

Academic Year 2021-22

Sl. No	Name of the MoU	Purpose of the MoU	Descriptions of activities conducted	Page No
1	K.J Research Foundation. K.J.Hospital Research & Post Graduate Center	Research, FDP, On Job / Placement Training program for faculties and students	On Job Training program on Empowering the future: skills and knowledge for the next generation	2-4
2	Mosook Training Academy & Consultants Pvt Ltd	Certificate course in IT in infrastructure management (placement training program)	1. Placement Training Program on Academic Foundations, Industry Futures 2. Student Internship	5-11
3	Seger Overseas Pvt.Ltd	Abroad studies, seminar, awareness program, On Job Training	Placement Training Program on Pathways to Professional Excellence	12-14
4	TeachSub Techno Solutions Pvt.Ltd (MyOSin)	On Job Training and Placement	Placement Training Program on Aptitude, Technical Skills, and Soft Skills	15-26
5	Institute of Industrial Design	On Job Training and Placement, Internship	Industry Placement Training Program on CAD & 3D Modelling	27-29
6	Construction Management Training Institute	On Job Training and Placement, workshop	Workshop on Green building and Sustainable Construction	30-34
7	Ifelse Techsmart Solutions Private Limited	Industry placement training program, guest lecture	1. Placement Training program on M.E.A.N (MongoDB, Express, Angularjs, Nodejs) 2. Student Internship	35-42
8	Felicet Infra Private Limited	Skill based training placement, IV, Expert lecture	1. Skill based Training program on Advanced in IoT 2. Student Internship	43-50
9	Infocare Engineering Services Private Limited	Skill based training placement, IV, Expert lecture	1. Placement Training program on current challenges and Advancements in IoT security 2. Student Internship	51-60
10	Sai Education and Job Consultancy Private Limited	Skill based training placement, IV, Expert lecture	Placement program on the topic Latest Job Opportunities Available in the IT Sector	61-64
11	Vanaaspire Private Limited	Skill based training placement, IV, Expert lecture	1. Skill based Training program on Robotics using Arduino 2. Student Internship	65-75



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ACTIVITIES UNDER MoU

ACADEMIC YEAR: 2021-2022

K.J Research Foundation. K.J. Hospital Research & Post Graduate Center

The Career planning and Development Cell organized a Training program on *“Empowering the future: skills and knowledge for the next generation”* on 28-03-2022 from 02.30 p.m to 03.50 p.m by Mr. SenthilKumar, Elbound Systems Private Limited. Inauguration by Prof. Dr.Sathish, Principal, Aalim Muhammed Salegh College of Engineering. A total of 110 students attended this program.

**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING**
Approved by AICTE and Affiliated to Anna University Chennai



TNEA Counselling CODE: 1101

CAREER PLANNING AND DEVELOPMENT CELL ORGANIZES

TRAINING PROGRAM

K.J RESEARCH FOUNDATION. K.J.HOSPITAL RESEARCH & POST GRADUATE CENTER

Empowering the future: skills and knowledge for the next generation

DATE: 28-03-2022
TIME: 2.30 P.M TO 3.50 P.M

RESOURCE PERSON
MR.SENTHIL KUMAR
ELBOUND SYSTEMS PRIVATE LTD

Prof.Dr.S.Sathish
Principal
CHENNAI 600 055

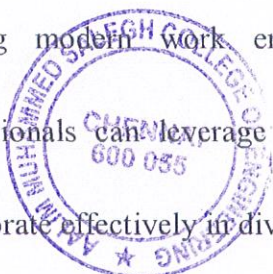
Alhaj S Segu Jamaludeen
Secretary & Correspondent
PRINCIPAL
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The training program **“Empowering the Future: Skills and Knowledge for the Next Generation”** aimed to equip participants with essential skills and insights required to navigate the evolving future workforce. Held over a single day, the session attracted educators, professionals, and students, and focused on the critical competencies needed to thrive in an increasingly digital and technology-driven world.

The event began with a keynote address on the future of work, highlighting the accelerating role of artificial intelligence (AI), automation, and digital transformation across industries. Industry experts emphasized that while technical skills such as data science, coding, and digital literacy are important, soft skills like communication, creativity, critical thinking, and emotional intelligence will remain essential in the workplace. The speakers highlighted how these skills complement technology and help individuals adapt to future challenges.

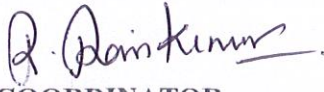
The session also featured interactive sessions where participants explored practical tools for digital collaboration and remote work. Workshops focused on AI-powered platforms for data analysis, virtual communication tools, and project management software that are shaping modern work environments. These hands-on sessions demonstrated how professionals can leverage these tools to enhance productivity, foster innovation, and collaborate effectively in diverse, global teams.




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A significant focus was placed on cultivating a growth mindset and the importance of lifelong learning. Participants were encouraged to embrace continuous upskilling through online courses, workshops, and industry certifications to stay competitive in a rapidly changing job market. Experts also shared strategies for fostering a culture of innovation and agility in organizations, ensuring that individuals and teams remain adaptable in the face of new technologies and evolving industry needs.

In conclusion, the session provided participants with valuable insights into the skills required for success in the future workforce. Attendees left with a deeper understanding of how to combine technical expertise with interpersonal skills to excel in an increasingly complex and digital world.


COORDINATOR
(R. RAVI KUMAR)




30/03/2024
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ACTIVITIES UNDER MOU



ACADEMIC YEAR: 2021-2022

Department of Computer Science Engineering

Collaborated by: Mosook Training Academy & Consultants Pvt Ltd

Date & Time: 20th February 2022, 11:30 AM – 12:30 PM



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Academic Foundations, Industry Futures

MOSOOK TRAINING ACADEMY & CONSULTANTS PVT LTD

Date & Time:

20th February 2022, 11:30 AM – 12:30 PM



The Future of Learning

Workshop Highlights

- Interactive discussions on aligning academic knowledge with industry skills.
- Overview of trends and opportunities in Electronics and Communication Engineering.
- Networking opportunities with industry experts and educators.



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Introduction

On February 20, 2022, the Department of Computer Science Engineering at Aalim Muhammed Salegh College of Engineering hosted a Hands on Training Program titled "**Academic Foundations, Industry Futures.**" This event was part of the college's initiative to bridge the gap between academic learning and industry demands, ensuring students are well-prepared for professional success in their fields. 27 Students Participated in this Training Program.

About :Mosook Training Academy & Consultants Pvt Ltd

Mosook Training Academy & Consultants Pvt Ltd is a leading organization dedicated to bridging the gap between academic learning and industry requirements. We specialize in providing high-quality training and consulting services aimed at equipping students and professionals with the skills, knowledge, and confidence they need to excel in today's competitive job market.

Training Objectives

The primary goal of this Training Program was to align students' academic knowledge with practical industry skills. By offering insights into current trends, job opportunities, and relevant skills in Computer Science Engineering, the Training aimed to equip participants with an understanding of how to effectively transition from academia to industry.

Training Highlights

The Training covered the following key areas:

1. Interactive Discussions:

Students participated in discussions that highlighted the differences between academic knowledge and the skills required in the industry. This session emphasized the importance of practical skills and adaptability in the professional world.

2. Overview of Trends in Electrical and Electronic Engineering:

Industry experts provided an overview of emerging trends and opportunities in Computer Science Engineering. This included topics such as advancements in AI, IoT, and other evolving technologies relevant to the field.

3. Networking Opportunities:




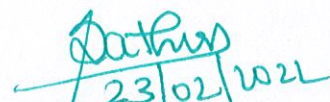
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The Training Program concluded with a networking session where students had the chance to engage with industry professionals and educators. This interaction allowed students to gain valuable insights into the skills, attitudes, and knowledge they need to succeed in their careers.

Conclusion

The Training Program was attended by a group of enthusiastic students eager to learn about the industry requirements. Through interactive discussions, informative presentations, and networking opportunities, the students gained valuable knowledge to bridge their academic foundation with industry demands.


HOD
(Ms. Suranma Safi)
BEYAM)
HOD / CSE


Principal
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Principal
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Internship Program Report
Organized by: Mosook Training Academy & Consultants Pvt Ltd
Program: Internship in Matlab Image Processing
Duration: 06-11-2021 to 08-12-2021
Date of Report: 13th December 2021

Introduction

The Matlab Image Processing Internship Program organized by Mosook Training Academy & Consultants Pvt Ltd aimed to introduce participants to fundamental image processing techniques using Matlab. The intensive three-day program provided participants with hands-on experience, enabling them to analyze and manipulate images through Matlab's powerful toolset.

Objectives

The primary objectives of this internship program were:

- To familiarize participants with Matlab and its Image Processing Toolbox.
- To teach basic techniques for image enhancement, transformation, and analysis.
- To enable participants to apply these techniques in practical scenarios and mini-projects.

Participants

Four participants completed the program successfully, engaging in both theoretical sessions and practical assignments. Here is an overview of each participant's contributions:

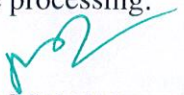
1. **Mr. Sulaiman**
Role: Image Processing Intern
Contribution: Sulaiman demonstrated strong analytical skills and contributed to the development of filters for image enhancement and noise reduction.
2. **Ms.Fathima Amrose**
Role: Image Analysis Intern
Contribution: This participant focused on implementing edge detection and object recognition algorithms, contributing insights on feature extraction techniques.
3. **Mr.Muhammed Afrid**
Role: Matlab Programmer Intern
Contribution: This intern worked primarily on programming scripts to automate image processing tasks, showcasing efficient coding practices within Matlab.
4. **Ms.Noushin Fathima**
Role: Project Intern
Contribution: This participant applied the learned techniques to a mini-project, demonstrating proficiency in color-based segmentation and histogram equalization.

Program Structure

The program was structured into three main modules, covering essential topics in image processing:

1. **Introduction to Matlab and Image Processing**




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- Overview of Matlab basics and Image Processing Toolbox
- Introduction to image representation and manipulation
- 2. **Image Enhancement and Filtering Techniques**
 - Hands-on exercises in noise reduction, contrast enhancement, and image sharpening
 - Application of filters, including Gaussian and median filtering
- 3. **Feature Extraction and Analysis**
 - Techniques in edge detection, thresholding, and object recognition
 - Implementing algorithms for color-based segmentation and morphology-based analysis

Outcomes

By the end of the program, participants achieved the following:

- Proficiency in using Matlab for image processing tasks.
- Ability to perform basic image enhancements and analysis.
- Successful completion of a mini-project that applied the learned techniques in a practical scenario.

Feedback and Evaluation

Participants provided positive feedback on the program structure and the hands-on approach, emphasizing the benefit of real-world applications. They appreciated the short but intensive format, which allowed them to quickly acquire practical skills in Matlab image processing.

Conclusion

The Matlab Image Processing Internship by Mosook Training Academy & Consultants Pvt Ltd was successful in meeting its objectives. Participants gained valuable skills and demonstrated their understanding of image processing techniques through practical applications.

P. Ravikumar
HOD

[RAVIKUMAR]
PLACEMENT CELL

[Signature]
PRINCIPAL



[Signature]
13/12/2021
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CERTIFICATE

of Appreciation

This is to certify that Mr. /Ms. Sulaiman has successfully completed the internship program on Matlab Image processing from 06-II-2021 to 08-12-2021.



