SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

3.2.1 Ecosystem for Innovation and Initiatives for creation and transfer of knowledge

(AY 2022-2023)

SARANATHAN COLLEGE OF ENGINEERING
VENKATESWARA NAGAR, PANJAPPUR
TIRUCHIRAPPALLI – 620 012

Intellectual Property and Economic Development Cell

Annual report of activities of IPEDC for
The Academic year 2022-23 (June 1, 2022 to May 31, 2023

Members of IPEDC

Chairman	:	Dr. D. Valavan, Principal
Coordinator	:	Dr. R. Natarajan, Head, R & D
Patent attorney	:	S. Diwakar, Factum Law Advocates, Chennai

Members from Departments

Mechanical Engineering	:	Dr. G. Mahesh
Civil Engineering	:	Mr. A. Anandraj
ECE	:	Mr. K. Malaisamy
IT	:	Mr. R. Rengaraj
CSE	:	Dr. P. D. Sheba Kezia Malarchelvi
ICE	:	Dr. M. Shanmugavalli
EEE	:	Dr. M. Marimuthu
Management Studies	:	Dr. V. Mahalakshmi
Humanities & Science	:	Dr. L. Muruganandam

MoU with 4A IP – A new IPR Regime at Saranathan

IPEDC conducts periodical meetings to discuss issues related to IPR and this year IPEDC is very successful in signing MoU with the IPR firm **4A IP solutions, Altf Expressway, 7th Floor, Express Trade Tower 2, Sector-132, Noida, Uttar Pradesh – 201301.** Signing of this MoU marks the beginning of a new IPR regime in our college. This year onwards for **all patents the college will be the applicant while the students and or faculty members will be inventors. The entire expenses for prior art search, patent drafting and Government fees will be paid by the management**. Hence, the faculty members and students are free from financial burden involved in the IPR activities. The MoU is initially for five years and may be extended.

Assignment of rights of a registered design 12-December-2022

The right of the following registered design was transferred to Mr. ANAND SUBBIAH, Tiruchirappalli. The assignment of all rights was executed via an agreement on 12-December-2022.

Registered design titled **3 LEGGED COMPASS FOR MAKING ELLIPSE** registered under the Designs Act, 2001 under no. **350019-001** dated **23 /09/2021** and granted under Certificate No. **104649** dated **11/11/2021** in favour of (1)   Dr. G. Mahesh, Associate Professor, Department of Mechanical Engineering of Saranathan College of Engineering, (2) Dr. N. Baskar,, Professor, Department of Mechanical Engineering of Saranathan College of Engineering, (3) Dr. S. Sathyanarayanan, Assistant Professor, Department of Mechanical Engineering of Saranathan College of Engineering, and (4) Mr. A. Anandraj, Assistant Professor, Department of Civil Engineering of Saranathan College of Engineering.

Special Lecture by a Patent attorney 24-February-2023

Mr. Jalvath, Head of Legal Service, ARHALEX, Bangalore Addressed the staff members and interested students on patents. As the speaker himself is an engineering graduate who is practicing IPR law it was very interesting. He explained when an invention be patented and gave examples. The session was very interactive wherein students asked quite a lot of questions. At the end of the session the invited speaker himself commented, "This is one of a rare event where the audience posed more questions"

World IPR Day: 26-April-2023

The world IPR day was observed by organizing a lecture on IPR by **Mr. R. Srinivasan, Founder President, 4A IP solutions, Altf Expressway, 7th Floor, Express Trade Tower 2, Sector-132, Noida, Uttar Pradesh – 201301.**

The function started with the invocation. The welcome address was Dr. R. Natarajan, Coordinator, IPEDC, Head, R&D introduced the chief guest. The theme for the 2023 celebration of World Intellectual Property Day is "Women and IP: Accelerating Innovation and Creativity," emphasizing the crucial role of women in propelling innovation and creativity forward.

The chief guest, Mr. R. Srinivasan, Head, 4A IP Solution, IPR Service Company, Noida, UP delivered an enlightening lecture about the patent filing. The address is about 'Patent to Product". The speaker elaborated about what is an IP, patent in designs and design patent. He explained clearly the design and utility patents. He also the patentability of an innovation and the three basic needs for an innovation to be patented namely novelty, non-obviousness and commercial value. He also outlined the need for copyright on individual lecture and e-contents. Also, he advised the students to patent their idea before presenting in a conference or a Hackathon.

Dr. R. Natarajan, Coordinator, IPEDC, Head, R&D enlightened about who are the true and only inventors, general guidelines, forms and agreement and steps in filing patents. On the World IPR Day (26/04/2023), Saranathan College of Engineering has signed an MoU with 4A IP solutions, the IPR service company. This MoU has opened a new chapter for IPR activities

in our college. It was announced that the expenses on patent drafting and prior-art-search will be spent by the college management itself. The inventors may submit en number of inventions and designs to the college Intellectual Property and Economic Development Cell (IPEDC). In case of patents, the most expensive part, namely the prior-art-search will be carried out through 4A IP solution and inventions identified and as patentable will be drafted and filed. Except the government fees of Rs 1700 all other expenses on patents and designs will be borne by the management. The program came to an end with vote of thanks by Department of Mechanical Engineering and concluded after National Anthem.

SARANATHAN COLLEGE OF ENGINEERING
VENKATESWARA NAGAR, PANJAPPUR
TIRUCHIRAPPALLI – 620 012

WORLD IPR Day
APRIL 26, 2023

Intellectual Property and Economic Development Cell

TEAM IPEDC

Cordially invites you for an interactive session with

the IP Professional

Mr. R. SRINIVASAN

4A IP solution
Altf Expressway, 7th Floor,
Express Trade Tower 2,
Sector-132, Noida, Uttar Pradesh - 201310
on

April 26, 2023
WEDNESDAY

Venue: Mechanical Engineering M.E. Seminar Hall
Time: 11.15 am to 12.15 pm

Dr. R. Natarajan	Dr. D. Valavan	Shri. S. Ravindran
Coordinator IPEDC	**Principal**	**Secretary**

SARA INNOVATION DAY 2023: 23-MAY-2023

SARA INNOVATION DAY was organized on **MAY 23, 2023**. at Bi-decennial Block Hall from 9.30 am to 4.30 pm. It is a day to exhibit the outstanding innovations of our students who were duly recognized and awarded for their projects and exhibits by the leading institutions. As the prime aim of the day is to motivate the students to participate in such events in large numbers in the forthcoming years our college students were scheduled to witness the exhibits at various time intervals throughout the day.

The program started with invocation at 09.30 am. The principal inaugurated the session with motivating words. Dr. R. Natarajan, Professor and Head, R & D felicitated the gathering. A total of 22 teams of 76 students from the entire department participated in the event. The students exhibited their projects to all other students from I-, II- and III-year. The students who visited the projects got motivated and asked many queries with enthusiasm.

The displayed exhibits were evaluated by a team of external judges (three members) to select the best of the bests. The judges are

1. **Dr P. MANI, Associate Professor, Department of Physics, Anna University BIT Campus, Tiruchirappalli**

2. **Dr T. Mithila, Assistant Professor, Department of IT, Anna University BIT Campus, Tiruchirappalli**

3. **Dr R. Ravishankar, MD Course B ricks, Tiruchirappalli.**

Organizing Committee members are:

Dr. M. Shanmugavalli, ICE Dept.	Dr. M. Ganesan, MechE, Dept.
Dr. R.Vjiay, EEE Dept.	Dr. A. Mercy Vasan, MechE, Dept
Mr. B. Paranthagan, EEE, Dept.	Mr. R. Karthik, CSE Dept.
Mr. A. Kesavan, ECE, Dept.	Ms. G. Sathya, IT Dept

The valediction function started at 4.15 pm. In the session the prize winners were announced by the principal. Head R & D highlighted importance converting the innovations into products'

The prize winners for the Sara Innovation Day 2023 are:

Prize	Title	Students Name	Dept	Cash Prize (Rs.)
I	Water Hyacinth Remover	Srivardhan, C. Sriram, S. Srihari, S. Sutharsh Krishna, K.A Sambugesh, D.	MechE	**7000**
II	Trash Collecting Robot using IoT Technology	Muthu, T. Raghavi, B.	ECE	**5000**
III	Snap fit neck brace	Prasanna R.S. Mohamed Ajmal, M.I. Mohamed Fazil, Uthaya Sankar,V.S Sam Daniel, P	Mech	**3000**
	E-Voter	Vigneswaran. N.,Sowmya. V., ShyamSundar, S. Vivian Joseph, A. ShalikAhamed, S.	CSE	**3000**

