



SJM Vidyapeetha®
S J M INSTITUTE OF TECHNOLOGY
NH-4 Bypass, P.B.No:73, CHITRADURGA -577502, Karnataka



INSTITUTION'S INNOVATION COUNCIL (IIC)



Report

on

*Design Thinking, Critical Thinking and
Innovation Design*

Theme: Innovation



2023-24



SJM VIDYAPEETHA®
S J M INSTITUTE OF TECHNOLOGY
Chitradurga
NH-4 Bypass, P.B.No:73, CHITRADURGA-577502,
NAAC Accredited



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

In Association with IQAC & IIC



Internal
Quality
Assurance Cell



**INSTITUTION'S
INNOVATION
COUNCIL**
(University of Education Initiative)

Organizing One Day Workshop
On

Design Thinking, Critical Thinking and Innovation Design

Theme: Innovation

DATE:22/02/24

TIME:10:00AM

VENUE: EEE SEMINAR HALL

Resource Person

Mr. Shivaraj V S

Product Application Manager

Abevaatrix Softlab OPC Pvt Ltd,-Davangere

Dr.Bharath PB

**Principal & President-IIC
SJMIT**

**Prof.Sanjay Kumar K
Prof.Madhukumar D
Coordinators**

**Dr.Kumareswamy B G
Professor & Head**

**Dr.Krishnareddy K R
IIC Convener**

**Dr.Jagannatha N
IQAC Coordinator**

Topic: Design Thinking, Critical Thinking and Innovation Design

Theme: Innovation

Objectives of the Event:

1. To encourage students for innovative ideas.
2. To brief students to understand the Design Thinking and innovative ideas.
3. To provide knowledge about the innovative ideas to implement in projects.

Speaker: Mr. Shivaraj V S, Product Application Manager Abeyaantrix Softlab OPC Pvt Ltd,-
Davanagere

Speaker Profile:

Educational Qualification:

B.E in Electrical & Electronics Engineering, from VTU, Belgaum.

M.Tech in Energy Systems and Management from VTU Belgaum.

Experience Summary:

- Worked as Embedded trainer/Robotic Engineer at Space Development Nexus, Delhi.
- Worked as Embedded trainer/Renewable Energy Engineer in Lucknow Innovation lab, Lucknow.
- Working as Product Application Manager at Abeyaantrix Softlab OPC Pvt Ltd, Davanagere from August 2018 to till date.
- Training delivery to various Corporates as well as in-house training delivery to students on various platforms such as Solar Photovoltaic, MATLAB/SIMULINK , Electrical circuit Simulation, Robotics, PLC, VFD, HMI, Embedded system, Renewable energy Sources, Rain Water harvesting etc.
- Conducted Workshops and SDP 's at various Indian Engineering Colleges.
- A team player with good communication skills, Quick Learning ability, Adaptability to change, hardworking and self-motivated.

Skills Summary:

- Delivered training and workshops to engineering colleges and Corporates in India which includes
- colleges like JIT Davanagere, UBDT, BIET Davanagere, STJIT Ranebennur, SJMIT Chitradurga, Govt
- Engineering college, SIT Tumkur, HMSIT Tumkur, HSIT Belagum and corporates like Sparx Crew Technologies U.P, TechEx Engineers Lucknow, SDNx Delhi.

- Algorithm and projects development based on MATLAB/SIMULINK
- Conducted Special training programs on Electrical Circuit Simulation using MATLAB/SIMULINK,
- Simscape electrical library and SimPower Systems.
- Technical Notes preparation on Renewable Energy, MATLAB, PLC, Arduino.

Software and Hardware tools knowledge:

Software Languages : C, Embedded C, MATLAB, Ladder Programming

Software Tools : MATLAB/SIMULINK, Arduino IDE, fusion 360, ISPSOft

Hardware Tools : Microcontrollers: ATMEGA,ARM, Delta PLC.

Documentation : MS-Office, MS-word, PowerPoint.

Projects :

- Guided 20 engineering projects on MATLAB and SIMULINK.
- Good knowledge on MATLAB scripting, SIMULINK block sets, physical system block,
- Simpower system toolboxes.
- Design and fabrication of Multipurpose agricultural robot. Selected for KSCST 2022.
- Hybrid power generation with solar and wind energy. Selected for KSCST 2022.
- Multi-purpose Agricultural protection and Rain water harvesting. National level INSPIRE AWARD Project 2021.
- 60+ Embedded System and Robotics Projects.

