



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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

ANGUCHETYPALAYAM, PANRUTI – 607 106.

Academic Year
2017-18
Participative Learning



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

Academic Year 2017-18

Participative Learning

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ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

**PROJECT PRESENTATION
AND
CONTEST**



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI - 607 106.

ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENTS ON-DUTY

S. NO	NAME OF THE STUDENT	YEAR/ SEM	DAYSCHOLAR/ HOSTELLER	SIGNATURE OF INCHARGE	STUDENT'S SIGNATURE
1.	P. Arul Aranae	III/5	Dayscholar	R. Pruthi	P. Arul Aranae
2.	R. Ranjith	III/5	Dayscholar	R. Pruthi	R. Ranjith

OD REQUIRED

: FROM 4/10/17 TO

PURPOSE OF OD

: Technical Festival NEITHAL'17.

COLLEGE NAME

: CK college of Engg. & Tech, Cuddalore

INTERNAL TEST/EXAM MISSED, IF ANY

: YES/NO

ALTERNATIVE ARRANGEMENT

:

RECOMMENDATION OF CLASS INCHARGE: YES/ NO

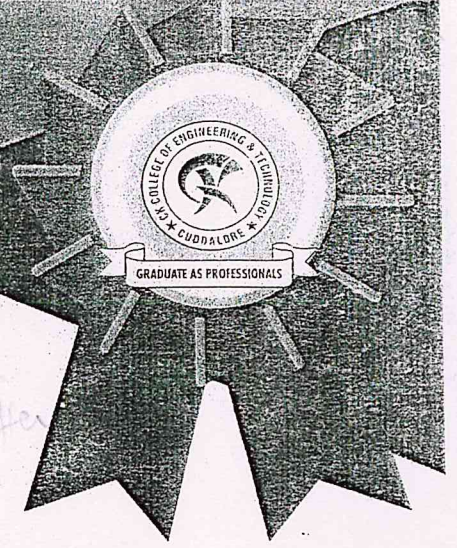
SIGNATURE OF CLASS INCHARGE

: R. Pruthi

COMMENTS AND SIGNATURE OF HOD

: Yes Permitted.

Certificate of Participation



NEITHAL '17

This is to certify that Mr/Ms P. Arul Kumar
of St. Annas College of Engineering & Technology
College had participated in Project Presentation
during the 3rd National Level Technical Festival NEITHAL '17 on
4th October 2017 at C.K. College of Engineering and Technology,

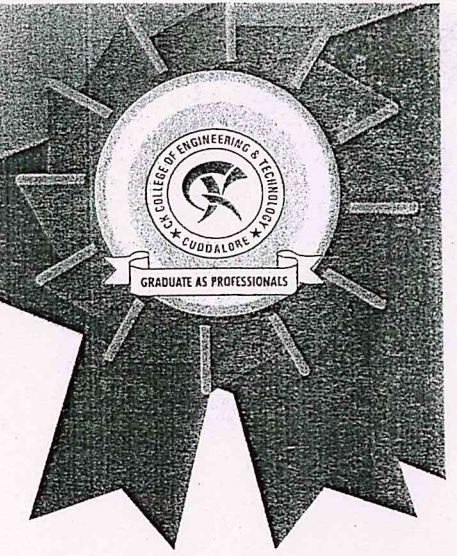
J. Jegadsei
Coordinator

[Signature]
HoD/ECE

[Signature]
Principal

[Signature]
Director

Certificate of Participation



NEITHAL'17

This is to certify that Mr/Ms R. Ranjith
of St. Annas College of Engineering & Technology
College had participated in Project Presentation
during the 3rd National Level Technical Festival NEITHAL'17 on
4th October 2017 at C.K. College of Engineering and Technology.

J. Jegadsevi
Coordinator

[Signature]
HoD/ECE

[Signature]
Principal

[Signature]
Director



ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE New Delhi. Affiliated to Anna University, Chennai)
(An ISO 9001:2015 Certified Institution)
ANGUCHETTYPLAYAM, PANRUTI – 607 106.

RESEARCH AND DEVELOPMENT CELL

Organises

PROJECT PRESENTATION CONTEST

to be held on

28th February 2018

Dr. Sr. Y. Yesu Thangam, SAT
Secretary, St. Anne's CET
will preside

Dr. R. Arokiadass, M.E., Ph.D
Principal, St. Anne's CET
will felicitate

Venue: R&D Cell

Welcomes you All



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(APPROVED BY AICTE, NEW DELHI AND AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
(An ISO 9001:2015 Certified Institution)

ANGUCHETTYPALAYAM, PANRUTI - 607 106.



