



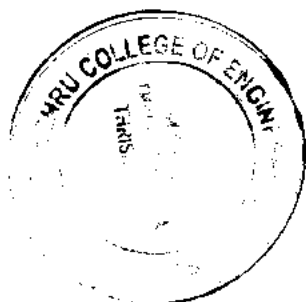
**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**  
(NAAC Re Accredited with A Grade)  
(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)



**1.2.2 Number of Add on /Certificate programs offered during the Academic Year  
: 2021-22**

**No. of Programmes: 21**

SINo	Name of Add on /Certificate programs offered	Course Code (if any)
1	MASS TRANSFER OPERATIONS	ME
2	ELEMENTS OF AERONAUTICS	ME
3	UNIVERSAL HUMAN VALUES - UNDERSTANDING HARMONY	ME
4	INTRODUCTION TO WELDING TECHNOLOGY	ME
5	ADDITIVE MANUFACTURING	ME
6	NANOCOMPOSITES	ME
7	CENTRIFUGAL GOVERNOR	ME
8	MAINTENANCE OF TWO WHEELER	ME
9	INTRODUCTION TO PYTHON PROGRAMMING	CSE
10	HUMAN COMPUTER INTERACTION	CSE
11	ADVANCED COMPUTING TECHNIQUES	CSE
12	VERILOG CODING	ECE
13	BASICS OF ELECTRONICS THROUGH VL	ECE
14	VLSI LAB USING VL	ECE
15	ROBOTICS PROCESS AUTOMATION	MTR
16	AUTOMOTIVE TECHNOLOGY	MTR
17	DIGITAL SYSTEM DESIGN	MTR
18	CUSTOM POWER DEVICES	EEE
19	ARTIFICIAL INTELLIGENCE IN SMART GRIDS	EEE
20	INTRODUCTION TO RENEWABLE ENERGY	EEE
21	HEALTH CARE MANAGEMENT	MBA



*Sauvraaj P*  
Principal  
PRINCIPAL

Nehru College of  
Engineering and Research Centre  
Pampady, Thiruvilwamala Thrissur Dt.  
Pin - 680 597, Kerala

FROM

MR. REJUMON R

ASSISTANT PROFESSOR

MTR DEPARTMENT, NCERC PAMPADY

TO

THE PRINCIPAL,

NCERC PAMPADY

*Permitted.*  
*Sho*  
*21/4/22*

Through HOD

SUBJECT: Requisition for conducting Certification Course on "AUTOMOTIVE TECHNOLOGIES" Reg.

Respected Sir,

Students need a deep understanding of upcoming methodologies to enhance knowledge dissemination for doing projects. Artificial Neural network can be used for machine learning and data mining, so Mechatronics Engineering department would like to conduct a Certification Course on "AUTOMOTIVE TECHNOLOGIES" from 18-04-2022. It will be a 30 hour course scheduled for April to May of this academic year 2021-2022. Kindly request you to give the permission for the same.

All UG Engineering students of MTR Department are eligible for this course.

Sincerely,

PLACE: PAMPADY.

DATE: 02.4.22.



13  
PRINCIPAL  
Nehru College of  
Engineering and Research Centre  
Pampady, Thiruviiwamala, Thassur Dt.  
Pin - 680 597, Kerala

FROM

MR. REJUMON R

ASSISTANT PROFESSOR

MTR DEPARTMENT, NCERC PAMPADY

TO

HEAD OF THE DEPARTMENT

MTR DEPARTMENT

NCERC PAMPADY

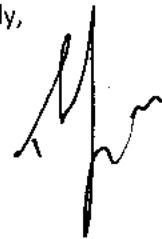
SUBJECT: Requisition for conducting Certification Course on "AUTOMOTIVE TECHNOLOGIES".

Respected Sir,

As the Assistant Professor of Mechatronics Engineering, I would like to request your support and permission to conduct a Certification Course on "AUTOMOTIVE TECHNOLOGIES" from 18-04-2022. It will be a 30 hour course scheduled for April to July of this year. It is therefore important for students to have a deep understanding of upcoming methodologies to enhance knowledge dissemination to students for doing projects.

All UG Engineering students of MTR Department are eligible for this course.

Sincerely,



PLACE: PAMPADY.

DATE: 02.4.22

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Nehru College of  
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### **ADMISSION TO CERTIFICATION COURSE (2021-2022)**

Applications are invited for admission for the Certification Course 'AUTOMOTIVE TECHNOLOGIES' offered by the Department of Mechatronics Engineering, Nehru college of Engineering and Research Centre, Pampady, Thrissur.

#### **Eligibility criteria**

All UG engineering students of MTR Department are eligible

#### **Timing:**

1 hour per day from 4.00pm to 5.00pm for 30 hours of the course. Saturday and Sunday may be used at the discretion of the department.

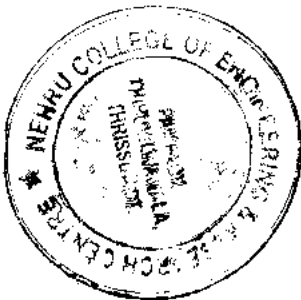
#### **Attendance**

A minimum of 75% attendance is required for writing the examination.

#### **Important Dates**

Commencement of classes: 18-04-2022

Examination Date: 09-08-2022



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DEPARTMENT OF MECHATRONICS ENGINEERING

ADD ON SYLLABUS

AY (2021-22)

DEPT; MECHATRONICS ENGINEERING

CODE	COURSE NAME	L	T	P	CREDIT
ADD ON	AUTOMOTIVE TECHNOLOGIES	2	0	0	-

The objective of this course is

- To know the basic components of an automobile.
- To understand the working of different two wheelers technologies.
- To update the latest developments in automotive technologies.

Course Outcomes: After the completion of the course the student will be able to,

CO1	Basic knowledge about then automobile components.
CO2	Understand the working of two wheelers technologies.
CO3	Build a basic knowledge about the latest four wheelers technologies
CO4	Summarize the concept of sensors used in automotive field.

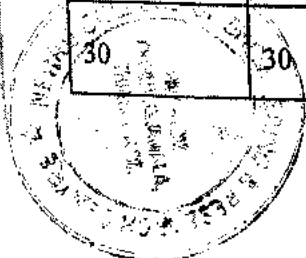
Mapping of course outcomes with program outcomes,

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3						2					2		2
CO2	3						2					2		2
CO3	3						2					2		2
CO4	3						2					2		2

Mark distribution

Total Marks	MCQ	Duration
30	30	1 Hours

**J.R.**  
PRINCIPAL  
Nehru College of  
Engineering and Research Centre  
Pampady, Thiruvithirappur, Thiruvananthapuram, Thiruvananthapuram Dt.,  
Pin - 680 597, Kerala



## Syllabus

### AUTOMOTIVE TECHNOLOGIES

#### Module 1 (6 hours)

Introduction to Automobile Engineering: Parts of automobile, Classification, Basics of an Engine, Parts of an engine, Types of Engines. Introduction to automotive technologies.

#### Module 2 (6 hours)

Two Wheeler Technologies: Introduction to 2 Wheeler Technologies, ABS, Slipper Clutch, Enhanced Smart Power (eBS), DTS-I Engine, 4 valve Engine technology.

#### Module 3 (6 hours)

Four Wheeler Technologies: Self driving, Advanced automotive cameras, Intelligent Braking system (AEB), V2V connectivity, Hybrid, EVs & Hydrogen Engine Technology.

#### Module 4 (6 hours)

Adaptive Cruise control system, latest generation automobiles.  
Introduction to Automotive Sensors: Parts of a sensor, Working, Types of sensors.

#### Module 5 (6 hours)

Application of Sensors: ADASes – fuel delivery, power assisted steering, parking aid, ACC, Brake booster system



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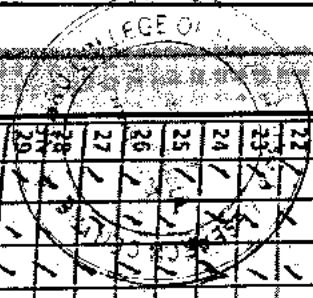






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4	Abhi P.P
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6	Adi
7	Adyath
8	Alexa Ruby
9	Aparna
10	Abhi Gokulchandran
11	Fajar Muhammed
12	Falgun Jaye
13	Gautham Dev
14	Srinika
15	Srinandan
16	Srinandan
17	Talvin S.T
18	K.C.Akash
19	Mohikandan C
20	Mohammed Hanas
21	Mohammed Shaleel
22	Munish M
23	Abhis Madhav
24	Nithin John Thomas
25	Rama
26	Rahul Raj M
27	Ragith Krishnan
28	Rajal. T.S
29	Shahid Afridi
30	Sharaath
31	Saja
32	Vasanth
33	Vishnu Gokumaran
34	Yadhu Krishnan

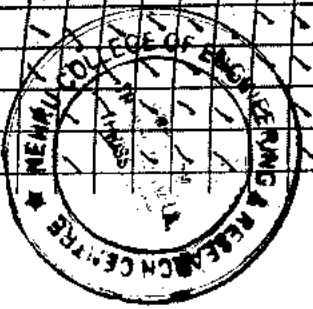
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Reg. No.	Name
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2	Abhinav K.S
3	Abhinav P.V
4	Abhilash Kumar
5	Adah T.P
6	Aditya Jayaram
7	Adit
8	Aditya V
9	Alekh Prabhu
10	Aparna K
11	Arul Gobind
12	Arjun Kumar
13	Arjun Jose
14	Arjun Dev
15	Arjun
16	Arjun
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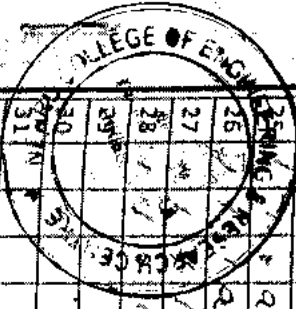


1	ACEBONDOL	ABHISHEK A
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3	ACEBONDOL	AKSHAY K
4	ACEBONDOL	ALOK K G
5	ACEBONDOL	AMRITH P D
6	ACEBONDOL	ANIL KISHAN D
7	ACEBONDOL	ARUN GEORGE
8	ACEBONDOL	ARUN K MICHAEL
9	ACEBONDOL	DEEPAK KR
10	ACEBONDOL	GOVINDAN S NAIR
11	ACEBONDOL	WARRA S KALYAN
12	ACEBONDOL	JOYAL SATHYAN
13	ACEBONDOL	KALISHANAN ND
14	ACEBONDOL	K S PRITHV
15	ACEBONDOL	MOLIJAN SUDAN
16	ACEBONDOL	MEYAN VJ
17	ACEBONDOL	MOHANAN SIBIN
18	ACEBONDOL	MOHANAN PRITHV
19	ACEBONDOL	M P ASWIN
20	ACEBONDOL	MURHANO DILIP
21	ACEBONDOL	MOHAN KASHIN
22	ACEBONDOL	RAVINDRAN
23	ACEBONDOL	ALISHAN PRITHV
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32	ACEBONDOL	ALISHAN PRITHV

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DEPARTMENT OF MECHATRONICS ENGINEERING

ADD ON SYLLABUS

AY (2021-22)

NAME & REG NO; ASWIN.S  
NCE21MCO11

DEPT; MECHATRONICS ENGINEERING

CLASS; S2

AUTOMOTIVE TECHNOLOGIES

1. What is an Automobile?

- a) Self-propelled vehicle
- b) Used for carrying passengers and goods on the ground
- c) Contains the power source for its propulsion
- d) All of the mentioned

2. Automobile can be classified based on which of the following parameter?

- a) Fuel Used
- b) Transmission
- c) Drive
- d) All of the mentioned

3. What is the function of an Anti-lock braking system?

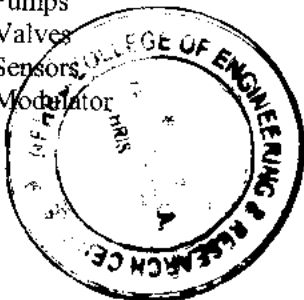
- a) Used for car parking
- b) To maintain tractive force
- c) Programming the system
- d) To drive the car

4. The Anti-lock brake system supports electronic stability.

- a) True
- b) False

5. The breaking valves are actuated and turned on and off through the

- a) Pumps
- b) Valves
- c) Sensors
- d) Modulator



18  
PRINCIPAL  
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Pampady, Thiruvilwamala, Thrissur Dt.  
Pin - 680 597, Kerala