Brief Report of the Event:

The Department of Electrical and Electronics Engineering, SJM Institute of Technology has organised one day Workshop On “**Design Thinking, Critical Thinking and Innovation Design**” in association with Institution’s innovation council (IIC) and IQAC. This report provides an overview of the Design Thinking, Critical Thinking and Innovation Design Workshop for students and faculty members on the theme of innovation. This theme emphasizes to encourage students for innovative ideas.

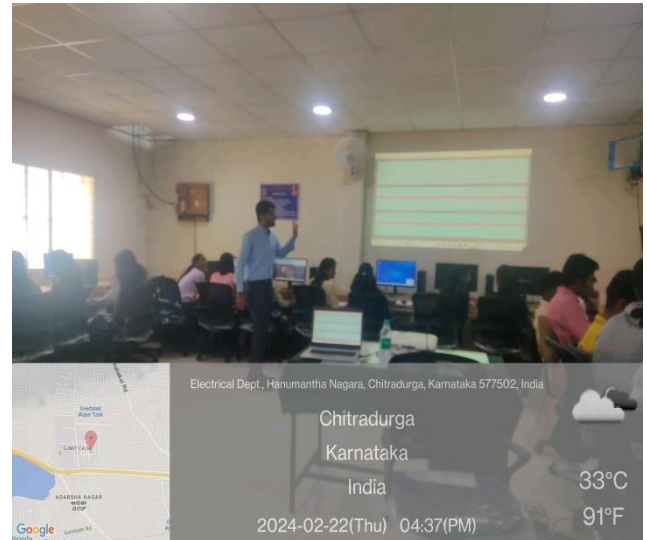
On 22nd February 2024, " Design Thinking, Critical Thinking and Innovation Design Workshop" was organized at S J M Institute of Technology, Chitradurga, Karnataka. The event lasted from 10:00 am. to 05:00 pm, where students and faculty actively participated.

The event started with a warm welcome to all the attendees by Prof.Madhukumar Davanagere, faculty member, IIC, and with an inaugural ceremony in the presence of the resource person, Mr.Shivaraj V S, Product Application Manager Abeyaantrix Softlab OPC Pvt Ltd,- Davanagere. Guest of Honour, Principal - Dr.Bharath P B, Dr.Kumarswamy B G, Prof.& Head, Department of Electrical and Electronics Engineering, Dr. Jagannath N, IQAC coordinator, Dr. Krishna Reddy K R, IIC Convener and Prof.Sanjay Kumar K, Programme Coordinator.

Later the session was taken over by the eminent resource person to deliver his speech on **“Design Thinking, Critical Thinking and Innovation Design”**



Morning Session



Afternoon Session

Sessions by Mr. Shivaraj V S

Resource Person

The presentation is focused on encourage students to understand the Design thinking to look for innovative ideas in future projects implementation.

Key areas of his discussion are:

- Understand the Design Thinking
- Sources and procedure to apply innovative ideas.

The presentation ended with a questions and answers session with the attendees. Prof. Madhukumar Davanagere, Faculty member, IIC, concluded the programme by delivering a vote of thanks.

Conclusion:

The "Design Thinking, Critical Thinking and Innovation Design" Workshop aimed to inspire individuals. It highlighted to understand Design Thinking to look for innovative ideas. The event has attracted a great response from the students. About 50 students and staff registered and successfully completed the workshop.

Participant's Details: [Attendance Sheet]

SJM Vidyapeetha®

SJ M INSTITUTE OF TECHNOLOGY, Chitradurga
Institution Innovation Council (IIC)
IIC Calender Activity Q2-IIC6.0(AIY2023-24)

Activity Name: "Design Thinking, Critical Thinking and Innovation Design"