Panjappur, Tamil Nadu, India
QM42+MMR, Panjappur, Tamil Nadu 620012, India
Lat 10.756563°
Long 78.65154°
23/05/23 11:51 AM GMT +05:30

Panjappur, Tamil Nadu, India
QM42+GPJ, Panjappur, Tamil Nadu 620012, India
Lat 10.756461°
Long 78.651494°
23/05/23 11:58 AM GMT +05:30

Tiruchirappalli, Tamil Nadu, India
Unnamed Road, MGR Nagar, Bharathi Nagar,
Sangillyandapuram, Tiruchirappalli, Tamil Nadu 620012, India
Lat 10.777323°
Long 78.66558°
23/05/23 10:28 AM GMT +05:30

Panjappur, Tamil Nadu, India
QM42+MMR, Panjappur, Tamil Nadu 620012, India
Lat 10.756512°
Long 78.651489°
23/05/23 10:29 AM GMT +05:30

Panjappur, Tamil Nadu, India
QM42+VJV, Panjappur, Tamil Nadu 620012, India
Lat 10.757181°
Long 78.65165°
23/05/23 10:35 AM GMT +05:30

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

DATE: 03.02.2023

K-FRIDAY

The Department of Artificial Intelligence and Data Science had conducted an activity "Let's Learn Applications" under the K-Friday(Knowledge Friday) concept on the 3rd of Feb 2023 for II year Students of AI & DS at Hall No. 202 and 204 of the Bi-Decennial Block in our college. Students were asked to think of and suggest one application for each technical subject they had studied in the 3rd semester, such as Design and Analysis of Algorithms, Database Technology, Data Visualization, and Artificial Intelligence.

The event was attended by over 60 students and they actively participated and submitted their insights. All submissions were collected and evaluated on the basis of their learning skills. Ms. Muzifa Mubarak Ali and Ms. Madulika of the II year AI & DS program secured First Place, and five students were placed in Second Place: Ms. Aashifa Parveen, Ms. Abinaya, Ms. Karuniya, Ms. Hilda, and Mr. Robinson. Gifts were distributed to all the winning future professionals.

SARANATHAN
COLLEGE OF ENGINEERING

(Affiliated to Anna University-Chennai, Approved by AICTE-New Delhi)
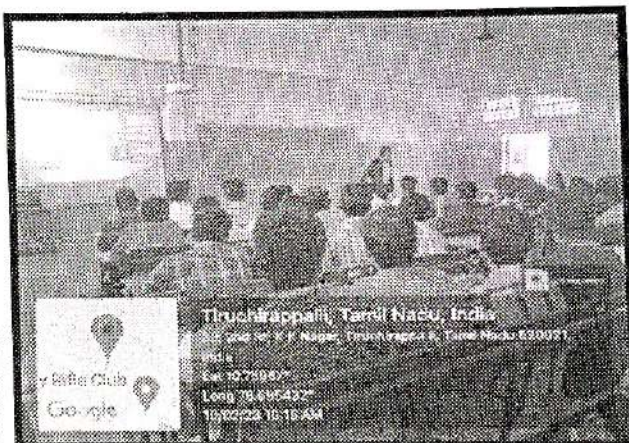Venkateswara Nagar, Panjappur, Thiruchirappalli - 620012

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
DATE: 10.02.2023

K-FRIDAY

The Department of Artificial Intelligence and Data Science had conducted a Special Session on the "Influence of GOOGLE" under the "K-Friday(Knowledge Friday)" concept on 10th of Feb 2023 for II year Students of AI & DS at Hall 202 of the Bi-Decennial Block in our college. The session was handled by Prof.S.Saravanan, Assistant Professor, Department of Management Studies, Saranathan College of Engineering, Tiruchirappali. The key topics discussed in the session were: "Learning, Role of Google and Artificial Intelligence, Google search operators, commands and Google Follower". The aim of this session was to provide attendees with an understanding of the current state and future directions of GOOGLE along with AI technology and to examine its potential implications and ethical considerations. A total of 56 students participated and benefited from this event.

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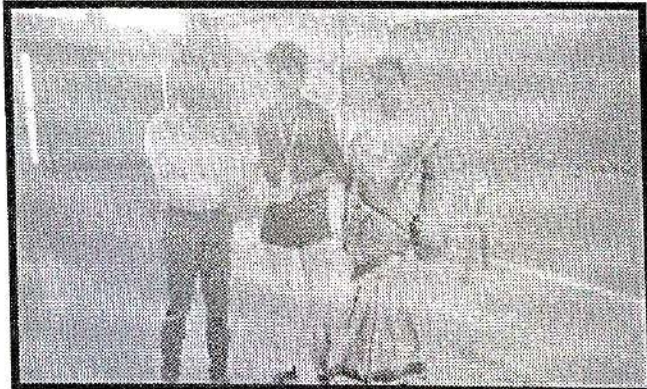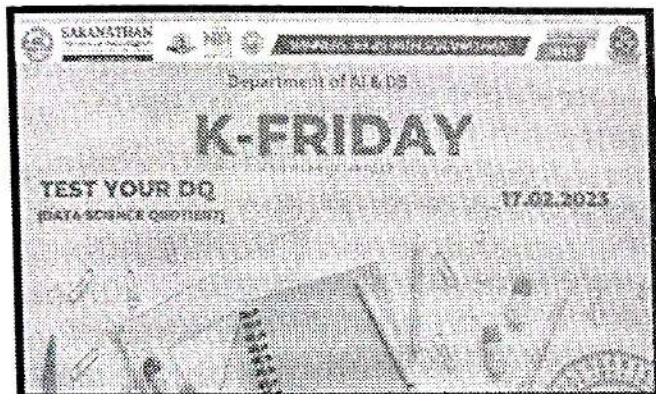## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
DATE: 17.02.2023

K-FRIDAY

The Department of Artificial Intelligence and Data Science conducted an activity called *"Test Your DQ (Data Science Quotient)"* under the theme of *"K-Friday (Knowledge Friday)"* on *February 17th, 2023,* for second-year AI & DS students. The on-the-spot quiz was designed to test the student's knowledge of Data Science, and around 20 students participated actively. The winners of the Test Your DQ (Data Science Quotient) under the K-Friday theme are as follows:

1. 248043 - Roshan Kumar B
2. 248038 - Pravin R F
3. 248057 - Theo Savio

Gifts were distributed to all the winning future professionals.

SARANATHAN
COLLEGE OF ENGINEERING

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

DATE: 30.03.2023

NETWORK IQ QUIZ

The Department of AI & DS recently organized a Network IQ Quiz event for second-year students under K-Thursday theme on 30.03.2023. The winners were selected based on the total marks scored in all rounds and were honored with gifts.

First Prize : Muzifa Mubarak & Aashifa Parveen
Second Prize : Tejasram & Deva Prasath
Third Prize : Roshan Kumar & Perarulalan

Congratulations to all the Winners
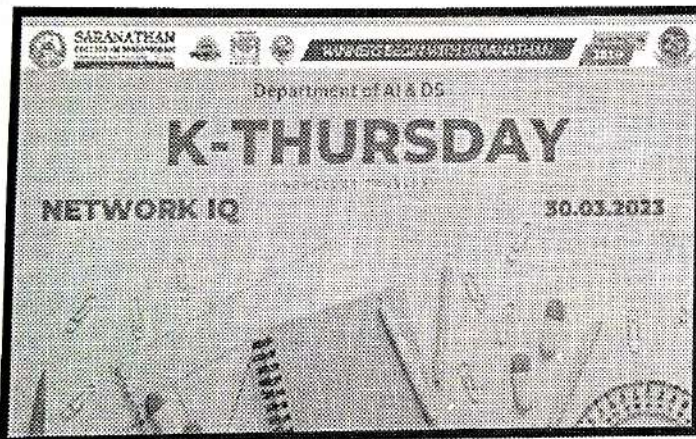
HOD AI&DS
(Dr.S.Ravimaran)

SARANATHAN
COLLEGE OF ENGINEERING

(Affiliated to Anna University-Chennai, Approved by AICTE-New Delhi)

