



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING



Approved by All India Council for Technical Education, New Delhi
Affiliated to Anna University, Chennai
NAAC Accredited Institution & NBA Accredited Courses (Mech. Engg., ECE, CSE, IT)
"Nizara Educational Campus" Muthapudupet, Avadi-IAF, Chennai - 55.

2.3.1 Student centric experiences using ICT tools. Methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning

3.PROBLEM SOLVING METHODOLOGIES	
1	PROBLEM SOLVING ASSIGNMENT
2	HACKATHON
3	TECHNICAL CONTEST/ SYMPOSIUM

1. PROBLEM SOLVING ASSIGNMENT



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PROBLEM BASED ASSIGNMENT

REGULATION 2017

S.NO	SUBJECT CODE/ SUBJECT NAME	ASSIGNMENT
1.	CS8391 – DATA STRUCTURES	Develop best suited Data Structures for solving real world problem
2.	CS8451-DESIGN AND ANALYSIS OF ALGORITHMS	Case Study Problem: Design Job Scheduling for a Data Center
3.	CS8493-OPERATING SYSTEMS	Case Study Problem: Process Scheduling in a Multi-User Operating System Imagine you are tasked with designing a process scheduling algorithm for a multi-user operating system. The system needs to efficiently manage processes from multiple users while ensuring fairness and responsiveness.
4.	CS8591-COMPUTER NETWORKS	Case Study Problem: Designing a Reliable File Transfer Protocol (FTP) Imagine you are tasked with designing a reliable file transfer protocol (FTP) that ensures efficient and error-free transmission of files over a network. Your protocol should handle issues such as data loss, packet reordering, and network congestion.
5.	CS8592-OBJECT ORIENTED ANALYSIS AND DESIGN	Case Study Problem: Designing an Online Shopping System Imagine you are tasked with designing an object-oriented system for an online shopping platform. The system should support browsing products, adding items to a shopping cart, processing payments, and managing orders.

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20
20

HOSPITAL MANAGEMENT SYSTEM

Naveen.T

110121205040

Create a Database application for Hospital Management System with ER diagram.

Designing a hospital management system (HMS) database involves designing and identifying the core entities and relationships involved in managing patients, doctors, staff, appointments, treatments, prescriptions, billing, and more.

Entities (Tables)

The main entities in a hospital management system includes

- i) patient
- ii) Doctors
- iii) Registration / Appointment
- iv) Medical Record
- v) Administration
- vi) Bills.



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Database schema / Queries:

1. PATIENTS TABLE

Stores basic information about patients.

Query:-

```
CREATE TABLE patients (
```

```
    PatientID INT PRIMARY KEY AUTO-INCREMENT,
```

```
    FirstName VARCHAR(50),
```

```
    Last Name VARCHAR(50),
```

```
    Gender char(1),
```

```
    Date of Birth DATE,
```

```
    Address VARCHAR(255),
```

```
    phone VARCHAR(15),
```

```
    Email VARCHAR(100),
```

```
    Emergency contact VARCHAR(15),
```

```
    Medical History TEXT,
```

```
    Registration Date DATE
```

```
);
```

2. DOCTORS TABLE

Stores details of doctors in the hospital



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Query:

```
CREATE TABLE doctors (
    DoctorID INT PRIMARY KEY AUTO-INCREMENT,
    FirstName VARCHAR (50),
    LastName VARCHAR (50),
    Specialization VARCHAR (100),
    DepartmentID INT,
    Phone VARCHAR (15),
    Email VARCHAR (100),
    LicenseNumber VARCHAR (100),
    HireDate DATE,
    FOREIGN KEY (DepartmentID)
REFERENCES Departments (DepartmentID)
);
```

3. APPOINTMENTS TABLE:

Stores patient appointments with the doctors

Query:

```
CREATE TABLE Appointments (
    AppointmentID INT PRIMARY KEY AUTO-INCREMENTS,
    PatientID INT,
    DoctorID INT,
```



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Appointment Date DATE,

Appointment Time TIME,

Reason for Visit TEXT,

Status VARCHAR (50), -- e.g., Scheduled, Completed etc..

