



SOUTH EAST ASIAN EDUCATION TRUST®

## S.E.A. COLLEGE OF ENGINEERING & TECHNOLOGY, BENGALURU-49

Approved by All India Council for Technical Education (AICTE), New Delhi

Affiliated to Visvesvaraya Technological University (VTU), Belgavi, Recognized by Government of Karnataka

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# A REPORT

ON

## Technical Talk & Hands-On: Innovations in Brain Computer Interface (BCI) Technology

Resource Person: **Mr. Rakesh C Jakati,**

**Founder & CEO, SkyBrain Neurotech, Bengaluru**

Conducted by: **Research & Development Cell, IEEE, IQAC and IIC**

Date: **19<sup>th</sup> July 2024**

Venue: **AC Seminar Hall, SEACET.**

Event Coordinator: **Dr. Usha Desai**

Registered Participants: **129 (Host Institute: 102 & External: 27)**

[Technical Talk & Hands-On Innovations in Brain-Computer Interface \(BCI\) Technology \(google.com\)](#)

Online Program Link: <https://www.youtube.com/live/A-vP8rb7Q0w?si=b8DurJJ5uc247dPP>

Feedback Responses Received: 66 Participants, Participation Certificate issued.

<https://forms.gle/dv9nqWeWaowQMPmJ8>

  
**S.E.A. College of Engineering & Technology**

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Ekta Nagar, Near Ayyappa Nagar Circle, Devasandra Main Road, KR Puram, Bangalore-49



**RESEARCH & DEVELOPMENT CELL**  
in association with IQAC, IIC & IEEE  
ORGANISES

**Technical Talk & Hands-On**  
**Innovations in Brain-Computer Interface**  
**(BCI) Technology**

**19<sup>th</sup> July 2024**  
**10.30 AM**

 **IEEE**  
STUDENT BRANCH



 **INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

**RESOURCE PERSON**

  
**Rakesh C Jakati**  
Founder & CEO  
SkyBrain Neurotech, Bengaluru



The Management, Director, Principal and Faculties cordially invite you for the Technical Talk and Hands-On

## **Innovations in Brain-Computer Interface (BCI) Technology**

in Association with Research & Development Cell, IEEE, IQAC and IIC.

### **Resource Person**

#### **Rakesh C Jakati**

**Founder & CEO**

**SkyBrain Neurotech, Bengaluru**

### **Guest of Honor**

#### **Smt. Manjula A Krishnappa**

(Chairman, S.E.A Group of Institutions)

#### **Sri. D T Srinivasa**

(Secretary, S.E.A Group of Institutions)

#### **Smt. K Poornima Srinivasa**

(Ex MLA-Hiriyur Constituency and CEO- S.E.A Group of Institutions)

#### **Smt. K Anupama**

(Jt. Secretary & Treasurer, S.E.A Group of Institutions)

#### **Ms. Vinisha S Yadav**

(Vice President, S.E.A Group of Institutions)

#### **Dr. Brijesh S Yadav, Sri. Rohan R Yadav**

(Trustee Members S.E.A Group of Institutions)

**Date: 19<sup>th</sup> July 2024**

**Time: 10:30 AM**

**Venue: AC Seminar Hall**

**Dr. Usha Desai**

Dean (R&D)

**Dr. B. Venkata Narayana**

Principal

**Dr. Bhagavant K Deshpande**

Director



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EKTA Nagar, Near Ayyappa Nagar Circle, Devasanda Main Road, K.R. Puram, Bangalore-49



## RESEARCH & DEVELOPMENT CELL

In association with IQAC, IIC & IEEE

Organises

# Technical Talk & Hands-On Innovations in Brain-Computer Interface (BCI) Technology



**Rakesh C Jakati**  
Founder and CEO  
SkyBrain Neurotech  
Bengaluru

Rakesh C Jakati, Founder and CEO of SkyBrain Neurotech, is transforming mental health care by integrating neurotechnology, AI, and blockchain. With a deep expertise in these fields, he is dedicated to developing advanced solutions that enhance mental health treatment and accessibility. SkyBrain Neurotech develops cutting-edge technology to transform mental health, earning recognition with the prestigious Excellence in Healthcare award. This recognition highlights his commitment to creating scientifically backed, secure, and best-in-class mental health interventions.