6. The main sources of electricity for hybrids are

- a) Batteries,
- b) FCs,
- c) Capacitors
- d) None of these
- e) All of these

7. Which of the following is NOT the type of Hybrid Vehicle?

- a) Plug-in Hybrid
- b) Parallel Hybrid
- c) Natural Gas for Vehicles
- d) Series Hybrid

8. Select the features of Hybrid Electric Vehicles

- a) Idle Stop
- b) EV Drive
- c) Motor Assist
- d) Regenerative Braking
- e) All of these

9. The condition that causes vapour locking in a brake system is

- (a) Overheating of the fluid due to frequent brake application
- (b) Overcooling of the brakes during high speed driving
- (c) Keeping the vehicle without use for an extended period
- (d) An excessively high engine speed on a downhill road

10. A maintenance free battery

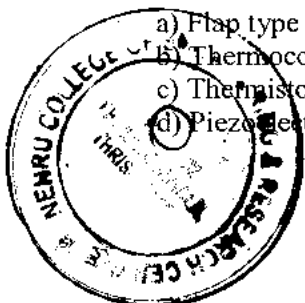
- (a) Has lead-antimony plate grid
- (b) Has lead-calcium plate grid
- (c) Does not contain acid
- (d) Does not contain water

11. In a Diesel engine, the fuel is ignited by

- (a) An electric spark
- (b) The heat of compression
- (c) The hot exhaust
- (d) None of these

12. Which of the following is the knock sensor?

- a) Flap type sensor
- b) Thermocouples
- c) Thermistors
- d) Piezoelectric pickup



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Pin - 680 597, Kerala

13. What is the use of the lambda sensors in the catalytic converter?

- a) To keep excess air ratio within a range
- b) To keep the flow rate of constant air
- c) To keep the exhaust pressure constant
- d) To keep the exhaust temperature constant

14. What is the full form of MDPS with respect to vehicle dynamics?

- a) Motor driven pulse steering
- b) Motor driven power steering
- c) Multi driving power steering
- d) Motor driven power system

15. Where are the electro-optical sensors used?

- a) Position and speed measurement
- b) Piston temperature measurement
- c) Cooling water flow measurement
- d) Lubricating oil flow measurement

16. The Diesel engines as compared to petrol engines require

- (a) Bigger flywheel
- (b) Smaller flywheel
- (c) Same size of flywheel
- (d) No flywheel

17. The connecting rods are generally made of \_\_\_\_\_ shaped cross-section.

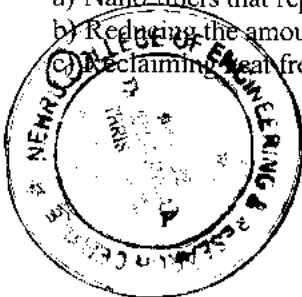
- (a) I
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- (c) L
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18. If the air-fuel mixture ignites before the spark takes place at spark plug, the condition is called

- (a) Detonation
- (b) Ignition
- (c) Pre-ignition
- (d) Rumble

19. Regenerative braking involves :

- a) Nano fibers that repair the surface of brake pads
- b) Reducing the amount of friction necessary to slow a car
- (c) Reclaiming heat from the brakes and using it for power



113  
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Kerala - 680 597.

20. The benefits of a hybrid car include:

- a) Reducing emissions
- b) Improving gas mileage
- c) High fuel consumption
- d) a and b
- e) a, and c

21. Select the cycle use in a Hybrid Engine.

- a) Otto
- b) Diesel
- c) Atkinson
- d) Isentropic

22. Which of the following is a classification of IC Engine?

- a) Otto cycle engine
- b) Four-stroke engines
- c) S.I Engines
- d) All of the above

23. Which of the following is found in an automobile's electrical system?

- a) Lighting systems
- b) Battery
- c) Alternators
- d) All of the mentioned

24. What is the main use of the strain gauge?

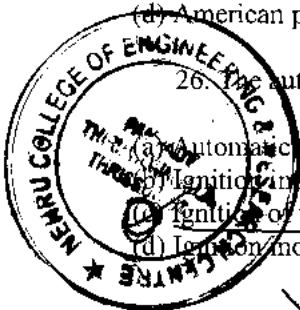
- a) To measure viscosity
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25. The engine oil viscosity is defined by \_\_\_\_\_ ratings.

- a) Automatic transmission fluid (ATF)
- b) Society of automotive engineers (SAE)
- c) Gross vehicle weight (GVW)
- d) American petroleum institute (API)

26. \_\_\_\_\_ auto ignition in a spark ignition engine means

- a) automatic ignition of the charge at the end of compression
- b) Ignition induced by the passage of a spark
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- d) Ignition induced to supplement the process of normal combustion



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P.n - 680 197, Kerala



27. When the brake pedal free play is less than the specified value, then the

- (a) Brake drags
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28. What is the use of the hot-wire sensor?

- (a) To measure temperature
- (b) To measure the smoke intensity
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29. What detects the fault in the anti-lock brake system?

- (a) ECU
- (b) Pump
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- (d) Sensors

30. Which of the following provides passages for the flow of cooling water?

- (a) Crankcase
- (b) Cylinder block
- (c) Piston
- (d) Cylinder head

TOTAL NUMBER OF QUESTIONS:..... 30 .....

TOTAL NUMBER OF QUESTIONS ATTENDED:..... 23 .....

TOTAL NUMBER OF CORRECT ANSWERS:..... 18 .....

TOTAL MARKS:..... 18/30 .....

MARKS IN PERCENTAGE:..... 60% .....



13  
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(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)



**DEPARTMENT OF MECHATRONICS ENGINEERING**

**ADD ON SYLLABUS**

**AY (2021-22)**

Anshif-A

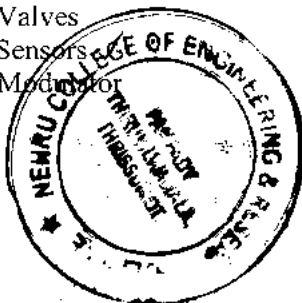
NAME & REG NO; NCEZIMC009

**DEPT; MECHATRONICS ENGINEERING**

**CLASS; S<sub>2</sub> MTR**

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  - a) Used for car parking
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4. The Anti-lock brake system supports electronic stability.
  - a) True ✓
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19  
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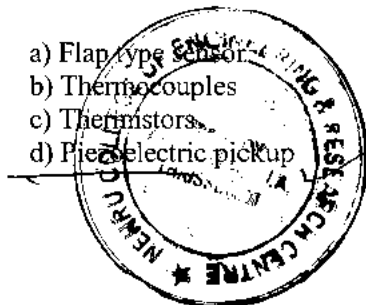
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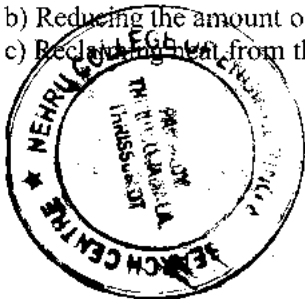
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13  
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Pin - 680 597, Kerala

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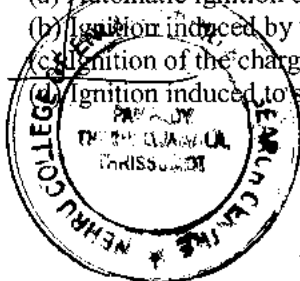
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Pappady, Thiruvilwamala, Thrissur Dt  
Pin - 680 597, Kerala

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TOTAL NUMBER OF CORRECT ANSWERS:..... 17 .....

TOTAL MARKS:..... 17 .....

MARKS IN PERCENTAGE:..... 57 .....

13  
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Pin - 680 597, Kerala



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DEPARTMENT OF MECHATRONICS ENGINEERING

ADD ON SYLLABUS

AY (2021-22)

NAME & REG NO; *ASIN RASO.T*  
*20CE21ML007*

DEPT; MECHATRONICS ENGINEERING

CLASS; *52*

AUTOMOTIVE TECHNOLOGIES

- ✓ 1. What is an Automobile?
  - a) Self-propelled vehicle
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Pin - 680 597, Kerala

6. The main sources of electricity for hybrids are

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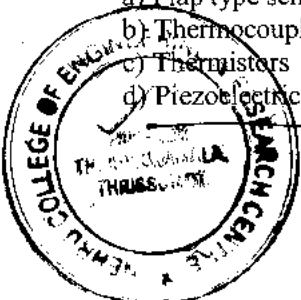
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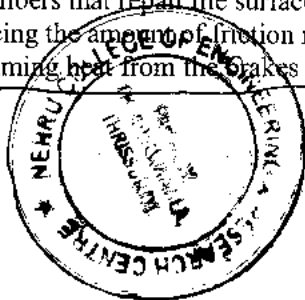
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- a) Otto
- b) Diesel
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✗ 22. Which of the following is a classification of IC Engine?

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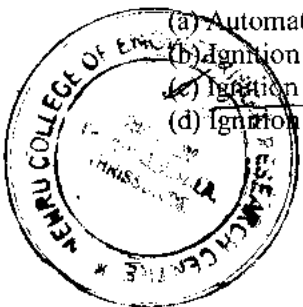
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TOTAL NUMBER OF QUESTIONS:..... 30 .....

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TOTAL NUMBER OF CORRECT ANSWERS:..... 24 .....

TOTAL MARKS:..... 24 .....

MARKS IN PERCENTAGE:..... 80 % .....

24

38

0.8 x 100  
30 | 240  
80



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**DEPARTMENT OF MECHATRONICS ENGINEERING**

**ADD ON SYLLABUS**

**AY (2021-22)**

**DEPT; MECHATRONICS ENGINEERING**

**AUTOMOTIVE TECHNOLOGIES**  
**ANSWER KEY**

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  - a) Self-propelled vehicle
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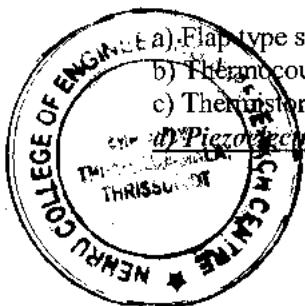
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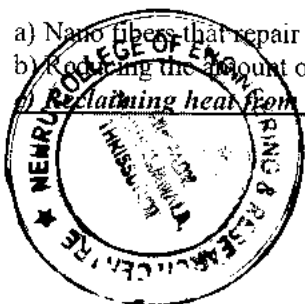
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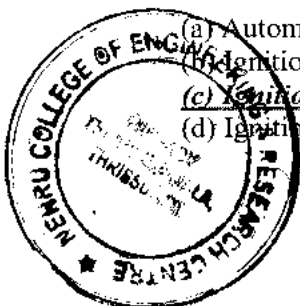
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**CERTIFICATE**  
 OF COMPLETION

This certificate is awarded to

*Athul Krishna*

of

**Mechatronics Engineering, NCERC** for his/her

proficiency in the Add-On course under Automotive Technologies in  
 the academic year 2021-22.

*Asst. Prof. Rejumon R*

Asst. Prof. REJUMON R  
 Programme Coordinator

*Dr. Bobby N D*

Dr. Bobby N D  
 Head of Department

Principal  
 Main Centre of  
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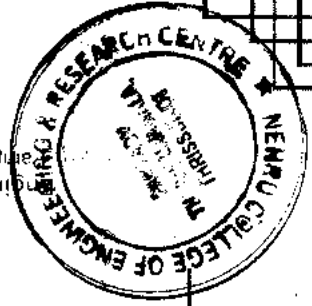
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*[Signature]*  
B. V. N. P. A. L.

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*[Signature]*

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**DEPARTMENT OF COMPUTER APPLICATIONS**

*PRESENTS*

# VALUE ADDED PROGRAM

## ADVANCED DATABASE MANAGEMENT

**DATE** : 06TH - 17TH DECEMBER 2021

**RESOURCE PERSON** : PRASANTH PRABHAKARAN,

LEAD ENGINEER, CONTROLQORE SYSTEMS PVT.LTD

**VENUE** : KAPILA BLOCK, NCERC

**For enquiries contact Coordinator Dr. Deepa A**



☎ 9847643316

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## DEPARTMENT OF COMPUTER APPLICATIONS

Add-on Program 18th-29th April 2022

# CERTIFICATE OF PARTICIPATION

This awarded certify that

.....R. Shaji A.M......of

.....N.C.E.R.C......college has actively participated  
in a value added program "Importance of Mobile Applications". Upon  
completion of theoretical and practical modules and successfully  
completed the assessment test this document of participation is  
presented.

Course Co-ordinator

HOD -MCA Dept.

