NAME	INTERNSHIP TOPIC
741	Abhay S Nair	Cyber Security
742	Abhishek R Nair	Cyber Security
743	Adhithyan TJ	Cyber Security
744	adithyan kp	cyber security
745	Adithyan v.s	Cloud computing
746	Agnal Biju	Cyber Security
747	Ahalya M	Cyber Security
748	Akhilash Muraleedharan	Flutter
749	Aljo poulose	Cyber Security
750	Aman Anifer	Cyber Security
751	Amin Mohammed O K	Cyber Security
752	Aswin kuruvath jayan	Cyber security
753	Blessen George	
754	**Devana pramod**	Flutter
755	Don Davis	Cyber Security
756	Elvis Edison	Cloud Computing
757	**Febin Tom**	cyber security
758	**Febin Vincent**	cyber security
759	**Hana Nasreen**	Flutter
761	**Hashim P**	**Cyber Security**
762	**Hibin Dixon**	**Cyber Security**
763	**Jisna Johny**	**Cloud Computing**
764	**Jose Mon James**	**Cloud computing**
765	**joshua jose**	**cyber security**
766	**kevin ks**	**cyber security**
767	**Krishnapriya K**	**Cloud Computing**
768	**Leyon T John**	**cyber security**
769	**Liya Johnson**	**flutter**

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770	Maria Joseph	cyber security
771	Maria Merryl	cloud computing
772	Megna Biju	Flutter
773	Milan Mathachan	Cyber Security
774	Mithra prothasis	Cloud computing
775	Nandana Jinesh	Cyber Security
776	Naveed Nihan	Flutter
777	Nikhil Anto C	Cyber Security
778	Nimal k n	Flutter
779	P N Murali Sankar	Flutter
780	Revathi Rajesh	Flutter
781	Richard George	Cybersecurity and ethical hacking
782	Roxon Paul Vargheese	Flutter
783	Savitha Sebastian	Cybersecurity and ethical hacking

784	Shamnas A P	Cybersecurity and ethical hacking
785	Sreejishna k	cloud computing
786	Stuart Rolines	Cyber Security
787	Vedhavyas Asokan	Cloud Computing

784	Shamnas A P	Cybersecurity and ethical hackin
785	Sreejishna k	cloud computing
786	Stuart Rolines	Cyber Security
787	Vedhavyas Asokan	Cloud Computing

Certificate Link

B.Sc. CS

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https://drive.google.com/drive/folders/1xO8ebKhM7A4355baA6BLUG7gN4-LSV7n?usp=sharing

BCA

https://drive.google.com/drive/folders/1l46zfVg2M7MHNuXzCiLd2P_9b-5PvuOL?usp=sharing

Photos

Certificates

spectrum
softtech solutions pvt. ltd.

Spec/STC-HR/2136/07/23

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. ABHAY S NAIR student of CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA did his one week offline and one week online CYBER SECURITY INTERNSHIP at Spectrum Softtech Solutions (P) Ltd., from 15th May 2023 to 27th May 2023 as a part of his BCA Academic Curriculum Industrial Internship.

During this period, we found his conduct and character to be good.

We wish him success in all his future endeavors.

Manoj Padmanabhan
Chief Executive Officer

Kochi – 11
July 28, 2023

Mahakavi G Road, Kochi - 682011 • Phone : 91 484 4082000 • Fax : 91 484 4082408
e-mail : spectrum@spectrum.net.in • www.spectrum.net.in

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TECHBYHEART

Ref: TBH/INT/CEH/2023-2024/113/10 Date: 31/05/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Adhithyan T J** a student of Christ College (Autonomous), Irinjalakuda has successfully completed an internship program on Cyber Security and Ethical Hacking from 15th May 2023 to 31st May 2023 at Techbyheart.

We found him extremely inquisitive and hardworking. He was very much interested in learning the functions of our core division and also willing to put his best efforts and get into the depth of the subjects to understand it better.

We wish him every success in life.

For Techbyheart!

682 020 TECHBYHEART KOCHI - 29

Human Resource

info@techbyheart.in www.techbyheart.in

LUMINAR TECHNOLAB

LUMINAR TECHNOLAB PRIVATE LIMITED
16/3262, Vallamattam Estate, Seaport - Airport Road
CSEZ P.O., Kakkanad, Cochin - 682037 Kerala
Ph: + 91 484 4058 886 / 8086651651/9916534343

CERTIFICATE OF INTERNSHIP

This is to certify that the student **SHANIK YS** department of **Computer Science** from **Christ College (Autonomous),** Christ Nagar, Irinjalakuda, Thrissur 680125 have successfully completed 15 Days Internship in **PYTHON DATA SCIENCE - ML - AI - & TABLEAU on** this day of 01 June 2023 at Luminar Technolab, Cochin.