SEENI MOHAMED FEROZE JAHAN
CEO

DATE: 13th Dec 2021

JAFFER KHAN
PROGRAM MANAGER

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CERTIFICATE


of Appreciation

This is to certify that **Mr. /Ms. Fathima Amrose** has successfully completed the internship program on **Matlab Image processing** from 06-11-2021 to 08-12-2021.



SEENI MOHAMED FEROZE JAHAN
CEO

DATE: 13th Dec 2021


JAFFER KHAN
PROGRAM MANAGER

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ACTIVITIES UNDER MOU



ACADEMIC YEAR: 2021-2022

Conducted By: Department of Computer Science and Engineering

Total no of Participants: 29

Collaborated by:SEGER Overseas Pvt. Ltd.



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

SEGER OVERSEAS PVT. LTD PRESENTS

PATHWAYS TO PROFESSIONAL EXCELLENCE



Date & Time:

10th January 2022, 11:30 AM – 12:30 PM

Audience:

3rd and 4th Year Computer Science Engineering Students



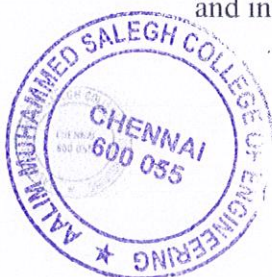
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Introduction:

The Department of Computer Science Engineering at Aalim Muhammed Salegh College of Engineering organized an insightful and informative Training Program titled "Pathways to Professional Excellence." The session was conducted in collaboration with SEGER Overseas Pvt. Ltd., with the goal of guiding students and professionals on how to enhance their skills and achieve professional success in the ever-evolving field of computer science and engineering. A total of 29 students participated in this program.

Training Highlights:

1. **Understanding Professional Excellence:** The Training session began with a discussion on the meaning of "Professional Excellence" and its significance in shaping a successful career. The speaker elaborated on the qualities and competencies that define excellence in the field of computer science, such as:
 - Technical proficiency
 - Effective communication
 - Problem-solving capabilities
 - Ethical and responsible decision-making
 - Lifelong learning and adaptability
2. **Pathways to Excellence in the Digital Age:** The session provided a comprehensive guide to the various pathways that professionals in the technology domain can follow to excel. Key areas discussed included:
 - **Emerging Technologies:** How staying updated with the latest trends in artificial intelligence (AI), machine learning (ML), blockchain, and data science is crucial.
 - **Certifications and Specialized Courses:** The importance of obtaining industry-recognized certifications and enrolling in specialized courses to stand out in the job market.
 - **Internships and Real-World Experience:** Gaining hands-on experience through internships, projects, and collaborations with industry leaders.
 - **Networking and Professional Growth:** The role of networking with peers, mentors, and industry professionals to access opportunities and grow one's career.




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3. **Interactive Q&A Session:** This session was particularly helpful for students who were eager to clarify doubts related to their future in the tech industry.
4. **SEGER Overseas Pvt. Ltd. and Global Career Opportunities:** SEGER Overseas Pvt. Ltd., the Training's collaborator, shared valuable insights on global career opportunities for students, particularly in the IT and computer science sectors. They highlighted their role in connecting talent with organizations worldwide, particularly in countries with high demand for technology professionals.

Conclusion:

The department of Computer Science Engineering at Aalim Muhammed Salegh College of Engineering thanked SEGER Overseas Pvt. Ltd. for their collaboration and for organizing such an impactful Training Program.


HOD
Ms. SULTANA
BEGAM
HOD/CSE




Principal
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Activities under MOU

Academic Year: 2021-2022



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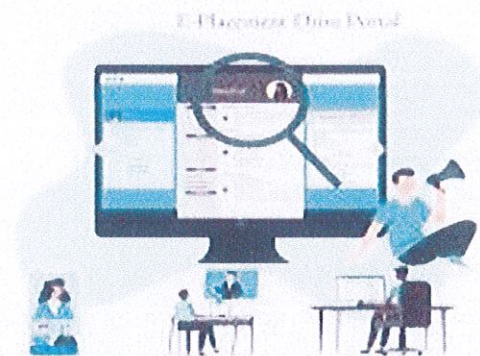
About MyOSin

An Online platform addressing student career challenges and connecting recruiters, aims to help students identify career path, build & enhance profile with various Aptitude/Coding/Domain tests, Programming skills & courses therefore equipping them for placements.

MyOSin provides an exclusive knowledge sharing forum between faculties and students. Also bridging Alumni in mentoring and coaching for students.

Is also an E-Placement drive portal for campus recruitments providing the recruiters with an easy access to spot and shortlist suitable candidates.

An integrated solution
connecting student candidates,
colleges and corporates.



MyOSin Advantages



Academic Connect Feeds
a social network for academia
for sharing of knowledge

Alumni/Experts as Mentors
alumni can become mentors
and share their mastery



Network and Engage
with departments & disciplines
to maintain academic interaction


Job Winning Resumes
build resumes from templates
approved by recruiters



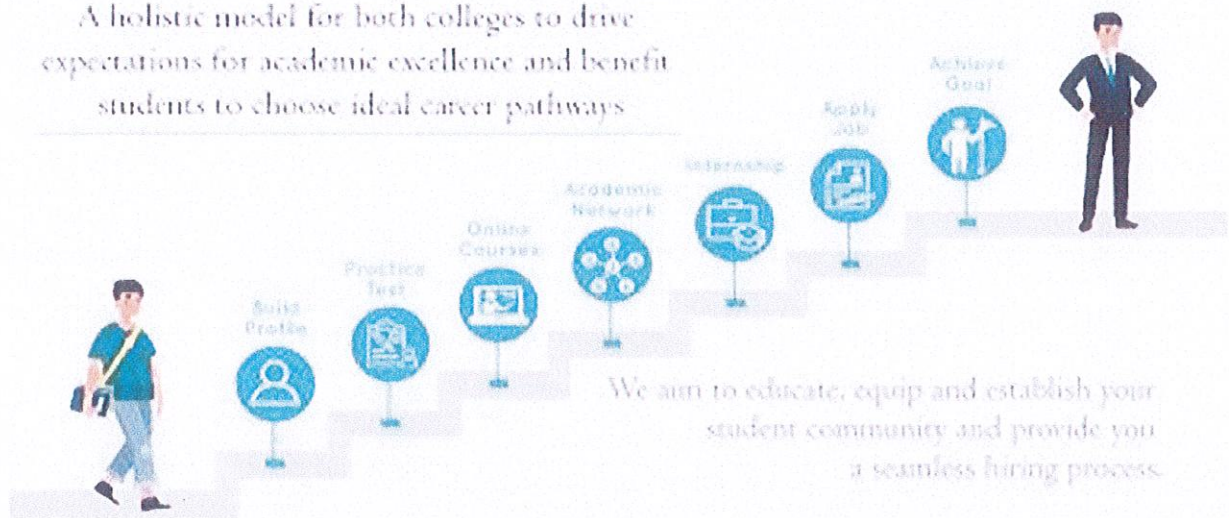
Schedule a Webinar
within the platform to enable
teaching and learning process

Scale up Placements
higher placement conversion
through training and development




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A holistic model for both colleges to drive expectations for academic excellence and benefit students to choose ideal career pathways



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We use state of the art Amazon Web Services - EC2, EBS and S3 to compute and manage all your data.

Firewalls are implemented to prevent unauthorized access to your data.



Testimonials

"As a Placement Training Officer @ NCAS and Mentor @ MyC2m I find this to be a great platform to connect, share resources, get queries resolved and avail career guidance on a personalised approach for our students"

Jyothika
Placement Training Officer

"I am pursuing my degree and I am in need with a stipend"

Sahana
Student

"A portal as such is crucial as it has become a mandate in the new normal. MyC2m assists in assist in connecting with student candidates. It offers a wider perspective in seamless hiring process and helps recruiter with the required candidate mapping."

Prasanna S
Recruiter

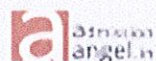
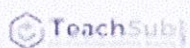


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MyOSin is a division of TeachSub Technologies (TST), belonging to M/s. TeachSub Techno Solutions Pvt. Ltd. TST Provides customized IT solutions. TST focuses on providing CRM, Customized Application Development, Mobile Application Development, Cloud Management, Data Migration, AI, End-2-End E-commerce, Interactive Portals, Social Portals and Online Marketing.

Our Innovations



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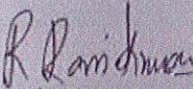
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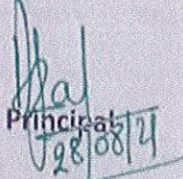
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We wish to inform you that we are organizing a company specific Online - Training Programme for BE/B.Tech – CSE,ECE,EEE,IT,MECH & CIVIL - 2022 batch students for the TCS - NINJA - National Qualifier Test. The Programme is conducted by MyOSin and the Training Programme will be schedule from 30/08/2021 to 03/09/2021 and the attendance is compulsory. Only the Registered students can attend the free sessions on Aptitude / Technical and Softskills.

Registration Link : <https://forms.gle/iZpdiRqZso6pyXV48>.

Training Timings : 10.00 am to 1.00 pm


Head – CPD Cell


Principal

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CHENNAI 600 055




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AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING - 2021 BATCH (FINAL YEAR)
SPECIFIC PLACEMENT TRAINING PROGRAMME FOR M/s. TCS NINJA & CTS Recruitment

MYOS Training Programme			DATE:				
S.No	Reg.No	Name of the Students	30-08-21	31-08-21	09/01/2021	09/02/2021	09/03/2021
			11:00 AM to 01:00 PM	11:00 AM to 01:00 PM	11:00 AM to 01:00 PM	11:00 AM to 01:00 PM	11:00 AM to 01:00 PM
1	110118106001	ABDUL HAMEED J	P	P	P	P	P
2	110118106003	AFRIN FATHIMA S A	P	P	P	P	P
3	110118106004	AL THOWHEED AHMED B	P	P	P	P	P
4	110118106005	ARAVIND KUMAR M	P	P	P	P	P
5	110118106006	ARFATH ALI S	P	A	A	P	A
6	110118106007	ARSHIYA Z	A	A	A	A	A
7	110118106008	FARHEEN ANJUM B	P	P	P	P	P
8	110118106009	FARITHA BANU K	P	P	P	P	P
9	110118106010	HAKKIM ARSATH M	P	P	P	P	P
10	110118106011	HALEEMA HUMAIRA P M S	P	P	P	P	P
11	110118106012	JAUHAR FATHIMA B	P	P	P	P	P
12	110118106013	KREETHIKA V	P	P	P	P	P
13	110118106014	MOHAMED ASSAIN M	A	A	A	A	A
14	110118106015	MOHAMED FARDEEN S	P	P	P	P	P
15	110118106016	MOHAMED FAZIL S	P	P	P	P	P
16	110118106017	MOHAMED HAJA PARVE	P	P	P	P	P
17	110118106019	MOHAMED SAFEER P	A	P	P	A	P
18	110118106020	MOHAMMED AAQIB A	P	P	P	P	P
19	110118106021	MOHAMMED JUNAID A	P	P	P	P	P
20	110118106022	MOHAMMED MUKBIL I	P	P	P	P	P
21	110118106023	MOHAMMED RASUL A	P	P	P	P	P
22	110118106024	MOHAMMED THABRAZ J	P	P	P	P	P
23	110118106025	MOHD IRFAN KHAN Z	P	P	P	P	P
24	110118106026	SATHIYAPRIYA S	P	P	P	P	P
25	110118106027	SHABEER B	P	A	A	P	A
26	110118106028	SHAIK ABDUL KADER	P	P	P	P	P
27	110118106029	SYED MOHAMMED S	P	P	P	P	P
28	110118106030	THABEER MOHAMED	P	P	P	P	P
29	110118106301	BIJASHREE R	A	A	A	A	A
30	110118106302	DHAWOODHI KHAN H	P	P	P	P	P
31	110118106303	FARHAN MOHAMMED B	P	P	P	P	P
32	110118106305	MURALI KRISHNA S	A	A	A	A	A
33	110118106306	SUNIL KUMAR C H	P	P	P	P	P
Total			28	27	27	28	27