Venkateswara Nagar, Panjappur, Thiruchirappalli - 620012

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

DATE: 13.03.2023

INTEL ONE API

"On March 13th, 2023, Saranathan College of Engineering conducted a one-day workshop on *oneAPI,* with Akshay, Intel oneAPI Ambassador leading the session. The workshop also included a live session on machine learning using *CKD prediction with oneAPI.* Around 90 students from II and III year of CSE, IT, AI&DS, and CSBS attended the workshop and greatly benefited from it. Additionally, Intel has generously agreed to *sponsor a $1000* Hackathon exclusively for our students in May 2023. We have also created a special WhatsApp group to include all the participants, and Akshay, who is an expert in Intel oneAPI, will be providing all future support to the participants."
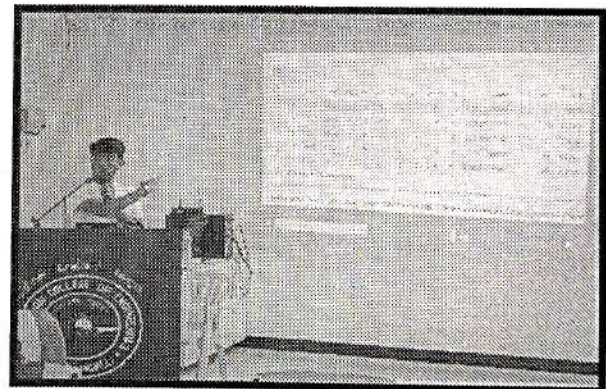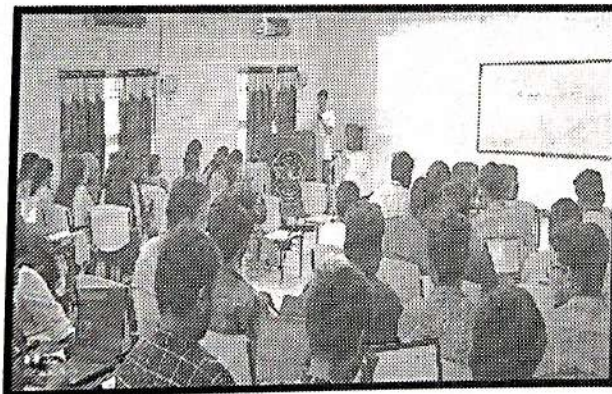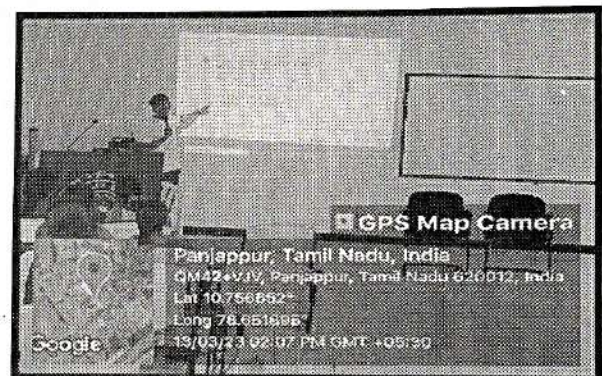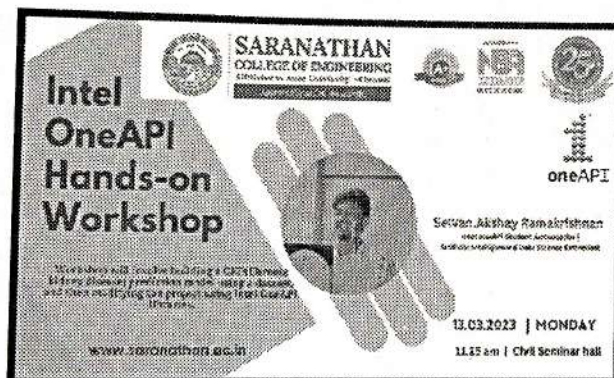
DEPARTMENT OF INFORMATION TECHNOLOGY

CIRCULAR

The Do-IT Association of Department of Information Technology has planned to conduct a webinar by Mr. Srinivasan, Technical Lead, Wipro Limited, Chennai on the topic "Advanced Programming in C++" for III-year students of Information Technology. All are invited toattend it without fail from 30.05.2022 to 04.06.2022.

Ms.J.SangeethaPriya

Coordinator

Dr. V Punitha

HOD/IT

SARANATHAN
COLLEGE OF ENGINEERING
(Affiliated to Anna University-Chennai, Approved by AICTE-New Delhi)
Venkateswara Nagar, Panjappur, Thiruchirappalli - 620012

NBA
NATIONAL BOARD ACCREDITATION
CSE ECE EEE ICE IT MECH

A+ NAAC

ACADEMIC EXCELLENCE
SILVER JUBILEE SOON

KNOWLEDGE IS POWER, STRENGTHEN IT AT SARANATHAN

DEPARTMENT OF INFORMATION TECHNOLOGY

DO - IT ASSOCIATION

Cordially invites you for

Hands-on Workshop on Advanced Programming in C++

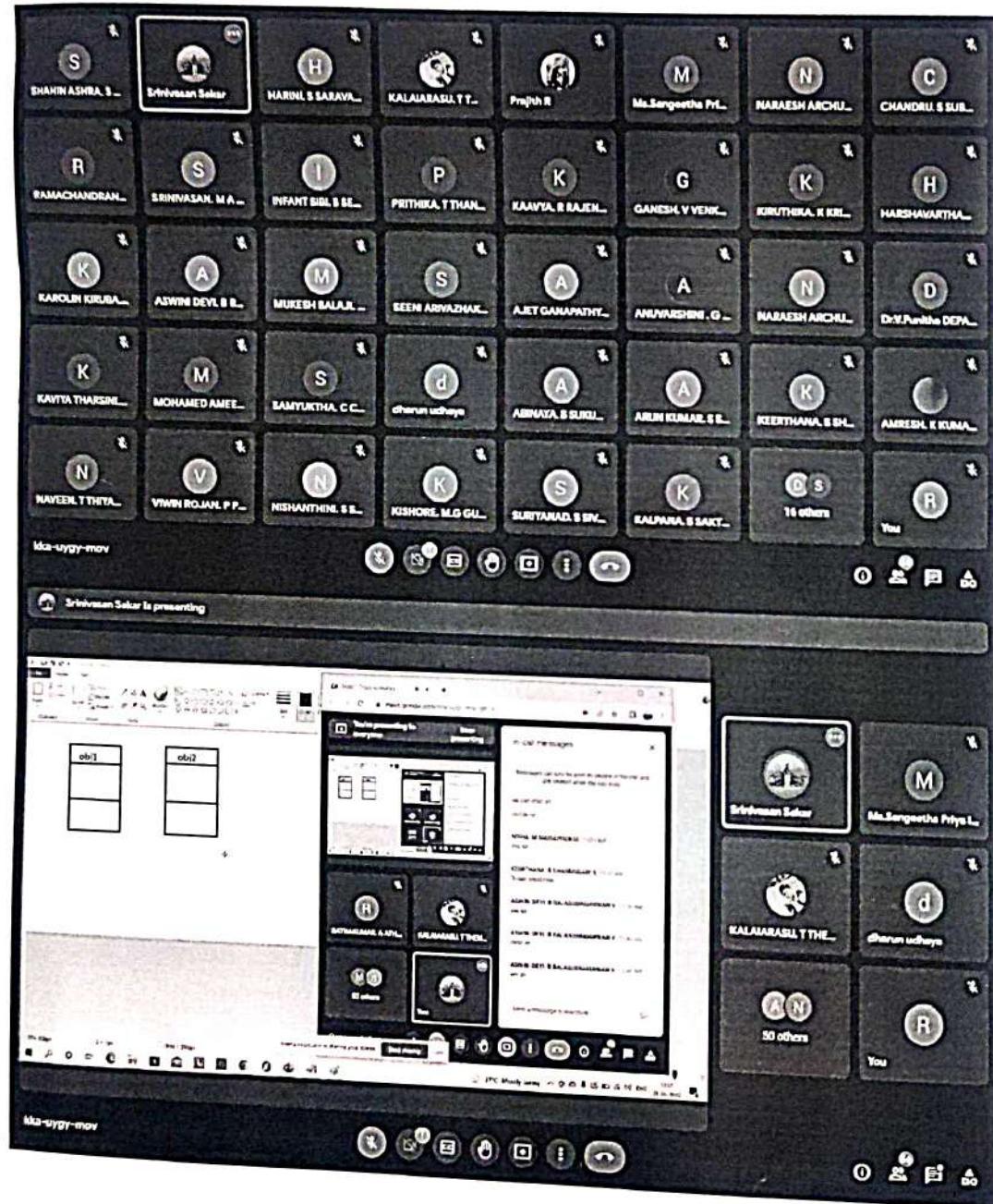### DATE : 30.05.2022

DAY : MONDAY

TIME : 10.15 A.M.

Via Google Meet

Meet Link : https://meet.google.com/kka-uygy-mov

Mrs. J. Sangeethapriya
Coordinator

Dr. V. Punitha
Head of the Department

Dr. D. Valavan
Principal

Photos:

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
TIRUCHIRAPALLI - 620 012.

Date: 30/05/202-04/06/2022

SCE/IT/2022

Headline:ADVANCED PROGRAMMING IN C++ - Reg.