DATE: 01-06-2023
PLACE: COCHIN

Thanks & Regards
Luminar Technolab

Rahul M Kumar
Centre Head

Email : contact@luminartechnolab.com Web : www.luminartechnolab.com

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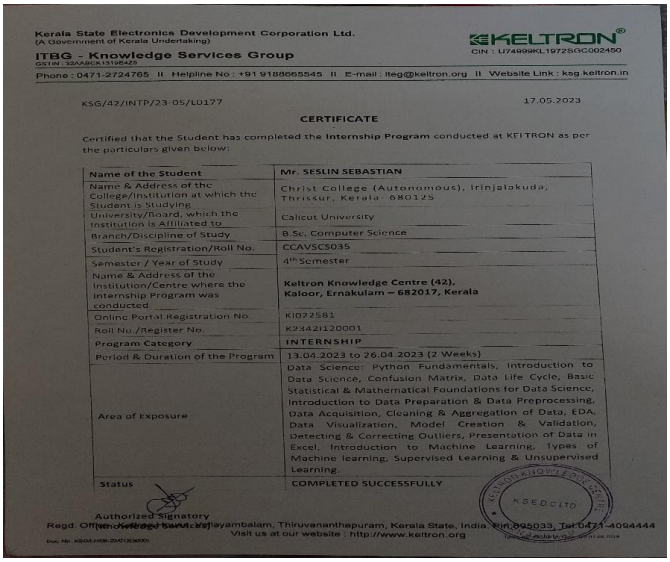

Kerala State Electronics Development Corporation Ltd.
(A Government of Kerala Undertaking)
ITBG - Knowledge Services Group
KELTRON
CIN : U74999KL1972SGC002450
Phone : 0471-2724765 II Helpline No : +91 9188665545 II E-mail : iteg@keltron.org II Website Link : ksg.keltron.in

KSG/42/INTP/23-05/L0177 17.05.2023

CERTIFICATE

Certified that the Student has completed the Internship Program conducted at KELTRON as per the particulars given below:

Name of the Student	Mr. SESLIN SEBASTIAN
Name & Address of the College/Institution at which the Student is Studying	Christ College (Autonomous), Irinjalakuda, Thrissur, Kerala- 680125
University/Board, which the Institution is Affiliated to	Calicut University
Branch/Discipline of Study	B.Sc. Computer Science
Student's Registration/Roll No.	CCAVSCS035
Semester / Year of Study	4th Semester
Name & Address of the Institution/Centre where the Internship Program was conducted	Keltron Knowledge Centre (42), Kaloor, Ernakulam – 682017, Kerala
Online Portal Registration No.	KI022581
Roll No./Register No.	K23421120001
Program Category	INTERNSHIP
Period & Duration of the Program	13.04.2023 to 26.04.2023 (2 Weeks)
Area of Exposure	Data Science: Python Fundamentals, Introduction to Data Science, Confusion Matrix, Data Life Cycle, Basic Statistical & Mathematical Foundations for Data Science, Introduction to Data Preparation & Data Preprocessing, Data Acquisition, Cleaning & Aggregation of Data, EDA, Data Visualization, Model Creation & Validation, Detecting & Correcting Outliers, Presentation of Data in Excel, Introduction to Machine Learning, Types of Machine learning, Supervised Learning & Unsupervised Learning.
Status	COMPLETED SUCCESSFULLY

Authorized Signatory

Regd. Office: Keltron Bhavan, Vellayambalam, Thiruvananthapuram, Kerala State, India, Pin 695033, Tel 0471-4094444
Visit us at our website : http://www.keltron.org

PARTICIPATIVE LEARNING

Participative Learning – 1

Programme Name: Talk with an Industrial Expert

Programme Objectives:

- Seek guidance and advice on specific challenges or issues your organization is facing
- Gain insights into the latest trends, technologies, and best practices within the industry.
- Helps them to stay updated and informed about advancements and changes.
- The industrial expert's experience and expertise can provide valuable perspectives and potential solutions.

Programme Report: Department of Computer Science conducted a Talk with an industrial expert Mr. Jomon Joseph, CEO, The Strategist to know the area of interest in industry to the second semester M.Sc. Computer Science students 2021 Admission on 13/06/2022 in their class room

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Programme Outcome:

- Students can assess themselves and explore their career path.
- Students can access the independent and individual way of thinking and communicating ideas in an industry-based platform
- Got an awareness of environmental issues for behaving an industry and the necessity of solving the same issues
- The ability to access and utilize knowledge and information for personal as well as general.

Brochure:

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Geotagged photos:

Participative Learning – 2

Programme Name: Workability and Industrial Training Program

Programme Objectives:

- Enhancing the practical skills and competencies of participants in a real work environment.
- Providing participants with exposure to real-world work environments, practices, and challenges within their chosen industry or field
- Assisting participants in translating academic knowledge into practical application and preparing them for future careers by giving them hands-on experience and insights into the professional world.