CLASS COUNSELOR

HOD

VICE-PRINCIPAL

PRINCIPAL

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COLLEGE OF ENGINEERING
4VADI - IAF, MUTHAPUDUPE
CHENNAI 600 055



M/s TeachSub Techno Solutions Pvt.Ltd (MyOSin)
Special Training Programme for TCS National Qualified Test

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING - 2022 BATCH (FINAL YEAR)
SPECIFIC PLACEMENT TRAINING PROGRAMME FOR M/s. TCS NINJA & CTS Recruitment

Sub: MyOSin Training session :11.00 am to 1.00 pm			Dates :				
			30/8/2021	31/8/2021	01/09/2021	02/09/2021	03/09/2021
S.No	Reg.No	Name of the Students	11.00 AM to 1.00PM	11.00 AM to 1.00PM	11.00 AM to 1.00PM	11.00 AM to 1.00PM	11.00 AM to 1.00PM
1	110118114002	Abdul Basith	A	P	P	A	A
2	110118114003	Afzal khan	A	A	A	A	A
3	110118114004	Ahamed Dhanveerul Irfan	P	P	A	P	A
4	110118114006	Ahamedmunasim	A	P	P	P	P
5	110118114007	Ajimeer T	A	P	A	P	A
6	110118114008	Akash	P	P	P	A	A
7	110118114009	Asmath Shafee S	P	P	P	P	P
8	110118114010	Asrar Ahamed Ibrahim	A	P	P	A	A
9	110118114012	Farves mushraf	A	P	P	P	P
10	110118114013	Hafeezullah Khan	A	P	A	A	A
11	110118114014	Hameed Rahman M	P	P	P	P	A
12	110118114015	Irshad ahamed	A	P	P	P	A
13	110118114017	S.Madhan Kumar	A	P	A	A	A
14	110118114018	Mahmooth Nafil U	P	P	P	P	P
15	110118114021	M. Mohamed Al hafees	P	A	P	P	A
16	110118114022	Mohamed Ayas M	A	P	P	P	A
17	110118114023	S. Mohamed Hussain	A	P	P	P	A
18	110118114024	Mohamed Javith.L	A	P	P	A	A
19	110118114025	Mohamed mujeeb S	P	P	P	A	A
20	110118114026	Mohamed Rifaiz Syed Ibrahim	P	P	P	P	P
21	110118114027	Mohamed Salman Farzi	P	P	P	A	A
22	110118114028	Mohamed Sha Kaja Javith.M	P	P	P	P	A
23	110118114029	Mohamed suhail.s	P	P	P	P	A
24	110118115030	Mohamed Vaseem N	A	P	A	P	A
25	110118114031	Aadhil Shariff	A	A	P	A	A
26	110118114032	Mohammed Aboobacker Siddique I	A	A	P	P	A
27	110118114034	Mohammed Bilal M	A	A	P	A	A
28	110118114037	Mohammed Ibrahim	A	A	A	A	A
29	110118114038	M mohammed irfan	P	A	P	A	A
30	110118114039	M.Mohammed Irfan	P	P	A	P	A
31	110118124040	B.Mohammed Rasheed	P	A	P	P	P
32	110118114041	Mohammed Tawfeeq Nasar	A	P	P	P	A
33	110118114042	Mohammed Musharraf Ali	P	P	P	P	P
34	110118114043	Mustafa	A	A	A	A	A



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AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING - 2022 BATCH (FINAL YEAR)
SPECIFIC PLACEMENT TRAINING PROGRAMME FOR M/s. TCS NINJA & CTS Recruitment

Sub:		MyOSin Training session :11.00 am to 1.00 pm	Dates :		30 Aug 2021 to 03 Sep 2021				
			30/8/2021	31/8/2021	01/09/2021	02/09/2021	03/09/2021		
No	Reg.No	Name of the Students	11.00 AM to 1.00 PM	11.00 AM to 1.00 PM	11.00 AM to 1.00 PM	11.00 AM to 1.00 PM	11.00 AM to 1.00 PM		
35	11011814044	Naveed khan	A	A	A	P	A		
36	11011814045	Naveen kumar S	P	P	P	P	P		
37	11011814046	Raghul D	A	A	A	A	A		
38	11011814047	Sadam Hussain M.A.	A	A	P	P	A		
39	11011814048	M. Iseyed Abu backer	A	P	P	P	A		
40	11011814049	Seyed Mohamed Azhar	A	P	P	P	P		
41	11011814051	Shaik Zameer Hussain	P	P	P	P	A		
42	11011814053	Shoiab Khan.A	A	P	A	P	P		
43	11011814054	Syed Imran S	A	P	P	P	A		
44	11011814055	Syed meeran YUSUF	P	A	A	A	A		
45	11011814056	Syed Raza Ali	P	P	P	P	A		
46	11011814057	J Yuvaraj	P	A	P	P	A		
47	11011814058	Zarar Ahamed	P	P	P	P	A		
48	11011814059	Ziaul Fayaz Z	A	P	P	P	P		
49	11011814301	M. B. Abdul Razith	P	P	P	P	P		
50	11011814302	S M Adil Rehman	A	P	P	P	P		
51	11011814303	M.kadher mohideen	P	P	P	P	A		
52	11011814304	Mohamed afreeth.i	A	P	P	A	A		
53	11011814305	Mohamed al imran	P	P	A	P	P		
54	11011814306	Mohamed aslam	A	P	P	P	P		
55	11011814307	Mohamed Imran A W	P	P	P	P	P		
56	11011814308	Mohammed Ibrahim T	A	P	A	P	P		
57	11011814309	Saravanan A J	P	A	P	P	A		
58	11011814310	Shahul Hameed J	A	P	A	A	A		
59	11011814311	Shaikh Fahad	P	A	P	P	P		
60	11011814312	M Syed Mohammad Fareed	A	A	A	A	A		
61	11011814701	Ahmed Riyaj Khan	A	A	P	P	A		
No of students present			27	43	44	42	18		

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ASS COUNSELOR
[Signature]
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HOD/MECH

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VICE-PRINCIPAL

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AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING - 2022 BATCH (FINAL YEAR)
SPECIFIC PLACEMENT TRAINING PROGRAMME BY MYOSIN

Timing : 11.00 am to 1.00 pm				Dates :				
				30.8.2021, 31.08.2021, 01.09.2021, 02.09.2021, 03.09.2021				
				30.08.2021	31.08.2021	01.09.2021	02.09.2021	03.09.2021
S.No	Reg.No	Name of the Students	Contact Number	FN	FN	FN	FN	FN
1	110118103001	Abdul habees	8668172188	A	A	A	A	A
2	110118103002	Abdul Jameel A	7871047618	P	P	P	A	P
3	110118103003	AHAMED.M	8300280284	P	P	P	A	P
4	110118103004	Ahamed insaf.A	9270938585	A	A	A	A	P
5	110118103005	Fayas Ahamed B	8098383861	P	A	P	A	P
6	110118103006	Hayath Badsha. Z	9195759189	A	A	A	A	P
7	110118103007	S.m.n Jalaludeen	6379147236	A	A	A	A	A
8	110118103008	Mohamed Aasim M	9500606635	P	P	P	P	P
9	110118103009	Mohamed Abubacker Siddique	9840597012	A	A	A	A	A
10	110118103010	Mohamed fareeth.f	6365912614	A	A	A	A	A
11	110118103011	U.MOHAMED MUNEEB	7339323836	P	P	P	P	P
12	110118103012	MOHAMED RIYAS. MI	6374631953	P	A	P	P	P
13	110118103013	S. MOHAMED RIYAS	9843603864	P	P	P	P	P
14	110118103014	Mohammed Atiq mohideen	8667789553	A	A	P	A	P
15	110118103016	Mohammed Faisal E.M	9384646997	A	A	P	A	A
16	110118103018	K NANDHINI	8939531045	P	P	P	P	P
17	110118103019	S Sajeeth Arshak	9600013714	A	P	P	A	A
18	110118103020	Syed Abu Farhan Hussainy	6383677021	A	A	P	A	A
19	110118103021	S. H. Thamcem Buhari	7395854319	A	P	P	P	P
20	110118103302	MOHAMED ISMAIL K.S	8637451189	A	A	P	A	A
21	110118103303	N.mohamed suhail	9952685514	A	A	A	A	A
22	110118103304	Mohamed Sulaiman Azim J	7550300295	A	A	A	A	A
TOTAL PRESENT				8	8	14	6	12

CLASS COUNSELOR

Nandini
HOD 7/9/2021

VICE-PRINCIPAL

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AALIM MUHAMMAD SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY - 2022 BATCH (FINAL YEAR)
SPECIFIC PLACEMENT TRAINING PROGRAMME FOR M&TCS MY OS

DATE: 30/08/21 TO 3/09/21			30/8/2021		31/8/2021		1/9/2021		2/9/2021		3/9/2021	
S.No	Reg.No	Name of the Students	11.00 AM to 1.00 PM		11.00 AM to 1.00 PM		11.00 AM to 1.00 PM		11.00 AM to 1.00 PM		11.00 AM to 1.00 PM	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	110118205001	ASIM KHAN.A	AB	AB	P	P	P	P	P	P	AB	AB
2	110118205002	ENAMULHUK M	P	P	P	AB	P	P	P	P	AB	AB
3	110118205004	HIDARALI A	P	P	P	P	P	P	P	P	P	P
4	110118205005	MADHUMEGA A	P	P	AB	P	P	P	P	P	P	P
5	110118205007	MOHAMED MARWAN VM	P	P	P	P	AB	AB	AB	AB	P	P
6	110118205008	MOHAMED NAWAZ M	P	P	P	P	P	P	P	P	P	P
7	110118205009	SADA ZEHRA S	P	P	P	P	P	P	P	P	P	P
8	110118205010	SALMA A	P	P	P	P	P	P	P	P	P	P
9	110118205011	SALMAN AHAMED J	P	P	AB	AB	P	P	P	P	P	P
10	110118205012	SALMAN AL FARISHI K	AB	AB	AB	AB	AB	AB	P	P	AB	AB
11	110118205013	SANJAY BITRA N	P	P	P	P	AB	AB	P	P	P	P
12	110118205014	SHABANA PARVEEN K	P	P	P	P	P	P	P	P	P	P
13	110118205015	SYED MOHAMED DHANISH M R	AB	AB	AB	AB	AB	AB	P	P	P	P
14	110118205302	GOWTHAM A	P	P	P	P	P	P	P	P	P	P
NO OF PRESENTEES			11	11	10	10	10	10	13	13	11	11
NO OF ABSENTEES			3	3	4	4	4	4	1	1	3	3

[Signature]
DHIVA BHARATHI P
 CLASS COUNSELOR

[Signature]
HEAD/IT
 Information Technology
 Aalim Muhammed Salegh
 College of Engineering

[Signature]
VICE PRINCIPAL

[Signature]
PRINCIPAL
AALIM MUHAMMAD SALEGH
COLLEGE OF ENGINEERING



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Report on Online Training Program for B.E. Students in Aptitude, Technical Skills, and Soft Skills Conducted by MyOSin for TCS NINJA National Qualifier Test

Introduction: MyOSin conducted a specialized online training program to prepare **120 B.E. students** for the **TCS NINJA National Qualifier Test (NQT)**, a critical recruitment test for Tata Consultancy Services (TCS). The training aimed at equipping students with the essential skills required to succeed in the NQT, focusing on **Aptitude, Technical Skills, and Soft Skills**. Given the competitive nature of the test and its role in determining the future career opportunities for engineering graduates, this program was designed to enhance their proficiency in the key areas tested during the NQT and help them excel.