FOREIGN KEY (patientID)

REFERENCES patients (patientID),

FOREIGN KEY (doctorID)

REFERENCES doctors (doctorID)

);

4. MEDICAL RECORD TABLE

Stores information about medications prescribed by doctors.

Query:

CREATE TABLE MedicalRecord (

MedicationID INT PRIMARY KEY AUTO-INCREMENT,

MedicationName VARCHAR (100),

Description TEXT,

Dosage VARCHAR (50),

Price DECIMAL (10,2)

);



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5. ADMINISTRATION TABLE

store information about administrative staff members who manage the hospital operations.

Query:-

CREATE TABLE ADMINISTRATION (

AdminID INT PRIMARY KEY AUTO-INCREMENT,

First Name VARCHAR (50) NOT NULL,

Last Name VARCHAR (50) NOT NULL,

Username VARCHAR (50) NOT NULL UNIQUE,

Password VARCHAR (255) NOT NULL,

Role VARCHAR (50) NOT NULL,

Email VARCHAR (100) NOT NULL UNIQUE,

Phone VARCHAR (15),

Hire date DATE,

Department ID INT,

FOREIGN KEY (Department ID)

REFERENCES

Departments (Department ID)

);



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Password VARCHAR (255) NOT NULL,

Role VARCHAR (50) NOT NULL,

Email VARCHAR (100) NOT NULL UNIQUE,

Phone VARCHAR (15),

Hire date DATE,

Department ID INT,

FOREIGN KEY (Department ID)

REFERENCES

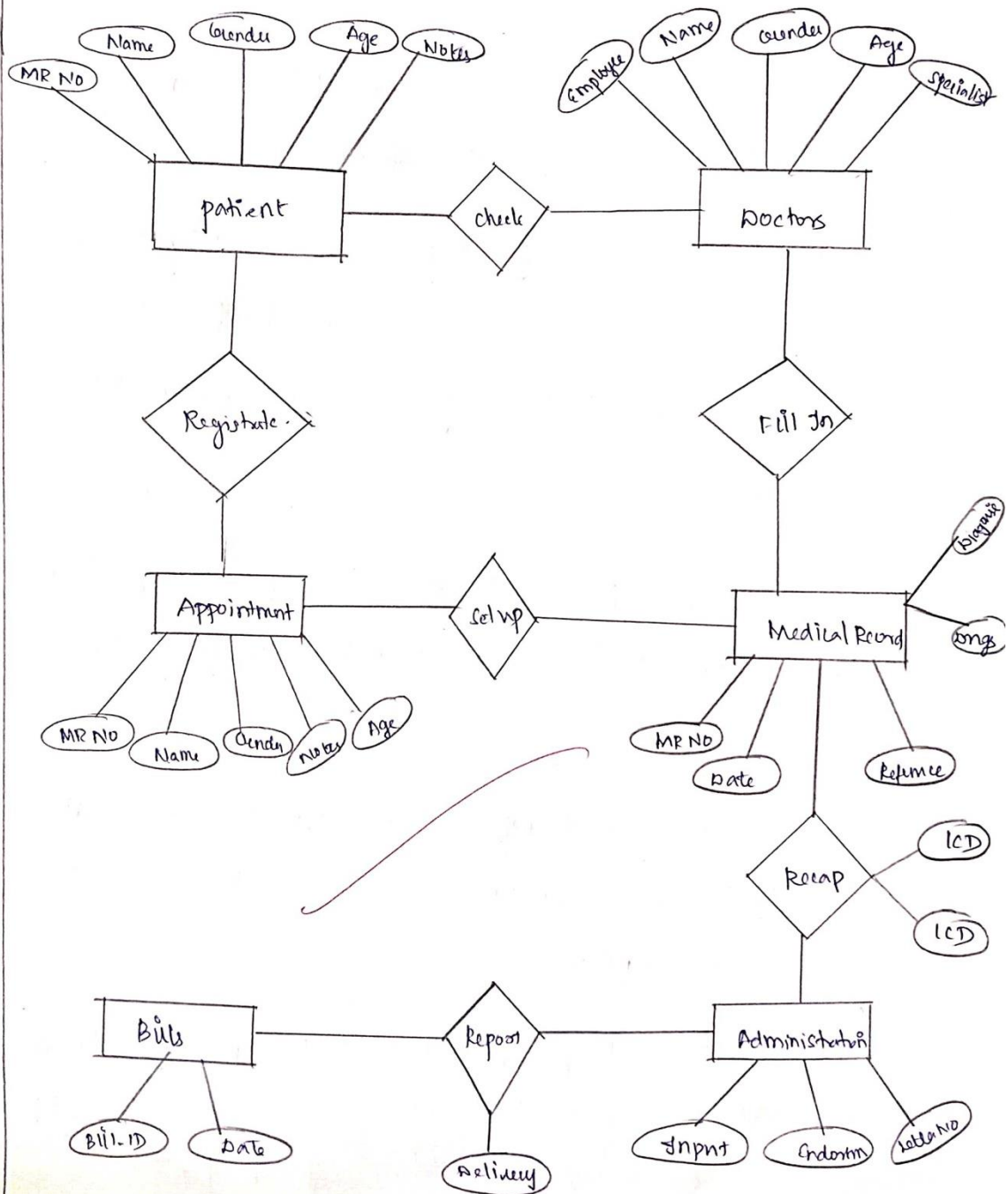
Departments (Department ID)