Programme Report: Department of Computer Science and Department of Commerce jointly organized a seminar on the topic "Workability and Industrial Training program" in association

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CRITERION	II	Teaching-Learning and Evaluation
KEY INDICATOR	2.3	**Teaching - Learning Process**
METRIC	2.3.1	**Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:**

with Edwin Academy, MIZONE for III-year students on 14th June 2022 from 11.00am to 12.00pm at Chavara Seminar Hall, Christ College (Autonomous), Irinjalakuda.

Programme Outcome:

- Ethical values play a crucial role in shaping your behavior, decisions, and interactions within the academic community and beyond.
- Mobilize your peers to take action, raise funds, or support policy changes on issues such as education, healthcare, poverty, or human rights.

Brochure:

Geotagged photos:

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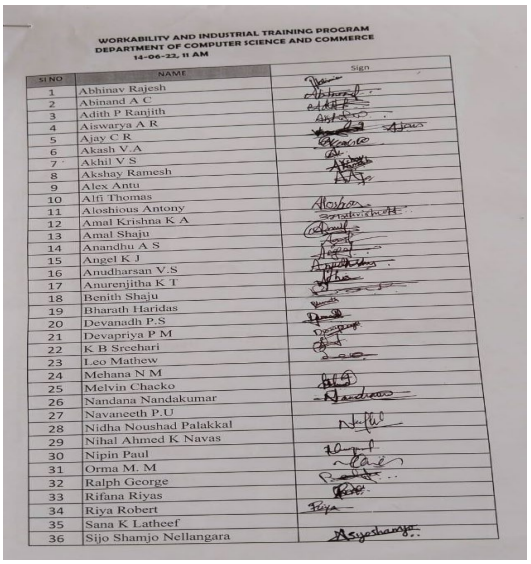
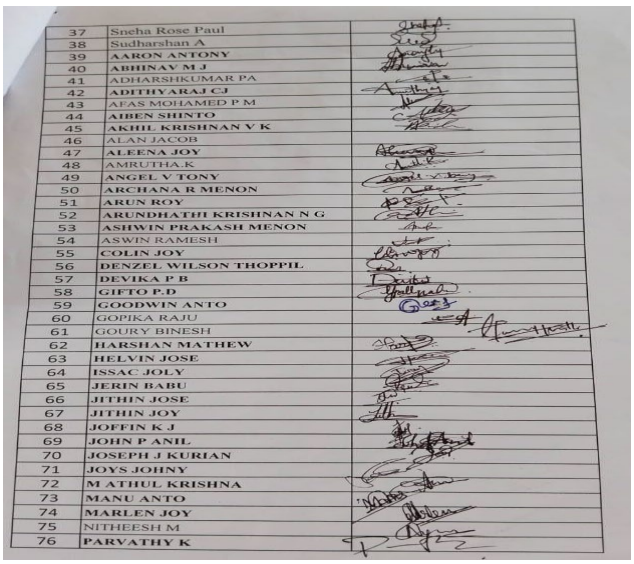
Session on workability

Attendance:



WORKABILITY AND INDUSTRIAL TRAINING PROGRAM
DEPARTMENT OF COMPUTER SCIENCE AND COMMERCE
14-06-22, 11 AM

SI NO	NAME	Sign
1	Abhinav Rajesh	
2	Abinand A C	
3	Adith P Ranjith	
4	Aiswarya A R	
5	Ajay C R	
6	Akash V.A	
7	Akhil V S	
8	Akshay Ramesh	
9	Alex Antu	
10	Alfi Thomas	
11	Aloshious Antony	
12	Amal Krishna K A	
13	Amal Shaju	
14	Anandhu A S	
15	Angel K J	
16	Anudharsan V.S	
17	Anurenjitha K T	
18	Benith Shaju	
19	Bharath Haridas	
20	Devanadh P.S	
21	Devapriya P M	
22	K B Sreehari	
23	Leo Mathew	
24	Mehana N M	
25	Melvin Chacko	
26	Nandana Nandakumar	
27	Navaneeth P.U	
28	Nidha Noushad Palakkal	
29	Nihal Ahmed K Navas	
30	Nipin Paul	
31	Orma M. M	
32	Ralph George	
33	Rifana Riyas	
34	Riya Robert	
35	Sana K Latheef	
36	Sijo Shamjo Nellangara	