Registration Link

Registration is Free  
Certificates will be Provided

Coordinator  
Dr. Usha Desai  
Professor & Dean(R&D)  
SEACET  
Research.cell@seaedu.ac.in  
9738923463



19th July 2024



10:30 AM-12:30 PM



AC Seminar Hall



Name of the Participant	Department	Institute
Ritu Raj kumar	Pharmacy	Srm modinagar college of pharmacy srmist delhi ncr campus
Dr. Parijata Majumdar	Computer Science and Engineering	Techno College of Engineering Agartala
Jagati Sai Teja	ECE	SEA COLLEGE OF ENGINEERING And Technology
Mruthyunjaya K	Computer science and engineering	SEA Collage Of Engineering and technology
DEEKSHITH M	Computer Science and Engineering	SEA College of Engineering and Technology
SPOORTHI.M	AI&ML	SEA COLLEGE OF ENGINEERING AND TECHNOLOGY
Roshan Zameer A	Information science and engineering	SEA college of engineering and technology
Rakshitha k l	Aiml	Sea college of engineering and technology
Vijaya vanditha. M	CSE-DS	Sri venkateshwara college of engineering
Shalini. M	IOT and CSBT	SEA College of Engineering and Technology
TRESHMA B	CSE	SEA COLLEGE OF ENGINEERING
Ashwini C	CSE-DS	Sri venkateshwara college of engineering
Kavana Gowda C K	ISE	SEA COLLEGE OF ENGINEERING AND TECHNOLOGY
Abilash M	ISE	SEA COLLEGE OF ENGINEERING
Sakthivel S	IOT & CSBT	Sea college of engineering
Pawan Kumar Mishra A	lot	SEA college of engineering and technology
G Srinivas Rao	ECE	SR University
Dr. Santosh Kumar S	CSE (Data Science)	Sri Venkateshwara College of Engineering
Chandan kumar sharma	Manegement ( school of business studies)	Jigyasa University, Dehradun, Uttarakhand
Srinath Akuthota	ECE	SR University, Telangana,
Anand R	lot & Cyber Security	Sea college of engineering and technology
Dr.T.Cynthia Anbuselvi	ECE	SEA College of Engineering and Technology
Hamsa C	CSE-DATA SCIENCE	SRI VENKATESHWARA COLLEGE OF ENGINEERING
Kalashree S	Information science and engineering	SEA COLLEGE OF ENGINEERING AND TECHNOLOGY
Sneha NB	Information science and engineering	SEA college of engineering and technology.banglore
Nagaveni	ISE	S E A college of engineering and technology
Sushanth raj	Cse	South East Asian education trust
Dr. Yuvaraju Chinnam	CSE AI and ML	St. Peter's Engineering College Autonomous
Meghana M	lot and csbt	Sea college of engineering and technology
Pradeep Kumar Sharma	Computer science and engineering	SKIT College Jaipur
Vilas Kumar N	AIML	S. E. A college of Engineering and Technology