Program Overview: The training program was divided into three primary components: **Aptitude, Technical Skills, and Soft Skills**, each tailored to meet the specific requirements of the NQT. The sessions were conducted online, ensuring accessibility for all 120 students, and incorporated a mix of live lectures, recorded content, quizzes, coding challenges, and mock tests.

1. **Aptitude Training:** The **Aptitude** section focused on building the critical thinking and problem-solving abilities of the students. This module covered:
 - **Numerical Ability:** Topics such as percentages, ratios, data interpretation, time and work, and probability were covered through interactive lessons and exercises, designed to improve speed and accuracy.
 - **Logical Reasoning:** Students worked on various puzzles, number series, and pattern recognition exercises, essential for tackling the reasoning section of the NQT.
 - **Verbal Reasoning:** Focus was given to enhancing comprehension, sentence completion, and vocabulary skills, ensuring that students could effectively handle the verbal sections of the test.

Regular practice tests and quizzes helped reinforce concepts and sharpen skills, ensuring the students were able to solve complex problems efficiently under time constraints.

2. **Technical Skills Training:** The **Technical Skills** module was designed to ensure students were well-prepared for the coding and technical sections of the NQT. Key areas included:
 - **Programming Languages:** Comprehensive training was provided in languages like **C, C++, Java, and Python**, with an emphasis on writing optimized code and solving problems efficiently.
 - **Data Structures and Algorithms:** The module focused on essential data structures (arrays, linked lists, stacks, queues) and algorithms (sorting, searching), providing students with hands-on exercises to implement and apply these concepts in coding challenges.
 - **Problem-Solving:** Coding challenges were designed to mimic the types of problems students would encounter during the NQT, helping them develop practical problem-solving skills and time management techniques.

Students were given access to coding platforms and were encouraged to work on regular problem sets and participate in mock coding rounds to build their confidence in technical skills.



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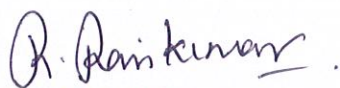
3. **Soft Skills Training:** In addition to technical proficiency, **Soft Skills** training was essential for students to succeed in the overall recruitment process. This module covered:

- **Effective Communication:** Students learned how to communicate their ideas clearly and confidently, both in writing and during verbal interactions. This included mock interview practice, email etiquette, and business communication.
- **Time Management:** Given the time-bound nature of the NQT, the training emphasized time management techniques to help students allocate their time effectively during both the test and in professional environments.
- **Personality Development and Interview Skills:** The soft skills module included coaching on professional behavior, interview preparation, and how to handle behavioral questions in interviews, ensuring that students are ready for both online assessments and face-to-face interviews.

The soft skills training aimed to prepare students not only for the NQT but also for future professional engagements and interviews with top IT companies like TCS.

Assessments and Feedback: The program included regular assessments, including **mock NQT tests**, **coding challenges**, and **quiz-based evaluations** for aptitude and technical skills. These assessments were designed to simulate real test conditions and track progress. Each student received personalized feedback, identifying strengths and areas for improvement. This feedback loop ensured that students could continuously refine their skills and perform optimally during the actual NQT.

Conclusion: The online training program conducted by MyOSin for the 120 B.E. students in preparation for the **TCS NINJA National Qualifier Test** was highly successful in equipping them with the necessary skills to excel in the NQT. By focusing on **Aptitude**, **Technical Skills**, and **Soft Skills**, the program provided a comprehensive learning experience that ensured students were well-prepared for the test. The combination of theoretical lessons, hands-on coding exercises, regular assessments, and expert feedback empowered the students to tackle the NQT with confidence. As a result, the training not only enhanced their chances of succeeding in the test but also ensured they were ready for future opportunities in the competitive IT industry.



Head / CPD Cell

(R. RAVI KUMAR)





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AVADI IAF, CHENNAI – 55.



Activities under MOU

Academic Year: 2021-2022

Institute of Industrial Design,

The Department of Mechanical Engineering organized a Training Program on “**CAD & 3D Modelling**” by Mr. Ranjithkumar, CAD Trainer, Institute of Industrial Design on 27-10-2021 from 10.00 a.m to 12.30 p.m for all final and pre-final year students. A total of 108 Mechanical students participated in the Training Program.

Training Program

INSTITUTE OF INDUSTRIAL DESIGN

CAD & 3D MODELLING

RESOURCE PERSON:
MR. RANJITHKUMAR,
CAD TRAINER

Date: October 27, 2021

Time: 10:00am - 12:30pm

JOIN NOW

Department of Mechanical Engineering
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

DR. S. RAMKUMAR
HOD

DR. S. SATHISH
PRINCIPAL



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Report on CAD and 3D Modelling Training Program Conducted by Mr. Ranjithkumar, CAD Trainer

The CAD and 3D Modelling training program conducted by Mr. Ranjithkumar, an expert in Computer-Aided Design (CAD) and 3D modelling, provided participants with a comprehensive understanding of the fundamentals and practical applications of CAD software. This program aimed at equipping professionals, engineers, and students with essential skills to create accurate and precise 3D models, enhance design processes, and effectively utilize CAD tools for various industries such as manufacturing, construction, automotive, and product design.

Objectives of the Training

The primary objectives of the training program were:

1. To introduce the basic concepts of CAD and 3D modelling.
2. To enhance participants' skills in using popular CAD software tools.
3. To demonstrate the practical applications of CAD and 3D modelling in real-world design scenarios.
4. To help participants develop a strong foundation for creating detailed, accurate, and functional designs.

Training Content

The training program covered a wide range of topics in both theoretical and practical aspects of CAD and 3D modelling. Key topics included:

- **Introduction to CAD Software:** Mr. Ranjithkumar began the training by introducing various CAD software platforms, focusing on their user interfaces, features, and capabilities. Participants were familiarized with software like AutoCAD, SolidWorks, and Fusion 360, learning how to navigate through these tools.
- **2D Drafting Techniques:** Participants were guided through the fundamentals of 2D drawing, including line creation, dimensioning, layer management, and annotation tools. Practical exercises were conducted to reinforce these skills, with a focus on producing professional-quality technical drawings.
- **3D Modelling Basics:** The training then progressed to 3D modelling concepts, where participants learned how to create 3D objects from basic geometries. Topics such as extrusion, revolution, and lofting were introduced to help build complex 3D models. Emphasis was placed on precision and accuracy in modelling, critical for successful product design.
- **Assembly and Rendering:** One of the highlights of the training was the session on assembling multiple 3D components to form complete assemblies. Participants were also introduced to rendering techniques, learning how to create realistic visualizations of their models using lighting, textures, and camera settings.




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- **Advanced CAD Techniques:** The latter part of the training delved into more advanced topics such as parametric design, motion analysis, and simulation. Mr. Ranjithkumar provided in-depth explanations of how to use CAD software for design validation and optimization, essential skills for professional designers and engineers.

Practical Hands-On Sessions

A significant portion of the training was dedicated to hands-on exercises where participants applied what they learned to create their own designs. These sessions provided the opportunity for attendees to work on real-world design challenges, with guidance from Mr. Ranjithkumar. Each participant was encouraged to complete a final project, which they presented at the end of the program.

Key Takeaways

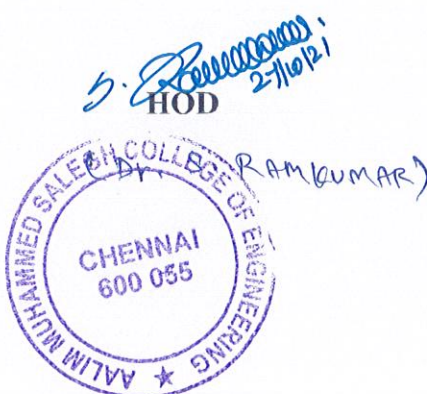
By the end of the training, participants had gained:

- Proficiency in using CAD software to create both 2D and 3D designs.
- A solid understanding of the design workflow, from conceptual sketches to detailed modelling.
- Knowledge of advanced CAD features, including assembly design, rendering, and simulation.
- Enhanced problem-solving skills and the ability to approach complex design challenges with a methodical and structured approach.

Conclusion

The CAD and 3D Modelling training program, led by Mr. Ranjithkumar, was an enriching experience for all participants. The trainer's in-depth knowledge and hands-on teaching approach ensured that attendees gained practical skills and theoretical knowledge required to excel in the field of CAD and 3D modelling. This training has significantly improved the participants' competence in using CAD tools for effective product design and development. The skills learned during the course are expected to have a lasting impact on their professional careers, empowering them to take on more advanced design tasks with confidence.

Overall, the program was a resounding success, and it is recommended that similar training sessions be conducted in the future to further promote skill development in this essential area.



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Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

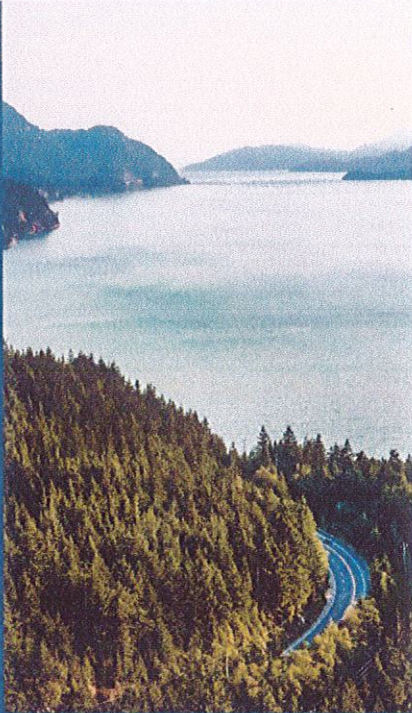


NAAC
Accredited

DEPARTMENT OF CIVIL ENGINEERING

In association with

CONSTRUCTION MANAGEMENT TRAINING INSTITUTE



TRAINING PROGRAM

Green Building and Sustainable Construction Program

DATE :16.02.2022


TIME: 10 TO 1 PM

VENUE: DR.APJ
ABDUL KALAM
AUDITORIUM

RESOURCE PERSON: Prof. Shashi Shekhar

Expert in green building technologies.