);



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ER DIAGRAM



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AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
CS3492 – DATABASE MANAGEMENT SYSTEMS



YEAR / SEMESTER: II / IV
ACADEMIC YEAR 2022-2023
ASSIGNMENT MARKS

S.NO.	REGISTER NUMBER	STUDENT NAME	MARKS
1	110121205001	ABDUL HAMEED .A	19
2	110121205002	M.F.ABDULLA	19
3	110121205003	M.ABUTHALHA	19
4	110121205004	O.ADHIL	20
5	110121205005	AFRAR RASHEED.A.A	19
6	110121205006	ASHIZ AHAMED	19
7	110121205007	ASILA JASMINE BALKEES H	19
8	110121205008	ASSHAFIR.H	20
9	110121205009	BARHANA PARVEEN. H	20
10	110121205010	A. DHILIP	19
11	110121205011	A.FIRNAS FATHIMA	20
12	110121205012	FURQANA F	20
13	110121205013	A.HARISH	20
14	110121205014	HASHEER AHMED	19
15	110121205015	ILAMARAN.N	19
16	110121205016	IRFAN AADIL.S	19
17	110121205017	S.IRFAN HAMEED	19
18	110121205018	S. KISHORE	20
19	110121205019	MAHMOOD .T	19
20	110121205020	MOHAMED AARKIF	19
21	110121205021	MOHAMED ASIF M	19
22	110121205022	MOHAMED FAHIM I	20
23	110121205023	MOHAMED FAWZAN.S	20
24	110121205024	MOHAMED IRSHADH. S	19
25	110121205025	MOHAMED MAHADIR M	20
26	110121205026	MOHAMED RILWAN J	20
27	110121205027	MOHAMED RILWAN	20
28	110121205028	MOHAMED RISHWAN. B	19
29	110121205029	MOHAMED SHAAHEEN A	19
30	110121205030	K.MOHAMED WAQAS	19
31	110121205031	F.MOHAMED ZIAULHUQ	19
32	110121205032	K. MOHAMMED AZARUDEEN	20
33	110121205033	MOHAMMED AZEEM. R	19
34	110121205034	J.MOHAMMED FAIZ	19
35	110121205035	M.A.MOHAMMED NOUMAN	19
36	110121205036	Z.MOHAMMED RIFAY	20
37	110121205037	M.MOHAMMED RIYAZ	20