37	Sneha Rose Paul	
38	Sudharshan A	
39	AARON ANTONY	
40	ABHINAV M J	
41	ADHARSHKUMAR PA	
42	ADITHYARAJ CJ	
43	AFAS MOHAMED P M	
44	AIBEN SHINTO	
45	AKHIL KRISHNAN V K	
46	ALAN JACOB	
47	ALEENA JOY	
48	AMRUTHA.K	
49	ANGEL V TONY	
50	ARCHANA R MENON	
51	ARUN ROY	
52	ARUNDHATHI KRISHNAN N G	
53	ASHWIN PRAKASH MENON	
54	ASWIN RAMESH	
55	COLIN JOY	
56	DENZEL WILSON THOPPIL	
57	DEVIKA P B	
58	GIFTO P.D	
59	GOODWIN ANTO	
60	GOPIKA RAJU	
61	GOURY BINESH	
62	HARSHAN MATHEW	
63	HELVIN JOSE	
64	ISSAC JOLY	
65	JERIN BABU	
66	JITHIN JOSE	
67	JITHIN JOY	
68	JOFFIN K J	
69	JOHN P ANIL	
70	JOSEPH J KURIAN	
71	JOYS JOHNY	
72	M ATHUL KRISHNA	
73	MANU ANTO	
74	MARLEN JOY	
75	NITHEESH M	
76	PARVATHY K	

Participative Learning – 3

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Programme Name: Cyber Security and Ethical Hacking

Programme Objectives:

- Ensure the confidentiality of sensitive information by implementing encryption, access controls, and other security measures to prevent unauthorized disclosure or exposure.
- Safeguard the integrity of data and systems by detecting and preventing unauthorized access.
- Promote cybersecurity awareness and provide training programs to educate employees, stakeholders, and end-users about cybersecurity best practices, threats, and risks, as well as their roles and responsibilities in safeguarding digital assets.

Programme Report: The Department of Computer Science organized a technical session on Cyber Security and Ethical Hacking on January 31, 2023, in association with Tech by Heart Academy, Kochi. The session was introduced by Mr. Sreenath Gopinath, Associate Member, National Cyber Security Standard, New Delhi, and Director and CSO, Tech by Heart India. The classes were led by Mr. Ressel, an Associate Member of the National Cyber Security Standard, New Delhi. cybersecurity and ethical hacking can be manifold, focusing on protecting digital assets, ensuring data confidentiality, integrity, and availability, as well as promoting responsible and legal cybersecurity practices.

Programme outcome:

- Aware of the social media platforms responsibly to promote positive messages, counter misinformation, and raise awareness about social issues.
- Get involved in security activities that promote social justice, and environmental sustainability.

Brochure:

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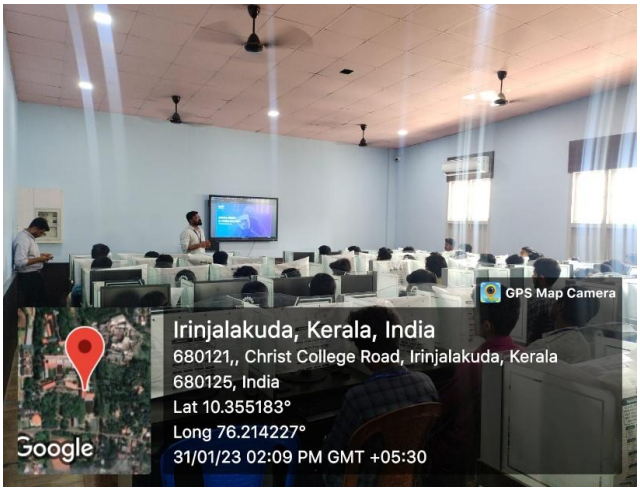
KEY INDICATOR	2.3	Teaching - Learning Process
METRIC	2.3.1	Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Geotagged Photos:



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Participative Learning – 4

Programme Name: Peer Code Review

Programme Objectives:

- Encourage students to work together in teams, fostering collaboration and cooperation among peers.
- Build students' teamwork abilities, including task delegation, time management, conflict resolution, and decision-making skills.
- Simulate real-world IT work environments where students can practice professional skills

Programme Report: The activity was to implement peer code review sessions where students review and provide feedback on each other's programming code. This encourages collaboration, code quality improvement, and knowledge sharing.

Programme outcome:

- Through constructive feedback and suggestions from peers, students can identify and fix errors, bugs, or inefficiencies in their code.
- Peer code review provides valuable learning opportunities for students.
- Reviewing code written by peers exposes students to different coding styles, techniques, and problem-solving approaches.

Geotagged Photos:

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Participative Learning – 5

Programme Name: Web Designing: Designx

Programme Objectives:

- Provide students with practical experience in designing and developing websites using various web technologies, programming languages, and design tools.
- Foster creativity and innovation by encouraging students to create visually appealing and user-friendly website designs
- Challenge students to solve technical and design problems encountered during the web design process

Programme Report: Designx event was organized on 14th DECEMBER 2022 by Department of Computer science and B.Voc IT. There were 15 participants. Web designing for IT students involves teaching the principles, techniques, and technologies necessary to create visually appealing, functional, and user-friendly websites.