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AVADI IAF, CHENNAI-55



ACTIVITIES UNDER MOU

Academic Year: 2021-2022

Company Name : Construction Management Training Institute

Siemens (for building automation)

Prof. Shashi Shekhar is a recognized expert in the field of green building technologies and sustainable architecture. He has contributed significantly to the development and application of eco-friendly building systems, with a focus on promoting energy efficiency, sustainability, and environmental conservation in the construction industry.

Collaborations:

- Working with government agencies, NGOs, and private organizations to implement sustainable building policies and standards.
- Collaboration with international organizations like the United Nations Environment Programme (UNEP), the World Green Building Council, and others dedicated to advancing green construction practices worldwide.

Program is scheduled on 16-02-2022 from 10.00 a.m to 12.30 p.m for II,III & IV year Civil Engineering students. *Siemens* (for building automation) in collaboration under the green building technology provides students a awkful knowledge for future development and also makes the students to initiate innovative ideas as good builders.A total of 64 students participated in the trainingprogram.

Green Building and Sustainable construction

A **green building** is one that is designed, constructed, and operated with a focus on environmental sustainability. The goal is to reduce the environmental impact of buildings throughout their lifecycle, from construction to operation and eventual demolition. Green buildings typically prioritize energy efficiency, water conservation, use of sustainable materials, and indoor environmental quality.

Key Aspects of Green Buildings:

1. Energy Efficiency:

Insulation and Thermal Performance: High-quality insulation, energy-efficient windows, and well-sealed building envelopes help maintain internal temperature and reduce heating and cooling energy use.



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- **Energy-Efficient Systems:** Use of LED lighting, energy-efficient HVAC systems, and smart thermostats to reduce overall energy consumption.
- **Renewable Energy:** Integration of on-site renewable energy sources like solar panels or wind turbines, or purchase of green energy from external sources.
- **Building Energy Management:** Use of advanced technologies for monitoring and controlling energy use, optimizing systems in real-time.

2. Water Efficiency:

- **Low-Flow Fixtures:** Water-saving faucets, showers, and toilets that reduce water consumption without sacrificing performance.
- **Rainwater Harvesting:** Collection and use of rainwater for irrigation, cooling, or even indoor non-potable uses.
- **Water-Efficient Landscaping:** Drought-resistant plants and irrigation systems that use water efficiently.
- **Greywater Recycling:** Reuse of water from sinks, showers, and laundry for purposes like irrigation.

3. Sustainable Building Materials:

- **Recycled and Recyclable Materials:** Use of materials that are either recycled or have the ability to be recycled at the end of their lifecycle.
- **Locally Sourced Materials:** Reducing the carbon footprint associated with transportation by using materials sourced locally.
- **Low-Emission Materials:** Selection of paints, adhesives, and finishes with low volatile organic compound (VOC) emissions to improve indoor air quality.
- **Sustainable Wood Products:** Certified wood from responsibly managed forests (e.g., FSC-certified wood).

4. Indoor Environmental Quality:

- **Ventilation and Air Quality:** Enhanced ventilation systems to improve indoor air quality, along with low-emitting materials that minimize the presence of harmful chemicals.
- **Daylighting:** Maximizing natural light within the building to reduce reliance on artificial lighting, improving occupant well-being.
- **Thermal Comfort:** Ensuring that the building's temperature is comfortable for occupants through passive heating and cooling strategies or advanced HVAC systems.

Acoustic Comfort: Soundproofing and managing acoustics to ensure a pleasant environment with reduced noise pollution.



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5. Waste Reduction:

- **Construction Waste Management:** Diverting construction and demolition waste from landfills through recycling or reusing materials.
- **Operational Waste Management:** Implementation of recycling and composting systems within the building's operations to minimize waste sent to landfills.

6. Site Selection and Impact:

- **Location and Transportation:** Green buildings are often located in urban areas where public transportation is accessible, reducing the need for personal vehicle use and lowering transportation-related emissions.
- **Biodiversity and Habitat Protection:** Selecting sites that avoid disrupting natural habitats, and incorporating green roofs or gardens to enhance biodiversity.

7. Certification Systems: Green buildings often pursue third-party certification to demonstrate their commitment to sustainability. Popular green building rating systems include:

- **LEED (Leadership in Energy and Environmental Design):** One of the most widely recognized green building certification programs globally.
- **BREEAM (Building Research Establishment Environmental Assessment Method):** A green building certification system used predominantly in Europe.
- **WELL Building Standard:** Focuses on health and wellness aspects of buildings, such as air quality, lighting, and thermal comfort.
- **Living Building Challenge:** A highly rigorous certification that requires buildings to be self-sustaining, net-positive in energy and water, and free of harmful chemicals.

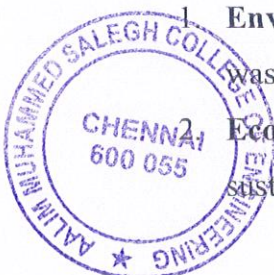
8. Smart Technologies:

- **Building Automation Systems (BAS):** These systems manage heating, lighting, ventilation, and other building functions in a way that maximizes efficiency.
- **Energy Monitoring and Control:** Use of sensors and IoT devices to track and optimize energy use in real-time.
- **Smart Appliances:** Energy-efficient appliances that can be controlled remotely and programmed to operate during off-peak energy hours.

Benefits of Green Buildings:


1. **Environmental Impact:** Reduced carbon footprint, energy consumption, water use, and waste generation.


2. **Economic Savings:** Energy and water savings lead to reduced utility bills, while sustainable materials can reduce maintenance costs.



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3. **Health and Well-Being:** Better air quality, natural light, and thermal comfort lead to increased productivity and improved health outcomes for occupants.
4. **Increased Property Value:** Green buildings often have higher market value and attract tenants willing to pay a premium for sustainable, healthy environments.
5. **Compliance and Incentives:** Green buildings may qualify for government incentives, tax credits, or grants, and meet regulations on sustainability.


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Ms. Surthana Beqam.
HOD/CIVIL


16/2/2022
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ACTIVITIES UNDER MOU

Academic Year: 2021-2022


IF ELSE TECHS MART SOLUTIONS PRIVATE LIMITED

The Department of Information Technology organized a online training program on “**M.E.A.N (MongoDB, Express, Angularjs, Nodejs)**” was conducted by Mr. Abdur Rahman, Fullstack Developer, ifelse Technologies on 23-03-2021 at 10.00 a.m. A total of 50 students attended the session. The students gave their valuable feedback.



Fig: Online training program on M.E.A.N (MongoDB, Express, Angularjs, Nodejs)




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The one-day online training program on “**M.E.A.N (MongoDB, Express, AngularJS, Node.js)**” focused on Node.js and Express.js, two core technologies within the M.E.A.N stack. The session aimed to provide participants with an in-depth understanding of how to use these technologies for building efficient, scalable web applications, particularly the back-end functionality of a web app.

The training began with an introduction to Node.js, a JavaScript that allows for server-side scripting using JavaScript. The instructor explained the fundamentals of Node.js, including its event-driven architecture and asynchronous programming model, which enables the creation of fast and scalable network applications. Participants learned how to set up a basic Node.js environment and build a simple HTTP server using the http module. They were also introduced to npm (Node Package Manager) to install necessary libraries and dependencies.

Next, the focus shifted to Express.js, a minimal and flexible Node.js web application framework. The instructor explained how Express simplifies routing, request handling, and middleware integration for building robust web applications. Participants learned how to create a RESTful API with Express, handle HTTP methods like GET, POST, PUT, and DELETE, and structure routes effectively. The session also covered how to parse incoming request data using middleware


and send responses in various formats such as JSON.




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Throughout the session, hands-on examples were provided to reinforce the concepts. Participants built a simple REST API using Node.js and Express that allowed basic CRUD (Create, Read, Update, Delete) operations on data. The live coding session also included connecting the application to a MongoDB database for persistent data storage, demonstrating how Node.js and Express can work seamlessly together to interact with the database.

In conclusion, the training program successfully equipped participants with the fundamental skills required to develop server-side applications using Node.js and Express. By the end of the session, attendees had a solid foundation in backend development, understanding how to set up web servers, build APIs, and manage routing and database interactions in modern web applications.


HOD


Dr. Amerul Hossain

(HOD/IT)




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ACTIVITIES UNDER MOU

Academic Year: 2021-2022

M/S IFELSE TECHSMART SOLUTIONS PRIVATE LIMITED

UX/UI Design Internship Report

Internship Title: UX/UI Design

Duration: 11th October 2021 – 22nd October 2021

Batch: 2018-2022, Batch, IV year, CSE (Computer Science and Engineering)

Number of Students: 20

Mode: Online

1. Internship Objective

The goal of the UX/UI Design Internship was to introduce students from the 2018-2022 Batch IV, CSE to the fundamentals of User Experience (UX) and User Interface (UI) design. This program aimed to equip participants with the necessary skills and knowledge to design effective, user-friendly applications and websites. Through practical assignments and expert guidance, students were expected to:

- Understand the principles of UX/UI design.
- Learn and apply design thinking.
- Gain hands-on experience with industry-standard design tools like Figma, Adobe XD, or Sketch.
- Develop the ability to create wireframes, prototypes, and UI mockups.
- Apply best practices in usability and accessibility.

2. Internship Schedule and Activities

The online internship program was conducted over a span of 12 days with interactive sessions, practical exercises, and project assignments. Below is an overview of the schedule:

Day 1: Introduction to UX/UI Design

Session Overview:

- Introduction to UX and UI design
- Understanding the difference between UX and UI
- Importance of UX/UI in modern software development
- Overview of design tools (Figma, Adobe XD, Sketch)




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Day 2: Design Thinking & User-Centered Design

Session Overview:

- Introduction to design thinking methodology
- Understanding user personas and user journeys
- Techniques for empathy mapping and user research
- Case study: How companies apply UX research to improve user experiences

Day 3: Wireframing & Prototyping

Session Overview:

- Basics of wireframing and prototyping
- Importance of low-fidelity vs high-fidelity prototypes
- Hands-on workshop: Creating wireframes in Figma
- Introduction to prototyping tools

Day 4-5: UI Design Principles

Session Overview:

- Visual design principles: Color theory, typography, spacing, and layout
- Introduction to UI patterns and components
- Best practices for mobile-first design
- Hands-on session: Designing a basic UI screen in Adobe XD

Day 6: User Research & Testing

Session Overview:

- Introduction to user research methods: Surveys, interviews, usability testing
- Creating a usability test plan
- Conducting remote usability testing
- Analyzing user feedback to improve designs

Day 7-8: Advanced Prototyping & Interaction Design

Session Overview:

- Advanced prototyping techniques in Figma and Adobe XD
- Creating interactive prototypes with user flows
- Introduction to micro-interactions
- Hands-on workshop: Creating an interactive prototype

Day 9-10: Usability and Accessibility in UX/UI Design

Session Overview:


- Understanding usability and accessibility guidelines (WCAG)
- Creating inclusive designs for diverse user groups
- Accessibility testing tools and techniques
- Hands-on workshop: Improving accessibility in a sample design

Day 11-12: Final Project and Presentation

Session Overview:

- Students worked on their final group project: Designing a user-friendly mobile application interface




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- Mentors provided feedback on the project progress
- Final presentation: Each group presented their designs, explaining their research, design decisions, and user feedback
- Peer review and feedback sessions

3. Tools and Software Used

- -Figma: For wireframing, UI design, and prototyping
- -Adobe XD: For UI design and creating interactive prototypes
- -Sketch (Optional): For UI design and prototyping
- -Miro: For brainstorming and user journey mapping
- -Usability Hub: For conducting usability testing and surveys
- -Slack/Google Meet: For communication, mentoring sessions, and team collaboration

4. Key Learnings and Skills Acquired

By the end of the internship, the participants developed the following skills and competencies:

1. UX Research: Understanding user needs and conducting user research through surveys and interviews.
2. Wire framing and Prototyping: Hands-on experience in creating wireframes, low-fidelity prototypes, and high-fidelity interactive prototypes.
3. UI Design Principles: Mastery of UI design principles such as layout, typography, color theory, and responsiveness.
4. Design Tools: Proficiency in industry-standard design tools like Figma and Adobe XD.
5. Usability Testing: Experience in conducting usability tests and analyzing results to improve designs.
6. Collaboration: Effective collaboration in teams through digital tools like Google Meet and Slack.
7. Accessibility Awareness: Knowledge of accessibility guidelines and how to design for all users, including those with disabilities.