Prakasha G	ECE	SVCE Bengaluru
Vismaya S R	IoT	Sea college
Karthik V H	E. C. E	S. E. A collage of engineering and technology
BHARADWAZ R	ECE	SEA COLLEGE OF ENGINEERING AND TECHNOLOGY
Sridhar s meli	ECE	SEA COLLEGE
Anish Jarusha J	Information Science	Sea College Of Engineering and Technology
NIKHIL K	ECE	SEA COLLEGE OF ENGINEERING AND TECHNOLOGY
Shravani S	Computer science and engineering	SEA college of engineering and technology
Punnish v	Ece	Sea college of engineering
L Pawan Kumar	Ece	SEA College of Engineering and Technology
Chaithanya MP	CSE(IoT and CSBT)	SEA COLLEGE OF ENGINEERING AND TECHNOLOGY
PUNITH GB	Cse	Sea college of engineering
Amogh M U	Electronics and Communication Engineering	Vidya Vikas Institute of Education and Technology
Kannika PN	ECE	S. E. A college of engineering and technology
U Vishnu Vardhan	ECE	SEA College of Engineering and Technology
Sofiya	ECE	S. E. A. C. E.T
Lakshmi s arrival	AIML	Sea college of engineering and technology
Shravan v	Information science and engineering	Sea college of engineering
Kavitha. U	Computer science engineering	Sea college of engineering
Raikar	mech	sea
Dr. Vasuja Devi	CSE	MANGALAYATAN UNIVERSITY JABALPUR
Kushal Kumar R	Electronics and Communication engineering	Vidya Vikas Institute of Engineering and technology
Rohith	IoT	Sea college of engineering
Naina Kumari	IoT and CSBT	Sea college of engineering and technology
Shashank n u	IoT	SEACET
Kavya M	AI&ML	Sea College of Engineering and Technology
Chandana V	AI&ML	SEA college of engineering and technology
Pragathi roopasri	IOT and CSBT	Sea college of engineering and technology
Nikita R Chinchansure	IoT& CSBT	SEA college of engineering and technology
Lakshmi Shivani K	IOT	S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY
Niraj. S	CSE -ds	Sri venkateshwara college of engineering



Adarsh kumar B	CSE DS	Sri venkateshwara college of Engineering
Harish J	CSE-Data Science	SRI VENKATESHWARA COLLEGE OF ENGINEERING
Prasanna Kumar Reddy B	CSE-DS	Sri Venkateshwar College of Engineering
M Sai Rithvik	IoT	SEA COLLEGE OF ENGINEERING
Aruneshwar B	IOT	SEA COLLEGE OF ENGINEERING AND TECHNOLOGY
Bhavith M	IOT AND CBST	Sea College of engineering
Alice Mary A	IOT	SEA College of Engineering and Technology
Reenu U R	IOT and cyber security	SEA college of engineering and technology
Myna R	IoT	Sea college of engineering and technology
Bhanupriya DA	Cse data science	Sri Venkateshwara college of engineering
Vennela	CSE-DS	Sri venkateshwara college of engineering
Rahul	Cse	Sea college
Vicky Kumar Gupta	Computer science and Engineering	S.E.A college of engineering and technology
KRISHNA KUMARI N	ISE	S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY
Nandini B	CSE	SEA college of engineering and technology
Pallavi Bai N	Computer science engineering	Sea collage of engineering
Keerthi M	CSE-DATA SCIENCE	Sri Venkateshwara College of Engineering Bangalore
Mayur A Gowda	CSE-DATA SCIENCE	Sri Venkateshwara College of Engineering
nuzhat ul firdous	computer science	islamic university of science and technology awantipora
Jeevitha H	Civil engineering	S E A COLLEGE OF ENGINEERING AND TECHNOLOGY ,Bengaluru
Dhivya G	CSE-( IoT & CSBT)	S.E.A College of Engineering and Technology
SANGEETHA K R	INFORMATION SCIENCE AND ENGINEERING	S.E.A college of Engineering and Technology
D. Aruna	ISE	S. E. A college of engineering and technology
Asmita Mahapatra	CSE(IOT & CSBT)	SEACET
Anupriya. A. S	AIDS	SEA college of engineering and technology
Praveen D	IOT	SEA COLLEGE OF Engineering
Ankith S	IOT-CSBT	SEA clg of engineering and technology
GIRISH C Y	CSE	SEA College of engineering and technology
S Janardhan	AI&ML	S.E.A. College of Engineering and Technology
Manoj B S	IOT(IC)	sea college of engineering
Bhavana	Civil engineering department	SEA COLLEGE OF ENGINEERING