List of Participants Registered DATE: 22.02.24

Sl. No.	Participant Name	Designation (Student/Faculty)	Branch	Phone No.	Signature
01	Dr. Manjunatha S.C.	✓	EEE	9886442188	[Signature]
02	Sanjay Kumar, K	✓	EEE	9844871414	[Signature]
03	Madhukumar, D	✓	EEE	8618789232	[Signature]
04	Dr. Kumara Gowda	✓	EEE	8618804468	[Signature]
05	Chandrasekhar Kulk	✓	EEE	9886254612	[Signature]
06	Sushmita	✓	EEE	8317310497	[Signature]
07	Sudha, T	✓	EEE	9980992257	[Signature]
08	Noor Fathima	✓	EEE	8095862817	[Signature]
09	PANDU S	✓	EEE	9353715420	[Signature]
10	Rafan, H	✓	EEE	744237558	[Signature]
11	Chaitanya V	✓	EEE	7259630906	[Signature]
12	Kaushika, S	✓	EEE	4022209100	[Signature]
13	Meghana P.V	✓	EEE	7975136691	[Signature]
14	Afreen Banu IY	✓	EEE	8360463855	[Signature]
15	Nirithashree, B	✓	EEE	7676035883	[Signature]
16	Pooja, P	✓	EEE	636206320	[Signature]
17	Niranjana H.N	✓	EEE	8864426781	[Signature]
18	HASNAIN Taj,	✓	EEE	9880657865	[Signature]
19	Niveditha S	✓	EEE	8884631192	[Signature]
20	Qisraath ul caim	✓	EEE	861899868	[Signature]
21	Rachana, M	✓	EEE	831023882	[Signature]
22	Sampadha D, J	✓	EEE	2431702474	[Signature]
23	Supra K, T	✓	EEE	6360246531	[Signature]
24	Divyashree, S	✓	EEE	8553872855	[Signature]
25	Vinoda, B.O	✓	EEE	8197415801	[Signature]

26	Shubhashree, G	✓	EEE	9449581393	[Signature]
27	Priyanka - S.N.	✓	EEE	780408700	[Signature]
28	Abhishek H B	✓	EEE	7483347146	[Signature]
29	SHRIDHAR, R	✓	EEE	9819687971	[Signature]
30	BHARATH, HG	✓	EEE	636377704	[Signature]
31	Abhishek, P	✓	EEE	636222609	[Signature]
32	Ankitha, S	✓	EEE	7676955270	[Signature]
33	Nismaya, M.S	✓	EEE	8494951457	[Signature]
34	Kesav Malan, C	✓	EEE	6360781062	[Signature]
35	Ramya, R	✓	EEE	9731056642	[Signature]
36	Rekha Singh NA	✓	EEE	7676737532	[Signature]
37	Gowri bangaru	✓	EEE	8867547828	[Signature]
38	Gyanesh, M	✓	EEE	6360098919	[Signature]
39	Ajay, M.M	✓	EEE	8867330377	[Signature]
40	Bharath, B	✓	EEE	636222609	[Signature]
41	Sudheep, T	✓	EEE	9353534209	[Signature]
42	Bheemraj, R	✓	EEE	7676705255	[Signature]
43	P. RAJU	✓	EEE	7495260199	[Signature]
44	Manikanta, N	✓	EEE	7019143470	[Signature]
45	Sanjay, P.V	✓	EEE	819306016	[Signature]
46	Shil, B	✓	EEE	8888860411	[Signature]
47	Pragya, K	✓	EEE	9353178220	[Signature]
48	Dharmajay, S	✓	EEE	701060702	[Signature]
49	Mohith, R.O	✓	EEE	836265777	[Signature]
50	Rajesh, S	✓	EEE	734904520	[Signature]

[Signature]
22/02/24,
(Prof. Madhukumar, D)

[Signature]
Head of the Dept.
Electrical & Electronics Engg.
S.J.M.I.T., Chitradurga-577 602

Photographs of the Event:



Inauguration



Speech by Principal



Speech by HOD,EEE Department.



Students & Faculty Members



Group Photo

Key Outcome:

1. It successfully raised understanding the Design Thinking, Critical thinking for innovative ideas among individuals.
2. It motivated individuals to think innovative ideas for future projects.

These outcomes of the “Design Thinking, Critical Thinking and Innovation Design” Workshop on the theme “Innovation” demonstrate the transformative impact and inspiring students for innovative projects.