In the academic year 2022-23, the DO-IT Association of Information technology department conducted a workshop from 30/05/2022-04/06/2022 for five days on the topic "Advanced programming in C++". The event was handled by Mr.Srinivasan, Technical Lead, Wipro Limited, Chennai for the third year IT students.The staff coordinator Ms.J.Sangeethapriyahelped in the smooth functioning of the event by organizing the same. The students were able to learn something new everyday as it was an interactive session. Mr.Srinivasan bridged the gap between the students and him which made the students raise more questions if they had doubts. The doubts were cleared then and there by him which was an added advantage. All the sessions didn't feel like a normal workshop since the resource person made it very engaging.The workshop washighly constructive for the students.

Coordinator

Ms. J Sangeethapriya, AP/IT

HoD/IT

Dr.V.Punitha

CIRCULAR

The Do-IT Association of Department of Information Technology has planned to conduct a Seminar on the topic **"Roadmap to Artificial Intelligence"** under the theme **"Just Do IT"**, for the II year students of Information Technology.
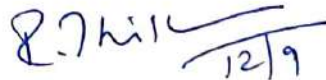
Resource Person : **Dr V Punitha**
Head Dept of Computer Science Engineering
Saranathan College of Engineering

Date : 15.09.2022

Time : 3:15 p.m to 4:30 p.m

Venue : IT Seminar Hall

Ms. Sangeetha Priya & Mr R Rengaraj
Programme Coordinators

Dr. R. Thillaikkarasi
HOD/IT

Panjappur, Tamil Nadu, India QM42+MMR, Panjappur,
Tamil Nadu 620012,
India
Lat 10.756601°
Long 78.651789°
15/09/22 04:09 PM GMT +05:30

Panjappur, Tamil Nadu, India QM42+MMR, Panjappur,
Tamil Nadu 620012,
India
Lat 10.756604°
Long 78.651793°
15/09/22 04:07 PM GMT +05:30

Panjappur, Tamil Nadu, India
QM42+GPJ, Panjappur, Tamil Nadu 620012, India
Lat 10.756424°
Long 78.651664°
15/09/22 03:54 PM GMT +05:30

Panjappur, Tamil Nadu, India
QM42+MMR, Panjappur, Tamil Nadu 620012, India
Lat 10.756597°
Long 78.651709°
15/09/22 04:02 PM GMT +05:30

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMMENT OF INFORMATION TECHNOLOGY
ENGINEER'S DAY CELEBRATION
JUST DO IT

DATE: 15-09-2022   YEAR : II

BATCH NO.	NAME	SIGNATURE
244001	AARTHI. I	
244002	ARUN KUMAR. J	
244003	ASIKA. M	
244004	ASWIN. B	
244005	AUKUSTIN. R C	
244006	BARATH. S	
244007	BHARADWAJ. R	
244008	CYRILSIGMOND. A	
244009	DHARSHANA. C	
244010	DILIP. R	
244011	DINESH. S	
244012	GAYATHRI. A	
244013	GLORY NIKITA. G	
244014	GOKULA KRISHNAJI. S J	
244015	HARISH. C	
244016	HARRIS SAMUEL. D	
244017	HARSHITHA. S	
244018	ISHWARYA. S	
244019	JAI PRAKASH. R	
244020	JANANI. M	
244021	JOANNE PRANITA. G	
244022	KABILAN. S	
244023	KAVIYA. S	
244024	KIRUTHIKA LAKSHMI. D	
244025	KISHORE KUMAR. S	
244026	KUMARA KABILAN. P	
244027	LOKESH. T	
244028	MADHUMITA. V	
244029	MANIKANDAN. M	
244030	MANIKANDAN. S	
244031	MANJU SRI. S	
244032	MOHAN BABU. V	
244033	MURUGANANTHAN. C	
244034	MUTHU KUMAR. S	
244035	NEELAVENI. S	
244036	NIKILRAJ. L	
244037	NIVETAA. M	

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMMENT OF INFORMATION TECHNOLOGY
ENGINEER'S DAY CELEBRATION
JUST DO IT

DATE: 15-09-2022   YEAR : II

244038	NIVETHETHAA. A S	A.S.Nivethethaa
244039	PRIYADHARSHINI. S	S. Priyadharshini
244040	RAMA MARIYAPPAN. K	Rama Mariyappan K.
244041	RAMALAKSHMI ALIES PONMATHI. S	Ram
244042	RAMYA. B	B Ramya
244043	SABREEN BEGAM. M	M. Subin B at
244044	SAI ARAVIND. S	S. Sai aravind
244045	SARAVANAKKUMAR. D	D Salvetu
244046	SELLINE. E	E. Selline
244047	SIBINESH. G	G. Sibinesh
244049	SRI DHANALAKSHMI. R	R. Sri Dhanalakshmi
244050	SRIHARIHARAN. T	T. Srihariharan
244051	SRIVIGNESH. S M	S M J Vignesh
244052	SUBHASHINI. R	R. Subhashini
244053	SUVETHA. V	V Sutha
244054	THIRISHA SRI. J	J. Thirishasri
244055	VEERENDRAN. A	A Veerendran
244056	VENGADASHAN. S	S. V
244057	VIBILAN. S	
244058	VIJAY. I	T. Vijay
244059	VISHNU PRIYA. S	S. Vishnu Priya
244060	VISHWA. S	S. Vishwa
244061	YAMUNA. B	B. Yuj
244062	SIVADHARSHINI. R B	R. B. Sivadharshini
244063	GOKULAN. G	G. Goku
244064	RICHARD AARON. S	S. Richard Aaron

FACULTY CO-ORDINATOR   Head of Department

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
TIRUCHIRAPALLI - 620 012.

Date: 15/09/2022

SCE/IT/2022/Seminar

JUST DO IT- Roadmap to Artificial Intelligence - Reg.

In the academic year 2022-23, In commemorating Engineer's day on September 15,2022, the DO-IT Association of Information Technology Department organised a seminar on "Roadmap to Artificial Intelligence" under the theme "JUST DO IT" for the II year students of the Department of IT of our college from 3:15pm - 4:30pm at the IT Seminar Hall. Dr V Punitha, Head Department of Computer Science Engineering, Saranathan College of Engineering was the resource The event commenced with the Welcome Address by Ms G.Glory Nikita, II year student of B.Tech IT, followed by the lecture by the resource person, Dr.V Punitha. She discussed about the various applications of Artificial Intelligence and how Humans differ from Robots. She also explained about the Robots Eliza and Alice, their characteristics and their chatbots. She gave a real life problem and encouraged the students to develop automation ideas and to implement it in a cost effective ways The session came to an end with the resource person answering the questions and clearing the doubts of the students who were enthusiastic in knowing more about the same. Ms G.Joanne Pranita, II year student of B.Tech IT concluded the meeting with vote of thanks and wished everyone on Engineer's Day. The students were highly benefited by this event.

Coordinators 19/5/22

Ms. J. Sangeethapriya AP/IT
Mr R Rengaraj AP/IT

HoD-IT

Dr.R.Thillaikkarasi

Student Coordinators
G . Joanne Pranita
G. Glory Nikita

DEPARTMENT OF INFORMATION TECHNOLOGY

Cordially invites you all for the Guest Lecture on

" A Roadmap to React JS "

Chief Guest

Mr. Asttle Joseph,
Lead Software Engineer,
Workhall, Bengaluru

Date : 08/10/2022
Time : 11.00 A.M.
Venue : Seminar Hall, JS Block
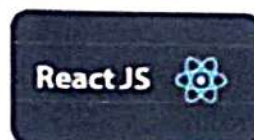
React JS

r. R. Thillaikarasi   Dr. D. Valavan   Shri. S. Ravindran
HOD   Principal   Secretary

Honorarium Mandate Form (For Individuals)

1	Name of the Beneficiary	Asttle Joseph
2	Name of the institute/College/ University/Organization	Workhall Private limited
3	Complete Designation	Lead Software Engineer
4	Complete address of the Beneficiary for communication	201, P.G. nagar, E.B. Colony, k.k. nagar, Trichy PIN 620021
5	Mobile/Telephone no. of the Beneficiary	8667254203
5	Email ID of the Beneficiary	asttle1997@gmail.com
7	Amount or Mention Cheque number or DD number if any	Rs. 1500-/-
3	Purpose of Honorarium	Travelling allowance

ereby declare that the particular given above are correct and complete. Thanks

te: 08.10.2022

ce: Trichy

J. Astl .

Signature of Account holder

DEPARTMENT OF INFORMATION TECHNOLGY

External Resource Person Details

	Name of the Resource person	Asttle Joseph
	Name of the institute/College/ University/Organization	Workhall Private limited
	Complete Designation	Lead Software Engineer
	Complete address of the Resource person for communication	201, P.G. Nagar EB. Colony
		k.k. nagar, Trichy
		PIN 620021
5	Mobile/Telephone no. of the Beneficiary	8667254203
6	Email ID of the Beneficiary	asttle1997@gmail.com
7	Interaction/ Topic/ Purpose of Visit	Lecture – A Roadmap to React Js
8	Date of Visit	08.10.2022