RESEARCH AND DEVELOPMENT CELL

Certificate of Excellence

This is to certify that

Mr. / Ms. M. AJITH

of IV YEAR CSE

of ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

has won prize in project presentation titled

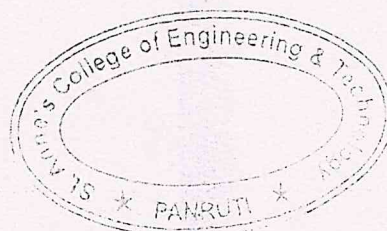
AN EFFICIENT AUTOMATED ATTENDANCE MANAGEMENT
SYSTEM BASED ON FACIAL RECOGNITION USING LBP

organized by Research and Development cell on 28.02.2018.

S. J.
Convener

R. J.
Principal

S. V. J.
Secretary





ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(APPROVED BY AICTE, NEW DELHI AND AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
(An ISO 9001:2015 Certified Institution)

ANGUCHETTPALAYAM, PANRUTI - 607 106.



RESEARCH AND DEVELOPMENT CELL

Certificate of Excellence

This is to certify that

Mr. / Ms. R. PRATHAP MIRAS

of IV YEAR CSE

of ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

has won prize in project presentation titled

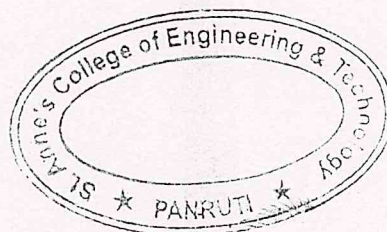
AN EFFICIENT AUTOMATED ATTENDANCE MANAGEMENT SYSTEM BASED ON
FACIAL RECOGNITION USING LBP

organized by Research and Development cell on 28.02.2018.

S. H.
Convener

R. Prathap
Principal

S. V. G.
Secretary





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ANGUCHETYPALAYAM, PANRUTI - 607 106.



RESEARCH AND DEVELOPMENT CELL

Certificate of Excellence

This is to certify that

Mr. / Ms. R. MANIKANDAN

of IV YEAR CSE

of ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

has won prize in project presentation titled

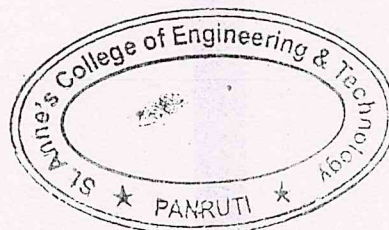
AN EFFICIENT AUTOMATED ATTENDANCE MANAGEMENT SYSTEM BASED ON
FACIAL RECOGNITION USING LBP

organized by Research and Development cell on 28.02.2018.

Sr. J.
Convener

R. Jeyaraj
Principal

S. V. J.
Secretary





ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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

ANGUCHETTYPALAYAM, PANRUTI - 607 106.

ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENTS ON-DUTY

S. NO	NAME OF THE STUDENT	YEAR/ SEM	DAYSCHOLAR/ HOSTELLER	SIGNATURE OF INCHARGE	STUDENT'S SIGNATURE
1.	R. RANJITH	IV/6	DAYSCHOLAR	R. Ranjith	R. Ranjith
2.	P. ARULKUMAR	"	"		P. Arulkumar
3.	S. SYED ABDUL THAKEER	"	"		S. Syed Abdul Thakeer
4.	L. MAGIMAI	"	"		L. Magimai

OD REQUIRED : FROM 22/3/18 TO _____

PURPOSE OF OD : Technical Symposium, ECE-2K18


COLLEGE NAME : AKT Memorial College of Engg. & Tech. Kallakurichi

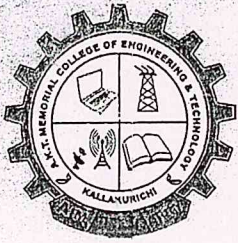
INTERNAL TEST/EXAM MISSED, IF ANY : YES/ NO

ALTERNATIVE ARRANGEMENT :

RECOMMENDATION OF CLASS INCHARGE: YES/ NO

SIGNATURE OF CLASS INCHARGE : R. Ranjith

COMMENTS AND SIGNATURE OF HOD : Yes, Permitted 



A.K.T MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY

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

A.K.T Nagar, Neelamangalam, Kallakurichi, Villupuram Dt., Tamilnadu -606 202.