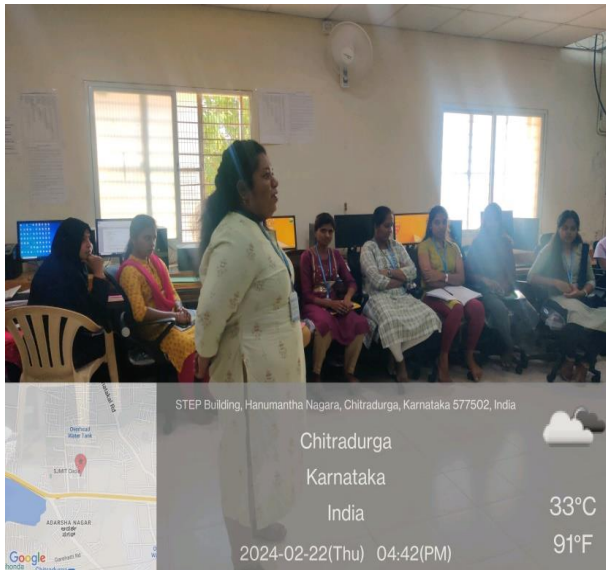
ಕನ್ನಡಪ್ರಭ



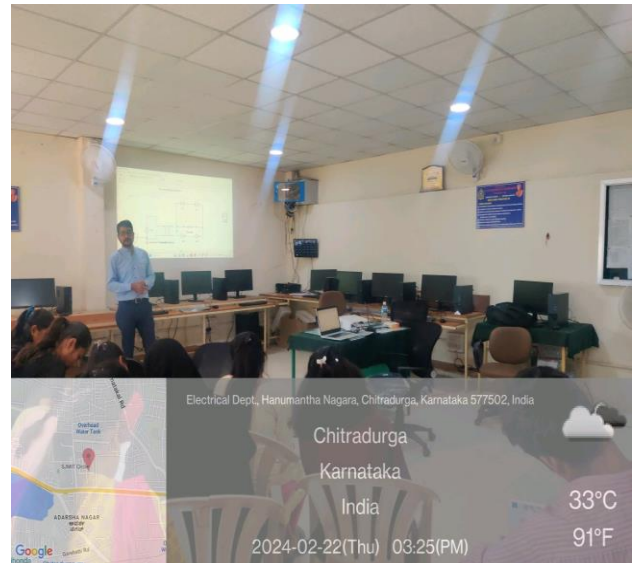
ಡಿಸೈನ್ ಕಾರ್ಯಾಗಾರ

ಚಿತ್ರದುರ್ಗ: ನಗರದ ಎಸ್‌ಜಿಎಂ ತಾಂತ್ರಿಕ ಮಹಾ ವಿದ್ಯಾಲಯದಲ್ಲಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ ಮತ್ತು ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ವಿಭಾಗದವತಿಯಿಂದ ಆಯೋಜಿಸಿದ್ದ ಡಿಸೈನ್ ಥಿಂಕಿಂಗ್, ಕ್ರಿಟಿಕಲ್ ಥಿಂಕಿಂಗ್ ಮತ್ತು ಇನ್ನೋವೇಷನ್ ಡಿಸೈನ್ ವಿಷಯದ ಕಾರ್ಯಾಗಾರವನ್ನು ಪ್ರಾಚಾರ್ಯ ಡಾ. ಭರತ್ ಉದ್ಘಾಟಿಸಿದರು. ಈ ವೇಳೆ ಮಾತನಾಡಿದ ಅವರು ಪ್ರಸ್ತುತ ಲಭ್ಯವಿರುವ ವಿವಿಧ ವಿನ್ಯಾಸಗಳನ್ನು ಇನ್ನು ಉತ್ತಮ ರೀತಿಯಲ್ಲಿ ಅಭಿವೃದ್ಧಿ ಪಡಿಸಿ ನವೀನ ರೂಪನೀಡಬಹುದು. ಮ್ಯಾಟ್ ಲ್ಯಾಬ್ ತಂತ್ರಾಂಶದ ಮೂಲಕ ಎಲೆಕ್ಟ್ರಿಕಲ್ ಕ್ಷೇತ್ರದ ವಿವಿಧ ವಿನ್ಯಾಸಗಳ ಬಗ್ಗೆ ಮಾಹಿತಿನೀಡಲಾಗುತ್ತಿದೆ ಎಂದರು. ಎಲೆಕ್ಟ್ರಿಕಲ್ ಮತ್ತು ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಕುಮಾರ ಸ್ವಾಮಿ, ಅಭಯಾನ್ ಟ್ರಿಕ್ಸ್ ಸಾಫ್ಟ್ ಲ್ಯಾಬ್‌ನ ಶಿವ ರಾಜ್, ಇನ್ನೋವೇಷನ್ ಘಟಕ ಸಂಚಾಲಕ ಡಾ. ಕೃಷ್ಣಾರಡ್ಡಿ, ಉದ್ಯೋಗ ಮತ್ತು ತರಬೇತಿ ಅಧಿಕಾರಿ ಡಾ. ಅರವಿಂದ, ಸಂಚಾಲಕ ಪ್ರೊ. ಸಂಜಯ್ ಕುಮಾರ್.ಕೆ, ಪ್ರೊ. ಮಧುಕುಮಾರ್ ಇದ್ದರು.