Shravan S	AI&ML	SEA College of Engineering
G Sowmya Rani	ISE	Sea college of engineering and technology
Shreya kumari	Aiml	SEACET
Abhinava Karthik	CSE	Sea college of engineering and technology
Harshit Kupati	CSE	S.E.A CET BANGALORE
LINGESHKUMAR	CSE(IOT & CSBT)	SEA College of engineering
C Sruthi Laya	CSE	Sea college of engineering and technology
Dr. Sricheta Parui	School of Computer Engineering	Kalinga Institute of Industrial Technology, Deemed to be University
Sumitha udaikumar	ISE	S. E. A college of Engineering and technology
Mahesh R	ISE	SEACET
Asiya Fathimath Rahman	Information Science and Engineering	SEACET
NISARGA HA	Information science and engineering	SEA COLLEGE OF ENGINEERING AND TECHNOLOGY
Deepesh	Ai and ml	Sea college of engineering and technology
Deepthi.R	ISE	SEACET
Shreya Rajendra Devekar	ECE	S. E. A college of engineering and technology, Bangalore
Sonika.N	Ece	Sea college of engineering and technology
Jayanthi M	CSE	Sea college of engineering and technology
Jhonathan P	ECE	Sea college of engineering and technology
Suzain Khanum	ECE	SEA college of engineering and technology
Bhargav A	ECE	Sea college of engineering and technology
Sarumathi Sree S	CSE	Sea ciollege of engineering and technology
T.Aswini	ECE	South East Asian college of Engineering and Technology
Charithra Rani	ECE	Sea college of engineering and technology
Kevin George	ECE	Sea college of engineering and technology
Gayatri Shirur	Electronics and communication engineering	SEA college of engineering
Shweta allure	Electronics and communication	SEA college of technology and engineering
Sudeep BS	ECE	Sea college
Srikanth D Nayaka	ECE	SEACET CLG
Gagankumar TN	ECE	SEA COLLEGE
Jalani K S	ECE	SEA college of engineering and technology
Sindhu V	Ece	Sea college of engineering and technology

Vaishnavi Patil	ECE	S.E.A. College of Engineering and Technology
Spoorthi J	ECE	S E A College of engineering and technology
Shailesh M L	Artificial Intelligence and Machine Learning	Vivekananda Institute of Technology
Vyshnavi A R	Ece	S E A College of Engineering and technology
Thirthakumar H B	Ece	SEA college of engineering and technology

## Description of the Technical Talk

**BCI:** Brain-Computer Interface (BCI) is a system that establishes a direct communication pathway between the brain and an external device. By interpreting distinctive patterns of brain activity, BCIs translate neural signals into commands to operate software or machinery as shown in Fig.1. There are various BCI devices to record the signal (Fig.2).

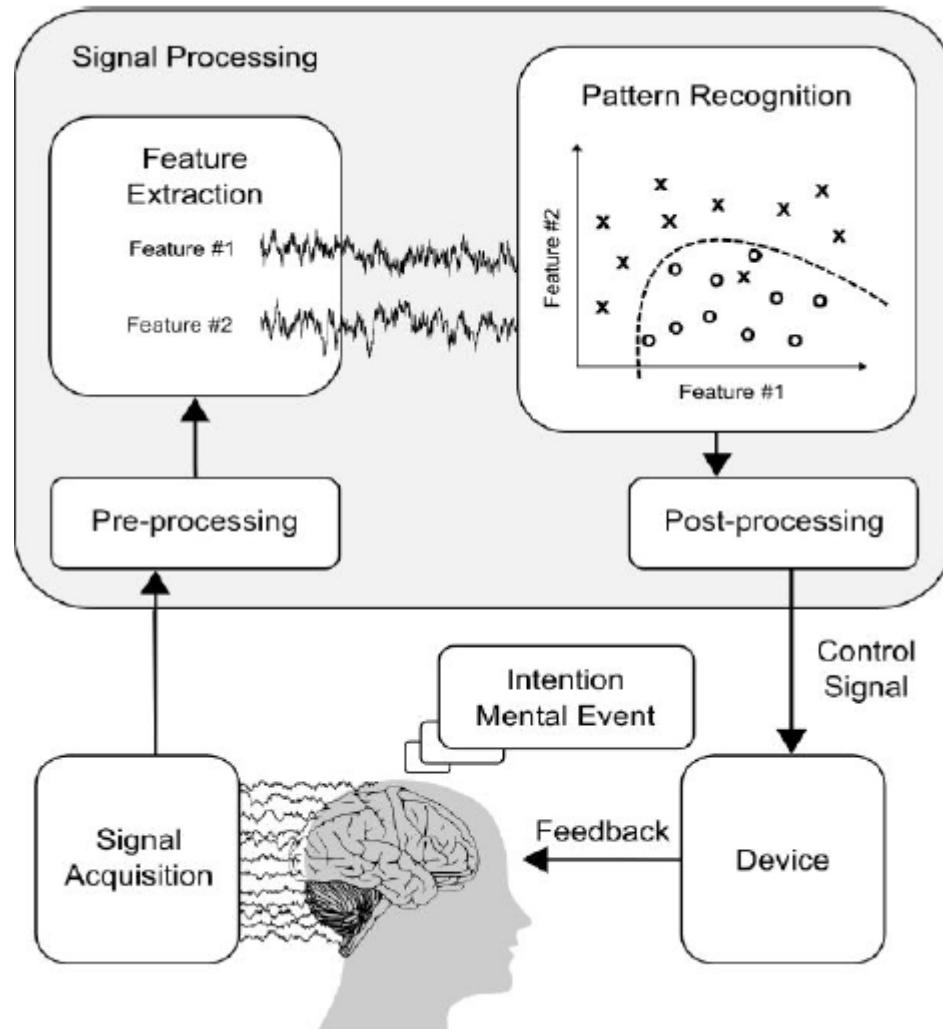


Fig. 1: Representation of BCI model.



Fig. 2: Representation of BCI model.

## BCI Techniques

1. Motor Imagery (MI): MI BCI identifies and translates the EEG signatures of imagined movements, commonly derived from the sensorimotor rhythms (SMRs) of the brain. Different imagined movements, such as left-hand or right-hand movement, trigger distinct SMR patterns that can be decoded to control external devices.
2. Steady-State Visual Evoked Potential (SSVEP): SSVEP BCI harnesses the brain's natural response to visual flickering stimuli at specific frequencies. When a user focuses on a flickering visual element, the neural oscillations in the visual cortex synchronize with the frequency of the flicker, and these oscillations can be utilized to determine the user's focus and intention.
3. Event-Related Potential (ERP): ERP BCI leverages the reliable neural responses that are time-locked to presentation of specific stimuli. One widely utilized ERP is the P300 wave, which typically occurs about 300ms after an unexpected or meaningful stimulus, allowing for the selection or acknowledgement of specific elements in a BCI system.
4. Emotion-Based: This approach seeks to decode emotional states by interpreting EEG patterns linked with different affective states. Certain EEG features, like asymmetry in frontal alpha power, have been associated with affective valence, providing a possible channel for emotionally-interactive BCI.

## What is Neurotech?

- A multidisciplinary field aiming to understand the brain, enhance, repair, and improve its function. Neurotech, or neurotechnology, navigates through this fascinating intersection, guiding us from comprehending the brain's secrets to crafting innovative brain-computer interfaces.



- Involves tracking neural activity using technologies like EEG, fMRI, and MEG. Encompasses technologies like Deep Brain Stimulation (DBS) and Transcranial Magnetic Stimulation (TMS) that modulate neural activities.
- Electroencephalography (EEG) is a method of measuring brainwave activity non-invasively. A number of electrodes are placed around the head and scalp and electrical signals are measured (Table 1).

### **EEG Frequency Bands**

Table 1: EEG Frequency Bands.

Activity	Frequency (Hz)	Characteristic of signals	Behaviour
Delta	0.5 - 4 Hz	Slow wave	Deep sleep
Theta	4 - 8 Hz	Slow wave	Creativity, deep meditation
Alpha	8 - 13 Hz	Fast wave	Physical and mentally relaxed
Beta	13 - 30 Hz	High frequency	Awake, alert consciousness
Gamma	30 - 40 Hz	High frequency	Cognitive processing

### **Job Opportunities in BCI**

#### **1. Research and Development**

Researchers and development engineers play a pivotal role in unravelling the mysteries of the brain and developing technologies that enable interaction with it. Your work could pave the way for breakthroughs in treating disorders like Alzheimer's, enhancing cognitive capabilities, or developing assistive technologies for individuals with disabilities.

#### **2. Product Development**

By entering product development or biomedical engineering within neurotech, you can guide the development of products that meet a growing market demand, ranging from



enhancing gaming experiences to developing vital communication tools for individuals with severe motor impairments.

### **3. Software and Hardware Engineering**

Software and hardware engineers in neurotech work on developing the systems that make interaction with the brain possible. Your work could enable breakthroughs in various applications, from brain-computer interfaces that allow thought-controlled prosthetics to technologies for deep brain stimulation in treating disorders like Parkinson's.

### **4. Clinical Applications**

Engaging in clinical engineering or rehabilitation engineering means becoming a bridge between technology and patient care. Your efforts can significantly impact patient outcomes by integrating neurotechnology into therapies, diagnostics, and treatments.

### **5. User Experience and Design**

UX/UI Designers ensure that neurotechnology products are user-friendly and accessible. Your role not only enhances the usability of these technologies but also ensures that they are accessible to individuals with diverse needs and abilities, making a significant impact on user adoption and satisfaction.

## **Objective of Technical Talk & Hands-On Session**

- Attending a BCI (Brain-Computer Interface) technical session would be highly beneficial because it offers the opportunity to deepen knowledge about cutting-edge technology that bridges neuroscience and computing.
- Brain Computer Interface technology session is to learn about advancements in neurotechnology how BCIs can improve quality of life and drive innovation.
- To learn and know about the current technology and pursue different innovation.
- To know about technical things that available in BCI.
- to know about new technologies and find a future opportunity in the upcoming field.
- To provide stage for exchange of information and formation of Network.
- Developing a project on BCI technology.

## **Participants Learning Outcome**

- Explored new topic based on the brain function.
- Learnt about the working model and so the neuro function and details about funding company and job opportunities in neuro technology.
- Advancement in the development of devices which can be controlled with just brain waves.
- Understanding the mind control using technology.
- Thoughtful demonstration on the functioning of technology and implementation.



## Feedback Received by the Participants

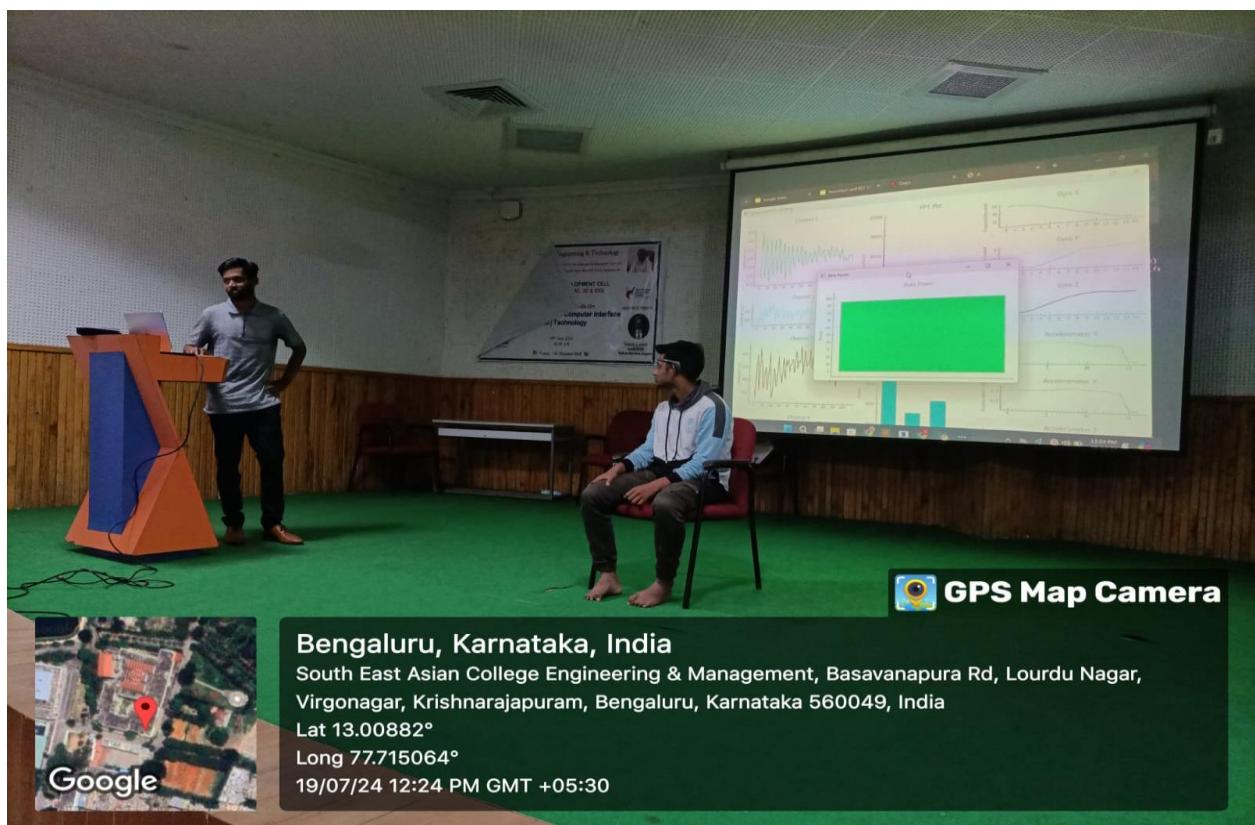
- Got to know more about the BCI and neuro link. and had a good talk.
- Good and best technical session.
- Need more such activities.
- Hands on session would be better.
- Overall, session on BCI was good and transformative.

## Sample of the Participation Certificate



## Pictures of the BCI Session







TECHNICAL TALK ON INNOVATIONS IN BRAIN-COMPUTER INTERFACE

SL.NO.	NAME	USN	DEPARTMENT	SEMESTER	SIGNATURE
1.	Paartho .N.V	ISP22IC402	IOT/CSBT	6th	Paartho
2.	Mynna-R	ISP21IC035	IOT/CSBT	6th	Mynna
3.	Trisha .S	ISP21IC058	IOT/CSBT	6th	Trisha
4.	Swathi .P	ISP21IC056	IOT/CSBT	6th	Swathi
5.	Reenu .V.R	ISP21IC045	IOT/CSBT	6th	Reenu
6.	Alice Mary .A	ISP21IC003	IOT/CSBT	6th	A. Alice
7.	Shalini .M	ISP21IC053	IOT/CSBT	6th	Shalini .M
8.	Meaghan M	ISP21IC031	IOT/CSBT	6th	Meaghan
9.	Naina Kumari	ISP21IC036	IOT/CSBT	6th	Naina
10.	Chaitanya .M.P	ISP21IC013	IOT/CSBT	6th	Chaitanya
11.	M Sai Pithivik	ISP21IC034	IOT/CSBT	6th	d
12.	Pawan .A	ISP21IC004	IOT/CSBT	6th	Pawan
13.	Bhawith .M	ISP21IC010	IOT/CSBT	6th	Bhawith
14.	Deepak .N	ISP21IC018	IOT/CSBT	6th	Deepak
15.	Vaeshith	ISP21IC060	IOT/CSBT	6th	Vaeshith
16.	Praveen .D	ISP21IC043	IOT/CSBT	6th	Praveen
17.	Sakthivel .S	ISP21IC051	IOT/CSBT	6th	Sakthivel
18.	Anand .R	ISP21IC008	IOT/CSBT	6th	Anand
19.	Manoj B.S	ISP21IC030	IOT	6th	Manoj
20.	Bikash	ISP21IC011	IOT/CSBT	6th	Bikash
21.	T.Aswini	ISP22EC416	ECE	6th	A
22.	B.Chaitra	ISP22EC409	ECE	6th	C
23.	Manikanta	ISP22EC405	ECE	6th	A
24.	Srikanth	ISP22EC414	ECE	6th	S
25.	Sudeep	ISP22EC415	ECE	6th	S
26.	Gagan Kumar	ISP22EC402	ECE	6th	G
27.	Gayathri	ISP22EC404	ECE	6th	G
28.	Swetha	ISP22EC413	ECE	6th	Swetha
29.	Vishnuvardhan	ISP22EC417	ECE	6th	Vishnu
30.	Kannika .P .N	ISP21EC010	ECE	6th	Kannika
31.	Sonika .H	ISP21EC025	ECE	6th	Sonika
32.	Suzain Khanum	ISP21EC030	ECE	6th	Suzain
33.	Spoorthi -J	ISP21EC027	ECE	6th	Spoorthi
34.	Sohana .H	ISP21EC020	ECE	6th	Sohana
35.	Vaishnavi Pathi	ISP21EC032	ECE	6th	V. Vaishnavi
36.	Wynshnavi .A.R	ISP21EC035	ECE	6th	Wynshnavi
37.	Jagat Sai Teja	ISP21EC008	ECE	6th	Jagat Sai Teja
38.	L.Pawan Kumar	ISP21EC013	ECE	6th	L.Pawan Kumar
39.	Thirthakumar	ISP21EC031	ECE	6th	Thirthakumar



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TECHNICAL TALK ON INNOVATIONS IN BRAIN-COMPUTER INTERFACE

SL.NO.	NAME	USN	DEPARTMENT	SEMESTER	SIGNATURE
1.	Sangeetha KR	Staff	ISF		X2/201
2.	Karthikumari	Staff	ISF		N-PP
3.	Anupriya	Staff	AI2PS		A
4.	Archu D	Staff	ISF		A
5.	Divya Q	Staff	TO T		D
6.	Asmitha	Staff	TO T		D
7.	Shreya	Staff	AI ML		
8.	Bhavana	Staff	CIVI I		
9.	Jeevitha	Staff	CIVI I		
10.	Nirajini	Staff	CIVI I		
11.	Cynthia	Staff	ECE		
12.	Karthika	Staff	TO AC		
13.	Paripatha	Lab Inf.	Mech		
14.	SHANTHESWML.	Staff	AI ML (VIST)		<u>Shantesh</u>
1.	Vilas Kumar N	ISP21AT063	AI ML	6th	<u>Vilas</u>
2.	Victor, B	ISP21AT062	AI ML	6th	<u>Victor</u>
3.	Janardhan	ISP21AT045	AI ML	6th	<u>Janardhan</u>
4.	Shrawan S	ISP21AT056	AI ML	6th	<u>Shrawan</u>
5.	Rahul	ISP22AT000	AI ML	6th	<u>Rahul</u>
6.	Karthik, N H	ISP21EC011	ECE	6 <sup>th</sup>	<u>Karthik</u>
7.	Sridhar	ISP21EC020	ECE	6 <sup>th</sup>	<u>Sridhar</u>
8.	Nikhil, K	ISP21EC015	ECE	6 <sup>th</sup>	<u>Nikhil</u>
9.	Thirthakum	ISP21EC033	ECE	6 <sup>th</sup>	<u>Thirthakum</u>
10.	Bharadwaj	ISP21EC044	ECE	6 <sup>th</sup>	<u>Bharadwaj</u>