5. Project Overview

As part of the internship, students were divided into groups and tasked with creating a mobile application design that addressed a real-world problem. Each group was responsible for conducting user research, creating wireframes and prototypes, and ensuring the final design was user-friendly and accessible.

Project Example:


Project Title: "Health Mate - A Fitness Tracking App"

Objective: To design a fitness tracking mobile application that helps users track their physical activity, diet, and overall health.

Key Features:

- User registration and profile creation
- Personalized workout plans
- Activity tracking and progress reports




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- Healthy recipe suggestions
- Integration with wearable devices

Students presented their final designs in the last two days of the internship, receiving feedback from mentors and peers.

6. Feedback and Evaluation

At the end of the internship, feedback was gathered from the students through a survey, which indicated the following:

- 85% of participants reported a significant improvement in their UX/UI design skills.
- 90% of participants found the hands-on projects and mentor feedback to be the most valuable parts of the internship.
- 75% of participants felt more confident in their ability to work with industry-standard design tools.
- Students appreciated the interactive nature of the online internship and the flexibility it offered.

7. Conclusion

The UX/UI Design Internship Program successfully met its objective of providing CSE students with practical skills in user experience and user interface design. Over the course of 12 days, students not only learned fundamental design principles but also applied them in real-world projects, demonstrating their newfound abilities in creating user-friendly digital products.

This internship has helped bridge the gap between theoretical knowledge and practical application, equipping students with skills that are highly valued in the tech industry.



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DATE: 25th Oct 2021

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This is to certify that **Mr. /Ms. RUBESH S** has successfully completed the internship program on **UX/UI DESIGN** from **11-10-2021 to 22-10-2021**.

DATE: 25th Oct 2021

SIGNATURE

25/10/2021
HOD

Asst. Prof. Sultana Begum



25/10/2021
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ACTIVITIES UNDER MOU

Academic Year: 2021-2022




M/S Felicet Infra Private Limited

The Department of Electronics and Communication Engineering organized a training program on “**Advanced in IoT**” by Mr. Mohammed Shariff, Team Lead, M/S Felicet Infra Private Limited on 20-04-2022 from 11.00 a.m to 12.30 p.m for II year ECE students. A total of 35 students participated.



Fig: Training program on Advanced in IoT




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The training program on "**Advancements in IoT (Internet of Things)**" explored the cutting-edge developments in IoT technologies and their impact on various industries. Held over a single session, the event brought together industry experts, researchers, and professionals eager to learn about the latest trends and innovations shaping the IoT landscape.

The session began with an introduction to the current state of IoT, highlighting its rapid expansion and integration into everyday life. Experts explained that IoT is transforming industries by connecting a vast network of devices, enabling real-time data collection, remote monitoring, and intelligent decision-making. Key sectors impacted by IoT include smart cities, healthcare, manufacturing, and agriculture.

One of the major topics discussed was the role of 5G technology in advancing IoT. With its ability to provide high-speed, low-latency connections, 5G is set to enhance the performance of IoT devices, enabling applications such as autonomous vehicles, smart homes, and large-scale industrial automation. Experts also discussed the growing importance of edge computing, where data processing occurs closer to the source of the data (i.e., on IoT devices themselves), reducing latency and bandwidth requirements.





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A significant portion of the session focused on the integration of artificial intelligence (AI) with IoT. AI enables IoT systems to analyze massive amounts of data and make autonomous decisions. Real-world examples were shared, such as predictive maintenance in manufacturing, where IoT sensors collect data from equipment and AI algorithms predict failures before they happen, saving costs and downtime.

Security in IoT was another critical theme. With the increase in connected devices, the risk of cyber threats also grows. Experts discussed strategies for ensuring IoT security, including encryption, authentication protocols, and device management systems to safeguard sensitive data.

In conclusion, the session provided valuable insights into the future of IoT, emphasizing its transformative potential across industries. Attendees gained a deeper understanding of how IoT is evolving with new technologies like 5G and AI and how they can leverage these advancements in their professional fields.



HOD

(Dr. Salma Banu)




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ACTIVITIES UNDER MOU

Academic Year: 2021-2022

M/S Felicet Infra Private Limited

Internship Report on Data Science

Internship Period: 8th November 2021 to 19th November 2021

Batch: III Year, 19-23 Batch

Company: Felicet Infra Private Limited

Mode: Online

Table of Contents

1. Introduction
2. Company Overview
3. Internship Objectives
4. Learning Outcomes
5. Tasks and Projects Undertaken
6. Tools and Technologies Used
7. Challenges Faced and Solutions
8. Conclusion
9. Acknowledgement

1. Introduction

This report details the experiences and learnings acquired during the two-week internship in Data Science, conducted by Felicet Infra Private Limited, from 8th November 2021 to 19th November 2021. As part of the III Year, 19-23 batch, I had the opportunity to delve into the core concepts of data science, including data analysis, data cleaning, machine learning, and various data visualization techniques.

The internship was conducted entirely online due to the ongoing COVID-19 pandemic, which provided flexibility but also required strong self-discipline and time management skills.



2. Company Overview

Felicet Infra Private Limited is a forward-thinking tech company specializing in providing innovative solutions in data science, machine learning, and artificial intelligence. The company focuses on helping businesses streamline their data processes and leverage the potential of advanced analytics. Felicet Infra offers a range of services, from consultancy to customized AI-based solutions, for various industries, including finance, healthcare, retail, and manufacturing.

Their data science team is composed of experts who work on cutting-edge technologies and constantly seek ways to innovate and optimize data-driven business strategies.

3. Internship Objectives

The primary objectives of the internship were:


- To gain hands-on experience in the field of data science.
- To learn how to clean, analyze, and interpret data using various tools and techniques.
- To understand how machine learning algorithms are applied to real-world data.
- To improve proficiency in data visualization and reporting.
- To explore the application of AI in business and industry.

4. Learning Outcomes

By the end of the internship, I was able to:

1. Understand the Data Science Workflow: From data collection to model deployment, I learned the end-to-end workflow of a typical data science project.
2. Data Preprocessing and Cleaning: I developed skills in handling raw data, addressing missing values, dealing with outliers, and transforming features to improve model accuracy.
3. Exploratory Data Analysis (EDA): I explored datasets using various statistical techniques and visualizations to identify patterns and insights, which are crucial for making informed decisions.
4. Machine Learning Algorithms: I learned how to implement several machine learning algorithms, including linear regression, decision trees, and clustering techniques.




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5. Data Visualization: I practiced using tools like Matplotlib and Seaborn to present data visually, making it easier to communicate complex insights.

6. Python Programming: I enhanced my Python programming skills, specifically with libraries such as Pandas, NumPy, Scikit-learn, and Matplotlib.

5. Tasks and Projects Undertaken

1. Data Cleaning and Preprocessing Project

In the initial phase of the internship, I worked on cleaning and preprocessing a real-world dataset. This involved handling missing data, encoding categorical variables, and scaling numerical features. The goal was to prepare the data for further analysis or machine learning models.

2. Exploratory Data Analysis (EDA)

I conducted exploratory data analysis on a given dataset to understand its characteristics. I used various visualization techniques, including histograms, box plots, and scatter plots, to identify relationships between variables. This phase helped me learn how to derive actionable insights from raw data.

3. Predictive Modeling with Machine Learning

I worked on building predictive models using supervised learning techniques. I applied algorithms like Linear Regression, Decision Trees, and Random Forests to predict the target variable of the dataset. I also learned how to evaluate model performance using metrics like accuracy, precision, recall, and the confusion matrix.

4. Visualization Dashboard

Towards the end of the internship, I created a simple data visualization dashboard using Python (Matplotlib and Seaborn). This dashboard displayed key statistics and insights from the dataset, providing a user-friendly interface to explore the data.

6. Tools and Technologies Used

During the internship, I had the opportunity to work with several tools and technologies that are essential in the data science domain:

- Python: The primary programming language used for data manipulation, analysis, and machine learning.
- Pandas: For data manipulation and cleaning.
- NumPy: For numerical operations and matrix manipulations.
- Scikit-learn: For implementing machine learning models and algorithms.



- Matplotlib/Seaborn: For data visualization.
- Jupyter Notebook: Used for writing and executing Python code interactively

7. Challenges Faced and Solutions

1. Challenge: Data Quality Issues

Initially, I encountered datasets with missing values and inconsistent formatting, which made it difficult to analyze the data. To resolve this, I researched different techniques for handling missing data (imputation vs. deletion) and applied appropriate methods based on the dataset's nature.

2. Challenge: Understanding Machine Learning Models

While I was familiar with the theoretical concepts of machine learning, applying them to real-world problems presented a challenge. I overcame this by dedicating extra time to practice coding and reviewing case studies of how companies use these models in practice.

3. Challenge: Time Management

Since the internship was online and self-paced, managing time effectively was challenging. I created a structured schedule to balance the internship tasks with my academic responsibilities, ensuring that I met deadlines while maintaining focus on the quality of my work.

8. Conclusion

The two-week internship at Felicet Infra Private Limited was an enriching experience that provided me with a comprehensive understanding of data science. I not only gained theoretical knowledge but also acquired practical skills by working on real-world datasets and using industry-standard tools and techniques. The exposure to machine learning algorithms, data cleaning, and visualization has significantly enhanced my technical skills and prepared me for future challenges in the field of data science.



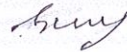
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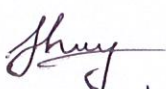
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Asst.Prof G. Sultana Begum


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ACTIVITIES UNDER MOU



ACADEMIC YEAR: 2021-2022

Infocare Engineering Services Private Limited

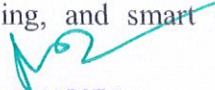
The Department of Electrical and Electronics Engineering organized a training program on current challenges and “**Advancements in IoT security**” by Mr. Abdul Rahman, Network Engineer, Info care Engineering Services Private Limited on 22-04-2022 from 11.00 a.m to 12.30 p.m for III year EEE students. A total of 24 students participated.