Feedback:



Student Feedback

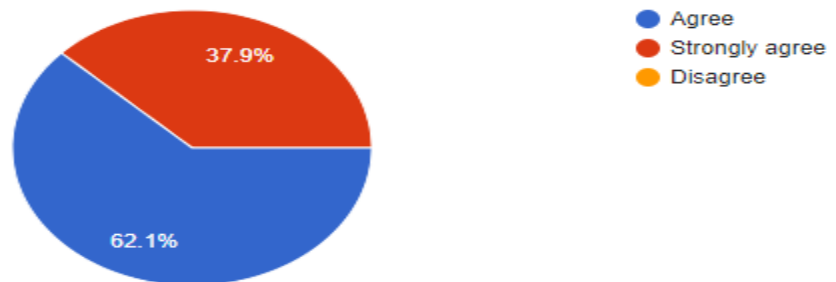


Feedback from Resource Person

The participants expressed that workshop on **Design Thinking, Critical Thinking and Innovation Design** was very informative and many of them got idea how to understand the problems, think and look for innovative solutions for future projects. They were satisfied and expressed that more of such workshops should be organized in future.

1. How relevant was the topics discussed and beneficial to participants

29 responses



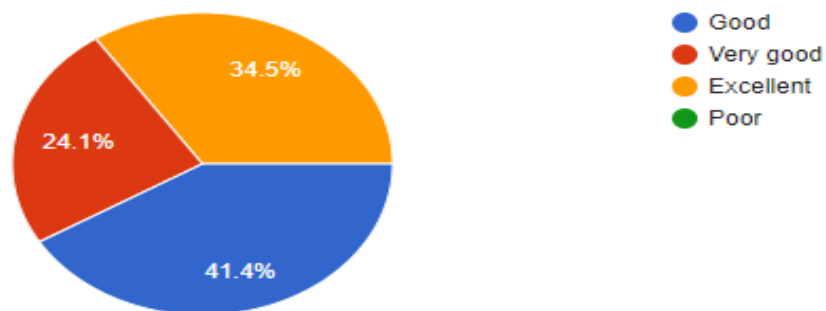
2. Did the session inspire you for innovative ideas

29 responses



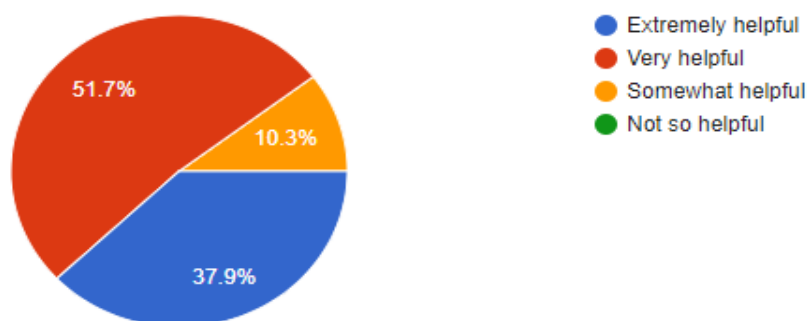
3.How interesting this session was for you

29 responses



4.How much this session was useful from the knowledge and information point of view

29 responses



5.How would you rate the Overall impact of the motivational session

29 responses