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38	110121205038	MOHAMMED SALIH AKRAM.K	19
39	110121205039	S.MUJEEP HUSSAIN	20
40	110121205040	NAVEEN T	20
41	110121205041	NEERAJA C	20
42	110121205042	R.PRBHAKARAN	19
43	110121205043	PRIYADARSHINI P	19
44	110121205044	RAABIYA.N	19
45	110121205045	RAHIMA SHIRIN. B	19
46	110121205046	RAVI KUMAR A	20
47	110121205047	A. RINOZ FATHIMA	19
48	110121205048	S.SAFREEN BANU	19
49	110121205049	SHABENDAR.D	19
50	110121205050	SHEEJAN. J	20
51	110121205051	SHOBITHA. P	20
52	110121205052	SRINIVAS SAI PRASHANTH M	19
53	110121205053	SUHAIL.K	20
54	110121205054	ZABI AHMED .M	20
55	110121205055	M.ZIYAUL HAQUE	20
56	110121205302	HAFIL AMEER S	19
57	110121205303	MOHAMMED AAKIF F	19
58	110121205304	MURSHID H	19
59	110121205305	NANDHINI K	19
60	110121205306	SALMANASHIK A	20

P. DP 15/6/2023
FACULTY INCHARGE

[Handwritten Signature]
15/6/23
HOD/IT

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2. HACKATHON

Date: 22/04/2024

From

Yashmin Unnisha M K,
Final Year, Department of CSE,
Student Representative of all departments,
Aalim Muhammed Salegh College Of Engineering,
Avadi, Chennai-600055.

To

The Principal,
Aalim Muhammed Salegh College Of Engineering, Avadi,
Chennai-600055.

Respected Sir,

Sub: Permission Letter to conduct Hackathon and Non-Technical Events.

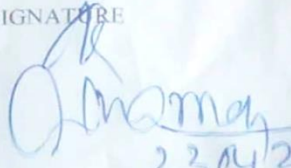
We, the students of Aalim Muhammad Salegh College of Engineering, have collectively established the proposed dates for the upcoming events scheduled ^{on} 29 April, 6 May and 7 May 2024. With utmost respect and sincerity, we are ^{writing} composing this letter to seek your esteemed permission for the afore mentioned dates and the events listed below. Our aim is to foster the development and nurture the talents of our fellow students. Therefore, we earnestly request your gracious approval for the event, assuring you of our commitment to ensuring its success. We eagerly anticipate a favourable response from you.

Thanking you,


Yours Sincerely,

Yashmin Unnisha M K
Final Year, Department of CSE

PRINCIPAL'S SIGNATURE


23/4/24

Forwarded to A.O Sir for Approval
Sir,
The Students request pertainning
to conducting of "Hackathon"
and "Non-Technical
events" can be considered -


23/4/2024


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ANNA UNIVERSITY COUNSELLING CODE : 1101



Hackathon Registration Fee

(Tech Craftathon) 500/- (per team)

Teamsize: 1-4

Workshops:(Hands-on Learning)

- **Day1: Cyber Forensics**
- **Day2: Ethical Hacking**

(The above workshops are organized by the BSC Hacking and Media Tech in Association with Redlines, Michigan, US)

Perks:

- **Participation** Certificates
- Certificate of **Appreciation**
- Certificate of **Excellence** (Merit for Top Performers)
- Snacks & Refreshments
- Exciting **Cash Prizes**
- **Gift Vouchers from Naturals** for all Participants
- Chance to get **Guidance from Industry Experts**
- **LOR** for top Performers
- Chance to get **Carrier Guidance and Job Opportunities**

PrizePool: 1Lakh+

Facilities

- **Transportation** facilities (in and around Chennai)
- **Accommodation** facilities (on prior request)

Flagship Event Registration fee: ₹150/-

(Note: by paying ₹150, the participant is allowed to take part in all 10 Flagship Events, and 2 workshops)

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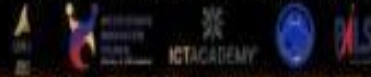


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"NIZARA EDUCATIONAL CAMPUS", IAF - AVADI, CHENNAI - 55



THE INTERNAL QUALITY ASSURANCE CELL (IQAC)

PROUDLY PRESENTS!

TECHCRAFTATHON

DOMAINS

BLOCKCHAIN	SMART ELECTRICAL APPLIANCES
DATA SCIENCE	ADVANCED POWER ELECTRONICS
AI/ML	INTERNET OF THINGS
WIRELESS COMMUNICATION	SUSTAINABLE MATERIALS
START-UP & INNOVATION	GREEN BUILDINGS
CYBERSECURITY	APPLIED SCIENCE & ENGINEERING



TECHEVO '24

"A MEGA HACKFEST"

A NATIONAL LEVEL HACKATHON

(HYBRID MODE)

FLAGSHIP EVENTS

IDEASTORM	AUTOCAD DRAFTMASTER
CODECLASH FORUM	FLAWFIX FORUM
DESIGN DYNASTY	CONFLICT FORUM
CIRCUITOPA	ELECTRACRAFT
TRIVIA TITANS	DRAFTSCAPE

WORKSHOPS

Day 1 - Cyber Forensics
Day 2 - Ethical Hacking

TEAM
REGISTRATION
(SIZE: 1-4)



FEE: ₹500/-

Note: Only Team Registrations accepted for TechCRAFTATHON.

29th April & 7th MAY 2024

INDIVIDUAL
REGISTRATION



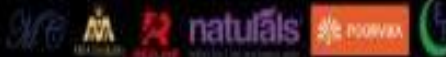
FEE: ₹150/-

Note: For getting 10% discount, also part in all flagship events - Go for Techevo!

PRIZE POOL
1 Lakh+

FACULTY COORDINATOR:

PROF. R. MANIKANDAN



FOR QUERIES, CONTACT:

MOHAMED FAHIM J

+91 8681919527

president@techevo.tech

techevo.amsc

techevo.tech

info@techevo.tech

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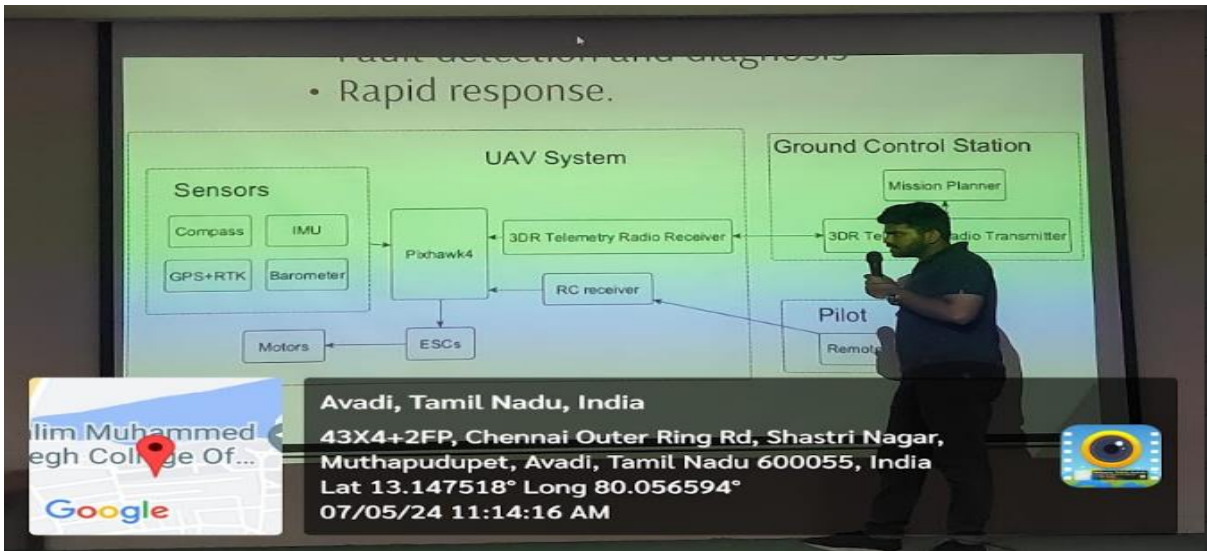


Students exhibiting their idea in National Level Hackathon Contest



Valedictory Session in National Level Hackathon Contest


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Project Presentation at National Level Hackathan "TechEvo"



[Signature]
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3. TECHNICAL CONTEST/ SYMPOSIUM

04.03.23

From

Mohamed Razvi-11019104042(President),
Final Year – A Sec,
CSE Department,
Aalim Muhammed Salegh College of Engineering,
Muthapudupet, Avadi IAF, Chennai-600055.

To

The Principal,
Aalim Muhammed Salegh College of Engineering,
Muthapudupet, Avadi IAF Chennai-600055

Respected sir,

Sub: Requisition for conducting "Tectra'23" Symposium Reg.

We, the Final year CSE Department students have planned to organise Symposium "Tectra'23" on 16.03.2023. In view of this we request you to allow the student's to conduct a symposium hoping for your favorable response about this matter.

Thanking You

Yours Faithfully,
President,
Mohamed Razvi

HOD(CSE)

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COLLEGE OF ENGINEERING

FROM THE DEPARTMENT OF
COMPUTER SCIENCE
AND ENGINEERING



INVITES YOU FOR THE EVENTS ON

MARCH

THURSDAY | 16 | AT 10 AM
2023

AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
Muthapudupet,
Avadi-IAF, Chennai 600055

A handwritten signature in blue ink, appearing to be the initials of the principal.

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TECTRA EVENT SCHEDULE

- Registration for Box Cricket : 8.30 to 9.15am
- Registration for Tech and Non Tech Events : 8.30 to 11.30am
- Registration for Special Event(Tamil JAM) : Open for all event registration open until 3.00pm.
- Lunch : 12.30 -1.30pm • Prize distribution : 5pm to 6 pm

Event Number	Technical Events	Timings
1.	Paper Presentation	Round 1 : 11am to 1pm Round 2 : 2pm to 4pm
2.	Technical Quiz	Round 1 and 2 : 11am to 12.30 Round 3 : 2pm to 3pm
3.	Code Jutzo	Round 1 : 1.30pm to 2.pm Round 2 : 2.10 to 3.40pm
4.	Code Doctor	Round 1 and 2 : 11am to 12.30pm Round 3 : 1.30pm to 2.30pm
5.	Special Event	Rpund 1 and 2 : 3pm to 5pm

Event Number	Non-Technical Events	Timings
1.	Box Cricket	9.30am to 12.30 pm
2.	Connections	Round 1 : 11am to 12.30pm Round 2 : 1.30pm to 3.30pm Round 3 : 3.45 to 4.30pm
3.	Live Chaupar	Round 1 : 11pm to 12.30pm Round 2 : 2pm to 3.30pm
4.	Photography	Round 1 : 11.30am to 12.30pm Round 2 : 2pm to 3pm
5.	Treasure Hunt	2pm to 4pm



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Avadi, Tamil Nadu, India
43X5+3H9, Muthapudupet, Avadi, Tamil Nadu 600055, India
Lat 13.147706°
Long 80.058864°
16/03/23 11:30 AM GMT +05:30

Technical Quiz event at TECTRA Symposium

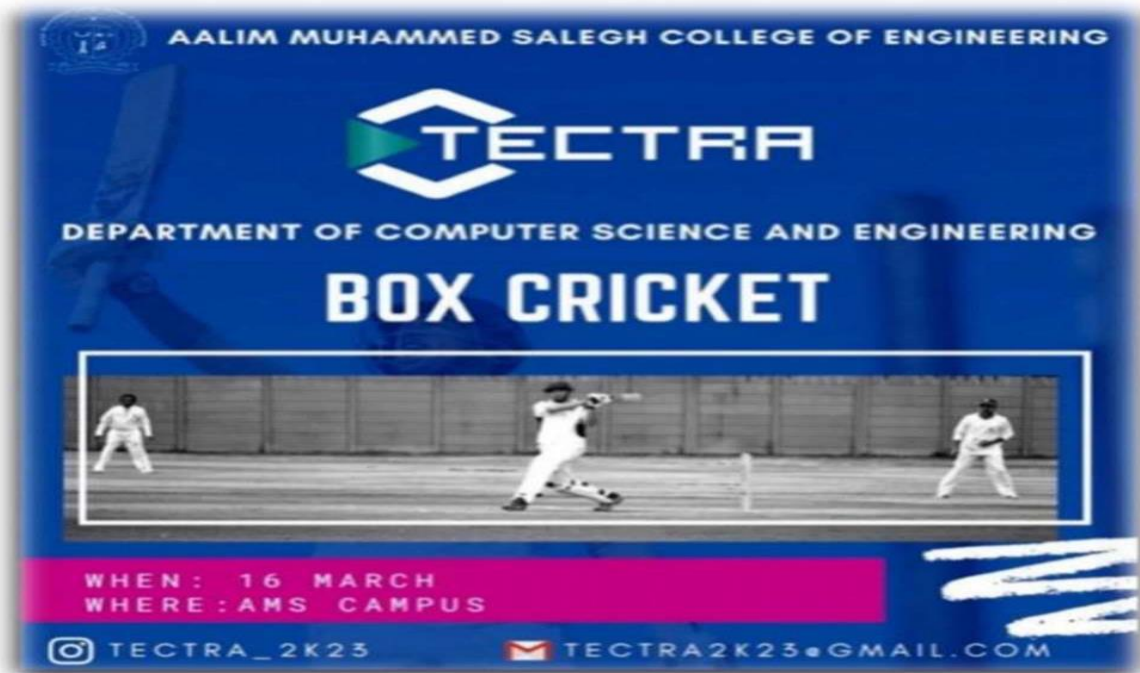


Aalim Muhammed Salegh College Of Engineering, Tamil Nadu, India
CSE and IT building, Muthapudupet, Avadi, IAF,,
Muthapudupet, Pattabiram, Tamil Nadu 600055, India
Lat 13.147718°
Long 80.058276°
16/03/23 11:51 AM GMT +05:30

Code Doctor event at TECTRA'23 - A National Level Technical Symposium

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Non Technical Events



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

TECTRA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BOX CRICKET



WHEN : 16 MARCH
WHERE : AMS CAMPUS

TECTRA_2K23 TECTRA2K23@GMAIL.COM

This poster features a blue background with a white cricket field image in the center. The text is in white and pink. The TECTRA logo is a stylized green and white hexagon.



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NAAC ACCREDITED INSTITUTION

DEPRTEMNT OF COMPUTER SCIENCE AND ENGINEERING

TECTRA

@BROADEN YOUR HORIZONS

TREASURE HUNT

A GAME IN WHICH PEOPLE TRY TO FIND A HIDDEN PRIZE BY FOLLOWING SPECIAL SIGNS (CLUES) WHICH HAVE BEEN LEFT IN DIFFERENT PLACES.-TREASURE HUNT

16 MAR 2023

CONTACT
Syed Karishma afreen - 99897 69101
Mohammed Zain P - 95000 24831
Mohamed Maaz M S - 99401 32641

tectra_2k23
tectra2k23@gmail.com

This poster has a dark purple background with a starry pattern. It features colorful triangles and arrows. The text is in white and purple. The TECTRA logo is in a stylized purple font.



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Valedictory Session at TECTRA' 23 - A National Level Technical Symposium


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