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METRIC	2.3.1	**Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:**

Programme outcome:

- Encouraged students to unleash their creativity and explore innovative design solutions.
- Enhanced their skills in web development, graphic design, user interface (UI) design, and user experience (UX) design
- Students learned to analyze requirements, identify user needs, and find creative solutions to design problems, honing their problem-solving skills in the process.

Brochure:

Geotagged Photos:

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PROBLEM SOLVING METHOD

Problem Solving Method – 1

Programme Name: Mini Projects

Programme Objective:

- To develop and share knowledge.
- To identify various talents
- Selection and application of latest trend, techniques and methodologies

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Programme Report: First year and Second year BCA and B.Sc. CS students as part of inculcating practical knowledge of their discipline done various group projects using latest trends and technologies like python, IOT etc.

Programme Outcomes:

- Presentation Skills
- Problem Solving
- Enhanced Learning
- Skill Development
- Application of Knowledge
- Creativity and Innovation

Students' List with Project Details

SL. NO	PROJECT NAME	GROUP MEMBERS	DOCUMENTATION LINK
SECOND YEAR BCA			
1	KINDBLOOD	Aman Anifer Adhithyan K P Nikhil Anto	https://drive.google.com/drive/folders/1-NFI32QUiRxcMq0OnbVY5s_k0tDyyOpW
2	LUX METER	Adhithyan T.J Don Davis Mithra Prothasis Leyon T John	https://drive.google.com/drive/folders/1-THsZd5c1MXSHDAiwg-7Y0dTQkyLbEPc

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3	AIR QUALITY INDEX	Abhay S Nair Savitha Sebastian Nimal K N Agnal Biju	https://drive.google.com/drive/folders/1-UYyRxbaFaoUaFDVtKKIfGTyEpnaVchf
4	TO-DO APP	Hana Nasreen Megna Biju Devana Pramod Liya Johnson	https://drive.google.com/drive/folders/1-UdDwP8E1hgw_7zMsvV88mRcU5L3UMHp
5	SOCIETY MANAGEMENT SYSTEM	Revathi Rajesh Amin Mohammed O K Joshua Jose Akhilash Muralidharan	https://drive.google.com/drive/folders/1-W9ib1TH79qn3Q9MwOxgt_Mw4zRqivbY
6	GAME DEVELOPMENT	Richard George Shamnas A P Maria Merryl Maria Joseph	https://drive.google.com/drive/folders/1-XY6ldBNs_eLFwO6F95sNXFEtJJaf-EA
7	INSTAGRAM AUTOMATION TOOL	Aswin K J Blessen George Ahalya M Febin Vincent	https://drive.google.com/drive/folders/1-f7hHyJqhLpXyk6W7gg646hgwyCHm0vp
8	MEDICOM MEDICAL	Jisna Johny	https://drive.google.com/drive/folders/1-fqRByyH0k4vKA10Eu0_c8hcgBkMOmi2

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	SHOP MANAGEMENT SYSTEM	Josemon James Hashim P Hibin Dixon	
9	VOTING APP	Adithyan V.S Stuart Rolines P N Murali Shankar Vedhavyas Ashokan	https://drive.google.com/drive/folders/1-gSHTaS_tIOr19CKYyGZU46dwJOMgtDm
10	PRODUCT MANAGEMENT SYSTEM	Kevin K.S Abhishek R Nair Febin Tom Elvis M E	https://drive.google.com/drive/folders/1-1r9Rn42U3J1XPKpoDl8vTn3Ee99soG
11	FACE RECOGNITION BASED ATTENDANCE SYSTEM	Krishnapriya K Sreejishna K Aljo Paulose	https://drive.google.com/drive/folders/1-m2-XLd7zaKZpbIOeu1rjkvwOCkqk54n
12	HEY BABY APP	Nandana Jinesh Milan Mattachan Roxon Paul Varghese Naveed Nihan	https://drive.google.com/drive/folders/1-mUGai2JrqQGeScm-bqs7-OYvvq9YzRs
SECOND YEAR Bsc.CS			
1	HAND GESTURE	Pallikunnan Jerry Shaun	https://drive.google.com/drive/folders/10j9puZ7bowDNUXKwDWlrYAbvF2s c2m_1

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	RECOGNITION	Ebin Joshy Jasni KR Krishna Suryamsh TS	
2	REMEMBER ME	Clinet Rovea Ross Chris Benny Kunniyantho dath Jenson Jose Abhai KS	https://drivegoogle.com/drive/folders/10vJqCVKFe693pc2Gs-L5dcF6mnYZsh99
3	COLOR DETECTION	Parvathy Kuruppath Adarsh PS Devika Shaji Jeevan Domanic	https://drive.google.com/drive/folders/10xKhvWIKVvNUC5AHfRaByy2xw7hj M89h
4	EMOTION DETECTION	Sowmya Hariharan Aryan M Anand Mohammed Faiz Sonal Poulose	https://drive.google.com/drive/folders/111EyUYMkyNsmCxDK7qdLAw7fBeJ Oe1rK
5	PANIC CONTROL	Lakshmi PK Seslin Sebastain Athul TS Vivin Roy	https://drive.google.com/drive/folders/112O-Ell5mdda7NTlbSYrQIepZdbIdMxM
6	CALCULUS EQUATION	Riswana PS Meldez Thomas Mathew Alrich Babu Manuel Devassy	https://drive.google.com/drive/folders/113F-3LFURnFsZVCtl8Q1fmY6M4AtvZ9c