Fig: Training program on current challenges and advancements in IoT security

The training program on “**Advancements in IoT Security**” focused on the latest strategies and technologies for securing the rapidly expanding Internet of Things (IoT) ecosystem. As IoT devices become more integrated into critical sectors like healthcare, manufacturing, and smart cities,



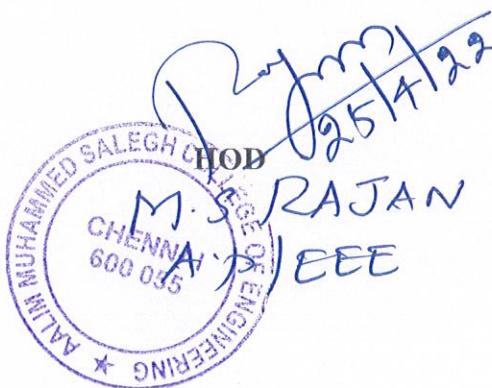

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security has emerged as a primary concern. The session, aimed at developers, IT professionals, and security experts, explored the key challenges and solutions for protecting connected devices and data.

The session covered the importance of encryption for safeguarding data in transit and at rest. Experts discussed end-to-end encryption and secure communication protocols such as MQTT and CoAP, which are vital for secure IoT data transmission. Additionally, device authentication and identity management were highlighted as essential measures to ensure only authorized devices can access IoT networks.

AI and machine learning were identified as key tools for real-time threat detection, enabling IoT networks to identify and respond to security threats dynamically. Edge computing was also discussed as a way to enhance security by processing data closer to the source, reducing risks from centralized cloud storage.

The session emphasized the importance of security by design, urging IoT developers to integrate robust security features at every stage, from device creation to deployment and maintenance. Participants left with actionable insights on enhancing IoT security in the face of evolving cyber threats.





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ACTIVITIES UNDER MOU

Academic Year: 2021-2022

Infocare Engineering Services Private Limited

INTERNSHIP REPORT ON SQL TRAINING

Conducted by Infocare Engineering Services Private Limited

For IV Year CSE Students (Batch: 2019-2023)

Period: 18th April 2022 to 22nd April 2022

Online Mode

1. Introduction

This report presents the details of the SQL Internship organized by Infocare Engineering Services Private Limited for the IV Year Computer Science and Engineering (CSE) students of the 2019-2023 batch. The internship was conducted online from 18th April 2022 to 22nd April 2022. The primary objective of this internship was to provide students with hands-on exposure to SQL (Structured Query Language) and database management concepts, allowing them to apply theoretical knowledge to practical scenarios.

2. About Infocare Engineering Services Private Limited

Infocare Engineering Services Private Limited is a well-established technology services company specializing in database management, software development, and IT consulting. The company offers training programs aimed at enhancing the skills of students and professionals in the fields of database systems, programming, and IT solutions. Their expertise in the IT sector helped provide a highly informative and practical internship experience for the students.

3. Objectives of the Internship

The internship aimed to achieve the following objectives:




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- To introduce students to SQL, a key language for working with relational databases.
- To teach students the fundamentals of querying and manipulating data using SQL.
- To provide a deeper understanding of database design, normalization, and the efficient management of databases.
- To equip students with the skills necessary for working with relational database management systems (RDBMS) like MySQL, PostgreSQL, or Oracle.

4. Internship Modules and Topics Covered

The internship was divided into five modules, each focusing on different aspects of SQL and database management. Below is a detailed overview of each module, the topics covered, and the learning outcomes.

Module 1: Introduction to Databases and SQL Basics


Topics Covered:

- Introduction to databases and RDBMS (Relational Database Management Systems)
- Basic structure of SQL: Database, Tables, Records, and Fields
- Types of SQL statements: DDL (Data Definition Language), DML (Data Manipulation Language), DCL (Data Control Language), and TCL (Transaction Control Language)
- Database schema and its components

Learning Outcomes:

- a. Students gained a foundational understanding of databases, including how databases store and organize data.
- b. They learned about different types of SQL statements and their applications in managing databases.
- c. Students understood the role of SQL in creating, modifying, and querying databases.




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Module 2: Data Definition and Data Manipulation

Topics Covered:

- SQL Data Definition Language (DDL): 'CREATE', 'ALTER', and 'DROP' commands
- SQL Data Manipulation Language (DML): 'INSERT', 'UPDATE', 'DELETE', and 'SELECT'
- Modifying database schema by adding, removing, or altering tables and fields
- Working with primary keys and foreign keys to maintain data integrity

Learning Outcomes:

- Students were able to create and modify tables using SQL DDL commands.
- They gained experience inserting, updating, and deleting records in SQL tables using DML commands.
- They learned how to define and manage relationships between tables using primary and foreign keys.

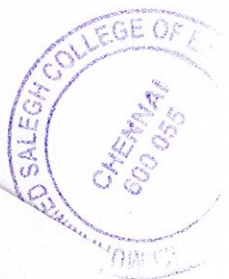
Module 3: Advanced SQL Queries and Functions

Topics Covered:

- Advanced SELECT queries: Using 'WHERE', 'GROUP BY', 'ORDER BY', 'HAVING'
- Aggregate functions: 'COUNT()', 'SUM()', 'AVG()', 'MIN()', 'MAX()'
- Using logical operators: 'AND', 'OR', 'NOT'
- Using functions like 'UPPER()', 'LOWER()', 'CONCAT()', 'LEN()', etc.
- Subqueries: Writing inner queries to solve complex problems

Learning Outcomes:

- Students learned to write complex SQL queries to filter, sort, and group data effectively.
- They gained hands-on experience with aggregate functions to summarize data.




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- They understood how to use subqueries for extracting data from one query result and using it in another query.

Module 4: Joins and Relationships between Tables

Topics Covered:

- SQL Joins: 'INNER JOIN', 'LEFT JOIN', 'RIGHT JOIN', 'FULL JOIN'
- Combining data from multiple tables using joins
- Difference between INNER JOIN, OUTER JOIN, and CROSS JOIN
- Self Joins and applying aliases to improve query readability
- Advanced Join conditions and using multiple joins in a single query

Learning Outcomes:


- Students learned how to combine data from different tables using various types of joins.
- They understood the differences between different joins and when to use them based on query requirements.
- Students became proficient in writing complex queries with multiple joins and applying aliases for better query readability.

Module 5: Database Design and Normalization

Topics Covered:

- Database design fundamentals: ER diagrams, entities, attributes, and relationships
- Concept of normalization: 1NF, 2NF, 3NF, and BCNF
- Reducing data redundancy and improving database integrity through normalization
- Dealing with database anomalies (insert, update, and delete anomalies)
- Using primary and foreign keys to enforce relationships and data integrity




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Learning Outcomes:

- Students were able to design efficient relational databases using ER diagrams and apply normalization principles to ensure optimal database structure.
- They understood how to avoid common database design problems like data redundancy and anomalies.
- Students became proficient in applying normalization rules (1NF, 2NF, 3NF) to design relational databases with minimal redundancy.

5. Training Methodology

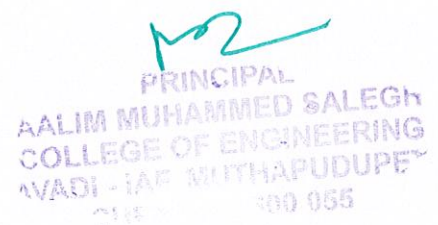
The internship was conducted in online mode, using video conferencing tools and interactive sessions. The training methodology included:

- Live Webinars: The sessions were delivered by industry experts from Infocare Engineering Services, explaining the theoretical concepts behind SQL queries, database management, and optimization techniques.
- Hands-on Practice: Students were provided access to SQL platforms (e.g., MySQL Workbench, PostgreSQL) to implement and test the queries they learned.
- Assignments and Exercises: Regular assignments were given to reinforce the topics discussed in each module. Students were required to submit their solutions for evaluation.
- Quizzes and Assessments: Periodic quizzes were conducted to assess the understanding of each module, helping students revise and consolidate their knowledge.

6. Outcomes and Evaluation

At the end of the internship, students were evaluated based on:

- Assignments: Each module had associated assignments that tested the students' practical skills and ability to write complex SQL queries.
- Mini Project: As a final evaluation, students were tasked with creating a simple database application, designing its schema, and writing SQL queries to manipulate and retrieve data.



- Final Exam: The final exam tested both theoretical knowledge and practical application of SQL concepts through multiple-choice questions, short answers, and SQL problem-solving exercises.

The SQL internship organized by Infocare Engineering Services Private Limited was highly beneficial for the students of the IV Year CSE batch. The training covered both the theoretical aspects of SQL and provided valuable hands-on experience in writing queries and designing databases. Students gained a strong foundation in SQL and its application, equipping them with the necessary skills for real-world database management and development.

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Asst. Prof. G. Sultana Begum

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Date: 26-04-2022

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This is to certify that **NAWAZ** of Aalim Muhammed Salegh College of Engineering, Avadi – IAF has successfully completed internship program “SQL” Course conducted from **18-04-2022 TO 22-04-2022**


With Regards

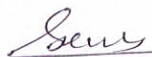



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ACTIVITIES UNDER MOU

Academic Year: 2021-2022

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The Department of Information Technology organized a placement program on the topic **"Latest Job Opportunities Available in the IT Sector"** by **Er. Habib Mohammed, Team Lead, Barclays International Bank** on 18-02-2022 at 11.00 a.m. A total of 74 students attended the session. The students gave their valuable feedback.



Fig: Placement training on Latest Job Opportunities Available in the IT Sector



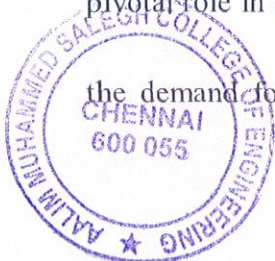
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The placement training program on **"Latest Job Opportunities Available in the IT Sector"** was organized to provide students and professionals with valuable insights into the rapidly evolving job market within the information technology (IT) industry. The event, held over a single session, brought together industry experts, career counselors, and IT professionals to discuss the latest trends, emerging roles, and the skills required to secure a job in this dynamic sector.

The session began with an overview of the current state of the IT industry, emphasizing its pivotal role in driving global innovation and economic growth. Industry leaders highlighted that

the demand for skilled IT professionals continues to rise, particularly in areas like software



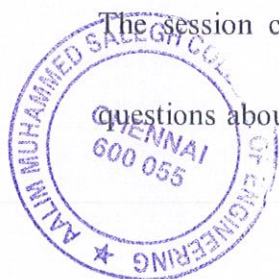
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development, data science, cybersecurity, cloud computing, artificial intelligence (AI), and blockchain. The speakers stressed that the IT sector remains one of the most diverse and rapidly growing fields, offering numerous career opportunities for both fresh graduates and experienced professionals.

Keynote speakers provided detailed insights into emerging job roles within the IT industry. Positions such as data analysts, cloud architects, AI engineers, cybersecurity specialists, and DevOps engineers were identified as some of the most in-demand roles. The session also covered the growing significance of technical certifications and specialized training programs in securing these roles. Experts emphasized the importance of staying updated with the latest technological trends and pursuing continuous learning to remain competitive in the job market.

In addition to technical roles, the session addressed the increasing need for soft skills, such as effective communication, teamwork, and problem-solving, which are highly valued in IT positions. Professionals shared their personal experiences, offering practical advice on how to stand out in the job search process, prepare for interviews, and build a strong professional network.