(Tel : 04151 - 223577,227077, Mobile : 9524742999, Email : aktengg@yahoo.in, Website : www.aktmct.in)

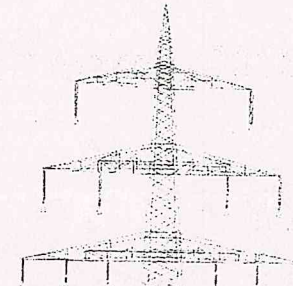
Department of EEE, ECE & CSE

Proudly Presents

A National Level Technical Symposium



Certificate of Appreciation



This is to Certify that Mr./Ms. R. RANTH, P. ARULKUMAR, S. SYEDABULTHAKEER, L. MAGIMAI of

ST. ANNE'S COLLEGE OF ENGG AND TECHNOLOGY has Won I / II / III Prize

in the Event PROJECT EXPO held as a part of

A NATIONAL LEVEL TECHNICAL SYMPOSIUM - E²C-2K18 at A.K.T Memorial College of Engineering

and Technology Organized by the Department of EEE, ECE & CSE on 22nd March, 2018.

Am
Convener

V. Liny
Vice Principal

[Signature]
Principal

[Signature]
Chairman



T. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
ANGUCHETTYPALAYAM, PANRUTI - 607 106.

ELECTRICAL AND ELECTRONICS ENGINEERING

STUDENTS ON-DUTY

S. NO	NAME OF THE STUDENT	YEAR/ SEM	DAY SCHOLAR/ HOSTELLER	SIGNATURE OF INCHARGE	STUDENT'S SIGNATURE
1.	S. Sathya	IV			
1.	K. Krishna	VIII	D.S		K. Krishna
2.	A. Datta doss	"	"	<i>[Signature]</i>	<i>[Signature]</i>
3.	V. Sabash	"	"	<i>[Signature]</i>	v. sabash

OD REQUIRED
PURPOSE OF OD

: FROM 29.3.18 TO _____

: Project Expo

COLLEGE NAME

: KINGS College of Engg.
MONITORING AND

INTERNAL TEST/EXAM MISSED, IF ANY

: YES/NO

ALTERNATIVE ARRANGEMENT

RECOMMENDATION OF CLASS INCHARGE: YES/NO

SIGNATURE OF CLASS INCHARGE

COMMENTS AND SIGNATURE OF HOD

[Signature]
[Signature]

ECE Project Expo, 2018

1. Brochure
2. Or folder




KINGS
COLLEGE OF ENGINEERING


A NAAC Accredited Institution

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Pudukulam, Thanjavur - 613 303.

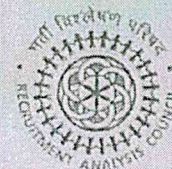
Certificate

This is to certify that Mr. /Ms. K. KRISHNAN of S.T. ANNE'S COLLEGE OF ENG & TECH has demonstrated a project titled MONITORING AND CONTROLLING ENERGY METER BY USING PLC COMMUNICATION SYSTEM in the KINGS PROJECT EXPO'2K18 organized by Kings College of Engineering on 29th March, 2018.


Convenor-KPE'2K18


Principal

Technical Sponsors





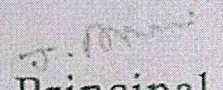
KINGS
COLLEGE OF ENGINEERING

A NAAC Accredited Institution
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Punalakulam, Thanjavur - 613 303.

Certificate

This is to certify that Mr. /Ms. A DEVA DASS of S.T ANNE'S COL OF ENG & TECH has demonstrated a project titled MONITORING AND CONTROLLING ENERGY METER BY USING PLC COMMUNICATION SYSTEM in the KINGS PROJECT EXPO'2K18 organized by Kings College of Engineering on 29th March, 2018.


Convener - KPE2K18


Principal

Technical Sponsors



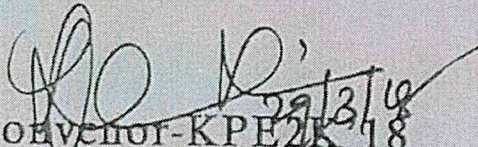



KINGS
COLLEGE OF ENGINEERING

A NAAC Accredited Institution
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Punalakulam, Thanjavur - 613 303.