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7	STUDENT RESULT ANALYSIS	Arun KJ Anannya NV Amal Joe Savio Davis	https://drive.google.com/drive/folders/114eHBjKOG6jihzH8ApkWjuayp5HP 5Hil
8	CHRIST CHATBOT ENHANCEMENT	Steeve Wilson Darine Jacob Mohammed FarisKrishnapriya TP	https://drive.google.com/drive/folders/119vOkJCN26sVuCKyMOHNoVwa_B GC8r4d
9	DIET FINDER (HEALTH BOT)	Simon B Chettupuzha Amal Krishna A Rahna PA Navaneeth Krishna	https://drive.google.com/drive/folders/11GnqCj5Jwxbo5vfMs7ZWw6oWtnk wFyOM
10	MEDICAL CHATBOT	Anirudh Pradeep Sivaprasad MD Gopika MS Shanik YS Shanik YS	https://drive.google.com/drive/folders/11KR0m0vOPWgLfk6X62FFogubWBEBwKeo
FIRST YEAR B.Sc. CS			
1	GROUP 1	CHRIS JOYAL ALBIN ANDREWS ALBIN A.S KARTHIK E U	https://drive.google.com/drive/folders/14QRkX4Aw0JgarFOztzsDhLJoaAmV2X6q?usp=sharing

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		ALAN VINCENT CHRISTIN GEORGE LALSON ARJUN A S ISHA GOLA	
2	GROUP 2	KRISHNA PRIYA NANDAN EBIN LOUIS DRUPATH S PRASAD RITHIK SHAJI STEPHANIE SHOJI ALEN BABU T VISHAL WILSON	https://drive.google.com/drive/folders/14QRkX4Aw0JgarFOztzsDhLJoaAmV2X6q?usp=sharing
3	GROUP 3	AYSHA FITHA V R ANSTIN V.M SACHIN SURESH HARON SANTHOSH K S ANUGRAH NAVANEETH KRISHNA	https://drive.google.com/drive/folders/14QRkX4Aw0JgarFOztzsDhLJoaAmV2X6q?usp=sharing

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		MOHAMMAD ROWMIN VN RISHIKESH A	
4	GROUP 4	SANIYA M S SHRAVAN S H V S HIBA ALEX THOMAS DIYA MARIYAM ANFAS ASIZ WILLIAM FREDDY RACHEL A N	https://drive.google.com/drive/folders/14QRkX4Aw0JgarFOztzsDhLJoaAmV2X6q?usp=sharing
5	GROUP 5	SOURAV C S HRISHIKESH P S MOHAMMED AFNAN K A HARISWAR E ABHIMANYU MANOJ MOHAMED AYMEN HARIPRASAD P S	https://drive.google.com/drive/folders/14QRkX4Aw0JgarFOztzsDhLJoaAmV2X6q?usp=sharing
6	GROUP 6	EDWIN JOY	https://drive.google.com/drive/folders/14QRkX4Aw0JgarFOztzsDhLJoaAmV2X6q?usp=sharing

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		S M ARAVINDH MARAN KRISHNADHAT K J ABHAYKRISHNA K S JOHAN JOSEPH JOJO PRITHVIN P SREENIKETH P P ATHUL .V.UNNIKRISHNAN	
7	GROUP 7	SAI KRISHNA DINESAN GODSON JOSEPH SAHIL SONY AMEESHA FATHIMA C S ANSAL ANTONY SIDHARTH RAMESH AMAL RAPHEL VARGHESE	https://drive.google.com/drive/folders/14QRkX4Aw0JgarFOztzsDhLJoaAmV2X6q?usp=sharing