The session concluded with a Q&A session, where participants had the opportunity to ask questions about specific job roles, career paths, and the qualifications needed to pursue a career





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in the IT sector.

In conclusion, the session successfully provided attendees with a comprehensive understanding of the latest job opportunities in the IT industry. Participants left with practical knowledge on the skills and qualifications required to succeed, as well as insights into the future of the IT job market.


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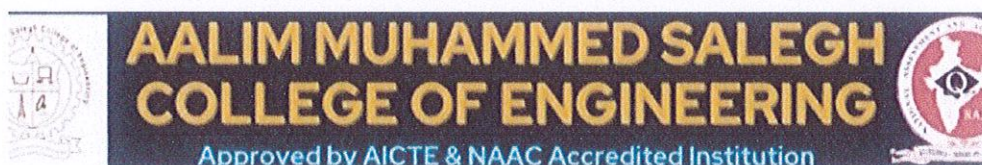
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ACTIVITIES UNDER MOU

Academic Year: 2021-2022

Vanaaspire Private Limited



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

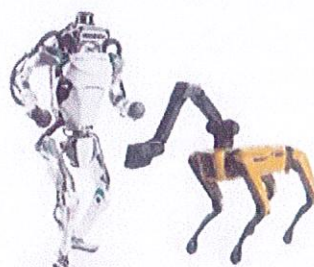
ONE DAY TRAINING PROGRAM ON

ROBOTICS USING ARDUINO

Resource person
MR.S.SENTHIL KUMAR

DATE:09-03-2022

**Time: 2.30 p.m to
3.50 p.m**



Prof. M.S. Rajan
HOD/EEE

Prof.Dr.S.Sathish
Principal

Alhaj S Segu Jamaludeen
Secretary & Correspondent

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The Department of Electrical and Electronics Engineering organized a one day training program on **“Robotics using Arduino”** by Mr. S. Senthil Kumar, Vannaspire Private Limited on 22-04-2022 from 11.00a.m to 12.30 p.m for IV year EEE and ECE students. A total of 42 students participated.

Training Program Summary Report: "Robotics using Arduino"

The one-day training program on **“Robotics using Arduino”** aimed to introduce participants to the basics of robotics and how to use Arduino, an open-source microcontroller platform, to design and build simple robotic systems. The session was designed for beginners, including students, engineers, and tech enthusiasts, who wanted to learn how to integrate electronics and programming to create robotic applications.

The training began with an overview of robotics, explaining the key components required to build a robot, such as sensors, actuators, and control systems. The instructor introduced the Arduino platform, explaining how it works, its capabilities, and why it's widely used for robotics projects due to its simplicity and flexibility. Participants learned how to set up the Arduino IDE (Integrated Development Environment), program microcontrollers, and upload code to the Arduino board.



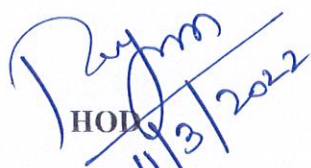


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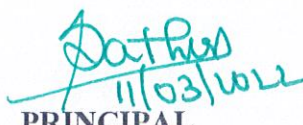

The first practical exercise involved basic circuit building, where participants learned how to connect and use essential components like motors, servo motors, sensors (such as ultrasonic distance sensors), and LEDs with the Arduino board. The hands-on session provided participants with a solid understanding of the principles behind input/output devices, PWM (Pulse Width Modulation), and sensor interfacing.

The second part of the training focused on building a simple robotic project. Participants were guided through the process of constructing a basic line-following robot. They learned how to program the Arduino to process sensor data and control the movement of motors to follow a predefined path. The instructor demonstrated the integration of motor drivers and sensor calibration techniques.

The program concluded with a Q&A session, where participants had the opportunity to clarify doubts and discuss potential project ideas.

In conclusion, the Robotics using Arduino training program successfully equipped participants with foundational knowledge in both robotics and Arduino programming. By the end of the session, attendees were able to create their own simple robotic systems and had the skills to pursue more advanced robotics projects in the future.


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ACTIVITIES UNDER MOU

Academic Year: 2021-2022

Vanaaspire Private Limited

INTERNSHIP REPORT ON TENSORFLOW TRAINING

Conducted by Vanaaspire Private Limited

For IV Year CSE Students (Batch: 2019-2023)

Period: 6th December 2021 to 10th December 2021

Online Mode


1. Introduction

This report provides an overview of the TensorFlow Internship conducted by Vanaaspire Private Limited for the IV Year Computer Science and Engineering (CSE) students of the 2019-2023 batch. The internship was held online from 6th December 2021 to 10th December 2021. The purpose of the internship was to introduce students to TensorFlow, one of the most widely-used open-source frameworks for building machine learning (ML) and deep learning (DL) models. Students were given practical exposure to the tools and techniques required to build and deploy machine learning models using TensorFlow.

2. About Vanaaspire Private Limited

Vanaaspire Private Limited is a leading technology consulting firm specializing in artificial intelligence (AI), machine learning (ML), and data science. With a strong emphasis on hands-on training and industry-oriented projects, Vanaaspire provides comprehensive courses in cutting-edge technologies. The company's training programs are designed to bridge the gap between academic knowledge and practical skills, making them a popular choice for students aiming to pursue careers in AI, ML, and data analytics.




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3. Objectives of the Internship

The key objectives of the internship were:

- To introduce students to TensorFlow, a popular open-source machine learning framework developed by Google.
- To provide practical exposure to building and deploying machine learning and deep learning models using TensorFlow.
- To enhance students' understanding of concepts like neural networks, convolutional neural networks (CNNs), natural language processing (NLP), and other advanced machine learning techniques.
- To equip students with the skills necessary for implementing machine learning solutions in real-world applications.

4. Internship Modules and Topics Covered

The internship was divided into five modules, each focusing on different aspects of TensorFlow and machine learning. Below is a detailed description of each module, the topics covered, and the learning outcomes.

Module 1: Introduction to TensorFlow and Machine Learning Concepts


Topics Covered:

- Introduction to TensorFlow and its ecosystem
- Overview of machine learning: Types of machine learning (supervised, unsupervised, reinforcement learning)
- TensorFlow vs. other ML frameworks (PyTorch, Keras)
- TensorFlow architecture and basic concepts: Tensors, Variables, and Operations
- Setting up TensorFlow in a Python environment and basic operations

Learning Outcomes:

- Students learned the basic structure and operations of TensorFlow.




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- They became familiar with TensorFlow's architecture, including tensors, which are the core data structures in machine learning models.
- Students gained knowledge about the differences between various ML frameworks and how TensorFlow fits into the machine learning pipeline.

Module 2: Working with TensorFlow for Data Processing

Topics Covered:

- TensorFlow Data API: Understanding `tf.data` pipeline for input data handling
- Data preprocessing techniques: Normalization, Scaling, One-Hot Encoding
- Working with datasets using TensorFlow, loading, and transforming data for training
- Image data: Preprocessing images and preparing datasets for convolutional neural networks (CNNs)
- Text data: Tokenization, vectorization, and preprocessing text data for NLP models

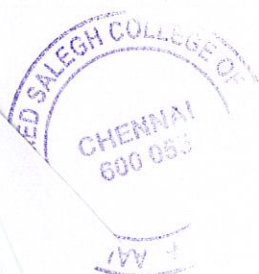
Learning Outcomes:


- Students learned how to preprocess and handle data effectively using TensorFlow's built-in tools.
- They became proficient in loading and transforming datasets into formats suitable for training machine learning models.
- Students gained hands-on experience in processing both image and text data for machine learning tasks.

Module 3: Building Neural Networks with TensorFlow

Topics Covered:

- Introduction to Neural Networks: Perceptrons, Layers, Activation functions (ReLU, Sigmoid, Tanh)
- Constructing basic feed forward neural networks (FNN) using TensorFlow's Keras API
- Training a neural network: Loss functions, Back propagation, and Gradient Descent
- Optimizers: Adam, SGD, and others
- Evaluating model performance using metrics like accuracy, precision, recall, and F1-score




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Learning Outcomes:

- Students learned how to build, train, and evaluate basic neural networks using TensorFlow.
- They gained a deep understanding of how back propagation and gradient descent are used to optimize models.
- Students practiced evaluating the performance of neural networks and improving their accuracy.

Module 4: Convolutional Neural Networks (CNNs) for Image Classification**Topics Covered:**

- Introduction to Convolutional Neural Networks (CNNs) and their applications in image classification
- Layers in CNNs: Convolutional layers, Pooling layers, Fully connected layers
- Building and training CNN models with TensorFlow and Keras
- Data augmentation techniques for image data
- Transfer learning: Using pre-trained models for image classification tasks (e.g., VGG16, ResNet, Inception)

Learning Outcomes:

- Students learned how CNNs work and how they can be used for image recognition tasks.
- They built their own CNN models for image classification and applied techniques like data augmentation to improve performance.
- Students also explored transfer learning, where pre-trained models are fine-tuned for specific tasks, saving time and computational resources.

Module 5: Advanced Topics: Natural Language Processing (NLP) with TensorFlow**Topics Covered:**

- Introduction to Natural Language Processing (NLP) and common NLP tasks
- Tokenization, Word Embeddings (Word2Vec, GloVe)
- Building Recurrent Neural Networks (RNNs) and Long Short-Term Memory (LSTM) networks for sequence modeling
- Using TensorFlow for text classification and sentiment analysis

- Fine-tuning models for NLP tasks using pre-trained models (e.g., BERT, GPT)

Learning Outcomes:

- Students learned how to apply deep learning techniques, including RNNs and LSTMs, to NLP tasks such as text classification and sentiment analysis.
- They gained hands-on experience with TensorFlow for building NLP models and using pre-trained embeddings.
- Students also learned how to fine-tune models for specific NLP applications.

5. Training Methodology

The internship was conducted online using video conferencing tools and Jupyter notebooks. The methodology included:

- Live Sessions: Each module was taught through live webinars where instructors demonstrated key concepts and provided real-time coding examples.
- Hands-on Practice: Students were given access to Jupyter notebooks and Google Colab for coding exercises, allowing them to implement TensorFlow models and perform real-time experiments.
- Assignments: At the end of each module, students completed assignments designed to reinforce the concepts learned. These assignments included building and evaluating different machine learning models.
- Capstone Project: At the end of the internship, students were required to build a deep learning model for a given problem using TensorFlow. This allowed students to apply their learning to a real-world scenario and demonstrate their proficiency in the framework.

6. Outcomes and Evaluation

The internship was evaluated based on:

- Assignments: Regular assignments tested students' ability to apply TensorFlow concepts in building machine learning models.
- Capstone Project: The final project required students to build a deep learning model, complete with data preprocessing, model training, and evaluation.




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- Quizzes: Short quizzes were conducted after each module to test the students' theoretical understanding of TensorFlow and machine learning concepts.
- Final Assessment: A final exam assessed both practical skills and theoretical knowledge covered during the internship.

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EMAIL ID: vanaaspire2017@gmail.com WEBSITE: www.vanaaspire.com


Date: 14-12-2021

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EMAIL ID: vanaaspire2017@gmail.com WEBSITE: www.vanaaspire.com


Date: 14-12-2021

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