Certificate

This is to certify that Mr. /Ms. V. SUBASH of S.T ANNE'S CIG OF ENG & TECH has demonstrated a project titled MONITORING AND CONTROLLING ENERGY METER BY USING PLC COMMUNICATION SYSTEM in the KINGS PROJECT EXPO'2K18 organized by Kings College of Engineering on 29th March, 2018.


Convener-KPE2K18


Principal

Technical Sponsors



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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 ANGUCHETTYPALAYAM, PANRUTI - 607 106.

MECHANICAL ENGINEERING

STUDENTS ON-DUTY

S. NO	NAME OF THE STUDENT	YEAR/ SEM	DAYSCHOLAR/ HOSTELLER	SIGNATURE OF INCHARGE	STUDENT'S SIGNATURE
1	V. SURESHKUMAR	IV / VIII	Dayscholar	K. S. Srinivasan 09/01/2018	V. Suresh
2	S. SUBASH	IV / VIII	Dayscholar		S. Subash
3	R. DHINESHKUMAR	IV / VIII	Dayscholar		R. Dhineth
4	L. VIJAY	IV / VIII	Dayscholar		V. Vijay

OD REQUIRED : FROM 10.01.18 TO 12.01.18

PURPOSE OF OD : Science Expo '2018

COLLEGE NAME : ES Engineering College

INTERNAL TEST/EXAM MISSED, IF ANY : YES/NO NO

ALTERNATIVE ARRANGEMENT : -

RECOMMENDATION OF CLASS INCHARGE: YES/ NO YES

SIGNATURE OF CLASS INCHARGE : K. S. Srinivasan
09/01/2018

COMMENTS AND SIGNATURE OF HOD : [Signature]
09/01/2018



E.S. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.)
E.S. Nagar, Chennai Trunk Road, NH-45, Villupuram-605602, Tamil Nadu.

Science EXPO - 2018

MERIT CERTIFICATE

This is to certify that*V. SABARATHINAM*.....

of.....*St. ANNE'S COLLEGE OF ENGG. & TECH.*..... has

won*FIRST*..... place for his / her exhibit displayed in Science Expo - 2018 held during
10th to 12th January 2018 at our institution.

S. Subramanian
Convenor

[Signature]
Coordinator

[Signature]
Principal

*above is proof
of the award
of the merit certificate*



E.S. ENGINEERING COLLEGE

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

E.S. Nagar, Chennai Trunk Road, NH-45, Villupuram-605602, Tamil Nadu.

Science EXPO - 2018

MERIT CERTIFICATE

This is to certify that *S. SUBASH*

of *ST. ANNE'S COLLEGE OF ENGG & TECH* has

won *FIRST* place for his / her exhibit displayed in Science Expo - 2018 held during

10th to 12th January 2018 at our institution.

S. Subash
Convenor

[Signature]
Coordinator

[Signature]
Principal



E.S. ENGINEERING COLLEGE

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

E.S. Nagar, Chennai Trunk Road, NH-45, Villupuram-605602, Tamil Nadu.

Science EXPO - 2018

PARTICIPATION CERTIFICATE

This is to certify that the following students of *ST. ANNE'S COLLEGE OF*.....

ENGINEERING..... have exhibited *KINEMATIC WALKER*..... in

Science Expo - 2018 held during 10th to 12th January 2018 at our institution.

1. *R. DINESH KRISHNAN*
- 2.

S. Subramanian
Convenor

[Signature]
Coordinator

[Signature]
Principal



E.S. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.)
E.S. Nagar, Chennai Trunk Road, NH-45, Villupuram-605602, Tamil Nadu.

Science EXPO - 2018

PARTICIPATION CERTIFICATE

This is to certify that the following students of *ST. ANNE'S COLLEGE OF*

ENGINEERING..... have exhibited *KINEMATIC WALKER*..... in

Science Expo - 2018 held during 10th to 12th January 2018 at our institution.

1. *L. VIJAY.*
- 2.

Subramani
Convenor

[Signature]
Coordinator

[Signature]
Principal



राष्ट्रीय लघु उद्योग निगम लिमिटेड

The National Small Industries Corporation Ltd.

National Small Industries Corporation

(A Government of India Enterprise)

Technical Services Centre

Sector -24 Guindy Industrial Estate, Ekkaduthangal, Chennai-600032.