Date: 08.10.2022

Place: Trichy

J. Asttl

Signature of Account holder

Employer Feedback on Syllabus

[1] **Personal Information**

Name of the HR/Team Leader/ Manager : Astlle Joseph

Name of the Company /Organization : Workhall Private limited

Designation of the Employer : Lead Software Engineer

Employer contact Mobile No. (Optional) : 8667254203

Employer contact E - Mail Id . (Optional) : astlle1997@gmail.com

[2] Choose appropriate option against each question
(Please rate your preference) (Please kindly encircle your choice)
Disagree (DA) – 0;   Partially Agree (PA) – 1;   Agree (A) -2; Strongly Agree (SA) – 3;

a) The Curriculum is designed to bridge the gap between academics and industry

   0   1   2   3

b) The Curriculum is designed to bridge the gap between Theory and Practical

   0   1   2   3

c) The Curriculum is designed for enhancing employability skills

   0   1   2   3

d) The syllabus covers modern & advanced topics

   0   1   2   3

e) The Curriculum is effective in developing innovative thinking skills

   0   1   2   3

f) The Current syllabus is need based

   0   1   2   3

g) The Curriculum paves a way for the students to become entrepreneurs

   0   1   2   3

[3] Suggestions for Add-on Courses if any: Yes / No

If yes, mention the Add-on Course detail

Modern Javascript 2022.

SIGNATURE

SARANATHAN
COLLEGE OF ENGINEERING

(Affiliated to Anna University-Chennal, Approved by AICTE-New Delhi)

Venkateswara Nagar, Panjappur, Thiruchirappalli - 620012

SCE/IT/2022

Headline: Reg - Seminar on Git and GitHub

In the academic year 2022-2023, on November 17, the DO-IT Association of Information Technology Department conducted a **Seminar on Git and GitHub** by **Ratnakumar A and Naraesh Archun K - Final Year (Department of IT)** for **Third year students of IT**. This seminar commenced from 11.15 A.M. to 12.45 P.M. and it was conducted in **R.V.301**. For this seminar, a total of 46 students were participated and all these 46 members were utilized this seminar to the fullest.

Event Images :

Panjappur, Tamil Nadu, India
QM42+GPJ, Panjappur, Tamil Nadu
620012, India
Lat 10.756442°
Long 78.651542°
17/11/22 12:17 PM GMT +05:30

Panjappur, Tamil Nadu, India
QM42+MMR, Panjappur, Tamil Nadu
620012, India
Lat 10.756508°
Long 78.651535°
17/11/22 12:02 PM GMT +05:30
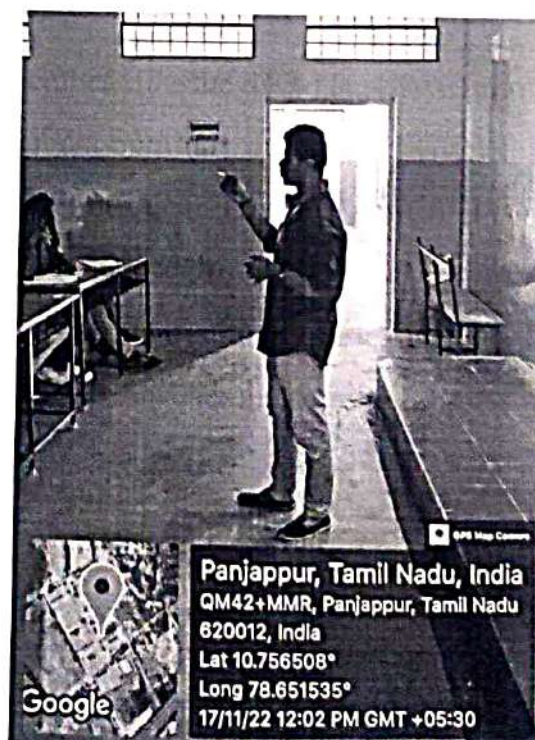
Panjappur, Tamil Nadu, India
QM42+GPJ, Panjappur, Tamil Nadu 620012, India
Lat 10.756443°
Long 78.651532°
17/11/22 11:40 AM GMT +05:30

Panjappur, Tamil Nadu, India
QM42+GPJ, Panjappur, Tamil Nadu 620012, India
Lat 10.756453°
Long 78.651555°
17/11/22 11:16 AM GMT +05:30

Panjappur, Tamil Nadu, India
QM42+MMR, Panjappur, Tamil Nadu 620012, India
Lat 10.756532°
Long 78.65155°
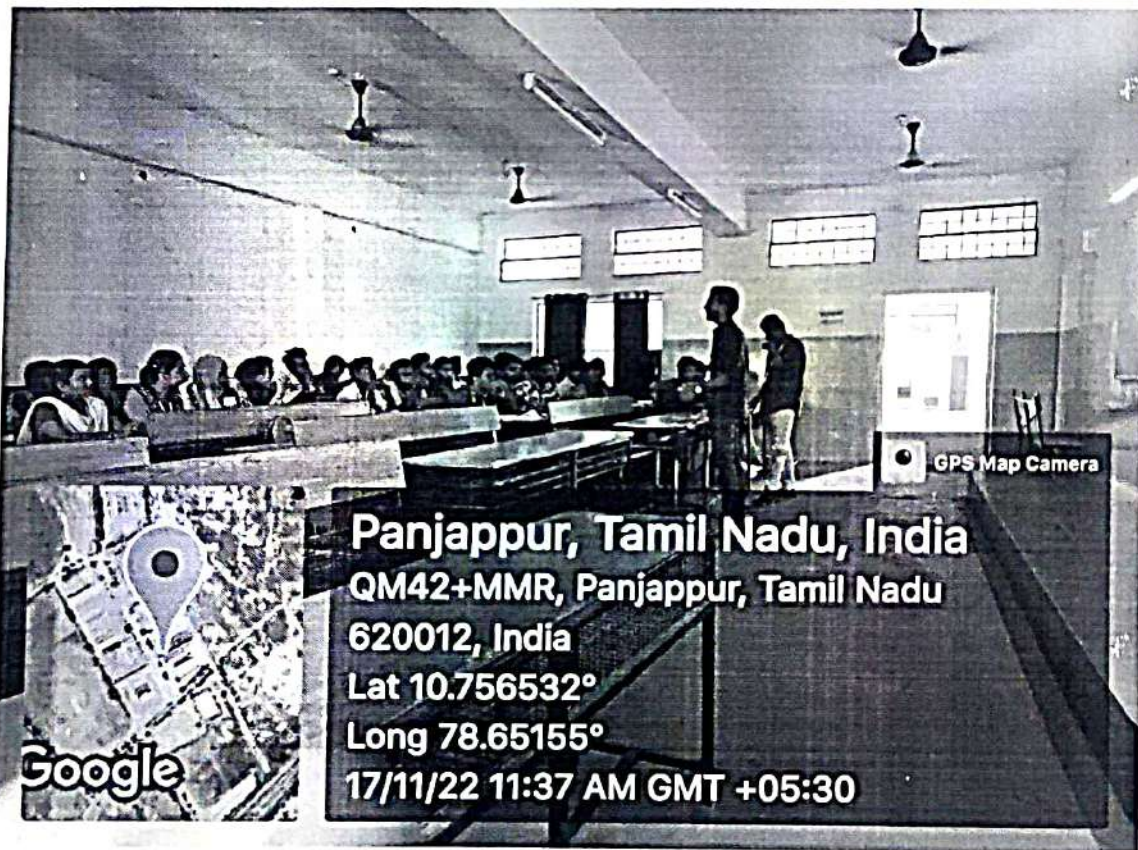17/11/22 11:37 AM GMT +05:30

Panjappur, Tamil Nadu, India
QM42+GPJ, Panjappur, Tamil Nadu 620012, India
Lat 10.756447°
Long 78.651529°
17/11/22 12:03 PM GMT +05:30

Panjappur, Tamil Nadu, India
QM42+FM4, Panjappur, Tamil Nadu 620012, India
Lat 10.756263°
Long 78.651581°
17/11/22 11:28 AM GMT +05:30

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
DO-IT ASSOCIATION
SEMINAR ON GIT & GITHUB
STUDENTS ATTENDANCE   DATE : 17-11-2022