PHOTOS

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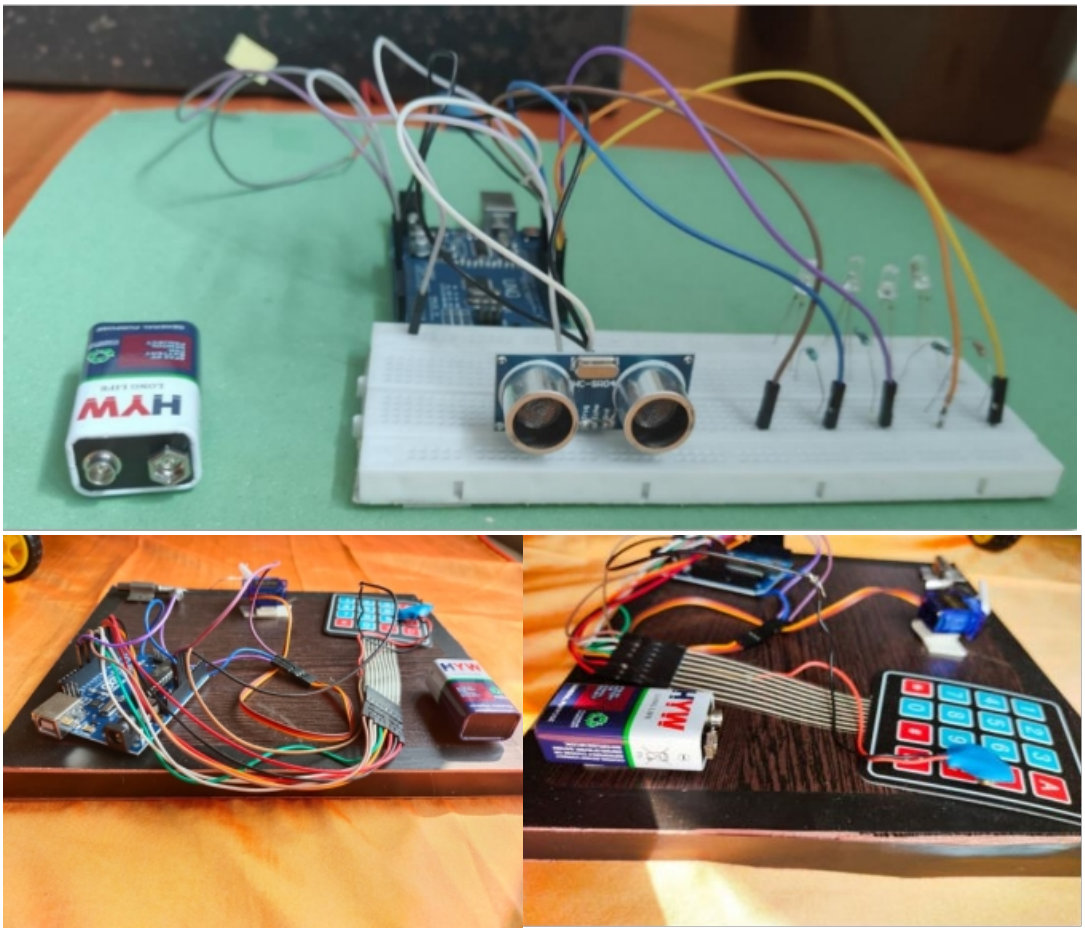

Problem Solving Method – 2

Programme Name: Major Projects

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Programme Objective:

- To develop and share knowledge.
- To identify various talents
- Selection and application of latest trend, techniques and methodologies

Programme Report: Final year BCA, B.Sc. CS and M.Sc. CS students as part of their curriculum done various group projects using latest trends and technologies like ML, DL, Image processing, Networking etc. They have also done the documentation of the project in LATEX which is entirely new writing and documentation style.

Programme Outcomes:

- Enhanced Learning
- Skill Development
- Application of Knowledge
- Creativity and Innovation
- Interdisciplinary Ideas
- Research Skills
- Presentation Skills
- Problem Solving

Students' List with Project Details

M.Sc. CS

SLNO	NAME	PROJECT TOPIC	LINK
1	Adeeb PH	FACE SKETCH IMAGE COMPARISON USING SIAMESE NETWORK	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGykfcK9SoLO?usp=sharing
2	Aghilesh NS	DNA CRYPTOGRAPHY	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGykfcK9SoLO?usp=sharing

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		WITH STEGANOGRAPHY	
3	Akhila Antony	IDENTIFY THE RICE PLANT LEAF DISEASES BASED ON THE CORE SYMPTOM USING DECISION TREE WITH GINI IMPURITY ALGORITHM	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGyykfcK9SoLO?usp=sharing
4	Ann Mary	THAI WH-QUESTION CLASSIFICATION AND GENERATION WITH DEEP LEARNING FOR PART-OF-SPEECH TAGGING ENHANCEMENT TO NATURAL LANGUAGE PROCESSING	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGyykfcK9SoLO?usp=sharing
5	Aswathy KJ	ARTIFICIAL INTELLIGENCE TECHNIQUES FOR CLASSIFICATION OF RETINAL TUMORS	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGyykfcK9SoLO?usp=sharing
6	Donamol	SENTIMENTAL ANALYSIS	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGyykfcK9SoLO?usp=sharing
7	Jismariya Paul	CARDMOM PLANT DISEASE DETECTION USING EFFICIENTNETV2	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGyykfcK9SoLO?usp=sharing