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**DEPARTMENT OF MCA**

Minutes of Meeting conducted on 29/11/2021

1. Principal's approval dt.06<sup>th</sup> – 17<sup>th</sup> December 2021 for Value Added courses
2. Topic of VA Course is fixed as Advanced Database Management
3. The syllabus may cover MySQL, PL-SQL & MongoDB
4. Class tutors must motivate the students to take the course seriously
5. Evaluation may be done through Quiz, Written Exams and Group activities
6. Certificates for successful students may be provided


Coordinator – VA Courses-MCA

Faculty Attendees

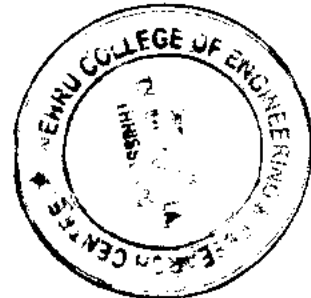
Dr.Sudheer.S.Marar 

Pramod K 

Dr.Vineetha K R 

  
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Student Attendees

Harshil 

Abinraj 

Ranjitha 

Varsha 

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**  
**DEPARTMENT OF MCA**  
**Advanced Database Management**

1. What is the full form of DBMS?

- a) Data of Binary Management System
- b) Database Management System
- c) Database Management Service
- d) Data Backup Management System

Answer:

- b) Database Management System

2. What is a database?

- a) Organized collection of information that cannot be accessed, updated, and managed
- b) Collection of data or information without organizing
- c) Organized collection of data or information that can be accessed, updated, and managed
- d) Organized collection of data that cannot be updated

Answer:

- c) Organized collection of data or information that can be accessed, updated, and managed

3. What is DBMS?

- a) DBMS is a collection of queries
- b) DBMS is a high-level language
- c) DBMS is a programming language
- d) DBMS stores, modifies and retrieves data

Answer:

- d) DBMS stores, modifies and retrieves data

4. Who created the first DBMS?

- a) Edgar Frank Codd
- b) Charles Bachman
- c) Charles Babbage
- d) Sharon B. Codd

Answer:

- b) Charles Bachman

5. Which type of data can be stored in the database?

- a) Image oriented data
- b) Text, files containing data
- c) Data in the form of audio or video
- d) All of the above

Answer:

- d) All of the above

6. In which of the following formats data is stored in the database management system?

- a) Image
- b) Text
- c) Table
- d) Graph

Answer:

- c) Table

7. Which of the following is not a type of database?

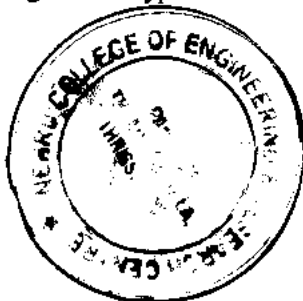
- a) Hierarchical
- b) Network
- c) Distributed
- d) Decentralized

Answer:

- d) Decentralized

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8. Which of the following is not an example of DBMS?

- a) MySQL
- b) Microsoft Access
- c) IBM DB2
- d) Google

Answer

- d) Google

9. Which of the following is a feature of DBMS?

- a) Minimum Duplication and Redundancy of Data
- b) High Level of Security
- c) Single-user Access only
- d) Support ACID Property

Answer

- c) Single-user Access only

10. Which of the following is a feature of the database?

- a) No-backup for the data stored
- b) User interface provided
- c) Lack of Authentication
- d) Store data in multiple locations

Answer

- b) User interface provided

11. The ability to query data, as well as insert, delete, and alter tuples, is offered by \_\_\_\_\_

- a) TCL (Transaction Control Language)
- b) DCL (Data Control Language)
- c) DDL (Data Definition Language)
- d) DML (Data Manipulation Language)

Answer

- d) DML (Data Manipulation Language)

12. \_\_\_\_\_ is a set of one or more attributes taken collectively to uniquely identify a record.

- a) Primary Key
- b) Foreign key
- c) Super key
- d) Candidate key

Answer

- c) Super key

13. Which command is used to remove a relation from an SQL?

- a) Drop table
- b) Delete
- c) Purge
- d) Remove

Answer

- a) Drop table

14. Which of the following set should be associated with weak entity set for weak entity to be meaningful?

- a) Neighbour set
- b) Strong entity set
- c) Owner set
- d) Identifying set

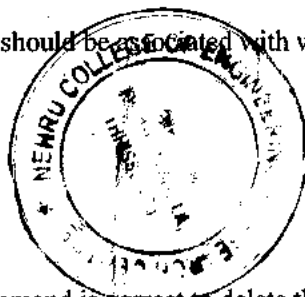
Answer

- d) Identifying set

15. Which of the following command is correct to delete the values in the relation teaches?

- a) Delete from teaches;
- b) Delete from teaches where Id = 'Null';

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- c) Remove table teaches;
  - d) Drop table teaches;
- Answer
- a) Delete from teaches;

16. \_\_\_\_\_ operations do not preserve non-matched tuples.

- a) Left outer join
- b) Inner join
- c) Natural join
- d) Right outer join

Answer

- b) Inner join

17. Which forms have a relation that contains information about a single entity?

- a) 4NF
- b) 2NF
- c) 5NF
- d) 3NF

Answer

- a) 4NF

18. \_\_\_\_\_ indicates the maximum number of entities that can be involved in a relationship.

- a) Greater Entity Count
- b) Minimum cardinality
- c) Maximum cardinality
- d) ERD

Answer

- c) Maximum cardinality

19. Which of the following is correct regarding the file produced by a spreadsheet?

- a) can be used as it is by the DBMS
- b) stored on disk in an ASCII text format
- c) all of the mentioned
- d) none of the mentioned

Answer

- a) can be used as it is by the DBMS

20. Which of the following is the best way to represent the attributes in a large db?

- a) Dot representation
- b) Concatenation
- c) Relational-and
- d) All of the mentioned

Answer

- b) Concatenation

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DEPARTMENT OF MCA

Advanced Database Management- Question Paper

1. What is the full form of DBMS?

- a) Data of Binary Management System
- b) Database Management System
- c) Database Management Service
- d) Data Backup Management System

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20

2. What is a database?

- a) Organized collection of information that cannot be accessed, updated, and managed
- b) Collection of data or information without organizing
- c) Organized collection of data or information that can be accessed, updated, and managed
- d) Organized collection of data that cannot be updated

3. What is DBMS?

- a) DBMS is a collection of queries
- b) DBMS is a high-level language
- c) DBMS is a programming language
- d) DBMS stores, modifies and retrieves data

4. Who created the first DBMS?

- a) Edgar Frank Codd
- b) Charles Bachman
- c) Charles Babbage
- d) Sharon B. Codd

5. Which type of data can be stored in the database?

- a) Image oriented data
- b) Text, files containing data
- c) Data in the form of audio or video
- d) All of the above

6. In which of the following formats data is stored in the database management system?

- a) Image
- b) Text
- c) Table
- d) Graph

7. Which of the following is not a type of database?

- a) Hierarchical
- b) Network
- c) Distributed
- d) Decentralized

8. Which of the following is not an example of DBMS?

- a) MySQL
- b) Microsoft Access
- c) IBM DB2
- d) Google

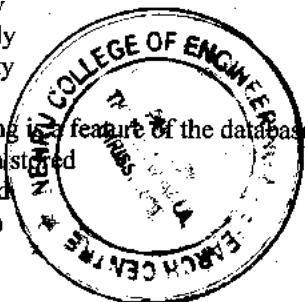
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9. Which of the following is a feature of DBMS?

- a) Minimum Duplication and Redundancy of Data
- b) High Level of Security
- c) Single-user Access only
- d) Support ACID Property

10. Which of the following is a feature of the database?

- a) No-backup for the data stored
- b) User interface provided
- c) Lack of Authentication



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d) Store data in multiple locations

11. The ability to query data, as well as insert, delete, and alter tuples, is offered by \_\_\_\_\_

- a) TCL (Transaction Control Language)
- b) DCL (Data Control Language)
- c) DDL (Data Definition Language)
- d)  DML (Data Manipulation Language)

12. \_\_\_\_\_ is a set of one or more attributes taken collectively to uniquely identify a record.

- a) Primary Key
- b) Foreign key
- c)  Super key
- d) Candidate key

13. Which command is used to remove a relation from an SQL?

- a)  Drop table.
- b) Delete
- c) Purge
- d) Remove

14. Which of the following set should be associated with weak entity set for weak entity to be meaningful?

- a) Neighbour set
- b) Strong entity set
- c) Owner set
- d)  Identifying set

15. Which of the following command is correct to delete the values in the relation teaches?

- a)  Delete from teaches;
- b) Delete from teaches where Id = 'Null';
- c) Remove table teaches;
- d) Drop table teaches;

16. \_\_\_\_\_ operations do not preserve non-matched tuples.

- a) Left outer join
- b)  Inner join
- c) Natural join
- d) Right outer join

17. Which forms have a relation that contains information about a single entity?

- a)  4NF
- b) 2NF
- c) 5NF
- d) 3NF

18. \_\_\_\_\_ indicates the maximum number of entities that can be involved in a relationship.

- a) Greater Entity Count
- b) Minimum cardinality
- c)  Maximum cardinality
- d) ERD

19. Which of the following is correct regarding the file produced by a spreadsheet?

- a)  can be used as it is by the DBMS
- b) stored on disk in an ASCII text format
- c) all of the mentioned
- d) none of the mentioned

20. Which of the following is the best way to represent the attributes in a large db?

- a) Dot representation
- b)  Concatenation
- c) Relational-and
- d) All of the mentioned



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R. Shivan

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE  
DEPARTMENT OF COMPUTER APPLICATIONS

Importance of Mobile Applications

27  
30

- 1) Android is licensed under which open source licensing license?
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  - B. Apache/MIT
  - C. OSS
  - D. Sourceforge
- 2) Although most people's first thought when they think of Android is Google, Android is not actually owned by Google. Who owns the Android platform?
- A. Oracle Technology
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  - B. abstract
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D. Power management

20) Android is built upon the Java Micro Edition (J2ME) version of Java.

- A. True
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Also Read Android Interview Questions & Answers

21) Which among these are NOT a part of Android's native libraries?

- A. Webkit
- B. Dalvik
- C. OpenGL
- D. SQLite

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- A. Security
- B. Portability
- C. Networking
- D. All of these

23) What operating system is used as the base of the Android stack?

- A. Linux
- B. Windows
- C. Java
- D. XML

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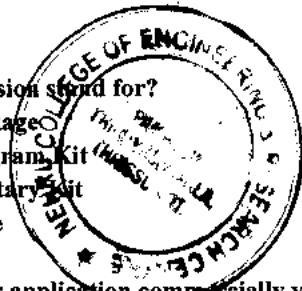
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- C. Android Proprietary Kit
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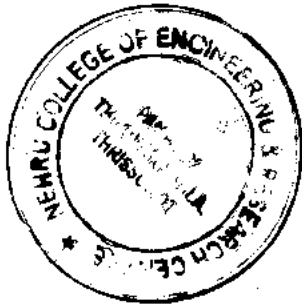
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**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE  
DEPARTMENT OF COMPUTER APPLICATIONS**

**Importance of Mobile Applications**

1) Android is licensed under which open source licensing license?

- A. Gnu's GPL
- B. Apache/MIT
- C. OSS
- D. Sourceforge

Ans: B

2) Although most people's first thought when they think of Android is Google, Android is not actually owned by Google. Who owns the Android platform?

- A. Oracle Technology
- B. Dalvik
- C. Open Handset Alliance
- D. The above statement is and Android is owned by Google

Ans: C

3) As an Android programmer, what version of Android should you use as your minimum development target?

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- B. Versions 1.0 or 1.1
- C. Versions 1.2 or 1.3
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Ans: A

4) What was Google's main business motivation for supporting Android?

- A. To level the playing field for mobile devices
- B. To directly compete with the iPhone
- C. To corner the mobile device application market for licensing purposes
- D. To allow them to advertise more

Ans: D

5) What was the first phone released that ran the Android OS?

- A. Google gPhone
- B. T-Mobile G1
- C. Motorola Droid
- D. HTC Hero

Ans: B

6) From a phone manufacturer's point of view, what makes Android so great?

- A. Aside from some specific drivers, it provides everything to make a phone work
- B. It makes the hardware work better
- C. It allows them to compete with Apple's iPhone
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Ans: A

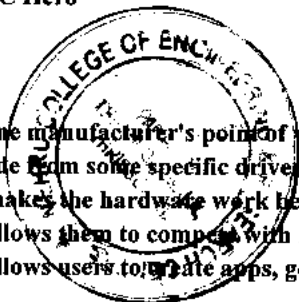
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Ans: B

8) What year was the Open Handset Alliance announced?

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- C. 2007



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D. 2008

Ans: C

9) A device with Android installed is needed to develop apps for Android.

- A. True
- B. False

Ans: B

10) Android tries hard to \_\_\_\_\_ low-level components, such as the software stack, with interfaces so that vendor-specific code can be managed easily.

- A. confound
- B. abstract
- C. modularize
- D. compound

Ans: B

11) Google licensed some proprietary apps.

- A. True
- B. False

Ans: A

12) What part of the Android platform is open source?

- A. low-level Linux modules
- B. all of these answers #The entire stack is an open source platform
- C. native libraries
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Ans: B

13) When did Google purchase Android?

- A. 2007
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- D. 2010

Ans: B

14) Android releases since 1.5 have been given nicknames derived how?

- A. Adjective and strange animal
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- C. Something that starts w/ 'A' ->Something that starts w/ 'B'...
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Ans: B

15) Which one is not a nickname of a version of Android?

- A. cupcake
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Ans: D

16) Android doesn't make any assumptions about a device's screen size, resolution, or chipset.

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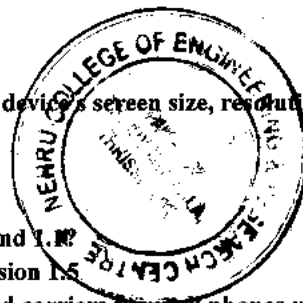
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Ans: D

18) Which Android version had the greatest share of the market as of January 2011?

- A. 1.1
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Ans: B

19) Which piece of code used in Android is not open source?

- A. Keypad driver
- B. WiFi? driver
- C. Audio driver
- D. Power management

Ans: B

20) Android is built upon the Java Micro Edition (J2ME) version of Java.

- A. True
- B. False

Ans: B

Also Read Android Interview Questions & Answers

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- B. Dalvik
- C. OpenGL
- D. SQLite

Ans: B

22) Android is based on Linux for the following reason.

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- B. Portability
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Ans: D

23) What operating system is used as the base of the Android stack?

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Ans: A

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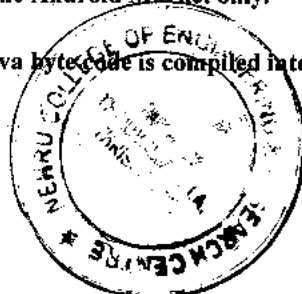
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D. Power management

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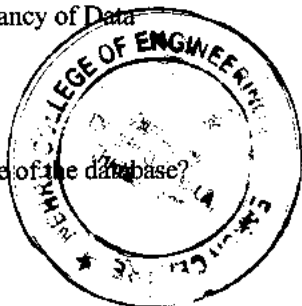


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  - b) Text, files containing data
  - c) Data in the form of audio or video
  - d) All of the above
  
6. In which of the following formats data is stored in the database management system?
  - a) Image
  - b) Text
  - c) Table
  - d) Graph
  
7. Which of the following is not a type of database?
  - a) Hierarchical
  - b) Network
  - c) Distributed
  - d) Decentralized
  
8. Which of the following is not an example of DBMS?
  - a) MySQL
  - b) Microsoft Access
  - c) IBM DB2
  - d) Google
  
9. Which of the following is a feature of DBMS?
  - a) Minimum Duplication and Redundancy of Data
  - b) High Level of Security
  - c) Single-user Access only
  - d) Support ACID Property
  
10. Which of the following is a feature of the database?
  - a) No-backup for the data stored
  - b) User interface provided
  - c) Lack of Authentication



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d) Store data in multiple locations

11. The ability to query data, as well as insert, delete, and alter tuples, is offered by \_\_\_\_\_

- a) TCL (Transaction Control Language)
- b) DCL (Data Control Language)
- c) DDL (Data Definition Language)
- d) DML (Data Manipulation Language)

12. \_\_\_\_\_ is a set of one or more attributes taken collectively to uniquely identify a record.

- a) Primary Key
- b) Foreign key
- c) Super key
- d) Candidate key

13. Which command is used to remove a relation from an SQL?

- a) Drop table
- b) Delete
- c) Purge
- d) Remove

14. Which of the following set should be associated with weak entity set for weak entity to be meaningful?

- a) Neighbour set
- b) Strong entity set
- c) Owner set
- d) Identifying set

15. Which of the following command is correct to delete the values in the relation teaches?

- a) Delete from teaches;
- b) Delete from teaches where Id = 'Null';
- c) Remove table teaches;
- d) Drop table teaches;

16. \_\_\_\_\_ operations do not preserve non-matched tuples.

- a) Left outer join
- b) Inner join
- c) Natural join
- d) Right outer join

17. Which forms have a relation that contains information about a single entity?

- a) 4NF
- b) 2NF
- c) 5NF
- d) 3NF

18. \_\_\_\_\_ indicates the maximum number of entities that can be involved in a relationship.

- a) Greater Entity Count
- b) Minimum cardinality
- c) Maximum cardinality
- d) ERD

19. Which of the following is correct regarding the file produced by a spreadsheet?

- a) can be used as it is by the DBMS
- b) stored on disk in an ASCII text format
- c) all of the mentioned
- d) none of the mentioned

20. Which of the following is the best way to represent the attributes in a large db?

- a) Dot representation
- b) Concatenation
- c) Relational-and
- d) All of the mentioned



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*Value Added  
Program*  
**2022**

**Department  
of  
Computer Applications**

*Date:*

**18th - 29th April 2022**

*Resource Person :*

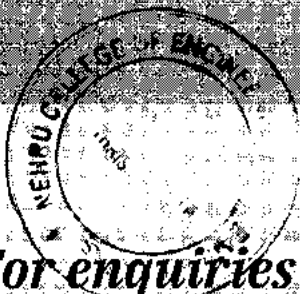
Ramadas P M,  
CEO,  
Qunexa Infosolutions Pvt. Ltd  
Thiruvilwamala, Thrissur

*Venue*

**Kapila Block, NCERC**

**Topic :**

**IMPORTANCE  
OF  
MOBILE  
APPLICATIONS**



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**For enquiries contact Coordinator Pramod K**

☎ 9447068556

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**

**DEPARTMENT OF MCA**

To

The Principal, NCERC

Madam,

Sub: Request for conduct of Value Added Courses for MCA students

As in previous years, we have planned to conduct the Value added program for our students tentatively on April 2022

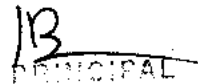
The topic selected for this program is Advanced Database Management

Once approved we shall plan out the execution of program.

Thank you



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**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**

**DEPARTMENT OF MCA**

To

The Principal, NCERC

Madam,

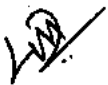
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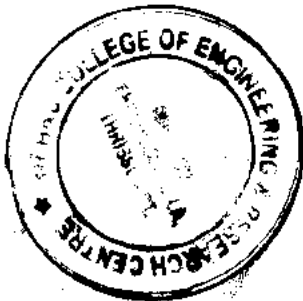
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Thank you



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**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE  
DEPARTMENT OF COMPUTER APPLICATIONS 2021 – 2022**

**SCHEDULE ADVANCED DATABASE MANAGEMENT 06th – 17<sup>th</sup> December 2021**

No	Date	Portions Covered
1	06	DATABASE & DBMS
2	07	RDBMS
3	08	Parallel and Distributed Databases
4	09	Web Databases
5	10	Spatial Data Management
6	13	Android Studio IDE
7	14	Advanced Transaction Processing
8	15	MySQL & PL/SQL
9	16	MONGO DB
10		FRONT END CONNECTIVITY



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## DEPARTMENT OF COMPUTER APPLICATIONS

### SYLLABUS FOR ADVANCED DATABASE MANAGEMENT

**Parallel and Distributed Databases :** Architectures for parallel database, Parallel query Evaluation, Parallelizing individual operation, Parallel Query Optimization, Distributed DBMS Architecture, Storing data in distributed DBMS, Distributed Catalog Management, Distributed query processing, Updating distributed data, Distributed concurrence control, Distributed recovery.

**Web Databases :** Web search engines, web search architecture, Inverted indexes the IR way, Inverted indexes for web search engines, web crawling, web search statistics.

**Spatial Data Management :** Types of Spatial Data and Queries Application involving Spatial data, Introduction to spatial Indexes, Indexing based on space filling Curves, Grid files, R trees, High command Indexing

**Advanced Transaction Processing:** Transaction-Processing Monitors, Transactional Workflows, Main- Memory Databases, Real-Time Transaction Systems, Long-Duration Transactions and Transaction Management in Multi-databases.

**Mongo DB:** Overview, Operators, Commands, CRUD Operation, Mongo DB Shell, Front-End Connectivity



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## DEPARTMENT OF COMPUTER APPLICATIONS

### SYLLABUS FOR INTRODUCTION OF MOBILE APPLICATIONS

#### Introduction to mobile application development

- History of application development
- Theory of application development for mobile platforms
- Understanding basics of application development software
- Understanding smartphone, tablet and laptop application development

#### Android Application development

- History of Android OS
- Understanding the Android OS platform
- Architecture of Android-based devices
- Understanding basics of Java
- Architecture of Android-based devices
- Building basic applications with Java
- Understanding Android application structure
- Designing User Interface
- Updating Android applications

#### Platforms and Additional Issues (as time allows)

- Development Process
- Architecture, Design, Technology Selection
- Mobile App Development Hurdles
- Testing




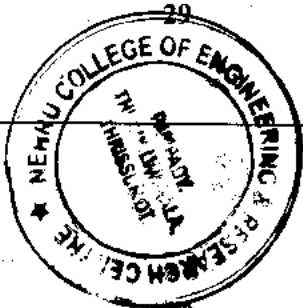
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DEPARTMENT OF COMPUTER APPLICATIONS 2021 – 2022**

**SCHEDULE INTRODUCTION OF MOBILE APPLICATIONS 18th – 29<sup>th</sup> April 2022**

No	Date	Portions Covered
1	18	Basics of application development
2	19	Platforms of Mobile Apps
3	20	Mobile OS
4	21	Android App Development
5	22	Android Widgets, Layouts, Services
6	25	Android Studio IDE
7	26	Real time execution of Mobile Apps
8	27	Comparison of Mobile OS
9	28	Smart devices & its connectivity
10	29	Android DB Connectivity

  
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# NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE

## MCA DEPARTMENT 2021 – 2022

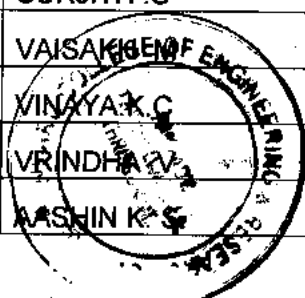
### ATTENDANCE FOR ADD-ON PROGRAM “IMPORTANCE OF MOBILE APPLICATIONS”

18<sup>th</sup> – 29<sup>th</sup> April 2022

NO.	NAME	18	19	20	21	22	25	26	27	28	29
1	ADITHYA . S	/	/	/	/	/	/	/	/	/	/
2	AISWARYA. K.R	/	/	/	/	/	/	/	/	/	/
3	AKSHARA. K.B	/	/	/	/	/	/	/	/	/	/
4	AKSHAY M C	/	/	/	/	/	/	/	/	/	/
5	ANAGA. V.G	/	/	/	/	/	/	/	/	/	/
6	ANJIMA .A.P	/	/	/	/	/	/	/	/	/	/
7	ANSHIDHA K.K.	/	/	/	/	/	/	/	/	/	/
8	APARNA .P	/	/	/	/	/	/	/	/	/	/
9	APARNA C G	/	/	/	/	/	/	/	/	/	/
10	ARDRA MURALI	/	/	/	/	/	/	/	/	/	/
11	ARSHA M S	/	/	/	/	/	/	/	/	/	/
12	ARUN .A	/	/	/	/	/	/	/	/	/	/
13	ARYA P	/	/	/	/	/	/	/	/	/	/
14	ASWIN KUMAR V N	/	/	/	/	/	/	/	/	/	/
15	ATHULYAMOL V.	/	/	/	/	/	/	/	/	/	/
16	BINURAJ S B	/	/	/	/	/	/	/	/	/	/
17	CHAITHANYA. C. J	/	/	/	/	/	/	/	/	/	/
18	DEVIKA .K.S	/	/	/	/	/	/	/	/	/	/
19	DEVIKA V A	/	/	/	/	/	/	/	/	/	/
20	DHIVEG.D	/	/	/	/	/	/	/	/	/	/
21	DILNA A	/	/	/	/	/	/	/	/	/	/
22	DIVYA .M.V	/	/	/	/	/	/	/	/	/	/
23	GOPIKA.V	/	/	/	/	/	/	/	/	/	/
24	HAREESH. K	/	/	/	/	/	/	/	/	/	/
25	HARITHA K.P	/	/	/	/	/	/	/	/	/	/
26	HARYA. B.H	/	/	/	/	/	/	/	/	/	/
27	HEERA VENU	/	/	/	/	/	/	/	/	/	/
28	HIBNAYASMINE	/	/	/	/	/	/	/	/	/	/

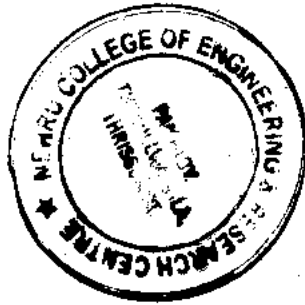



29	JOLSANA MARIA JOYSON	/	/	/	/	/	/	/	/	/	/
30	KRISHNENDHU.R	/	/	/	/	/	/	/	/	/	/
31	LIBIN T.B	/	/	/	/	/	/	/	/	/	/
32	LINCY JOHN	/	/	/	/	/	/	/	/	/	/
33	MANO K	/	/	/	/	/	/	/	/	/	/
34	MEENU K N	/	/	/	/	/	/	/	/	/	/
35	MERIN J. DOMINIC	/	/	/	/	/	/	/	/	/	/
36	MIDHILA M	/	/	/	/	/	/	/	/	/	/
37	MUHSINA K P	/	/	/	/	/	/	/	/	/	/
38	MUNEER. S	/	/	/	/	/	/	/	/	/	/
39	NANDHANA P M	/	/	/	/	/	/	/	/	/	/
40	NAYANA GEORGE	/	/	/	/	/	/	/	/	/	/
41	NIMMI RAMADAS	/	/	/	/	/	/	/	/	/	/
42	PRAVITHA C.P.	/	/	/	/	/	/	/	/	/	/
43	RAFEENA A	/	/	/	/	/	/	/	/	/	/
44	RAMEESHA M	/	/	/	/	/	/	/	/	/	/
45	REKHA. K	/	/	/	/	/	/	/	/	/	/
46	RINU N	/	/	/	/	/	/	/	/	/	/
47	R SHRIRAM	/	/	/	/	/	/	/	/	/	/
48	SHAINIMOL V.S.	/	/	/	/	/	/	/	/	/	/
49	SHERIN SITHARA A	/	/	/	/	/	/	/	/	/	/
50	SHILPA P S	/	/	/	/	/	/	/	/	/	/
51	SINIJA.P.S	/	/	/	/	/	/	/	/	/	/
52	SNEHA. K	/	/	/	/	/	/	/	/	/	/
53	SONIYA .M. G	/	/	/	/	/	/	/	/	/	/
54	SREELAKSHMI.V	/	/	/	/	/	/	/	/	/	/
55	SREERAJ. C.S	/	/	/	/	/	/	/	/	/	/
56	SUHAILA	/	/	/	/	/	/	/	/	/	/
57	SURJITH. S	/	/	/	/	/	/	/	/	/	/
58	VAISAKH	/	/	/	/	/	/	/	/	/	/
59	VINAYA.K.C	/	/	/	/	/	/	/	/	/	/
60	VRINDHA	/	/	/	/	/	/	/	/	/	/
61	VASHIN K.S	/	/	/	/	/	/	/	/	/	/



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62	IJAZ AHAMMED K M	/	/	/	/	/	/	/	/	/	/
63	SARANYA . K	/	/	/	/	/	/	/	/	/	/
64	SOUMYA. G	/	/	/	/	/	/	/	/	/	/
65	SREEHARI. P.R	/	/	/	/	/	/	/	/	/	/



  
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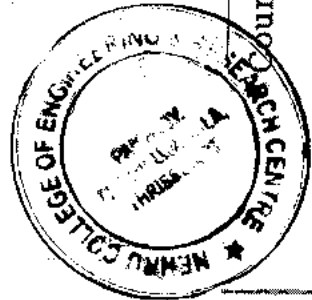
## DEPARTMENT OF COMPUTER APPLICATIONS

Add-on Program 06th-17th December 2021

# CERTIFICATE OF PARTICIPATION

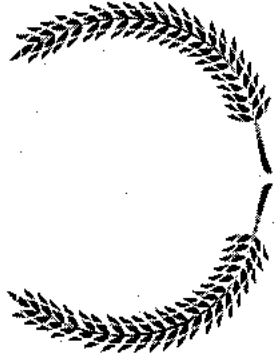
..... of  
..... N.C.E.R.C..... college has actively participated

in a value added program " Advanced Database Management ". Upon completion of theoretical and practical modules and successfully completed the assessment test this document of participation is presented.



*[Signature]*

Course Co-ordinator



*[Signature]*

HOD -MCA Dept.

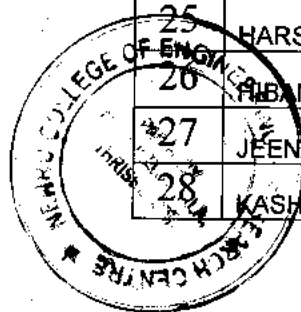
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**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**  
**MCA DEPARTMENT 2021 – 2022**

**ATTENDANCE FOR ADD-ON PROGRAM “ADVANCED DATABASE MANAGEMENT”**

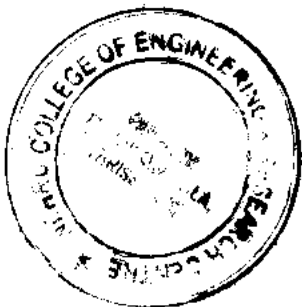
**06<sup>th</sup> – 17<sup>th</sup> Dec 2021**

NO.	NAME	06	07	08	09	10	13	14	15	16	17
1	ABINRAJ M R	/	/	/	/	/	/	/	/	/	/
2	ADARSH R NAIR	/	/	/	/	/	/	/	/	/	/
3	AHSANA FATHIMA E	/	/	/	/	/	/	/	/	/	/
4	AIRISH BABY	/	/	/	/	/	/	/	/	/	/
5	AJMAL K	/	/	/	/	/	/	/	/	/	/
6	AMRUTHA R	/	/	/	/	/	/	/	/	/	/
7	ANJANA V	/	/	/	/	/	/	/	/	/	/
8	ANJU BABU	/	/	/	/	/	/	/	/	/	/
9	ANOOP B K	/	/	/	/	/	/	/	/	/	/
10	ANURAJ N	/	/	/	/	/	/	/	/	/	/
11	ARUNDHATHI B	/	/	/	/	/	/	/	/	/	/
12	ARUNIMA O	/	/	/	/	/	/	/	/	/	/
13	ASWATHY VENU	/	/	/	/	/	/	/	/	/	/
14	ASWATHY V S	/	/	/	/	/	/	/	/	/	/
15	ASWIN D	/	/	/	/	/	/	/	/	/	/
16	ATHUL M	/	/	/	/	/	/	/	/	/	/
17	BASIL JIJI	/	/	/	/	/	/	/	/	/	/
18	DEVAKI V K	/	/	/	/	/	/	/	/	/	/
19	DHANUSH U	/	/	/	/	/	/	/	/	/	/
20	FATHIMA SHAHANA	/	/	/	/	/	/	/	/	/	/
21	FATHIMA THAHASIM U	/	/	/	/	/	/	/	/	/	/
22	FATHIMA THASLIYA P A	/	/	/	/	/	/	/	/	/	/
23	GOPIKA NADARAJAN	/	/	/	/	/	/	/	/	/	/
24	HABEEBA SINU	/	/	/	/	/	/	/	/	/	/
25	HARSHIL S	/	/	/	/	/	/	/	/	/	/
26	IBRAHIM MOL C	/	/	/	/	/	/	/	/	/	/
27	JEENA THOMAS	/	/	/	/	/	/	/	/	/	/
28	KASHYAP KSRISHNA KR	/	/	/	/	/	/	/	/	/	/



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29	KRISHNA K	/	/	/	/	/	/	/	/	/	/
30	MADHU H	/	/	/	/	/	/	/	/	/	/
31	MELVIN VINCY	/	/	/	/	/	/	/	/	/	/
32	MOHAMED SANHAR S	/	/	/	/	/	/	/	/	/	/
33	MRIDULA P	/	/	/	/	/	/	/	/	/	/
34	NASREEN PARAYIL	/	/	/	/	/	/	/	/	/	/
35	PRAVEENA K R	/	/	/	/	/	/	/	/	/	/
36	RADHIDEVE	/	/	/	/	/	/	/	/	/	/
37	RANJITHA MENON K G	/	/	/	/	/	/	/	/	/	/
38	RASEENA K K	/	/	/	/	/	/	/	/	/	/
39	RUSHDA NASREEN P	/	/	/	/	/	/	/	/	/	/
40	SABANA JASMINE C	/	/	/	/	/	/	/	/	/	/
41	SAHAL P S	/	/	/	/	/	/	/	/	/	/
42	SHAN ALI HASSAN	/	/	/	/	/	/	/	/	/	/
43	SHIBIN SHANTY	/	/	/	/	/	/	/	/	/	/
44	SIDHARTHAN V U	/	/	/	/	/	/	/	/	/	/
45	SNEHA VIJAYAN T	/	/	/	/	/	/	/	/	/	/
46	SOORAJ M	/	/	/	/	/	/	/	/	/	/
47	SOORYA S NAMBOODIRI	/	/	/	/	/	/	/	/	/	/
48	SREEJITH K M	/	/	/	/	/	/	/	/	/	/
49	SUBITHA P	/	/	/	/	/	/	/	/	/	/
50	SWATHILAKSHMI P R	/	/	/	/	/	/	/	/	/	/
51	VARSHA J	/	/	/	/	/	/	/	/	/	/
52	VISHNU A S	/	/	/	/	/	/	/	/	/	/
53	VISHNU PREM NAIR	/	/	/	/	/	/	/	/	/	/
54	VISHNU S	/	/	/	/	/	/	/	/	/	/
55	VISMAYA VIJAY V	/	/	/	/	/	/	/	/	/	/



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**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**

**DEPARTMENT OF MCA**


Minutes of Meeting conducted on 07/04/2022

1. Principal's approval dt.18<sup>th</sup> – 29<sup>th</sup> April 2022 for Value Added courses
2. Topic of VA Course is fixed as Importance of Mobile Applications
3. The syllabus may cover Android, Mobile App Development
4. Class tutors must motivate the students to take the course seriously
5. Evaluation may be done through Quiz, Written Exams and Group activities
6. Certificates for successful students may be provided

Coordinator – VA Courses-MCA

Faculty Attendees

Dr.Sudheer.S.Marar 

Pramod K 

Dr.Deepa A 


Student Attendees

R Sriram 

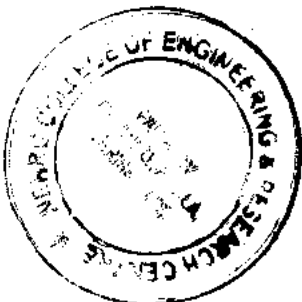
Vinaya 

Sreehari 

Aashin KS 

  
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# Nehru College Of Engineering & Research Centre, Pampady

Department of MCA

Circular

This is to inform you that the Department of MCA is conducting value added course on Advanced Database Management from 06/12/21 to 17/12/21.

Attendance is compulsory.

Pampady

01/12/21



HOD MCA



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# Nehru College Of Engineering & Research Centre, Pampady

Department of MCA

Circular

This is to inform you that the Department of MCA is conducting value added course on Importance of Mobile Applications from 18/04/22 to 29/04/22.

Attendance is compulsory.

Pampady

11/04/22



HOD MCA



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# NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE

## MCA DEPARTMENT 2021 – 2022

### MARK LIST OF ADD-ON PROGRAM “ADVANCED DATABASE MANAGEMENT”

06<sup>th</sup> – 17<sup>th</sup> Dec 2021

NO.	NAME	MARK
1	ABINRAJ M R	17
2	ADARSH R NAIR	18
3	AHSANA FATHIMA E	16
4	AIRISH BABY	15
5	AJMAL K	15
6	AMRUTHA R	16
7	ANJANA V	16
8	ANJU BABU	17
9	ANOOP B K	18
10	ANURAJ N	18
11	ARUNDHATHI B	19
12	ARUNIMA O	18
13	ASWATHY VENU	18
14	ASWATHY V S	15
15	ASWIN D	16
16	ATHUL M	15
17	BASIL JIJI	15
18	DEVAKI V K	14
19	DHANUSH U	14
20	FATHIMA SHAHANA	16
21	FATHIMA THAHASIM U	16
22	FATHIMA THASLIYA P A	15
23	GOPIKA NADARAJAN	17
24	HABEEB	16
25	HABSHIL	17
26	HIRAMOL	18
27	JEENA THOMAS	19
28	KASHYAP KRISHNA K R	15

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29	KRISHNA K	15
30	MADHU H	16
31	MELVIN VINCY	17
32	MOHAMED SANHAR S	17
33	MRIDULA P	18
34	NASREEN PARAYIL	19
35	PRAVEENA K R	19
36	RADHIDEVE	12
37	RANJITHA MENON K G	14
38	RASEENA K K	13
39	RUSHDA NASREEN P	12
40	SABANA JASMINE C	14
41	SAHAL P S	15
42	SHAN ALI HASSAN	16
43	SHIBIN SHANTY	17
44	SIDHARTHAN V U	18
45	SNEHA VIJAYAN T	12
46	SOORAJ M	13
47	SOORYA S NAMBOODIRI	14
48	SREEJITH K M	15
49	SUBITHA P	16
50	SWATHILAKSHMI P R	17
51	VARSHA J	18
52	VISHNU A S	12
53	VISHNU PREM NAIR	14
54	VISHNU S	14
55	VISMAYA VIJAY V	12



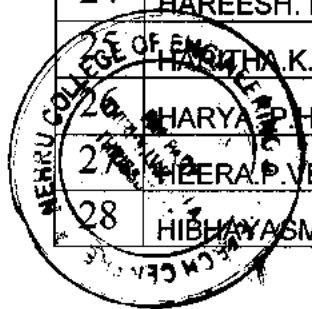
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**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE  
MCA DEPARTMENT 2021 – 2022**

**MARK LIST OF ADD-ON PROGRAM "IMPORTANCE OF MOBILE APPLICATIONS"**

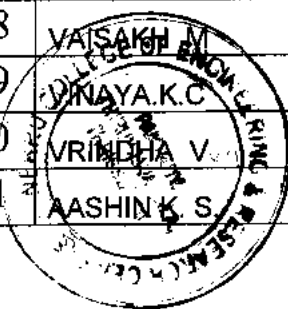
**18<sup>th</sup> – 29<sup>th</sup> April 2022**

NO.	NAME	MARK
1	ADITHYA . S	26
2	AISWARYA. K.R	25
3	AKSHARA. K.B	26
4	AKSHAY M C	27
5	ANAGA. V.G	28
6	ANJIMA .A.P	29
7	ANSHIDHA K.K.	28
8	APARNA .P	25
9	APARNA C G	24
10	ARDRA MURALI	24
11	ARSHA M S	25
12	ARUN .A	26
13	ARYA P	27
14	ASWIN KUMAR V N	25
15	ATHULYAMOL V.	26
16	BINURAJ S B	27
17	CHAITHANYA. C. J	28
18	DEVIKA .K.S	26
19	DEVIKA V A	25
20	DHIVEG.D	27
21	DILNA A	24
22	DIVYA .M.V	25
23	GOPIKA.V	24
24	HAREESH. K	24
25	HARITHA.K.P.	25
26	HARYA .P.H	26
27	HEERA.P.VENU	27
28	HIBHAYASMINE I	27



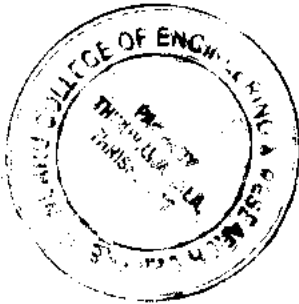
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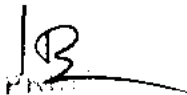
29	JOLSANA MARIA JOYSON	27
30	KRISHNENDHU.R	28
31	LIBIN T.B	24
32	LINCY JOHN	25
33	MANO K	24
34	MEENU K N	26
35	MERIN J. DOMINIC	26
36	MIDHILA M	27
37	MUHSINA K P	25
38	MUNEER. S	26
39	NANDHANA P M	25
40	NAYANA GEORGE	27
41	NIMMI RAMADAS	28
42	PRAVITHA C.P.	29
43	RAFEENA A	28
44	RAMEESHA M	25
45	REKHA. K	25
46	RINU N	26
47	R SHRIRAM	27
48	SHAINIMOL V.S.	24
49	SHERIN SITHARA A	27
50	SHILPA P S	28
51	SINIJA.P.S	28
52	SNEHA. K	26
53	SONIYA .M. G	25
54	SREELAKSHMI.V	24
55	SREERAJ. C.S	24
56	SUHAILA	25
57	SURJITH .S	26
58	VASAKH M	27
59	VINAYA.K.C	27
60	VRINDHA V	26
61	AASHIN K S	28



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62	IJAZ AHAMMED K M	24
63	SARANYA . K	25
64	SOUMYA. G	26
65	SREEHARI. P.R	27



  
M. S. Rao  
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FROM

SUNDARAMOORTHY P

ASSISTANT PROFESSOR

EEE DEPARTMENT

NCERC

PAMPADY

TO,

THE PRINCIPAL, (THROUGH HOD)

EEE DEPARTMENT

NCERC

PAMPADY

Sir,

SUB: Requisition for conducting Add-on course on "AI IN SMART GRID "-Reg.

As the assistant professor of EEE department I would like to request your support and permission to conduct a add on course on "AI IN SMART GRID "from SEPTEMBER 27<sup>th</sup> 2021 to January 17<sup>th</sup> 2022. The duration of the course will be for a period of 30 hours. The objective of the course is to impart in depth understanding of various AI techniques and their applications to power systems and which will be useful for student projects and for their further career. This course will act as a key to enhance knowledge level of students.

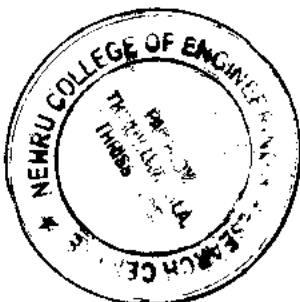
The 2018-22 batch admission students of EEE department are eligible for this course.

So, I request you to provide the permission for doing this add on course.

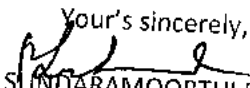
Thank you for your consideration. I look forward for your response soon.

PLACE: Pampady

DATE: 02-09-21



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Your's sincerely,  
  
SUNDARAMOORTHY P

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**

**(ACCREDITED BY NAAC)**

**PAMPADY, THIRUVILWAMALA, THRISSUR DIST.**

**MINUTES OF DEPARTMENT ADVISORY COMMITTEE MEETING HELD ON 02/09/2021**

A meeting of the Department Advisory Committee (DAC) was held on 02<sup>nd</sup> September 2021 at 3:00 PM in the chamber of HoD, EEE department.

The following members were present:

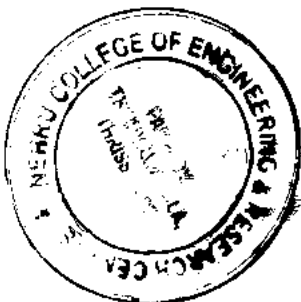
1. Dr. Sobha Manakkal-HoD, EEE Dept. *Smy*
2. Mr. Sundaramoorthi P-Assistant Professor, EEE Dept. *Sundaramoorthi*
3. Mr. David E-Assistant Professor, EEE Dept. *David*
4. Mr. Anoop Kumar M.V-Assistant Professor, EEE Dept. *Anoop*
5. Mr. Rajkumar G-Assistant Professor, EEE Dept. *Rajkumar*

The following decisions were taken:

1. It was decided to conduct a add on course on "AI IN SMART GRID" from 27<sup>th</sup> September 2021 to 17<sup>th</sup> January 2022 for a period of 30 hours.
2. The course will enhance the technical knowledge of students in the latest developments in the field of IoT and smart grid.
3. It was decided to provide the course for 2018-22 batch UG students.
4. Also, it was decided to ensure compulsory attendance and staff advisors should monitor the same.

The meeting came to an end at 3:45 PM.

*Smy*  
HoD



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**ELECTRICAL AND ELECTRONICS DEPARTMENT**

**NOTICE**

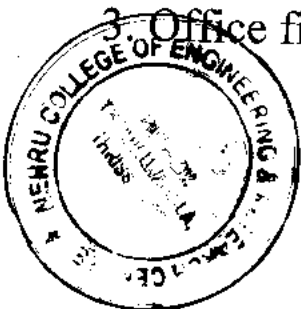
02.09.2021

Department has decided to conduct an add-on course on "ARTIFICIAL INTELLIGENCE IN SMART GRIDS" from September 27<sup>th</sup>,2021 to January 17<sup>th</sup>,2022. The duration of the course will be for a period of 30 hours. The course will enhance the technical knowledge of students in the latest developments in the field of Artificial Intelligence in Smart Grids. This course will act as a key for enhancing know how of students on Artificial Intelligence and its application in Smart Grids.

Students of 2018-22 batch admissions (UG) are eligible for this course. All concerned students should attend the entire course without fail. Attendance is compulsory.

Copy:

1. Department Notice Board
2. Staff advisors(For Information to students)
3. Office file



*IB*

Head of Department  
Engineering and Research Centre  
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*Gms*  
HOD



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PAMPADY, THIRUVILWAMALA, THRISSUR-680588



ADD ON COURSE – ARTIFICIAL INTELLIGENCE IN SMART GRID (AD 21)

BTECH S8 EEE – SYLLABUS

**Course Objectives:**

COB 1: To help the students understand the basic concepts of smart grid

COB 2: To enable the students Learn about the different tools & techniques in smart grid

COB 3: To help the students Acquire the knowledge on the smart grid architecture

COB 4: To make the students understand the various applications of ANN & Fuzzy logic

**Introduction to Smart Grid:** Basics of power systems, definition of smart grid, need for smart grid, smart grid domain, enablers of smart grid, smart grid priority areas, regulatory challenges, and smart-grid activities in India (6 Hours)

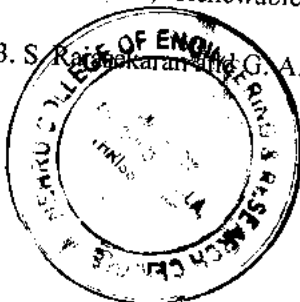
**Tools and Techniques for Smart Grid:** Computational Techniques – Static and Dynamic Optimization Techniques for power applications such as Economic load dispatch – Computational Intelligence Techniques – Evolutionary Algorithms in power system – Artificial Intelligence techniques and applications in power system. (10Hours)

**Smart Grid Architecture:** Smart grid architecture, standards-policies, smart-grid control layer and elements, network architectures, IP-based systems, power line communications, supervisory control and data acquisition system, advanced metering infrastructure. (10 Hours)

**Applications of ANN & Fuzzy Logic:** Load flow studies -Economic load dispatch -Load frequency control – Single area system and two area systems -Reactive power control (4 Hours)

**Text Books:**

1. S. Borlase, "Smart Grids, Infrastructure, Technology and Solutions", CRC Press, 1st Edition, 2013.
2. G. Masters, "Renewable and Efficient Electric Power System", Wiley-IEEE Press, 2nd Edition, 2013.
3. S. Rajkumar and G. A. V. Pai, "Neural Networks, Fuzzy Systems and Evolutionary Algorithms:



Approved

Sms

B

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Synthesis and Applications”, PHI, New Delhi, 2<sup>nd</sup> Edition, 2017.

**Reference Books:**

1. A.G. Phadke and J.S. Thorp, “Synchronized Phasor Measurements and their Applications”, Springer, 2<sup>nd</sup> Edition, 2017.
2. T. Ackermann, “Wind Power in Power Systems”, Hoboken, N J, USA, John Wiley, 2<sup>nd</sup> Edition, 2012.



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S7 EEE- ADD ON COURSE (AI IN SMART GRID)

MCQ QUESTIONS

Name: AAKASH S

Register Number: NCE18EE001

TIME: 30 Minutes

DATE: 10/01/22

1. Smart Grid Technology comprises the following:
  - a. AMI, PLM, OMS, Renewable Integration, Microgrid,
  - b. DR/DSM, Distribution Automation, Energy Efficient Systems
  - c. All of the above
  - d. None of the above
  
2. AMI means
  - a. Automated Metering Instrument
  - b. Alternate Metering Instrument
  - c. Advanced Metering Infrastructure
  - d. Advanced Metering Instrument
  
3. PLM means
  - a. Peak Load Management
  - b. Plant Load Management
  - c. Power Leakage Management
  - d. Plant Leakage Management
  
4. OMS means
  - a. Overall Maintenance System
  - b. Overall Management System
  - c. Outage Management System
  - d. Outage Maintenance System
  
5. The smart grid will help consumers manage their electricity bill.
  - a. True
  - b. False
  
6. Even with a smart meter, consumers still have to call electric company when they lose power.
  - a. True
  - b. False



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7. The smart grid will help electric company minimize service disruptions.  
 a. True  
 b. False
8. The smart grid will help electric company restore power more quickly after an outage.  
 a. True  
 b. False
9. One of the largest returns on investment pertaining to the deployment of advanced sensing and measurement technologies is the reduction of energy theft.  
 a. True  
 b. False
10. Smart Grid goals include all but the following:  
a. Potentially reducing our carbon footprint  
b. Introducing advancements and efficiencies yet to be envisioned  
 c. Assimilate all cultures, all categories of consumers  
d. Maintaining grid affordability
11. Electric vehicles plugged into the grid could potentially help stabilize grids during peak usage times.  
 a. True  
 b. False
12. "Making the grid smarter" may be achieved by replacing traditional analog components with digital ones and incorporating the computing, IT, sensors and other equipment in electric supply system.  
 a. True  
 b. False
13. Smart meter is an important element in building the smart grid. These advanced meters  
a. Measure electricity usage in real time.  
b. Can send data to and from electric companies and their customers.  
c. Allows companies to give consumers more information about their electricity usage, and communicate current electricity prices.  
 d. All of the above
14. Smart Grid technologies are aimed at improvement of  
 a. Only Power Transmission System  
 b. Only Power Distribution system  
 c. Both Power Transmission & Distribution System  
 d. Neither Power Transmission nor Power Distribution system
15. Distributed intelligence is achieved by means of Sensors and other monitoring devices at remote locations intended for long-term operation in the field.



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- a. True
- b. False

16. Net metering allows consumers who contribute power to the grid to receive credit for at least a portion of that electricity.

- a. True
- b. False

17. In a Smart Grid ECO System, a normal consumer is expected to be able to turn to

- a. a non-consumer
- b. a careful consumer
- c. a Prosumer
- d. Both careful consumer and Prosumer

18. Time of use (TOU) is an energy cost reduction measure that permits consumers to operate during off-peak hours.

- a. True
- b. False

19. Time of day rate is the rate charged to electric utility customers based on the varying costs of delivering service at different times throughout the day.

- a. True
- b. False

20. POWERGRID has demonstrated the Smart Grid Technology capabilities in collaboration with various solution providers at

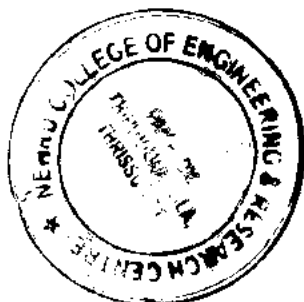
- a. Bengaluru
- b. Mysore
- c. Puducherry
- d. New Delhi

21. The Southern regional grid of India was connected with the Central grid in \_\_\_\_\_

- a. November 2003.
- b. October 2012.
- c. January 2008.
- d. December 2013.

22. "One Nation, One grid" is achieved by connecting \_\_\_\_\_ regional Grids of India to central Grid.

- a. 5
- b. 4
- c. 6



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d.3

23. What is not true for smart grid in comparison with conventional power grid?

- a. two way communication
- b. continuous monitoring and feedback from the grid
- c. fault finding and real time pricing is possible
- d. cannot support integration of renewable energy sources

24. The Real time pricing consist of three levels as,

- a. On Peak, Interim Peak and Off peak
- b. Full load, No load, Half Load
- c. low tariff, mid tariff, high tariff
- d. communication, billing, payment

25. CDM is defined in \_\_\_\_\_ Protocol.

- a. IEEE (IE8975)
- b. TCP/IP (IP 1070)
- c. Kyoto (IPCC 2007)
- d. AI (2017 CX)

26. CDM is \_\_\_\_\_

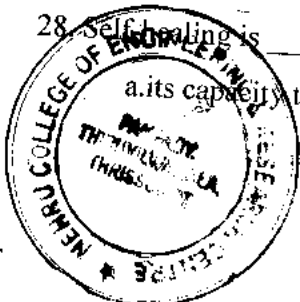
- a. Code Diversion multiplexing
- b. Clean Development Mechanism
- c. Carbon Development Management
- d. Clean Division Management

27. Following are the Pillars of smart grid, \_\_\_\_\_.

- a. control system, feedback management system, PIC system, emergency system
- b. Transmission optimization, demand Side Management, Distribution optimization, Asset optimization
- c. Transmission control, Fault detection, islanding
- d. Electomechanical meter, microgrid, power line communication, smooth Interoperability

28. Self healing is \_\_\_\_\_

- a. its capacity to fix some failures affecting it main function to supply power.



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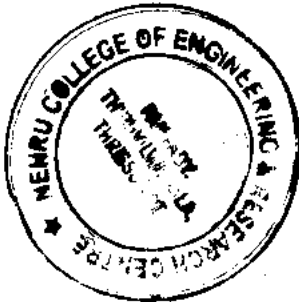
- b. its ability to communicate with sensors and control panels.
- c. its capacity to manage crew in case of outage.
- d. its ability to convert analog data to digital data


29. Following is the Disadvantage of Smart grid.

- a. Privacy and Security
- b. Data analysing
- c. Plug and Play technique
- d. Fault finding

30. Conventional power grid systems \_\_\_\_\_.

- a. can be upgraded to the advanced system.
- b. can not be upgraded to the advanced system.
- c. are robust towards advancements.
- d. cannot adapt new technologies



  
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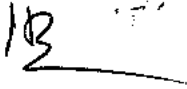


**S7 EEE- ADD ON COURSE (AI IN SMART GRID)**

**ANSWER KEY**

1. All of the above
2. Advanced Metering Infrastructure
3. Peak Load Management
4. outage management systems
5. True
6. False
7. True
8. True
9. True
10. Assimilate all cultures, all categories of consumers
11. True
12. True
13. All of the above
14. both power transmission and distribution systems
15. True
16. True
17. Both careful consumer and prosumer
18. True
19. True
20. Puducherry
21. b



  
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- 23.b
- 24.c
- 25.d
- 26.a
- 27.b
- 28.b
- 29.c
- 30.a

Charles & Veritas Sm



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Performance Sheet for Add-on Course on "ARTIFICIAL INTELLIGENCE IN SMART  
GRID"

Electrical & Electronics Engineering (UG) - (2018-2022)

PERFORMANCE ANALYSIS

S.NO	REG. NO	NAME OF STUDENT	MARKS(30)
1	NCE18EE001	AAKASH S	29
2	NCE18EE002	ABHIJITH T H	27
3	NCE18EE003	AISWARYA S	26
4	NCE18EE004	AKSHAY BABU	26
5	NCE18EE005	ANFIYA MUHAMMED P M	29
6	NCE18EE006	ARUN M J	28
7	NCE18EE007	ASISH NAIR	27
8	NCE18EE008	DEEPU K	26
9	NCE18EE009	DIGIN V B	29
10	NCE18EE010	HARIKRISHNA P	28
11	NCE18EE011	SHARDADEVI	26
12	NCE18EE012	JINSHAD A K	28
13	NCE18EE013	K R RESHMA	27
14	NCE18EE014	HAJA HUSSAIN	26
15	NCE18EE015	K U HARIKRISHNA	26
	NCE18EE016	LIYA ABRAHAM	26



*Vani P*

*S*

*13*  
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17	NCE18EE017	MUHAMED JASIM A	27
18	NCE18EE018	RAMZAD M	26
19	NCE18EE019	SHIHABUDEEN A S	25
20	NCE18EE020	SREEKANTH A MENON	29
21	NCE18EE021	SREETHA S	28
22	NCE18EE022	VISHNU C	26
23	NCE18EE023	VISHNU SANKAR	28
24	LNCE18EE024	ARUNODAYAN T	26

COURSE CO - ORDINATOR

  
P. SUNDARAMOORTHY

HOD/EEE

  
Dr. SOBHA MANAKKAL



**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**



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Department Of Electronics & Communication Engineering:-AY(21-22)

FROM,

RAHUL M NAIR,

ASSISTANT PROFESSOR,

ECE DEPARTMENT, NCERC, PAMPADY.

TO,

THE PRINCIPAL,

NCERC, PAMPADY.

Through HOD

Respected Sir/Madam

SUBJECT:-Request for conducting a certificate Course Reg.

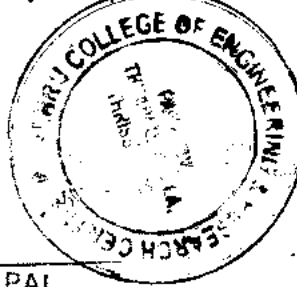
Department of Electronics & communication Engineering, NCERC, is planning to conduct an Add-On Course on "BASICS OF VHDL " from 15-11-21. The course is scheduled as a 30hour program. The main objective of this course is to provide students an understanding of fabrication principles of VHDL. Kindly request you to grant the permission for conducting the sessions. All UG/ Students of batch 2019-23 of ECE Dept, are eligible for this course. Thanking you for your consideration. I look forward to your response soon.

Yours sincerely,

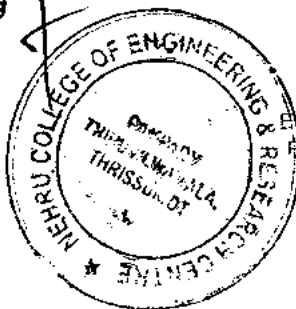
Place:Pampady

Date:12/10/21

*Rahul M Nair*  
HOD



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Pampady, Thiruvilwamala, Thrissur Dt.  
Pin - 680 597, Kerala.

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**Department Of Electronics & Communication Engineering:-AY(21-22)**

FROM,

JITHIN JOSE KALLADA,  
ASSISTANT PROFESSOR,  
ECE DEPARTMENT, NCERC, PAMPADY.

TO,

THE PRINCIPAL,  
NCERC, PAMPADY.

Through HOD

Respected Sir/Madam

SUBJECT:-Request for conducting a certificate Course Reg.

Department of Electronics & communication Engineering, NCERC, is planning to conduct an Add-On Course on "EMBEDDED SYSTEMS" from 15-11-21. The course is scheduled as a 30hour program. The main objective of this course is to provide students an understanding of distributed embedded systems and coding. Kindly request you to grant the permission for conducting the sessions. All UG/ Students of 2020-24 batch of ECE Dept. are eligible for this course. Thanking you for your consideration. I look forward to your response soon.

Yours sincerely,

Place:Pampady

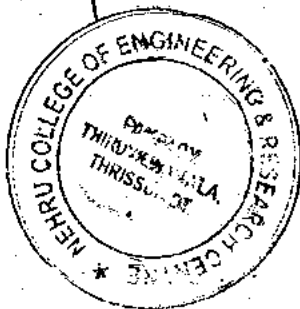
Date:12/11/21

*JB*  
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Department Of Electronics & Communication Engineering:-AY(21-22)

FROM,

VISHNU PRABHA N KAIMAL,  
ASSISTANT PROFESSOR,  
ECE DEPARTMENT, NCERC, PAMPADY.

TO,

THE PRINCIPAL,  
NCERC, PAMPADY.

Through HOD

Respected Sir/Madam

SUBJECT:-Request for conducting a certificate Course Reg.

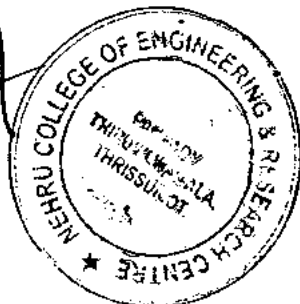
Department of Electronics & communication Engineering, NCERC, is planning to conduct an Add-On Course on "CODING WITH PYTHON" from 25-10-21. The course is scheduled as a 30hour program. The main objective of this course is to provide students an understanding of coding of microprocessors & microcontrollers. Kindly request you to grant the permission for conducting the sessions. All UG/ Students of 2018-22 batch of ECE Dept,are eligible for this course. Thanking you for your consideration. I look forward to your response soon.

Yours sincerely,

Place:Pampady

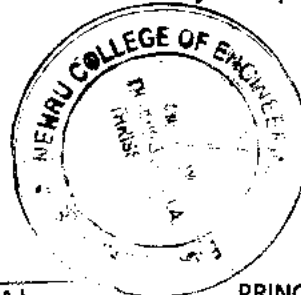
Date:12/10/21

  
HOD



  
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Department Of Electronics & Communication Engineering:-AY(21-22)

**MINUTES OF DEPARTMENT ADVISORY COMMITTEE MEETING HELD ON 12/10/2021**

A meeting of the Department Advisory Committee (DAC) was held on 12th October 2021 at 3:00 PM in the chamber of HoD, ECE department.

The following members were present:


1. Dr. S Rajkumar -HoD, ECE Dept.
2. Mr. P Rajkumar-Assistant Professor, ECE Dept.
3. Mr. Nithin Joe-Assistant Professor, ECE Dept.
4. Mrs. Sajitha A S-Assistant Professor, ECE Dept.
5. Mr. Jithin Jose Kallada-Assistant Professor, ECE Dept.

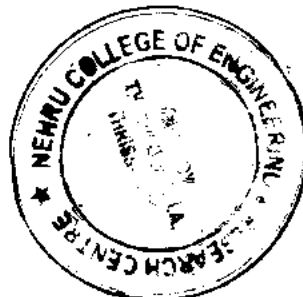
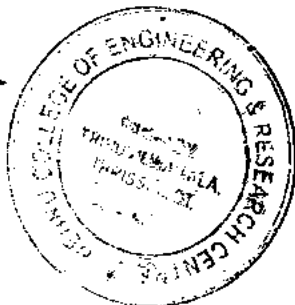
The following decisions were taken:

1. It was decided to conduct a certificate course on "CODING WITH PYTHON" from 25/10/2021 for a period of 30 hours.
2. The course will enhance the technical knowledge of students in the latest developments in the field of coding
3. It was decided to provide the course for 2018-22 batch UG students.
4. Also, it was decided to ensure compulsory attendance and staff advisors should monitor the same.

The meeting came to an end at 3:45 PM.

  
HoD

  
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Department Of Electronics & Communication Engineering:-AY(21-22)

**MINUTES OF DEPARTMENT ADVISORY COMMITTEE MEETING HELD ON 12/10/2021**

A meeting of the Department Advisory Committee (DAC) was held on 12/10/2021 at 1:00 PM in the chamber of HoD, ECE department.

The following members were present:

1. Dr S Rajkumar-HoD, ECE Dept.
2. Mr. Rahul M Nair-Assistant Professor, ECE Dept.
3. Mr. Nithin S S-Assistant Professor, ECE Dept.
4. Mrs. Sajitha A S-Assistant Professor, ECE EEE Dept.
5. Mrs. Lisa C-Assistant Professor, ECE Dept.

The following decisions were taken:

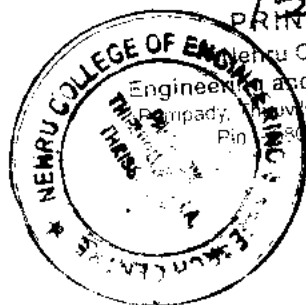
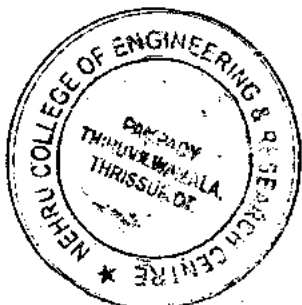
1. It was decided to conduct a certificate course on "BASICS OF VHDL" from 15/11/2021 for a period of 30 hours.
2. The course will update the technical knowledge of students in the latest developments related to the field of coding of digital circuits
- 3: It was decided to provide the course to UG students of 2019-23 UG batch
4. Also, it was decided to ensure compulsory attendance and staff advisors should monitor the same.

The meeting came to an end at 1:45 PM.

*[Signature]*  
HoD

*[Signature]*  
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Department Of Electronics & Communication Engineering:-AY(21-22)

**MINUTES OF DEPARTMENT ADVISORY COMMITTEE MEETING HELD ON 12/10/2021**

A meeting of the Department Advisory Committee (DAC) was held on 12<sup>th</sup> October 2021 at 1:00 PM in the chamber of HoD, ECE department.

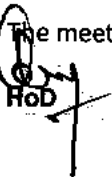
The following members were present:

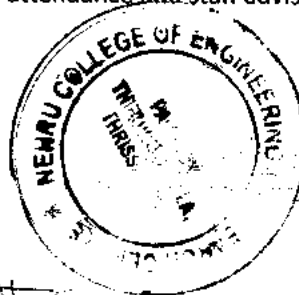
1. Dr S Rajkumar-HoD, ECE Dept.
2. Mr. Rahul M Nair-Assistant Professor, ECE Dept.
3. Mr. Vishnu Prabha N Kaimal-Assistant Professor, ECE Dept.
4. Mrs. Sajitha A S-Assistant Professor, ECE Dept.
5. Mr Nithin Joe-Assistant Professor, ECE Dept.

The following decisions were taken:

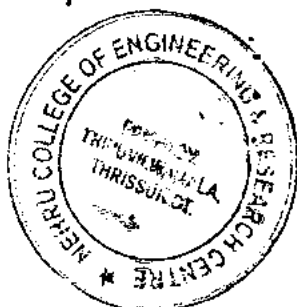
1. It was decided to conduct a certificate course on "EMBEDDED SYSTEM" from 15/11/2021 for a period of 30 hours.
2. The course will update the knowledge of students in the latest developments related to the field of Embedded System
3. It was decided to provide the course for all UG students OF 2020-24 batch
4. Also, it was decided to ensure compulsory attendance and staff advisors should monitor the same.


The meeting came to an end at 1:45 PM.

  
HoD



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## Department of Electronics & Communication Engineering

### NOTICE

18-10-21

The Department has decided to conduct an Add-On course on "EMBEDDED SYSTEM" from 15-11-21. The duration of the course will be for a period of 30 hours. The objective of the course is to impart basic knowledge in the field of Embedded System. UG students of 2020-24 UG batch of ECE department are eligible for this course. All concerned students should attend the entire course without fail. Attendance is compulsory.

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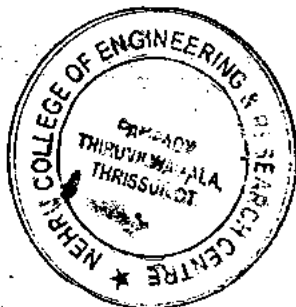
1. Department Notice Board
2. Staff advisors (For Information to students)
3. Office file

*S. Jayaram*  
HoD/ECE

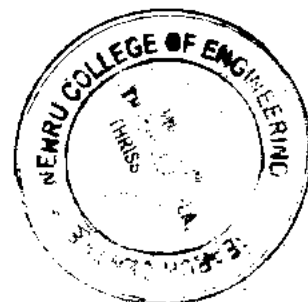
(Dr. S. Jayaram)

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## Department of Electronics & Communication Engineering

### NOTICE

18-10-21

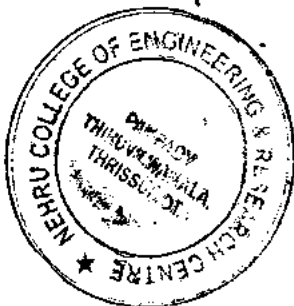
The Department has decided to conduct an Add-On course on "BASICS OF VHDL" from 15-11-2021. The duration of the course will be for a period of 30 hours. The objective of the course is to impart knowledge on coding of digital circuits. This course will help the students to improve the coding skills. Students of 2019-23 batch admissions (UG) of ECE department are eligible for this course. All concerned students should attend the entire course without fail. Attendance is compulsory.

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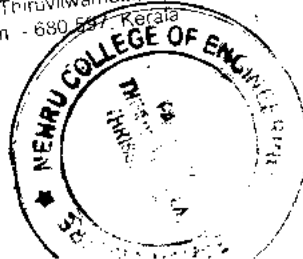
1. Department Notice Board
2. Staff advisors (For Information to students)
3. Office file

*S. Arjun*  
HOD ECE

(Dr-S. Arjun)



*18*  
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**Department of Electronics & Communication Engineering**

**NOTICE**

18-10-21

The Department has decided to conduct an Add-On course on "CODING WITH PYTHON" from 25-10-21. The duration of the course will be for a period of 30 hours. The objective of the course is to impart knowledge on latest developments in the area of coding. 2018-22 batch admissions (UG) of ECE department are eligible for this course. All concerned students should attend the entire course without fail. Attendance is compulsory.

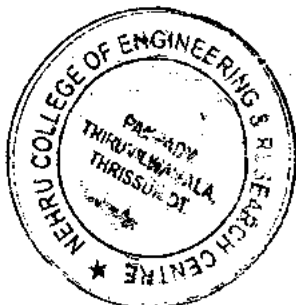
Copy:

1. Department Notice Board
2. Staff advisors(For Information to students)
3. Office file

*S. S. S. S.*  
 HoD/ECE  
 (Dr. S. S. S. S.)

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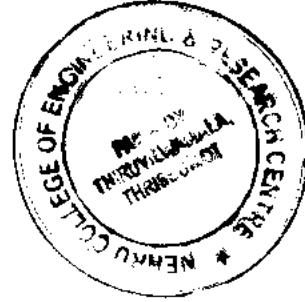
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Department Of Electronics & Communication Engineering

ENROLLEMENT LIST :-ADD ON COURSE ON Basics Of VHDL(2019-23):-AY(21-22)

S.NO	REG NO	Name
1	NCE19EC001	Abhijith P
2	NCE19EC002	Aiswarya P
3	NCE19EC003	Aiswarya R Nayanar
4	NCE19EC004	AKHIL J
5	NCE19EC005	Akshay C K
6	NCE19EC006	Anagha E P
7	NCE19EC007	Anandhu P D
8	NCE19EC008	Ananth Devadutt K
9	NCE19EC009	Anaswara K M
10	NCE19EC010	Ansila
11	NCE19EC011	Aswathi C S
12	NCE19EC012	Aswini K
13	NCE19EC013	Aswin V
14	NCE19EC014	Drisya M
15	NCE19EC015	Greena Sunny
16	NCE19EC016	Jessna P A
17	NCE19EC017	J SREEJITH
18	NCE19EC018	Maatavika venugopal
19	NCE19EC019	Nivedh K R
20	NCE19EC020	Praveen P
21	NCE19EC021	RAHEEB U
22	NCE19EC022	Saranya C M
23	NCE19EC024	SNEHA A PUSHPAKARAN
24	NCE19EC025	Sooraj K S
25	NCE19EC026	SRIJUSH P R
26	NCE19EC027	SRIJESH V S H

HOD



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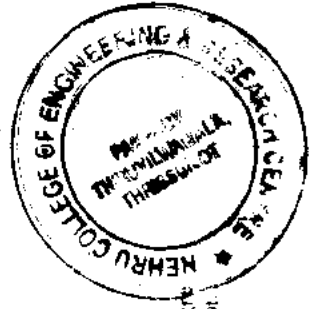
(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)


Department Of Electronics & Communication Engineering:-Ay(21-22)

## ENROLLEMENT LIST :-ADD ON COURSE ON Embedded System(2020-24)

Reg No	Name
NCE20EC001	A ANAKHA
2	AMAL C BOSE
3	AMBIKA S
4	ANUSREE V A
5	ARYA V
6	ASWIN K P
7	DARSANA ANAND
8	GOPIKA KRISHNAN A
9	HARIKRISHNAN HARIDAS
10	JEESON SHAJI
11	JISHNA T R
12	M ARUNKUMAR
13	MUHAMMED SHIBIL A
14	PARVATHI T P
15	SANJANA P
16	SONA R
17	VIDHYA NARAYANAN
18	VISHNU P NAIR

  
HOD



  
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Kerala  
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Kerala  
Pin - 686 557





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Department Of Electronics & Communication Engineering

ENROLLEMENT LIST :-ADD ON COURSE ON "Coding With Python"(2018-22):-AY(21-22)

S:MO	Reg No	NaMÉ
1	NCE18EC001	Aiswarya P B
2	NCE18EC003	Amaya Raj T,
3	NCE18EC004	Anjana M
4	NCE18EC005	ARATHY S
5	NCE18EC006	Athulya M
6	NCE18EC007	Jasim C K
7	NCE18EC008	Jesna S
8	NCE18EC009	Kavya R
9	NCE18EC010	Manikandan H
10	NCE18EC011	Mohammed Aslam P A
11	NCE18EC012	Muhammed Anas M A
12	NCE18EC013	Nithya K S
13	NCE18EC014	Pavana J
14	NCE18EC015	Ranjitha K R
15	NCE18EC016	Safana
16	NCE18EC017	Salabha R Sreenivasan
17	NCE18EC018	Shabna S
18	NCE18EC019	Silpa C
19	NCE18EC020	Sreeshma R
20	NCE18EC021	Sreeshna R
21	NCE18EC022	Sruthi Sajeev
22	NCE18EC023	Sudev A
23	NCE18EC024	Vineeth K



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