INTERNSHIP / IMPLANT TRAINING(IPT) / MINI PROJECTS

Dear Sir/Madam,

I extend my Warm greetings and Best wishes for your kind self and all the colleagues of your esteemed organization

As you may kindly be aware, National Small Industries Corporation (A Govt of India Enterprise) under the Ministry of MSME has been playing a vital role to meet the technical and financial needs of Micro, Small and Medium industries in our country. To achieve the goal of technical support to industries of Southern India, NSIC has been operating a Technical Services Centre at Ekkaduthangal, Guindy, Chennai. NTSC, Chennai has been providing Technical skill development/entrepreneurship development training, Job work, Energy Audit, Testing of pumps and Motors, Calibration services to industries. This NSIC Technical-centre has also been imparting technical and entrepreneurship training to the students and fresh graduates to meet the skilled manpower requirement of the industry. The NSIC Technical-centre has well equipped Labs for project testing /evaluation, imparting practical training on individual project using different technologies, professionally qualified and experienced engineering personnel. The students can complete the Trainings and Projects under the Government Organization and utilize our latest technology machinery, software, and infrastructure that is recognized by reputed Govt. Organizations such as ISROs, DRDOs, BHEL, HAL etc.

NOTE: Students who have registered for Internship / implant training will be given first priority in NSIC Job Fair & placement and Free technical courses with Stipend during their final year of college. (Training will be conducted both online and offline).

**Suitable For 1st year, 2nd year, 3rd year and Final year Students of
ECE, EEE, EIE, ICE, BME, CSE, IT, ISE, MECH,
MECHATRONICS, AUTOMOBILE.**

We request you to disseminate this information among students through department notice boards and group Emails. Please contact us for further details. Admission will be based on first come first served basis. Expecting your early response in this regards,

Thanking you,

**“Central Government certificate will be issued to every individual
after their completion of the IPT / INTERNSHIP”**

For Further Details please contact:

Yours faithfully,
(S.Shanthi)

Deputy General Manager

98844 55116, 98844 55161

Email: nsicinternship@gmail.com

① Referencal doc.
② 03/03/2018



No. : P 166/01

राष्ट्रीय लघु उद्योग निगम लिमिटेड
NATIONAL SMALL INDUSTRIES CORPORATION LIMITED
(A Govt. of India Enterprise)

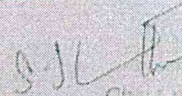
NSIC - TECHNICAL SERVICES CENTRE,
Sector B-24, Guindy Industrial Estate, Ekkaduthangal, Chennai - 600 032


CERTIFICATE

This is to certify that **Mr. N.VASUDEVAN** student of St.Anne's College Of Engineering & Technology, Panruti, has completed the project entitled "**TOUCH DOWN AVIATION ANALYSIS**" at our organisation during the period from 06-12-2017 to 08-02-2018 for partial fulfillment of the requirement for the award of Degree of Bachelor of Engineering (EEE).

Batch No : 166
Date : 19.03.2018




Chief Manager
COURSE CO-ORDINATOR


CENTRE HEAD

एन. एस. आई. सी.
NSIC
ISO 9001:2008

No.: P166/03

राष्ट्रीय लघु उद्योग निगम लिमिटेड
NATIONAL SMALL INDUSTRIES CORPORATION LIMITED
(A Govt. of India Enterprise)

NSIC - TECHNICAL SERVICES CENTRE,
Sector B-24, Guindy Industrial Estate, Ekkaduthangal, Chennai - 600 032

CERTIFICATE

This is to certify that **Mr. V.SOUNDARA PANDIYAN** student of St.Anne's College Of Engineering & Technology, Panruti, has completed the project entitled "**TOUCH DOWN AVIATION ANALYSIS**" at our organisation during the period from 06-12-2017 to 08-02-2018 for partial fulfillment of the requirement for the award of Degree of Bachelor of Engineering (EEE).

Batch No : 166
Date : 19.03.2018



S. S. S.
Chief Manager
COURSE CO-ORDINATOR

A. S.
CENTRE HEAD

एन एस आई सी

NSIC

ISO 9001 : 2008

No. : P166/04

राष्ट्रीय लघु उद्योग निगम लिमिटेड

NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(A Govt. of India Enterprise)

NSIC - TECHNICAL SERVICES CENTRE,

Sector B-24, Guindy Industrial Estate, Ekkaduthangal, Chennai - 600 032

CERTIFICATE

This is to certify that Mr./Ms. **F.PRIYAN** student of St.Anne's College Of Engineering & Technology, Panruti, has completed the project entitled "**TOUCH DOWN AVIATION ANALYSIS**" at our organization during the period from 06-12-2017 to 08-02-2018 for partial fulfillment of the requirement for the award of Degree of Bachelor of Engineering (EEE).

Batch No : 166

Date : 19.03.2018



S.M. The

Chief Manager

COURSE CO-ORDINATOR

A. A.
CENTRE HEAD



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

STUDENT SEMINAR



ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
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ANGUCHETTYPLAYAM, PANRUTI – 607 106.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR
(2017-2018)

CIR. No.: SACET/CSE/CIR/37

Date: 25.09.2017

It is to be informed that the **Student Seminar** will be held for III/V year/sem students at Digital Lab,. All interested staff and students are invited for the seminar.

Name of the Student : **Kavitha K**
Register Number : **422117104035**
Year/Semester : **III/V**
Date and Time : **26.09.2017 @ 3 pm**
Topic of the Seminar : **“ BASICS OF COMPUTERS”**

HOD

Power Point Slides

What is Computer?

A **computer** is a machine that manipulates data according to a list of instructions.

A **computer** is a device capable of performing computations and making logical decisions at speeds millions and even billion of times faster than human beings can.

Computer is an electronic machine which is used for data processing. The output which comes after processing data through computer is known as **Information**.

First Generation (1945 to 1955)

- In 1946 first electronic computer ENIAC (Electronic Numerical Integrator and Calculator) was developed by Mr. J. Presper Eckert and Mr. John Mauchly at University of Pennsylvania.
- It uses 18,000 vacuum tubes and its cost was \$500,000
- Its weight was 30 tons and occupied a 30 by 50 foot space.
- It produced large amount of heat.
- Its speed was very slow.

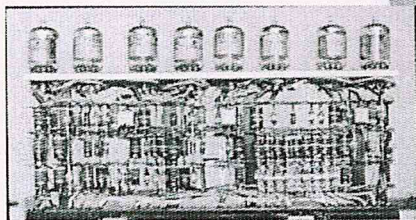
First Generation (1945 to 1955)

- In 1946 first electronic computer ENIAC (Electronic Numerical Integrator and Calculator) was developed by Mr. J. Presper Eckert and Mr. John Mauchly at University of Pennsylvania.
- It uses 18,000 vacuum tubes and its cost was \$500,000
- Its weight was 30 tons and occupied a 30 by 50 foot space.
- It produced large amount of heat.
- Its speed was very slow.

History of Computers:

- Zero th generation (1642 to 1945)
- First Generation (1945 to 1955)
- Second generation (1955 to 1965)
- Third generation (1966 to 1970)
- Fourth generation (1971 to 1980)
- Fifth generation (1980 to present)

VACUUM TUBES

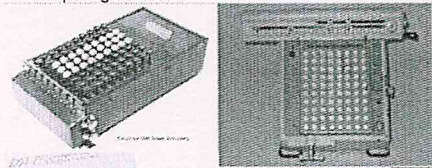


First Generation (1945 to 1955)

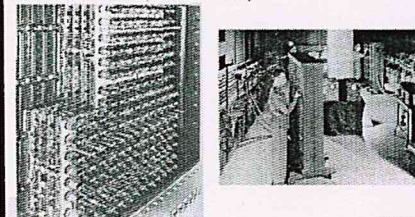
- In 1946 first electronic computer ENIAC (Electronic Numerical Integrator and Calculator) was developed by Mr. J. Presper Eckert and Mr. John Mauchly at University of Pennsylvania.
- It uses 18,000 vacuum tubes and its cost was \$500,000
- Its weight was 30 tons and occupied a 30 by 50 foot space.
- It produced large amount of heat.
- Its speed was very slow.

Zero th generation (1642 to 1945)

- Mechanical calculators were developed as computing device.



First Generation (1945 to 1955)



Second generation (1955 to 1965)

- In this second generation vacuum tubes were replaced by transistors.
- Speed / performance of this generation computers was improved in comparison to first generation computers.
- Size, price, and heat produced reduced by using transistors.

Fifth generation (1980 to present)

- In this generation LSI are replaced by VLSI (Very Large Scale Integrated Circuits)
- Size and cost of these computers is very less and performance is very high





ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
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ANGUCHETTYPLAYAM, PANRUTI – 607 106.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT SEMINAR

EVALUATION SHEET



Name of the Student : **Kavitha K**

Register Number : **422117104035**

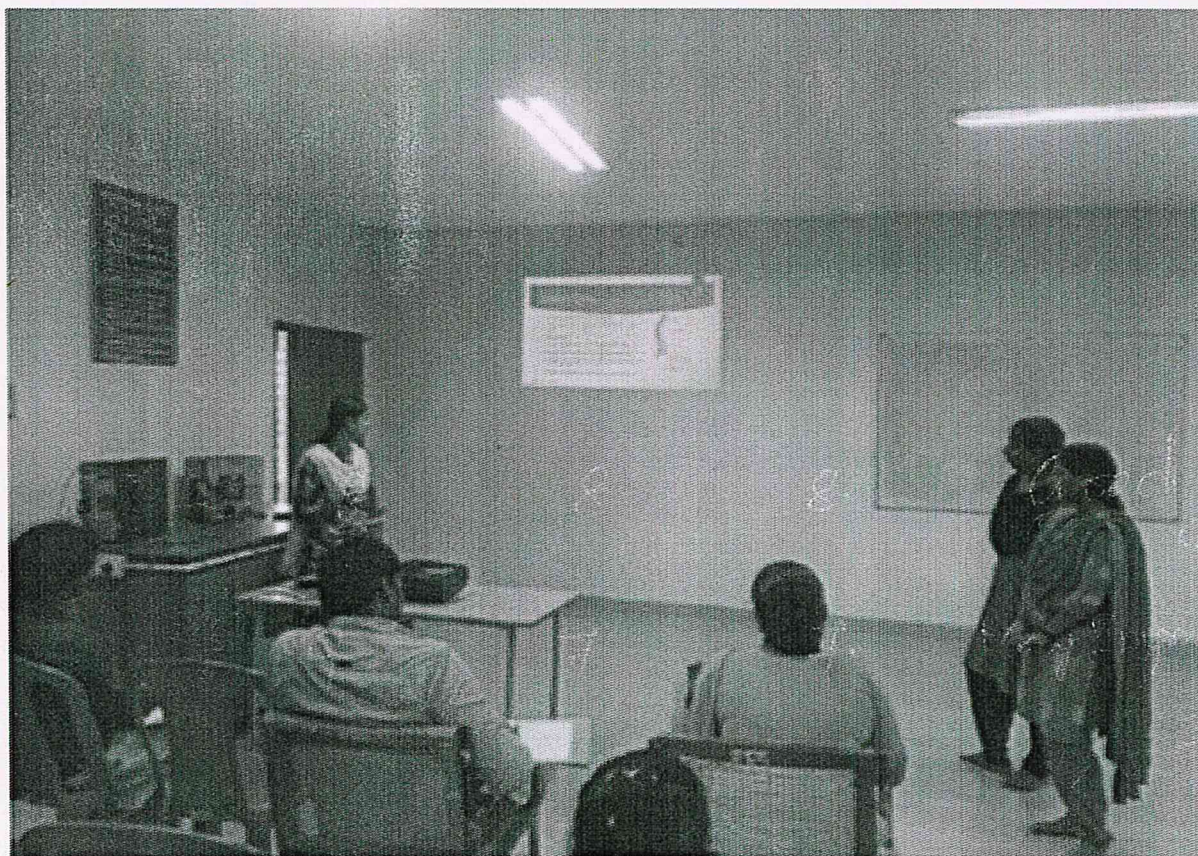
Year/Semester : **III/V**

Date and Time : **26.09.2017 @ 3 pm**

Topic of the Seminar : **“ BASICS OF COMPUTERS ”**

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	8	8	8.	Good 
HOD	9.	7	7.	May Improve. 

PHOTO





ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
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ANGUCHETTYPLAYAM, PANRUTI – 607 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CIRCULAR
(2017-2018)

CIR. No.: SACET/EEE/CIR/ 34

Date: 04.03.2018

It is to be informed that the **Student Seminar** will be held for III/6 year/sem students at Machine Lab. All interested staff and students are invited for the seminar.

Name of the Student : **ESWARAN M**

Register Number: **422116105007**

Year/Semester : **III/6I**

Date and Time : **06.03.2018 @ 3:30 pm**

Topic of the Seminar : **“ MASS STORAGE ”**

HOD

Power Point Slides

MASS STORAGE

MASS STORAGE

- Mass storage refers to various techniques and devices for storing large amounts of data.
- Mass storage is distinct from memory, which refers to temporary storage areas within the computer.
- Unlike main memory, mass storage devices retain data even when the computer is turned off.