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8	Justin Babu	PIXEL COMBINATION WITH VISUAL CRYPTOGRAPHY	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGykfcK9SoLO?usp=sharing
9	Raisy PA	PHISHING WEBSITE DETECTION	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGykfcK9SoLO?usp=sharing
10	Rosmi TB	AN ACCURACY PREDICTION OF AIR QUAbLITY INDEX (AQI) BASED ON MULTIVARIATE TIME SERIES USING LSTM DEEP LEARNING MODEL	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGykfcK9SoLO?usp=sharing
11	Sreya Haridas	A DEEP GENERATIVE NEURAL NETWORK MODEL IN SPECTRAL IMAGE PROCESSING USING HYPERSPECTRAL SAMPLES	https://drive.google.com/drive/folders/1QCoTpgGVYD0qrubvy2BOGykfcK9SoLO?usp=sharing

B.Sc. CS

SL. NO	NAME	PROJECT TOPIC	LINK
1	Abhinav Aishwarya Rifana	College Navigation Management System	https://drive.google.com/drive/folders/1U5TSpWE6iM3FLSiOOcw5OUZP6h5oXkhk?usp=sharing

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CRITERION	II	Teaching-Learning and Evaluation
KEY INDICATOR	2.3	**Teaching - Learning Process**
METRIC	2.3.1	**Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:**

	Anandhu		
2	Abinandh	Exam Arrangement system	https://drive.google.com/drive/folders/1U5TSpWE6iM3FLSiOOcw5OUZP6h5oXkhk?usp=sharing
	Akshay Ramesh		
	Ralph		
	Sana		
3	Adith	Movie Casting	https://drive.google.com/drive/folders/1U5TSpWE6iM3FLSiOOcw5OUZP6h5oXkhk?usp=sharing
	Amal Krishna		
	Benith		
	Anudharshan		
4	Ajay	Anti- Theft system	https://drive.google.com/drive/folders/1U5TSpWE6iM3FLSiOOcw5OUZP6h5oXkhk?usp=sharing
	Melvin		
	Sudharshan		
5	Akash V.A	Tweet analyzer	https://drive.google.com/drive/folders/1U5TSpWE6iM3FLSiOOcw5OUZP6h5oXkhk?usp=sharing
	Mehana		
	Nihal		
	Bharath		
6	Akhil	Placement and Career development platform LMS	https://drive.google.com/drive/folders/1U5TSpWE6iM3FLSiOOcw5OUZP6h5oXkhk?usp=sharing
	Devanadh		
	Orma		
	Devapriya		
7	Alex		

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	Aloshious Nidha Riya	Fingerprint Voting system	https://drive.google.com/drive/folders/1U5TSpWE6iM3FLSiOOcw5OUZP6h5oXkhk?usp=sharing
8	Alfi Sreehari Anurenjitha	Data hiding using stegnography and cryptography techniques	https://drive.google.com/drive/folders/1U5TSpWE6iM3FLSiOOcw5OUZP6h5oXkhk?usp=sharing
9	Amal Shaju Navaneeth Angel Sijo	House Building stimulation app	https://drive.google.com/drive/folders/1U5TSpWE6iM3FLSiOOcw5OUZP6h5oXkhk?usp=sharing
10	Nipin Leo Sneha Nandana	rescue ring	https://drive.google.com/drive/folders/1U5TSpWE6iM3FLSiOOcw5OUZP6h5oXkhk?usp=sharing

BCA

SL. NO	NAME	PROJECT TOPIC	LINK
1	Denzel Devika Aiben Manu	Social Media App	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing
2	Rohan Colin	Sentimental Analysis	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing

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	Afas Ashwin R	using Deep Learning	
3	John Archana Adithya Gifto	IOT based blind stick to identify obstacles	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing
4	Harshan Nidheesh Marlen Pooja	proctored xam using IOT	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing
5	Atul Jerin Angel Jithin Jose	crowd funding using block chain	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing
6	Abhinav Adharsh Aaron Goury	Placement and Career development platform LMSApplication for autistic students	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing
7	Ashwin P Pranav Arun Surya	Summaryify	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing

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8	Helvin Joys Akhil Gopika	Fruit Quality detection system	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing
9	Alan Joseph Jithin Rimal	Zephyrus 4.0 website	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing
10	Goodwin Shaheera Shabas Parvathy	Customizing gesture technology for mobile devices.	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing
11	Sreedevi Arundhathi Joffin Issac	Parking lot occupancy	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing
12	Amrutha Aleena Sreenath	*personality prediction system through cv analysis	https://drive.google.com/drive/folders/1yvV43MaGIOVr2xG7bHNrpCeLnOhxp5dW?usp=sharing

Programme Outcomes:

- Ability solve and analyze problems

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METRIC	2.3.1	**Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:**

- Solutions to sustainable developmental issues
- Expressing and communicating ideas
- Through knowledge in an area of interest
- Learning the theory by doing
- Research orientation

Geotagged Photos: