



**Hindusthan College of Engineering and Technology
Coimbatore 641 032**

**NAAC
SSR
Cycle 2**

**Criterion II
Teaching-Learning and Evaluation**

GROUP-LEARNING

Group-Learning involvements through Brainstorming, Peer Teaching, Skits, Story Narration, Seminars and Group Discussion. The following are the various Group learning activities carried out in the institution from the academic year 2017-18 to 2021-22.




Principal

PRINCIPAL
Hindusthan College of Engineering & Technology
COIMBATORE - 641 032

Criterion II
Teaching-Learning and Evaluation

SMART INDIA HACKATHON

Our students participated in Smart India Hackathon and got shortlisted for finalist in SIH Grand Finale 2021 & 2020

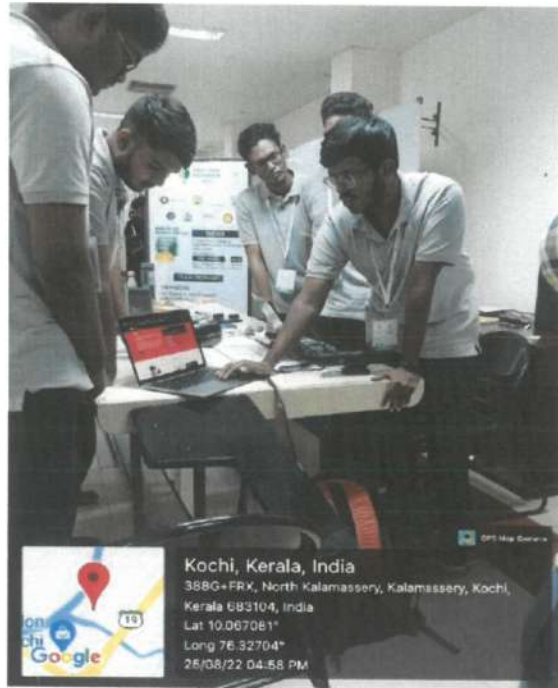
Title: Training Athletes using AR and VR – SCMS School of Technology

Team Details:

S. No	Team Members Name
1	Mr V Sairaam
2	Mr N Aravind Subramanian
3	Mr C Babiyon Clement
4	Ms R Dheiva Brathyangra
5	Mr B Santhosh Gopi
6	Mr K Santhosh
7	Dr D Satheesh kumar (MENTOR)
8	Ms M Indirani, (MENTOR)



Criterion II
Teaching-Learning and Evaluation



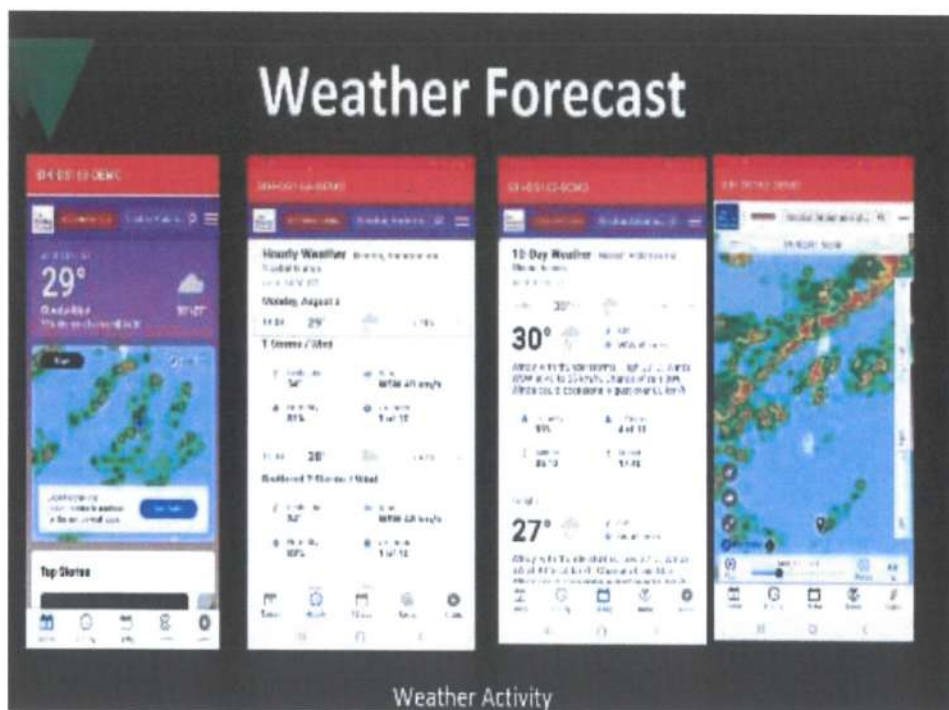
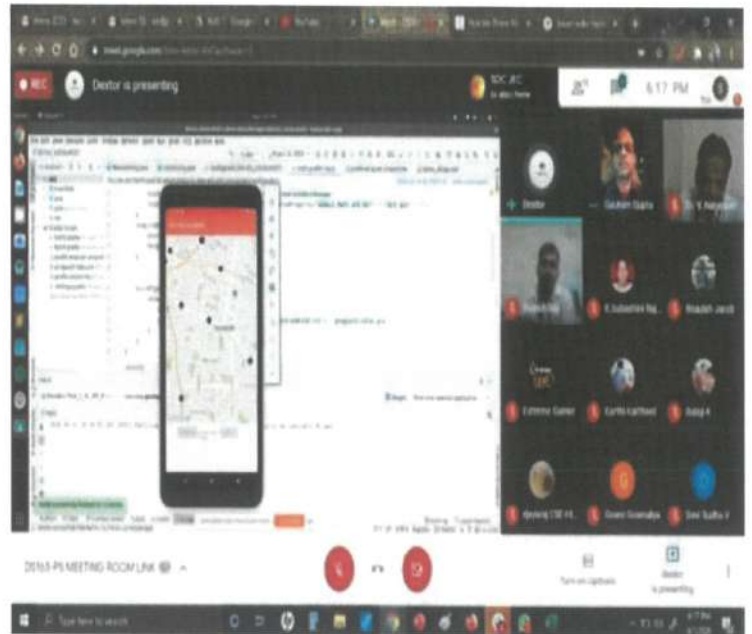
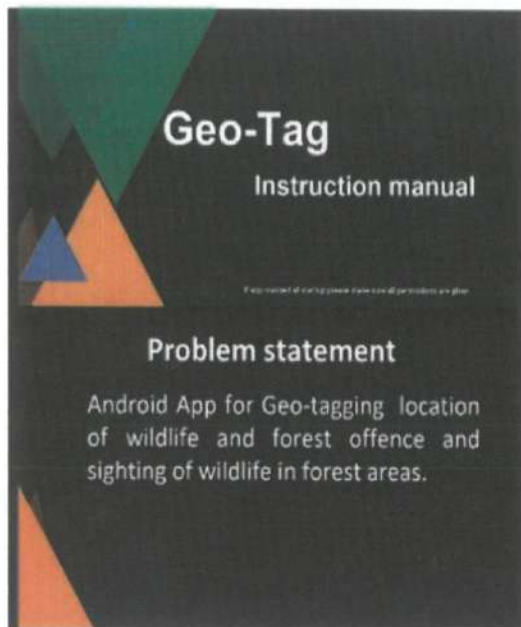
Title: Android App for Geo-Tagging Location of Wildlife in Forest Areas - Dr. B R Ambedkar Institute of Technology

Team Details:

S. No	Team Members Name
1	GNANA DEXTOR A
2	DINESH KUMAR V
3	BALAJI K
4	GOWSALYA K B
5	KARAN RAJ V S
6	KARTHIVEL K
7	Mr R JAYARAJ (MENTOR)
8	Dr S SHANKAR (MENTOR)



Criterion II
Teaching-Learning and Evaluation



Criterion II
Teaching-Learning and Evaluation

National level Project Competition on Data Science Challenge 1.0

One of our students won Second Prize in A National level Project Competition on Data Science Challenge 1.0 conducted by Sarvajanik College of Engineering and Technology, Surat in association with IEEE SPS SCET Student Chapter and won **Rs. 7000 Cash Prize.**



Flipkart Grid 3.0 Information Security Challenge.

Flipkart GRiD 3.0 - Information Security Challenge : Level 1 Results

5746522	Shriram S	CYBER STARS HICET
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Certificate of Participation

This is to certify that
Shriram S

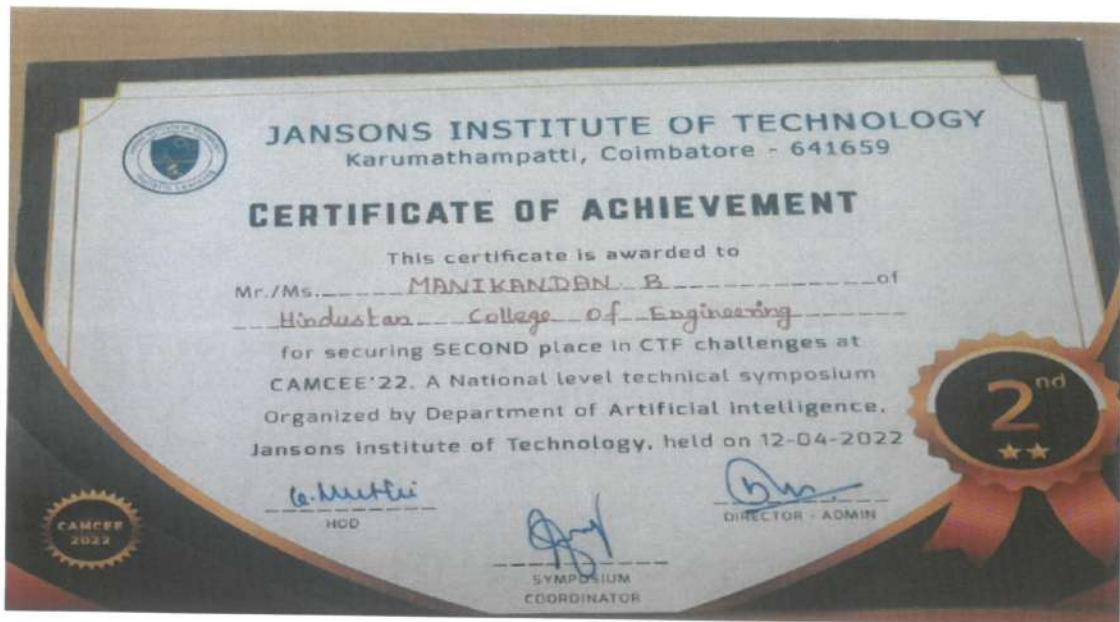
of Hindusthan College of Engineering and Technology (HICET), Coimbatore, Tamil Nadu as Team CYBER STARS HICET has participated in the Level 1: E-Commerce & Tech Quiz of Flipkart GRID 3.0 - Information Security Challenge organised by Flipkart



Criterion II
Teaching-Learning and Evaluation

CTF challenge'22

One of our students won **Second Prize** in CTF challenge'22- A National level hacking Competition on Facebook, twitter conducted by JANSONS INSTITUTE OF TECHNOLOGY, Coimbatore.



Kshitij – IIT Kharagpur

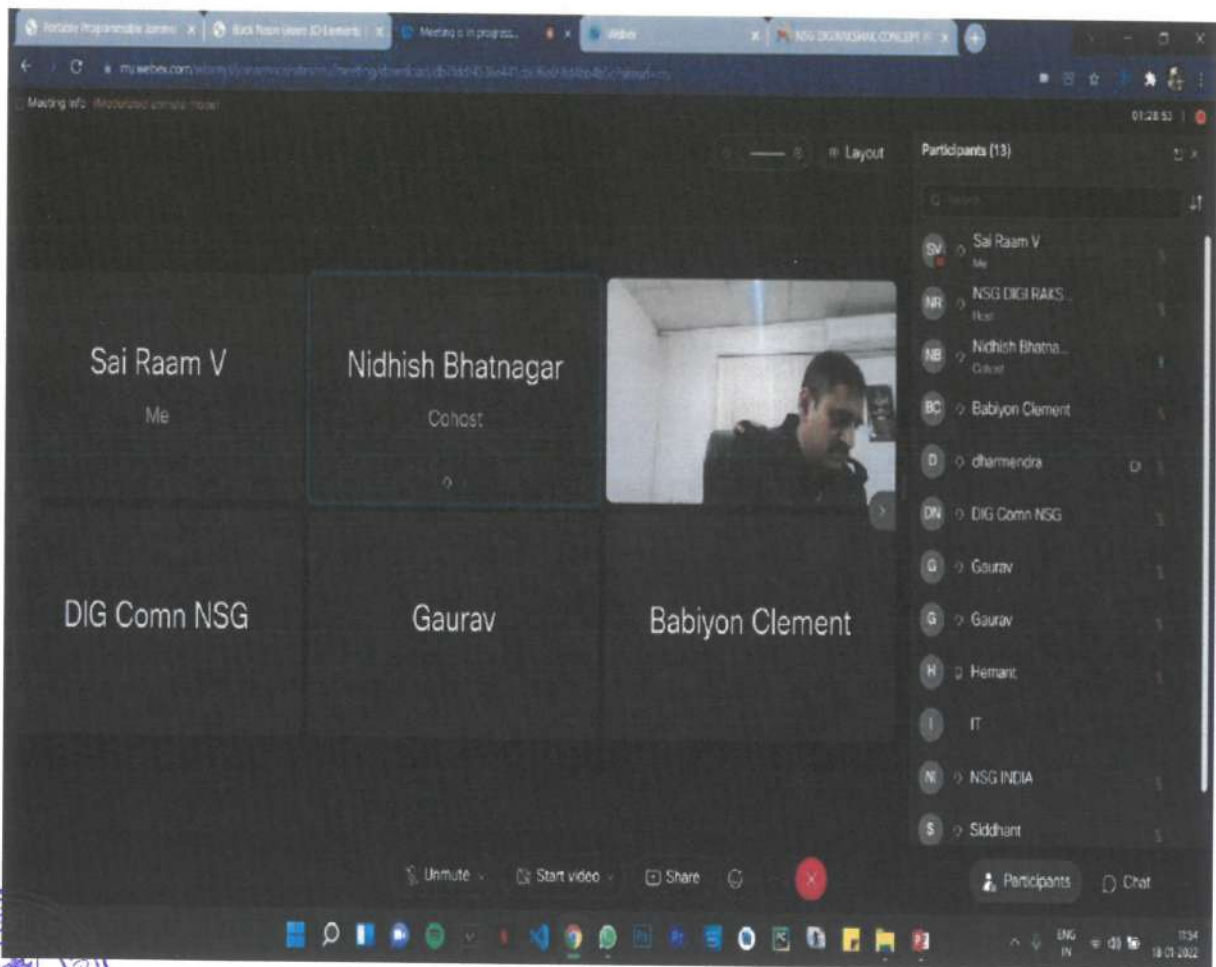
Pre-finalist in nation's biggest hackathon conducted by **IIT Kharagpur** in association with All India Association for Industries and Centre for Environment Education. The event conducted in hybrid mode and I lead team of 5 under India Innovates (Project Presentation – Idea pitch) event. We proposed Idea Pitch and solution to *reduce global pollution by implementing Unmanned - Aerial Delivery Vehicle (Project U-ADV)*. We competed with teams across the nation and qualified for final round in the national level hackathon and secured **pre-finalist position**.



Criterion II
Teaching-Learning and Evaluation

DigiRakshak – National Security Guard

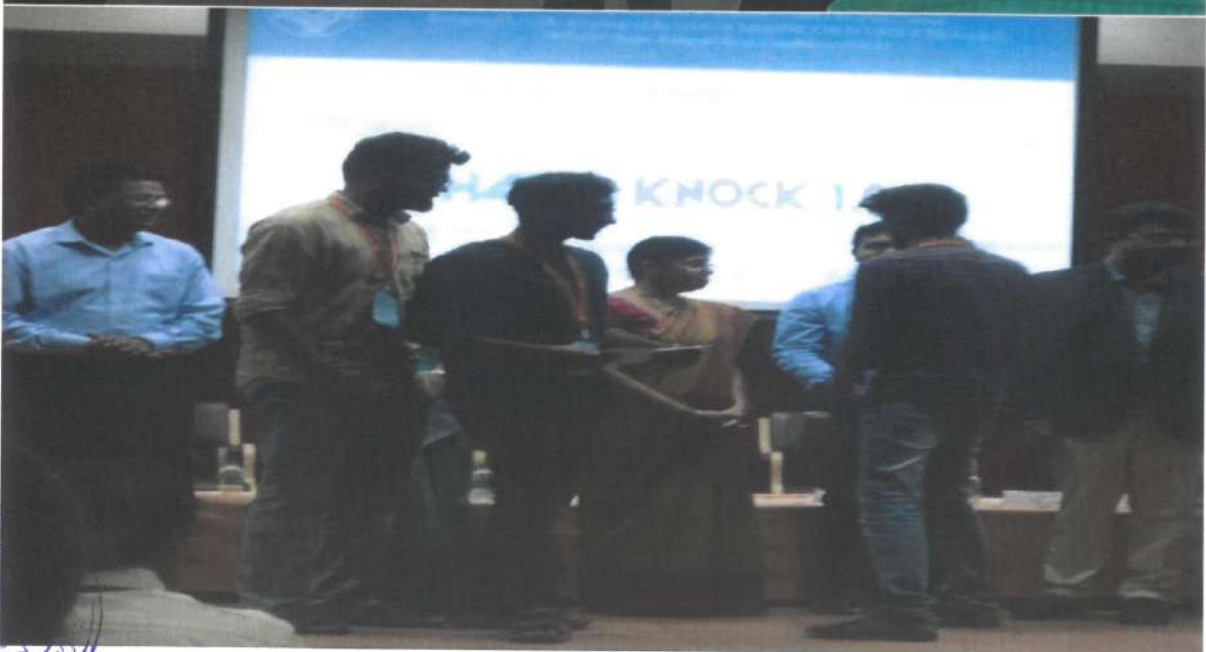
Digi Rakshak is national level hackathon conducted by National Security Guard and hosted by Rashtriya Raksha University from November 2021. I lead team of 10 and we shared our project presentation on “Portable Programmable Jammer” to dignitaries and higher officials of NSG. Judges were excited of our presentation and we were qualified for the next stage to national level. We are currently waiting for the national level results for the event.



Criterion II
Teaching-Learning and Evaluation

“Hack and Knock 1.0” Product Development Contest

Mr. Frazer Robert, Mr. P V Jeganathan, Mr. T S Gokul Raja, 2016-2020 Batch of Computer Science and Engineering, won I Prize Rs 20,000/- in 24 Hrs National Level “Hack and Knock 1.0” Product Development Contest organized by Dr. N G P Institute of Technology, Coimbatore on 8th & 9th February 2019.



Criterion II
Teaching-Learning and Evaluation

PANTENT PUBLICATION

Team Members	Project Title	Application Number
S SHRIRAM	"COVID-19 SPREAD PREVENTION ASSISTIVE COMPUTER VISION BASED VIRTUAL MOUSE USING REAL- TIME DEEP LEARNING AI SYSTEM".	202141049969A
ASWANTH KUMAR S ATHMAKURI DEEPAK SAI BHARATHI PRABHU R HARINIVASAN C	Credit Card Fraud Detection using Machine Learning	202241024238 A
AGILESH S FRIDOLIN F HEMALATHA S JAISHUBHA K	Smart Rice Paddy Farming	202241024164 A
CHANDRA PRABHU P DINESH KUMAR M ESAKKIRAJA P	An Online VM Prediction for Resource Management at Cloud Data Centre Using Multi Objective Load Balancing Framework	202241024235 A
HARIVIGNESH M BINSTON E MESHACH	Enchancing Virtual Intranet Server Performanece In Both Online And Offline Mode	202241024201 A
AJI V AKASH M DANIES MOHAMED S DHILIP.R	Online Real Estate Management System	202241024170 A
BALAJI P DONALD SAMUEL R GOWSHIK M GOWTHAM MUKIL B	Enhanced Algorithm for Detecting Brain Tumors sing MR Images	202241024159 A
AASHIK S		202241024261 A



**Criterion II
Teaching-Learning and Evaluation**

DHEVARAAJAN J	Voice Based Emotion Recognition Using Neural Networks	
GIRIDHARAN S		
HAMEED JASIM A		
AAKASHVARSHAN G	DDoS Attack Detection Using Machine Learning	202241024258 A
AKASH S M		
AMARNATH M		
DINESH R		
AAKASH R	Autonomous Detection Based Covert Timing Channels	202241022046 A
BRINDHADEVI R		
DARSINI B		
AKSHIN ARAVIND	Media player based on facial and hand gestures	202241024263 A
ALBIN MATHEW		
ALEN JOSPEH		
BASIL PAUL SAJI		
Shridhar Shrikant Jadhav S	Intrusion Detection System (IDS)	202241024246 A
Subash A		
Surya Prakesh A		
Vrajesh Babu A V		
Siddhartha C U	REAL TIME SIGN LANGUAGE DETECTION USING DEEP LEARNING	202241024158 A
Sivajith M		
Sreeramkrishna A		
Vengatesh B G		
Shanub Hussain K	OBJECT DETECTION AND RECOGNITION OF SCENE IMAGES USING FR-CNN AND KERAS CLASSIFIER	202241022036 A
Sri Naveen K		
Viswajith J		
Yadukrishnan O		
Ramesh P	SMART HOME SECURITY SYSTEM USING FACE RECOGNITION	202241024236 A
Rithick T		
Surendar V		
Vaideeswaran E		
Sathishkumar A	CURSOR CONTROL BY HAND GESTURE	202241024262 A
Vignesh G		
Vignesh Krishnan S		
Yadava Kannan M		



Criterion II
Teaching-Learning and Evaluation

Sabarikanth J	SVM BASED DETECTION OF PHISHING WEBSITE	202241024259 A
Seyed Thameemul Sujaudeen S		
Sridharan R		
Thangamariappan T		
Roheth Sriiram M	AI in Imaging Data Acquisition, Segmentation, and Diagnosis for COVID-19	.202241024227 A
Varsha K		
Varshini J P		
Varsni S		
Sai Shree N	A TRUSTED TRADING FRAMEWORK USING BLOCKCHAIN IN ECOMMERCE	202241024266 A
Selva Kumar T		
Sneha R		
Varshini K		
Sabari R	HAND GESTURE RECOGNITION USING RASPBERRY PI	202241024169 A
Sabari Raj V		
Surya B		
Vasanthkumar M		
Sheshadhree N S	A prediction approach for stock market volatility based on time series data	202241024241 A
Sivakumaran M		
Vignesh A J		
Vishnu K		
Senthilvelan K S	COVID 19 FUTURE FORECASTING	202241024202 A
Surya V		
Vignesh R		
Vasantha Ruban S		
JAYA ANTONY ALBERT L	Machine learning techniques for 5g and 6g	202241024249 A
MOOVENDIRAN S		
NAGARATHINAM N		
JEEVITHA G		
KOKILA M	Converging Blockchain for Organ Donation	.202241022045 A
MADHUMANJARI M		
MADHUMITHA R		
JOHNED PRAISY J		
KAVITHA G M	NEW FIRMS FOR BIAS ANALYSIS USING NLP MODEL	202241024222 A
KHYAATI		
NISHALINI G		
KISHORE M		
KUMARA GURU RAJ G	CROP HARVERST FORECASTING BASED ON INDIAN AGRICULTURE USING MACHINE LEARNING APPROACHES	202241023039 A
PONMANI N		



Criterion II
Teaching-Learning and Evaluation

KESHAV KANNA C K	EMBEDDING SECURE SMS USING IMAGE STEGANOGRAPHY	202241024225 A
MOHAMED ABUBUCKER M		
MOHAMMED RIZWAN S		
NASHEER AHAMED M S		
MAHADEVAN C	Emotional Analysis of tweets	202241022963 A
PRAKASH P S		
PRAMODH B		
PRAVEENRAJ V		
NAVIN E	Data integrity and secured data analysis for corporate management	202241022043 A
NAVIN REDDY N		
NITHIN K		
NITHISH KUMAR R		
PRADEESH D	Machine learning for cloud security a systematic review	202241022039 A
PRAGADEESWARAN T		
PRAKASH S		
HARISHANKAR.M		
PRIYATHARSHINI V	Device discover in d2d communication with pso in static graph output	202241022041 A
RAGUNATH S		
RAHUL G		
RAJ KUMAR G		
NIVAS PAUL P	DEEP LEARNING CHANGE DETECTION IN REMOTE SENSING IMAGES USING A CONVOLUTIONAL NEURAL NETWORK	202241022961 A
PRABAHARAN T		
PRADEEP M		
KARTHICK BALAJI T		



Criterion II
Teaching-Learning and Evaluation

(12) PATENT APPLICATION PUBLICATION (21) Application No 202141049969 A
(19) INDIA
(22) Date of filing of Application :01/11/2021 (43) Publication Date : 03/12/2021

(54) Title of the invention : COVID-19 SPREAD PREVENTION ASSISTIVE COMPUTER VISION BASED VIRTUAL MOUSE USING REAL-TIME DEEP LEARNI

(51) International classification G06F003035400, G06F003010000, G06F003030000, G06K009900000, G08F0003034600	(71) Name of Applicant : 1)Mr. SHIBRAM S Address of Applicant HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032 2)Dr. J. JAYA Name of Applicant : NA Address of Applicant : NA
(66) International Application No Filing Date	(72) Name of Inventor : 1)Mr. SHIBRAM S Address of Applicant HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE - 641032 2)Dr. J. JAYA Address of Applicant HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE - 641032
(67) International Publication No Filing Date	3)Dr. B. NAGARAJ Address of Applicant HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE - 641032
(68) Patent of Addition to Application Number Filing Date	4)Dr. S. SHANKAR Address of Applicant HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE - 641032
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(57) Abstract
The mouse is one of the wonderful inventions of Human-Computer Interaction (HCI) technology. Currently, wireless mouse or a Bluetooth mouse still uses devices and is not free of devices completely since it uses a battery for power and a dangle to connect it to the PC. In the proposed AI virtual mouse system, this limitation can be overcome by employing webcam or a built-in camera for capturing of hand gestures, and hand tip detection using computer vision. The algorithm used in the system makes use of the machine learning algorithm. Based on the hand gestures, the computer can be controlled virtually and can perform left click, right click, scrolling function, and computer cursor function without the use of the physical mouse. The algorithm is based on deep learning for detecting the hands. Hence, the proposed system will avoid COVID-19 spread by eliminating the human intervention and dependency of devices to control the computer.

No. of Pages : 7 No. of Claims : 5





Criterion II
Teaching-Learning and Evaluation

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2022

(21) Application No.202241022036 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : OBJECT DETECTION AND RECOGNITION OF SCENE IMAGES USING FR-CNN AND KERAS CLASSIFIER

(51) International classification :G06K0009000000, G06K0009620000, G06N0003040000, G06K0009460000, G06K0009200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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(72)Name of Inventor :
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4)Mr.Biju Balakrishnan
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7)Viswajith J
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8)Yedukrishnan O
Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----

(57) Abstract :
Annexure 3 The approach to this idea involves solution to the issues and constraints other object detection technologies have faced. Different technologies of object detection as well as object recognition has been included to improve the accuracy of the system FRCNN , a Convolutional Neural Network has been used in order to implement the object detection , Even though some other models like YOLO has been innovated to do the object detection in the recent years their accuracy is not as good as their predecessor FRCNN. Our model scans the whole image in the form of a grid and produces feature map with the help of FRCNN, with the assistance of which an object is detected. Once that is done the same is passed into an image classification model which labels the image and
The Patent Office Journal No. 18/2022 Dated 06/05/2022 28010



Criterion II
Teaching-Learning and Evaluation

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241022043 A

(19) INDIA

(22) Date of filing of Application :13/04/2022

(43) Publication Date : 06/05/2022

(54) Title of the invention : DATA INTEGRITY AND SECURED DATA ANALYSIS FOR CORPORATE MANAGEMENT

(51) International classification :G06Q0010060000, G06Q0010100000, H04L0029060000, G06Q0050220000, G06Q0040000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

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3)Dr.S.Lokesh

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4)Navin E

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5)Navin Reddy N

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6)Nithin K

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7)Nithish Kumar R

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(57) Abstract :

Annexure 3 The Multiple Relationship Management System is a complex system which some organisations consider to be useful in improving organisation performance. The major objectives of acquiring MRM System are broadly classified into two categories namely : Technical gains and business gains. Technical gains mostly deal with replacing legacy systems, improving data integrity and improving security. Business gains are classified as operational benefits and strategic benefits. Operational benefits include: improved business processes; data integrity cost reduction; ease of management of organisation; improved communication; accurate decision based on data, improved information availability and improved production. The full potential of these systems can only be realised only if they are successfully implemented. However, the implementation process is cost effective and time consuming, and thus requires careful planning and organisation. If successfully implemented, the MRM system provides many benefits to those organisations that adopt them. Implementing a comprehensive system not only provides access to important data, this also enables a better process for collecting and analysing data. Implementing an MRMs suite across departments means your organisation has a single, unified reporting system for every process. By having a single source of truth, an MRMs system can readily generate valuable reports and analytics at any time.

The Patent Office Journal No. 18/2022 Dated 06/05/2022

28016





Criterion II
Teaching-Learning and Evaluation

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/04/2022

(21) Application No.202241022961 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : DEEP LEARNING CHANGE DETECTION IN REMOTE SENSING IMAGES USING A CONVOLUTIONAL NEURAL NETWORK

(51) International classification :G06N0003040000, G06K0009620000, G06K0009000000, G06N0003080000, G06K0009460000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----
Name of Applicant : NA
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(72)Name of Inventor :
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8)Karthick Balaji T
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(57) Abstract :
ANNEXURE3 Deep learning has recently attracted the attentions of many in the field of change detection, and it is expected to continue to do so. Compared to typical hand-crafted featuresbased approaches, it tries to automatically learn high-level features from multiple remote sensing data sets. Deep learning algorithms for change detection can be classified in a variety of ways based on the perspectives that are taken into consideration. Deep learning algorithms for change detection are grouped into three groups in this study based on the learning technique utilised and whether or not training data is available that can be labelled or unlabelled. In the first category, there are fully supervised algorithms, which are methods that learn from a labelled training dataset in order to solve the
The Patent Office Journal No. 18/2022 Dated 06/05/2022 28102





Criterion II
Teaching-Learning and Evaluation

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/04/2022

(21) Application No.202241024225 A
(43) Publication Date : 13/05/2022

(54) Title of the invention : EMBEDDING SECURE SMS USING IMAGE STEGANOGRAPHY

(51) International classification :H04N0001320000, G10L0019018000, A61F0002300000, G06Q0020320000, G06Q0020400000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
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5)KESHAV KANNA C K
Address of Applicant : HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY,COIMBATORE, TAMILNADU, INDIA, PIN CODE - 641032. -----
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Address of Applicant : HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY,COIMBATORE, TAMILNADU, INDIA, PIN CODE - 641032. -----
8)NASHEER AHAMED M S
Address of Applicant : HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY,COIMBATORE, TAMILNADU, INDIA, PIN CODE - 641032. -----

(57) Abstract :

We propose in this project as image steganography with client server mobile OTP. authentication based secured android application, in this case the users of this android app can login with the mobile OTP in the initial state so the user knows who view the SMS and again it shows the password panel for second state of authentication so this android based application will provide the highly secured way of SMS communication via an image steganography. Steganography technique can be used in images, a video files or an audio file. Typically, however, steganography is written in characters including hash marking, but its usage within images is better thing from Android based secure data communication. At any rate, Steganography protects from pirating copyrighted materials as well as aiding in unauthorized viewing. Rather than being incomprehensible to an unauthorized third party, as is the case with cryptography, steganography is designed to be hidden from a third party. Not only must the hidden data be discovered- considered a formidable task in and of itself, it must be encrypted, which can be nearly impossible. One use of steganography includes watermarking which hides copyright information within a watermark by overlaying files not easily detected by the naked eye.

No. of Pages : 4 No. of Claims : 7



Criterion II
Teaching-Learning and Evaluation

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241024263 A

(19) INDIA

(22) Date of filing of Application :25/04/2022

(43) Publication Date : 13/05/2022

(54) Title of the invention : MEDIA PLAYER BASED ON FACIAL AND HAND GESTURES

(51) International classification :G06F0003010000, G06K0009000000, G06F0003030000, G06T0007246000, H04N0021236800
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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4)Dr. S. LOKESH

Address of Applicant :ASSOCIATE PROFESSOR/ CSE, HINDUSTHAN INSTITUTE OF TECHNOLOGY, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMILNADU, INDIA, 641032. -----

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8)BASIL PAUL SAJI

Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMILNADU, INDIA, 641032. -----

(57) Abstract :

The main purpose of the proposed work is to help the user get better experience of using advance media player. Media player can be controlled by using hand gestures recognition and face detection for various features of the media player such as playing the video and pausing when the user is not looking at the screen and controlling functions as volume up and volume down, playing next and previous video. It will help the users to use the video player with ease.

No. of Pages : 5 No. of Claims : 5



The Patent Office Journal No. 19/2022 Dated 13/05/2022

29767

Criterion II
Teaching-Learning and Evaluation

Journal / Conference Publication

S. No	Author & Co-Author Name	Name of the Journal	Title of the paper	Volume	Issue	Month & Year	ISSN NO	Impact Factor
1	S. Shiram S. Shankar B. Nagaraj J. Jaya P. Ajay	Journal of Healthcare Engineering	Deep Learning-Based Real-Time AI Virtual Mouse System Using Computer Vision to Avoid COVID-19 Spread	Volume 2021	spl.iss	Oct-21	20402295	2.682
2	B. Reena R. Magisha E. Mohana Priya S. Naveena I.B. Preethiba	International Journal of Advances in Engineering and Emerging Technology (IJAEET)	Smart Dustbin Using GSM Module	Vol. 11	2	Aug-20	2321-452X	0.784

Conference Publication

S. No	Name of the Authors	Title	Name of the Conference	Venue
1	Lokesh B, Muhammed Shadil, Nikhil B, V.Nirmal Kumar V,	Real-Time Face Mask Identification Using Deep Learning	7 th International Conference on "Latest Trends in Science, Engineering and Technology	Karpagam Institute of Technology
2	Ajai S, Ajith Kumar R, Dinesh Kumar V, Gounder Logeshraj Shakthi,	Pull Strategized Kernel Monitoring with Shell Technique	7 th International Conference on "Latest Trends in Science, Engineering and Technology	Karpagam Institute of Technology
3	Ajith.R, Ajithkumar.M, Alimran.J, Kadhar ali.Y,	Efficient Attendance Management System Based on Facial Recognition	7 th International Conference on "Latest Trends in Science, Engineering and Technology	Karpagam Institute of Technology
4	Syed FarasSyed Ibrahim, Surya prasanthK S.Suresh, A.E. Tharun,	Improving Security for Wireless sensor Networks Using DSR Protocol	7 th International Conference on "Latest Trends in Science, Engineering and Technology	Karpagam Institute of Technology



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5	Athira.S	Enhanced Graphical Password System With Intelligent User Identification Model	AICTE sponsored Fourth International Conference on Green, Intelligent Computing and Communication Systems- ICGICCS'20	Hindusthan College of Engineering and Technology, Coimbatore
6	Abinaya T, Ghayani N, Jeevitha T	Artificial Intelligence Technique For Information Security Risk Assessment	AICTE sponsored Fourth International Conference on Green, Intelligent Computing and Communication Systems- ICGICCS'20	Hindusthan College of Engineering and Technology, Coimbatore
7	Ahmed Fazil Niyaz V, Akash S, Ashok Kumar G, Karthick S	A Secure Erasure Cloud Storage Using Advanced Encryption Algorithm And Proxy Re-Encryption	AICTE sponsored Fourth International Conference on Green, Intelligent Computing and Communication Systems- ICGICCS'20	Hindusthan College of Engineering and Technology, Coimbatore
8	K.Ramamoorthy, P.Rishe Vishnu, R.Satheesh, S.Shabin	YOLO Based Multi Object Detection Using Deep Learning	6 th International E - Conference 'ICLTSET - 20	Karpagam Institute of Technology, Coimbatore
9	M.Sushmma, S.Varsha, S.Vauhini, M.Vedha Priya	Land Price Prediction Using Machine Learning With Support Vector Algorithm	6 th International E - Conference 'ICLTSET - 20	Karpagam Institute of Technology, Coimbatore
10	Magisha.R, Mohana Priya.E, Naveena.S, Preethiba I.B	Smart Dustbin Using Gsm Module	AICTE sponsored Fourth International Conference on Green, Intelligent Computing and Communication Systems- ICGICCS'20	Hindusthan College of Engineering and Technology, Coimbatore
11	Gowsalya R, Gurupriya M, Keerthana L	A Deep Model For Skin Cancer Type Identifications A.	AICTE sponsored Fourth International Conference on Green, Intelligent Computing and Communication Systems- ICGICCS'20	Hindusthan College of Engineering and Technology, Coimbatore



Criterion II
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12	Jeganathan P V, Chandra Prakash S	Bio-Metric Enhanced ATM powered by Deep Learning	AICTE sponsored Fourth International Conference on Green, Intelligent Computing and Communication Systems- ICGICCS'20	Hindusthan College of Engineering and Technology, Coimbatore
13	Abarna.V, Akila.S, Bavadharani.M, Kavipriya.M	Diagnosis of Leaf Disease And Design of Automatic Pesticide Sprayer Using Raspberry Pi	AICTE sponsored Fourth International Conference on Green, Intelligent Computing and Communication Systems- ICGICCS'20	Hindusthan College of Engineering and Technology, Coimbatore
14	Shriram S	Face Recognition Based Attendance Using Machine Learning	AICTE sponsored Fourth International Conference on Green, Intelligent Computing and Communication Systems- ICGICCS'20	Hindusthan College of Engineering and Technology, Coimbatore

Launch of Science Club App

APP LAUNCH CEREMONY



AT CEO OFFICE,
HICET



APP LAUNCHED
ON 17 DECEMBER, 2020



AT CEO OFFICE,
HICET



Criterion II
Teaching-Learning and Evaluation

BRAINSTORMING

Brainstorming is creative idea generation technique. It is also a problem solving technique. This technique provides free environment to present individual ideas, without attracting criticism from any one. Every generated idea is recorded and considered as solution to a problem. It shows collective creative power of group of people. It is group productivity. This is used to find out large number of ideas in shorter time to solve the problem. This is accepted as one of the tool in quality management. It is useful to generate a large number of ideas about a problem. Brainstorming provides an environment free of criticism for creative and free exploration of options and ideas to solve problem.

Benefits of brainstorming

- Brainstorming is useful technique to solve problem. Its benefits are as follows:
- Encourage creativity: brainstorming generate a lot of ideas, It encourages creativity of organization. It expands members thinking to produce maximum ideas on problem. It can give number of options.
- Ideas are formed collectively not individually.
- Production of large number of ideas: group discussion is organized; facilitator motivates to offer to produce maximum ideas in less time from participant members. It helps to record maximum ideas.
- Involvement of all group members; It is important to produce each participants own idea on particular problem, it does not criticize or evaluates so it encourages member to produce idea
- Group members are actively participating in brainstorming process. It creates ownership sense to discussion and produce ideas related problem.
- Easy to prepare, implement, and understand - it's not a complicated technique.
- Save Time and money: Brainstorming is inexpensive. It does not need a lot of materials. (only paper and pens are needed). It save the time.

Outcomes:

Focus on quality- It generates ideas for solution of problem.

Welcome unusual ideas: Record all ideas, unusual ideas are also welcome. It can help to generate more ideas. Unusual ideas can assist to create better ideas to another member of group.

Improve ideas: Good ideas may be combined and generate single better idea and put it for further discussion or solution.



Criterion II
Teaching-Learning and Evaluation



Hindusthan
College of Engineering and Technology,
Othakkalmandapam post, Coimbatore 641 032.

Class Activity

Academic Year : 2018-19

Date: 17.12.2018

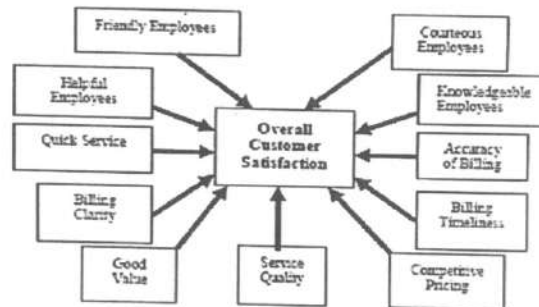
Name of the Activity: Brainstorming

Class: IV CSE B

Subject : Total Quality Management

Topic : Customer Focus

Question: Figure out the various the factors influencing customer satisfaction.



Participant List

S. No.	Reg. No	Student Name	Attendance
1	16104068	KIRUTHIGA M	P
2	16104069	KRISHNA KUMAR M	P
3	16104070	LEEBA GOWRI PRIYA A B	P
4	16104071	LOGESH P	P
5	16104073	MAHESH ARAVIND R	P
6	16104074	MANIKANDAN K	P
7	16104075	MANOJ KUMAR N	P
8	16104076	MARI SELVAN M	P
9	16104077	MATHI S	P
10	16104080	MOHAMMED ASHIK F	P
11	16104082	MOHANKUMAR M	P
12	16104083	MONISH KUMAR S	P
13	16104084	MUGUNTHAN M	P
14	16104085	MURSHID V P	P
15	16104087	NAGARAJ K	P
16	16104088	NALLARASU E	P
17	16104092	NAVEEN KUMAR.R	D
18	16104098	PAUL SURIA I J	P



Criterion II
Teaching-Learning and Evaluation

19	16104099	PAVITHRA D	P
20	16104100	POORNA PRAKASH S	P
21	16104102	PRASANTH R	AB
22	16104103	PRAVEEN KUMAR K	AB
23	16104105	PREMKUMAR L	P
24	16104107	PRIYANGHA P	P
25	16104601	AKILESH D	AB

S. S. H.
HoD



Criterion II
Teaching-Learning and Evaluation



Hindusthan
College of Engineering and Technology,
Othakkalmandapam post, Coimbatore 641 032.

Class Activity

Academic Year : 2018-19

Date: 18.03.2019

Name of the Activity: Brainstorming

Class: IV CSE B

Subject : Compiler Design

Topic : Code Optimization

Question: Mention the issues to be considered while applying the techniques for code optimization.

Participant List

S.No	Reg No	Student Name	Attendance
1	16104068	KIRUTHIGA M	/
2	16104069	KRISHNA KUMAR M	/
3	16104070	LEEBA GOWRI PRIYA A B	/
4	16104071	LOGESH P	/
5	16104072	MAGISHA R	a
6	16104073	MAHESH ARAVIND R	/
7	16104074	MANIKANDAN K	/
8	16104075	MANOJ KUMAR N	/
9	16104076	MARI SELVAN M	/
10	16104077	MATHI S	/
11	16104078	MOHAMED FAHADH HUSSAIN H	/
12	16104079	MOHAMED YUSUB T	/
13	16104080	MOHAMMED ASHIK F	/
14	16104081	MOHANA PRIYA E	/
15	16104082	MOHANKUMAR M	/
16	16104083	MONISH KUMAR S	/
17	16104084	MUGUNTHAN M	/
18	16104085	MURSHID V P	a
19	16104086	MUTHUPRIYA S	/
20	16104087	NAGARAJ K	/
21	16104088	NALLARASU E	/
22	16104089	NARENDRAN R	/
23	16104090	NAVANEETHAKRISHNAN K	/
24	16104091	NAVEENA S	/
25	16104092	NAVEEN KUMAR.R	/
26	16104093	NAVEENRAJ M	a
27	16104094	NEERAJ PRADEEP	/
28	16104095	NITHINKUMAR R	/
29	16104096	NIWASH R	/
30	16104097	PANDIYAN G	/



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Teaching-Learning and Evaluation

31	16104098	PAUL SURIA I J	/
32	16104099	PAVITHRA D	/
33	16104100	POORNA PRAKASH S	/
34	16104101	PRASANTH R	/
35	16104102	PRASANTH R	/
36	16104103	PRAVEEN KUMAR K	/
37	16104104	PREETHIBA I B	/
38	16104105	PREMKUMAR L	/
39	16104106	PRIYANKA D	/
40	16104107	PRIYANKGHA P	/
41	16104108	RAGUL GILL CHRIST D	/
42	16104109	RAJA A	/
43	16104110	RAJADHARSINI M R	/
44	16104601	AKILESH D	/
45	16104806	THEVER SUBRAMANIAN ANONDIA	/
46	16104807	SIYAD M	/

S.S.H
HoD



Criterion II
Teaching-Learning and Evaluation

BRAI



Hindusthan
College of Engineering and Technology,
Othakkalmandapam post, Coimbatore 641 032.

Class Activity

Academic Year : 2019-20 Date: 25.06.2019
Name of the Activity: Brainstorming Class: IV CSE B
Subject : E-Commerce (E-COM) Hour: 05
Topic : E- commerce and World Wide Web

Question:

Identify few applications and reasons for what purpose business uses internet.



S.No.	Reg. No	Student Name	Signature
1	16104068	KIRUTHIGA M	<i>Kiruthiga</i>
2	16104069	KRISHNA KUMAR M	<i>Krishna</i>
3	16104070	LEEBA GOWRI PRIYA A B	<i>Leeba</i>
4	16104071	LOGESH P	<i>Logesh</i>
5	16104072	MAGISHA R	<i>Magisha</i>
6	16104073	MAHESH ARAVIND R	<i>Mahesh</i>
7	16104074	MANIKANDAN K	<i>Manikandan</i>
8	16104075	MANOJ KUMAR N	<i>Manoj</i>
9	16104076	MARI SELVAN M	<i>Mari</i>
10	16104077	MATHI S	<i>Mathi</i>
11	16104078	MOHAMED FAHADH HUSSAIN H	<i>Mohamed</i>
12	16104079	MOHAMED YUSUB T	<i>Mohamed</i>
13	16104080	MOHAMMED ASHIK F	<i>Mohammed</i>
14	16104081	MOHANA PRIYA E	<i>Mohana</i>



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15	16104082	MOHANKUMAR M	Mohankumar
16	16104083	MONISH KUMAR S	monishkumar
17	16104084	MUGUNTHAN M	Mugunthan
18	16104085	MURSHID V P	AB
19	16104086	MUTHUPRIYA S	M.H.
20	16104087	NAGARAJ K	Nagaraj
21	16104088	NALLARASUE	AB
22	16104089	NARENDRAN R	Narendran
23	16104090	NAVANEETHAKRISHNAN K	Navaneetha Krishnan
24	16104091	NAVEENA S	Naveena
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27	16104094	NEERAJ PRADEEP	AB
28	16104095	NITHINKUMAR R	Nithinkumar
29	16104096	NIWASH R	Niwash
30	16104097	PANDIYAN G	Pandiyar
31	16104098	PAUL SURIA I J	AB
32	16104099	PAVITHRA D	Pavithra
33	16104100	POORNA PRAKASH S	Poorna
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37	16104104	PREETHIBA I B	AB
38	16104105	PREMKUMAR L	AB
39	16104106	PRIYANKA D	Priyanka
40	16104107	PRIYANKHA P	Priyanka
41	16104108	RAGUL GILL CHRIST D	Ragul Gill
42	16104109	RAJA A	Raja
43	16104110	RAJADHARSINI M R	Rajadharsini
44	16104601	AKILESH D	Akilesh
45	16104806	THEVER SUBRAMANIAN ANONDIA	Thever Subramanian
46	16104807	SIYAD M	AB

S.S.H.
HoD





**Hindusthan College of Engineering and Technology
Coimbatore 641 032**

**NAAC
SSR
Cycle 2**

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Student Participation in Seminars, workshops, Guest Lectures



Hindusthan College of Engineering and Technology

(An Autonomous Institution)

Approved by AICTE -Affiliated to Anna University Chennai
Accredited by NBA.Accredited with A Grade by NAAC

Certificate of Participation

This is to Certify that

M.j.s.s.n.srinivas

Student

Hindusthan college of engineering and technology

has participated in the Webinar on the topic "Industry Expectation from Academia" Organized by
Department of Science and Humanities, **Hindusthan College of Engineering and Technology, Coimbatore**
held on **03-06-2020** Wednesday


Dr. T. Rojamy
Event organizer


Dr. B. Kogilavani
Event organizer


Dr. K.P. Uma
HOD/Convener


Dr. S. Annadurai
Advisor





**Hindusthan College of Engineering and Technology
Coimbatore 641 032**

**NAAC
SSR
Cycle 2**

**Criterion II
Teaching-Learning and Evaluation**



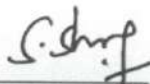
Hindusthan College of Engineering And Technology
Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore - 641 032



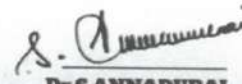
CERTIFICATE OF PARTICIPATION

PROUDLY PRESENTED TO

M.j.s.s.n.srinivas of **Hindusthan college of engineering and technology** has been actively participated in Webinar on **"Full Stack Development"** handled by Resource person **Mr.Lokesh Keyan**, Senior Software Developer, Global Payments, USA organized by Department of Computer Science and Engineering on **17th July 2020**.


Dr.S.SHANKAR
HOD/CSE, HICET

HICET-WCF-166


Dr.S.ANNADURAI
ADVISOR, HECT



**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
COIMBATORE**

[AN AUTONOMOUS INSTITUTION]
APPROVED BY AICTE, AFFILIATED TO ANNA UNIVERSITY, CHENNAI
ACCREDITED WITH 'A' GRADE BY NAAC




CERTIFICATE OF APPRECIATION

This is to Certify that
MADHU SURYA

has participated and succeeded in the **MIND FIZZ 2020 -Online quiz on Verbal, Reasoning, Current Affairs and G.K** organized by the Department of Science and Humanities (English) of **Hindusthan College of Engineering and Technology, Coimbatore** held on **31 May, 2020**


M.Narmatha English/AP
Event co-ordinator


M.Sumithasree English/AP
Event co-ordinator


Dr.K.P.Uma Prof & HoD
S&H / Convenor


Dr.S.Annadurai
Advisor



Hindusthan College of Engineering and Technology Coimbatore 641 032

**NAAC
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Criterion II Teaching-Learning and Evaluation



BUDDI.AI

"Education is priceless & no one can steal it from you"
-Sridevi, Co-founder & Ex-COO of GUVI

CERTIFICATE OF PARTICIPATION

This is to certify that
Karthikeyan R
has successfully completed participating in **The Guinness World Record Event -
Most users to take an online computer programming lesson in 24 hours**
on April 24th 2021, 6PM to April 25th 2021, 6PM

S.P. Balamurugan
Co-Founder, CEO

Verified certificate issue on: May 1 2021

Valid certificate ID: 49C166015uE9e11J8p

Verify certificate at: www.guvi.in/certificate?id=49C166015uE9e11J8p



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC
(An Autonomous Institution, Affiliated to Anna University, Chennai)



CERTIFICATE OF PARTICIPATION

This is to be certified that **Mr/Ms.M.j.s.s.n.srinivas, CSE / 3rd year,** of
Hindusthan College of Engineering and Technology has attended Webinar on
"Machine Learning in Computer Vision" on **08.09.2021**



Convenor
Dr. S. Shankar
Prof & HOD-CSE

Chief Patron
Dr. K. Karunakaran
Principal



**Hindusthan College of Engineering and Technology
Coimbatore 641 032**

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Teaching-Learning and Evaluation**

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

APPROVED BY AICTE, NEW DELHI, ACCREDITED WITH 'A' GRADE BY NAAC
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VALLEY CAMPUS, OTHAKALMANDAPAM, COIMBATORE – 641 032

**ASTRONOMY CLUB
CERTIFICATE OF PARTICIPATION**

This is to certify that
Mr. Karthikeyan R, CSE B
of
Hindusthan College of Engineering and Technology
has participated in the **online quiz in Astronomy** on
26th May 2021 and scored **16** mark(s) out of 20 marks.

Mr. Veerasamy B Mrs. Vanitha R Ms. Sumithasree M, English Ms. Sumathi E, English Dr. Karunakaran K
Mr. Suresh Kumar P ECE Ms. Nithya K, Maths Mr. Tamilvendan, Aero CEO/Principal
ECE Ms. Maheswari S, Maths Ms. Deepa N, MCA
Mr. Alex Livingston, Civil

Certificate ID: HICET/ASTRO/QUIZ/1/180 *This is an E-Certificate. No Authorized Signature Required.

Principal
PRINCIPAL
Hindusthan College of Engineering & Technology
COIMBATORE - 641 032