The mass storage medium includes:

- solid-state drives (SSD)
- hard drives
- external hard drives
- optical drives
- tape drives
- RAID storage
- USB storage
- flash memory cards

SOLID STATE DEVICES

- Solid state devices are electronic devices in which electricity flows through solid semiconductor crystals like silicon, gallium arsenide, germanium rather than through vacuum tubes.
- It does not involve any moving parts or magnetic materials.
- RAM is a solid state device that consists of microchips that store data on non-moving components, providing for fast retrieval of that data.
- Transistors are the most important solid state devices. The transistors contain two p-n junctions, have three contacts or terminals.
- They require the action of perpendicular electrical fields; their behavior is more difficult to understand than that of diodes.
- The different types of transistors are: Bipolar junction transistor (BJT) where the current is amplified, while in the field effect transistor (FET) a voltage controls a current.
- In a solid-state component, the current is confined to solid elements and compounds engineered specifically to switch and amplify it.
- Current flows in two forms: as negatively charged electrons, and as positively charged electron deficiencies called holes.
- In some semiconductors, the current consists mostly of electrons, in other semiconductors, it consists mostly of holes. Both the electron and the hole are called charge carriers.

HARD DRIVES

- A hard disk drive is a nonvolatile memory hardware device that permanently stores and retrieves data on a computer.
- A hard drive is a secondary storage device that consists of one or more platters to which data is written using a magnetic head, all inside of an airtight casing.
- Internal hard disks reside in a drive bay, connect to the motherboard using an ATA, SCSI, or SATA cable, and are powered by a connection to the power supply unit.

EXTERNAL HARD DRIVES

- An external hard drive is a portable storage device that can be attached to a computer through a USB or FireWire connection, or wirelessly.
- External hard drives typically have high storage capacities and are often used to back up computers or serve as a network drive.

OPTICAL DRIVES

- An Optical Drive refers to a computer system that allows users to use DVDs, CDs and Blu-ray optical drives.
- The drive contains some lenses that project electromagnetic waves that are responsible for reading and writing data on optical discs.
- An optical disk drive uses a laser to read and write data. A laser in this context means an electromagnetic wave with a very specific wavelength within or near the visible light spectrum.
- An optical drive that works with all types of discs will have two separate lenses: one for CD/DVD and one for Blu-ray.
- An optical drive has a rotational mechanism to spin the disc. Optical drives were originally designed to work at a constant linear velocity (CLV) (i.e. the disc spins at varying speeds depending on where the laser beam is reading, so the spiral groove of the disc passes by the laser at a constant speed).
- An optical drive also needs a loading mechanism: A tray-loading mechanism, where the disc is placed onto a motorized tray, which moves in and out of the computer case and a slot-loading mechanism, where the disc is slid into a slot and motorized rollers are used to move the disc in and out.

TAPE DISKS

- A tape drive is a device that stores computer data on magnetic tape, especially for backup and archiving purposes.
- Tape drives work either by using a traditional helical scan where the recording and playback heads touch the tape, or linear tape technology, where the heads never actually touch the tape.
- Drives can be rewinding, where the device issues a rewind command at the end of a session, or non-rewinding.
- Rewinding devices are most commonly used when a tape is to be unmounted at the end of a session after batch processing of large amounts of data.
- Non-rewinding devices are useful for incremental backups and other applications where new files are added to the end of the previous session's files.
- The different types of tapes are audio, video and data storage tape.

INPUT AND OUTPUT DEVICES

- The common input and output devices are discussed here:

Input devices

- Keyboard
- Mouse
- Trackball, Joystick and Touch pad
- Scanners

OUTPUT DEVICES

- Video Displays
- Printers
- Daisy Wheel Printers
- Dot Matrix Printers
- Inkjet printers



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EVALUATION SHEET

Name of the Student : **ESWARAN M**
Register Number : **422116105007**
Year/Semester : **III/6I**
Date and Time : **06.03.2018 @ 3:30 pm**
Topic of the Seminar : **“ MASS STORAGE ”**

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	9	9	8	Good D. N. Srinivasan
HOD	8	8	8	Improve presentation skill D. N. Srinivasan

PHOTO