S.No	BatchNo	Regno	Name	Signature
1	234001	813820205001	ALMAS BEGUM. M	
2	234002	813820205002	ARUL SAMUEL. A	
3	234003	813820205003	ARUN RADHAKRISHNAN	
4	234004	813820205004	AVINASH. P	
5	234005	813820205005	BALAMURUGAN. R	
6	234006	813820205006	BALAPAVITHRAN. P	
7	234007	813820205007	CHIBI NARAYANA. B	
8	234008	813820205008	DIVYE DARSHINY. S	
9	234009	813820205009	GOUTHAM. R	
10	234010	813820205022	NITHIYASRI H	
11	234011	813820205010	ILAKKIA. E	
12	234012	813820205011	KAMALNATH. D	
13	234013	813820205012	KAVISELVAN. S	
14	234014	813820205013	KRISHNAKUMAR. D	
15	234015	813820205014	LETITIA. A	
16	234016	813820205015	LINGESH WARAN. G	
17	234017	813820205016	LOGESHWARAN. S	
18	234018	813820205017	LOKESHWAR. S A	

19	234019	813820205018	MAHABOOB NISHA. N	
20	234020	813820205019	MANIBHARATHI. M	
21	234021	813820205020	NAVEENKUMAR. S	
22.	234022	813820205021	NIRANJANA. R	
23	234023	813820205024	PARKAVI. B	
24	234024	813820205025	PAVETHRA. A	
25	234025	813820205026	POONKUNRAN. T	
26	234026	813820205023	PRAGADEESHRAM. S	
27	234027	813820205027	PRIYA DARSHINI. P	
28	234028	813820205028	PRIYADHARSHNI. K	
29	234029	813820205029	RAHUL. B S	
30	234030	813820205030	RAJALAKSHMI. R	
31	234031	813820205031	RAJKUMAR. M	
32	234032	813820205032	RITHEKA. B	
33	234033	813820205033	ROHEETH KUMAR. R J	
34	234034	813820205034	ROSHINI.N	
35	234035	813820205036	SHAMABANU	
36	234036	813820205037	SHAMEENA BANU. S	
37	234037	813820205038	SHUNMUGA PRIYA. M	
38	234038	813820205039	SIVANESH. S	
39	234040	813820205041	SRINATH. M	

40	234041	813820205042	SUBRAJA. C	
41	234042	813820205043	SUDHAN KUMAR. S S	
42	234043	813820205044	SWETHA. S	
43	234044	813820205045	UMA. M	
44	234045	813820205046	VENKATRAMAN. S S	
45	234046	813820205047	VIGNESHWARAN. M	
46	234047	813820205035	SAMUVEL. A	
47	234048	813820205301	IMRAN AHAMED. A B	
48	234049	813820205302	PRAVEEN KUMAR. K	
49	234050		RAMAJEYAM. A	

Analysis of Feedback about the Seminar among Students :

Total points distribution

Points scored
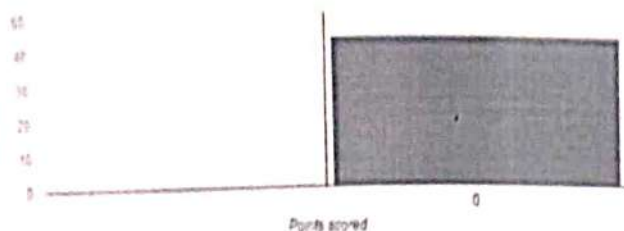
Whether You Satisfied in this Seminar Session ??
43 responses

- Yes
- No

Yes
43 (100%)

100%
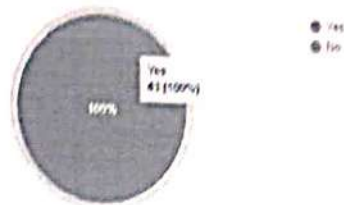
Performance Scale / Content Deliver

43 responses

Rating	Count
1	0 (0%)
2	0 (0%)
3	1 (2.3%)
4	10 (23.3%)
5	32 (74.4%)
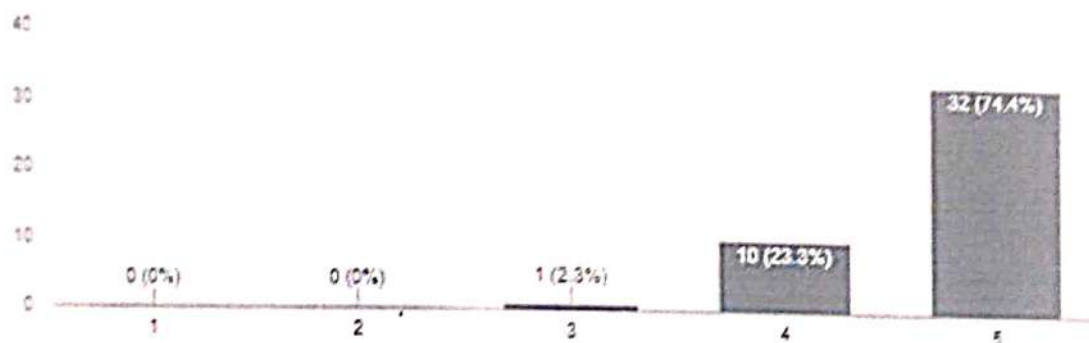
Hands On Explanation

43 responses

Rating	Count
1	0 (0%)
2	0 (0%)
3	4 (9.3%)
4	12 (27.9%)
5	27 (62.8%)
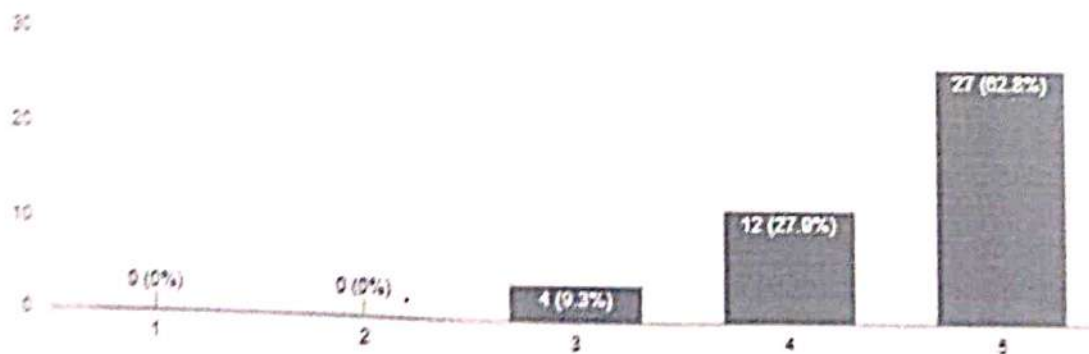
(Feedback Responses Received through Google Form from III Year Students)

Coordinator

Mr. V. Senthil Balaji, AP/IT

HoD-IT

Dr.R.Thillaikarasi

SARANATHAN
COLLEGE OF ENGINEERING

(Approved by AICTE and Affiliated to Anna University, Chennai)

(Accredited by NAAC with A+ Grade)

Venkateswara Nagar, Panjappur, Tiruchirapalli - 620012

Department of Information Technology

SILVER JUBILEE ELITE LECTURE SERIES

Lecture 05
on

NATURAL LANGUAGE PROCESSING

by

Dr. DHARBANESHWER S J
Senior Data Scientist
Entropik Tech

DATE : 17.02.2023   TIME : 10.30 AM

Venue : MBA Seminar Hall

All are cordially invited!

Dr. R.Thillaikarasi	Dr. D.Valavan	S. Ravindran
HoD / IT	Principal	Secretary
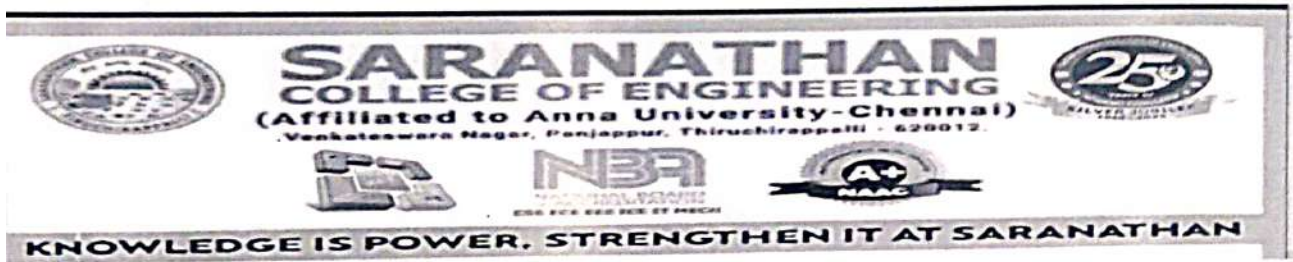
External Resource Person Interaction

Name of the Resource Person	Dr. Dharbaneshwer. S. J.
Name of the institute/College/ University/Organization	Entropik Tech.
Complete Designation	Senior Data Scientist.
Complete address of the Beneficiary for communication	S2, Shelter Apb, Jagannathapuram, 1st Main Rd, PIN Chennai - 42
Mobile/Telephone no. of the Beneficiary	8754483248
Email ID of the Beneficiary	sjdharba@gmail.com
Interaction /Topic/ Purpose of Visit	Silver Jubilee Lecture -5. on "Natural Language Processing"
Date of Visit	17.2.2023

: 17.2.2023

:: Trichy-12.

S.J.

Signature of Resource Person

Honorarium Mandate Form (For Individuals)

Name of the Beneficiary	Dr. Dharbaneshwer. S.J
Name of the institute/College/ University/Organization	Entropik Tech
Complete Designation	Senior Data Scientist.
Complete address of the Beneficiary for communication	S2, Shelter Apt, Jagannathapuram 1st Main Rd, PIN Chennai – 42.
Mobile/Telephone no. of the Beneficiary	8754483248
Email ID of the Beneficiary	sjdharba @ gmail.com
Account No (with IFSC) / Cheque number / DD number if any	0000002017671 7642 SBIN0011718
Purpose of Honorarium	RS. 5000-/- for delivering Lecture (silver jubilee Elite lecture Series)

eby declare that the particular given above are correct and complete. Thanks

17.2.2023
Trichy-12

S.J.

Signature of Account holder

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Accredited by NAAC with A+ grade -Affiliated to Anna University, Chennai-25)

DEPARTMENT OF INFORMATION TECHNOLOGY (Accredited by NBA)

SCE/IT /Silver Jubilee Elite Lecture Series / 2022-2023/   Date: 10-02-2023

Submitted to   : The Secretary

Submitted through : The Principal

Submitted by   : Dr.R.Thillaikarasi, Professor and Head / IT

Sub   : Proposal for organizing a guest lecture as a part of the Silver Jubilee Elite Lecture Series –reg.,

Respected sir,

       It is planned to invite Mr.Dharbaneshwer S J, Senior Data Scientist – Entropik Technologies, WorkEZ Coworking Space, Chennai, India are to deliver a Guest Lecture as a part of Silver Jubilee Elite Lecture Series on 17-02-2023 between 10:30 am and 12:30 pm.

       The budget proposal for organizing the event is enclosed herewith.

SNo	Description	Estimated Budget
1.	Honorarium	5000
2.	Travelling Expenses – Train tickets	2000
3.	Accommodation @ Hotel Ajantha	2000
4.	Local Conveyance	5⁰⁰ 1000
5.	Miscellaneous	5⁰⁰ 1000 ?
	Total	~~11000~~ 10000

10,000   Ten

       Estimated Budget is Rs. 11,000/- (Eleven thousand only). Our respected Principal is requested to accord approval for the above proposal and forward the same to our Honourable Secretary for further approval.

Thanking you,

R.Jhill 10/2/23

yours faithfully,

Dr.R.Thillaikarasi / Professor and Head (IT)

Principal 10/2/2023

Approved.
R.-
5.2.-
10/02/2023
Secretary

Venkateswara nagar, Panjappur, Tiruchirapalli- 620 012, Tamil Nadu, India.
www.saranathan.ac.in

SARANATHAN COLLEGE OF ENGINEERING

VENKATESWARA NAGAR, PANJAPPUR, TIRUCHIRAPPALLI-620012

DEPARTMENT OF MECHANICAL ENGINEERING
PROUDLY PRESENTS

EFFICIENCY-2K22

INTER-COLLEGE TECHNICAL SYMPOSIUM

EVENT REPORT

Image1: Event Poster

Event Description:

Department of Mechanical Engineering, Saranathan College of Engineering Successfully Organized the Efficiency-2k22 Technical Symposium on 29th October 2022 in our college. Around 79 students from about 25 colleges actively participated in various Technical and Non-Technical Events. **Dr. G. Jayaprakash**, HOD of the Mechanical Engineering Department, **Dr. D. Valavan**, Chief Guest & Principal of Saranathan College of Engineering, Tiruchirappalli, **Dr. G. Mahesh**, Event Staff Coordinator, **Mr. C. Srivardhan**, Event Student Coordinator Inaugurated the event. Various Technical & Non-technical Events were successfully organized with the help of Event Coordinators **Ms. R. Abinaya, Ms. S. Radhakrishnan, Mr. M. I. Mohamed Ajmal, Mr. N. Pragadeesh, Mr. M. Naveen**, and event volunteers. Lunch and Refreshments were provided to all the participants in our College Cafeteria. The Prize Distribution Ceremony was organized after the completion of all the events. **Dr. G. Jayaprakash**, HOD of the Mechanical Engineering Department, **Dr. G. Mahesh**, Event Staff Coordinator, **Mr. P. V. Rajesh**, Event Staff Coordinator, and **Dr. M. R. Anantha Padmanaban**, Associate Professor felicitated the event winners with Cash Awards, Medals, and Certificates. The event was successfully completed with positive feedback from the participants.

*Image 2: Inauguration Program: From Right **Mr. C. Srivardhan,** Event Student Coordinator, **Dr. G. Jayaprakash,** HOD-Department of Mechanical Engineering, **Dr. D. Valavan,** Chief Guest & Principal, Saranathan College of Engineering, Tiruchirappalli, **Dr. G. Mahesh,** Event Staff Coordinator.*

Image 3: Event Reception Committee

Image 4: Paper Presentation Event

Image 5: Con-nec-tion Event

Image 6: Quiz-Wize Event

Image 7: Paper Presentation Event Juries with Event Coordinators and Volunteers

Image 8: Mr./Ms. Efficient (Title Event) HR Interview

Image 9: Prize distribution (Title Winner)

Image 10: Event Emcee by Mr. V. R. Muthu Sai Charan & Ms. R. Abinaya

Image 11: Event Vote of Thanks by Mr. M. I. Mohamed Ajmal

Image 12: Event Coordinators & Volunteers with staff members

SARANATHAN

COLLEGE OF ENGINEERING

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620 012,

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

(Accredited by NAAC with A+ Grade)
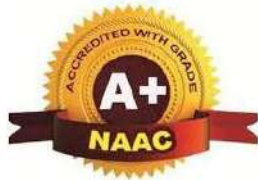
Department of Mechanical Engineering

(Accredited by NBA)

Cordially invites you all for the

A Faculty Development Programme

on

Application of Topology Optimization in Product Design

Dr. T.Ramesh

Assoc.Prof., Mechanical Engineering Dept.
National Institute of Technology - Tiruchirappalli

has kindly consented to deliver expert lecture

Venue : M.E Block Seminar Hall & CAD lab
Date : 20.01.2023
Time : 10.00 AM to 4:00 PM

Dr.G.Jayaprakash	**Dr.D.Valavan**	**Shri.S.Ravindran**
HoD/MECH	**Principal**	**Secretary**

3.2.1 Patents Filled / Published /Granted (Academic Year 2022 -2023)

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed on (DD/MM/YYYY)	Patent Published on (DD/MM/YYYY)	Patent Publication Number / Patent Granted Number
1	202241032479	Published	Dr.G.Mahesh Dr. N.Baskar Dr.M.R. Ananthapadmanaban Dr.M.Ganesan Mr.S.Karthikeyan	An Apparatus for Sand mould casting	Dr.G.Mahesh Dr. N.Baskar Dr.M.R. Ananthapadmanaban Dr.M.Ganesan Mr.S.Karthikeyan	7/6/2022	17/6/2022	202241032479
2	202241027519	Published	1 . Dr. S. Raviraja 2 . Ms.Sangeethapriya.J 3 . Ms.A.Sheelavathi 4 . Dr. V.Punitha 5 . Ms.N.Bhavani 6 . Ms.K.Muthukarupaee 7 . Mr. D. Saravanan 8 . Ms.Patrali Pradhan 9 . Dr. Swati Chowdhuri 10 . Dr.Biswarup Neogi	SMART ENERGY MANAGEMENT SYSTEM USING MACHINE LEARNING AND IOT	1 . Dr. S. Raviraja 2 . Ms.Sangeethapriya.J 3 . Ms.A.Sheelavathi 4 . Dr. V.Punitha 5 . Ms.N.Bhavani 6 . Ms.K.Muthukarupaee 7 . Mr. D. Saravanan 8 . Ms.Patrali Pradhan 9 . Dr. Swati Chowdhuri 10 . Dr.Biswarup Neogi	13/5/2022	27/5/2022	202241027519
3	202341002575	Published	1)Dr.A.Mercy Vasan 2)Dr. Rosanna Lakshmi Narayana 3)Dr.Anil Kumar Saxena 4)Dr. C. JAYANTHI 5)Mr. Anil Srivastava 6)Dr. A K DAMODARAM 7)Ms. S.Geerthana 8)Dr. Vijay Kumar Salvia 9)Dr. Rajesh B. Survase 10)Dr. Belsam Jeba Ananth. M 11)Dr. Harikumar Pallathadka	INTERNET OF THINGS (IOT) WITH AI-BASED REMOTE REAL-TIME MONITORING AND SAFETY SYSTEMS FOR DETECTING EARTHQUAKES AND FIRES	1)Dr.A.Mercy Vasan 2)Dr. Rosanna Lakshmi Narayana 3)Dr.Anil Kumar Saxena 4)Dr. C. JAYANTHI 5)Mr. Anil Srivastava 6)Dr. A K DAMODARAM 7)Ms. S.Geerthana 8)Dr. Vijay Kumar Salvia 9)Dr. Rajesh B. Survase 10)Dr. Belsam Jeba Ananth. M 11)Dr. Harikumar Pallathadka	1/12/2023	20/01/2023	202341002575

An Apparatus for Sand mould casting

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/06/2022

(21) Application No.202241032479 A

(43) Publication Date : 17/06/2022

(54) Title of the invention : AN APPARATUS AND METHOD FOR MAKING MOULDS

(51) International classification	:A23G0009220000, B29C0033100000, B60R0021239000, B09B0003000000, F25D0011000000	(71)Name of Applicant : 1)Dr. G. MAHESH Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SARANATHAN COLLEGE OF ENGINEERING, VENKATESWARA NAGAR, PANJAPPUR, TIRUCHIRAPPALLI, TAMILNADU, INDIA-620012. ----------- ---------- 2) Dr. N. BASKAR 3)Dr. M. R. ANANTHA PADMANABAN 4)Dr. M. GANESAN 5)Mr. S. KARTHIKEYAN Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. G. MAHESH Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SARANATHAN COLLEGE OF ENGINEERING, VENKATESWARA NAGAR, PANJAPPUR, TIRUCHIRAPPALLI, TAMILNADU, INDIA-620012. ----------- ---------- 2)Dr. N. BASKAR Address of Applicant :PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SARANATHAN COLLEGE OF ENGINEERING, VENKATESWARA NAGAR, PANJAPPUR, TIRUCHIRAPPALLI, TAMILNADU, INDIA-620012. ----------- ---------- 3)Dr. M. R. ANANTHA PADMANABAN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SARANATHAN COLLEGE OF ENGINEERING, VENKATESWARA NAGAR, PANJAPPUR, TIRUCHIRAPPALLI, TAMILNADU, INDIA-620012. ----------- ---------- 4)Dr. M. GANESAN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SARANATHAN COLLEGE OF ENGINEERING, VENKATESWARA NAGAR, PANJAPPUR, TIRUCHIRAPPALLI, TAMILNADU, INDIA-620012. ----------- ---------- 5)Mr. S. KARTHIKEYAN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SARANATHAN COLLEGE OF ENGINEERING, VENKATESWARA NAGAR, PANJAPPUR, TIRUCHIRAPPALLI, TAMILNADU, INDIA-620012. ----------- ----------
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The main purpose of the vent holes used to escape the exhaust gas and also serving to the cast for removing heat from the mould box in sand casting. The vent holes are made by vent wire and the standard vent hole dimensions are 3mm, 5mm and 7mm diameters. The maximum percentages of exhaust gas will escape for those diameters of vent holes and after certain time the heat transfer rate is very less through the vent holes. In this invention, three vent hole diameters (according to mould boxes size) are increased and inserted the copper tube with simple motor device to improve the heat transfer rate. The copper tubes made by standard holes and top the tube is attached simple motor with fan. The high thermal conductivity of copper tube is used to observe more heat from the molten metal zone. The motor with fan works by forced convective heat transfer from the mould boxes.

No. of Pages : 12 No. of Claims : 6

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते

INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202241027519
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/05/2022
APPLICANT NAME	1 . Dr. S. Raviraja 2 . Ms.Sangeethapriya.J 3 . Ms.A.Sheelavathi 4 . Dr. V.Punitha 5 . Ms.N.Bhavani 6 . Ms.K.Muthukarupaee 7 . Mr. D. Saravanan 8 . Ms.Patrali Pradhan 9 . Dr. Swati Chowdhuri 10 . Dr.Biswarup Neogi
TITLE OF INVENTION	SMART ENERGY MANAGEMENT SYSTEM USING MACHINE LEARNING AND IOT
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	drsraviraja@gmail.com
ADDITIONAL-EMAIL (As Per Record)	drsraviraja@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	27/05/2022

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/01/2023

(21) Application No.202341002575 A

(43) Publication Date : 20/01/2023

(54) Title of the invention : INTERNET OF THINGS (IOT) WITH AI-BASED REMOTE REAL-TIME MONITORING AND SAFETY SYSTEMS FOR DETECTING EARTHQUAKES AND FIRES

(51) International classification :G06Q0050260000, G06Q0050020000, G08B0021100000, G01V0001000000, G06Q0050200000
(86) International Application No :PCT//
  Filing Date :01/01/1900
(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 :**
	  1)**Dr.A.MERCY VASAN**
	   Address of Applicant :Associate Professor Department of Mechanical Engineering Saranathan College of Engineering Panjapur Trichy Pin: 620012 Tamilnadu India ----------- -----------
	  2)**Dr. Rosanna Lakshmi Narayana**
	  3)**Dr.Anil Kumar Saxena**
	  4)**Dr. C. JAYANTHI**
	  5)**Mr. Anil Srivastava**
	  6)**Dr. A K DAMODARAM**
	  7)**Ms. S.Geerthana**
	  8)**Dr. Vijay Kumar Salvia**
	  9)**Dr. Rajesh B. Survase**
	  10)**Dr. Belsam Jeba Ananth. M**
	  11)**Dr. Harikumar Pallathadka**
	Name of Applicant : NA
	Address of Applicant : NA
	(72)**Name of Inventor :**
	  1)**Dr.A.MERCY VASAN**
	Address of Applicant :Associate Professor Department of Mechanical Engineering Saranathan College of Engineering Panjapur Trichy Pin: 620012 Tamilnadu India ----------- -----------
	  2)**Dr. Rosanna Lakshmi Narayana**
	Address of Applicant :Academic Consultant Department of Instrumentation, Sri Krishnadevaraya University Anantapur Pin:515003 Andhra Pradesh India ----------- -----------
	  3)**Dr.Anil Kumar Saxena**
	Address of Applicant :Professor LNCT college Kalchuri Nagar Bhopal Pin:462022 Madhya Pradesh India ----------- -----------
	  4)**Dr. C. JAYANTHI**
	Address of Applicant :Assistant Professor PG & Research Department of Computer Science Government Arts College (Autonomous), Karur Pin:639005 Tamilnadu India ----------- -----------
	  5)**Mr. Anil Srivastava**
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(57) Abstract :
INTERNET OF THINGS (IOT) WITH AI-BASED REMOTE REAL-TIME MONITORING AND SAFETY SYSTEMS FOR DETECTING EARTHQUAKES AND FIRES. Abstract: In the big data environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, information resources, technology, services, processes, platforms, and environment has been constructed Artificial intelligence (AI) is one of the emerging trends and applications of computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of artificial intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of artificial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersive learning among others. Although the incorporation of artificial intelligence in libraries can be perceived to alienate librarians from their users, it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Artificial intelligence will greatly improve library operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society Smartphones and the Internet of Things have reached a level of maturity where they can now be used to monitor real-time settings. In recent years, considerable work has gone into building a cell phone-based earthquake early warning system. In this technique, inexpensive acceleration sensors are installed in mobile phones and used to capture earthquake activity. However, a smartphone's powerful CPU, large memory, and various sensors would be rendered ineffective if utilised solely for earthquake detection. A second concern is that the collected data cannot be used to assess whether or not a quake was caused by humans, given the majority of individuals use their smartphones during the day. The most advanced IoT technology envisions a global network of intelligent, physical objects that are interconnected. The Internet of Things (IoT) is an intriguing new technology with multiple uses, including crisis management. The Internet of Things is widely used and plays a crucial role in emergency management. Long-term, their efforts may save lives. This article will examine how the Internet of Things can be utilised to assist with crisis management. It compares and contrasts IoT-based disaster management strategies with other options now available on the market and investigates how they may be used to a range of emergencies. Some Internet of Things applications, including an early-warning system for fire detection and seismic monitoring, are exhibited. Discussions of the applications, the architecture of the Internet of Things, and the study's focus on various types of natural disasters involve a diverse array of techniques.

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