



MOHAMED SATHAK A J COLLEGE OF ENGINEERING

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Siruseri IT Park, Egattur, Chennai 603 103

Add on/Certificate programs

Academic Year 2019 – 2020


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Value Added Course

2019-2020

S.No	Name of Add on / Certificate programs offered	Course Code(if any) Collaboration Details	Year of offering	Number of students completing the course this year	Type of Add-on Course
1	Staad Pro	-	2019-2020	20	Self Framed Course
2	Robotic Process Automation(RPA)	-	2019-2020	47	Self Framed Course
3	IOT and Its Applications	-	2019-2020	27	Self Framed Course
4	Creo-Harness Design, GD&T-Industrial Standard	-	2019-2020	76	Self Framed Course
5	Training on CATIA-SOLID Model	-	2019-2020	44	Self Framed Course
6	PC Hardware & Networking	-	2019-2020	131	Self Framed Course


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Minutes of meeting

Agenda:

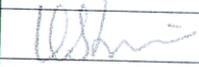
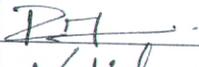
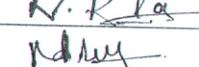
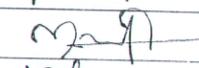
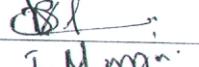
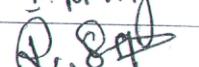
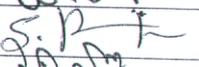
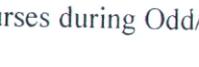
To review and approve the syllabus and assessment procedure of Add on courses / Value added courses.

Venue: Board Room, MSAJCE

Date: 25.6.2019

Time: 2.00p.m – 4.00p.m

Members Present:

S. No	Name	Designation	Category	Signature
1	Dr.K.S.Srinivasan	Principal, MSAJCE	Chairman	
2	Dr.N.Parthiban	Prof / SRMIST	Advisor	
3	Dr N.Kulasekaran	Valeo India Pvt Ltd	Advisor	
4	Mr.Mohamed Thahir	ZOHO Corp	Advisor	
5	Dr.S.Thenmozhi	Prof/ St.Joseph CE	Advisor	
6	Dr.E.Dhiravidachelvi	Head – Academics	Member	
7	Dr.I.Manju	Head –Tech IR	Member	
8	Dr.R.Senthil Kumar	Head – Admin	Member	
9	Dr S.Prasath	Head –T&P	Member	
10	Dr.A.Balakrishnan	Head- S&H	Member	
11	Ms. S. Sharmila Ponnammal	Head -Civil	Member	
12	Mr. Vairaperumal K	Head -EEE	Member	

Points discussed:

- The following courses shall be conducted as Add on courses / Value added courses during Odd/Even Semester of Academic year 2019-20 for the benefit of the students.

S.No	Name of the Course
1	Robotic Process Automation (RPA)
2	Training on CATIA- SOLID Model
3	Creo-Harness Design, GD&T- Industrial Standard
4	Staad Pro
5	IOT and its Applications
6	PC Hardware and Networking
7	Labview

- The courses were designed and developed after receiving recommendations from internal and external stakeholders.
- The syllabus, assessment procedure was reviewed and approved by the Academic advisory council.



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Circular

Ref: MSAJCE / PO -103 / 2019-2020

Date: 4.6.2019

It is hereby informed that the following faculty members has been nominated as members to the design the syllabus for the Add-on Course / Value added course “**STAAD PRO**”

S.NO	Faculty Name	Designation
1	Dr. Mohamed Adil Haque	Professor
2	Ms. K. Gayathri	Assistant Professor

All are requested to design the syllabus for the above mentioned course and submit on or before 10.6.2019.


Principal

Copy to:

1. The Chairman & Director
2. IQAC
3. All HoDs
4. Admin Office
5. Office file

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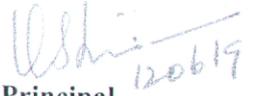
Ref: MSAJCE / PO 109 / 2019-2020

Date: 12.6.2019

It is hereby informed that the following faculty members to attend the Internal syllabus review meeting on 17.6.2019 at Board room to review the syllabus for the Add-on Course / Value added course "STAAD PRO".

S.No	Faculty	Designation
1	Dr. E.Dhiravidachelvi	Head -Academic
2	Dr. I.Manju	Head - TC & IR
3	Mr.Prasath	Head - Placement
4	All HoDs	

All are requested to be available for the meeting.


Principal

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DEPARTMENT OF CIVIL ENGINEERING

Date: 5/12/2019

MSAJCE/CIVIL/COE/01/2019-202 0

CIRCULAR

It is hereby informed to Third Year students of CIVIL department STAAD Pro Class is arranged from 9/12/2019 to 14/12/2019 at BIM lab. All are advised to attend positively.

Head of Department

M.B. [Signature] 5/12/2019

[Signature]

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DEPARTMENT OF CIVIL ENGINEERING

COURSE MODULE
B.E CIVIL ENGINEERING (REGULATIONS 2017)
VALUE ADDED COURSE

STAAD Pro

L T P C
1 0 2 2

OBJECTIVES:

- STAAD is the abbreviation for Structural Analysis and Design. STAAD.Pro is one of the popular software that is used for analysing & designing structures like – buildings, towers, bridges, industrial, transportation and utility structures.

Module I

9

Introduction about beams, column and load specifications, Analyze and Design using Bently STAAD Pro - Breifing on job creating, Explaining about tools to be used for project - Analyze and Design of beams & colums using Bently STAAD Pro.

Module II

9

introduction about building elements - Analyze and Design of building using Bently STAAD Pro - Detailing on IS codes and Load specifications - Analyze and Design of building using Bently STAAD Pro.

Module III

9

Detailing on IS codes and Load specifications, Analyze and Design of building using Bently STAAD Pro. Introduction to Bridge components - Analyze and desgin of bridge using STAAD.Pro - Load specification to bridge design - Analyze and desgin of bridge using STAAD.Pro

Module IV

9

Introduction to circular water tank- Analyze and design of circular water using Bently STAAD Pro- lecture on tool to be used for the design - Analyze and design of circular water using Bently STAAD Pro- Load specification about circular water tank - Analyze and design of circular water using Bently STAAD Pro.

Module V

9

Introduction, Load specification & IS codes about Steel Truss - Analyze & design of Steel Truss using STAAD.Pro - Introduction to IS codes & tools used about Steel Truss - Analyze & design of Steel Truss using STAAD.Pro

TOTAL: 45 HOURS

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OUTCOMES:

Upon completion of the course,

- Individuals can work as Structure Designers, Project Managers, Building Analysts, Quality Analysts, Bridge, Designers etc. To get exposure to 2D & 3D drawings and infrastructure design towards to our country development program .

TEXT BOOKS:

1. Sham Tickoo (2015) Learning Bentley Staad.Pro V8I for Structural Analysis.
2. Prof. Sham Tickoo/TIET, Exploring Bentley'S Staad.Pro Connect Edition. by Prof. Sham Tickoo/TIET, BPB Publications

REFERENCES:

1. T. S. Sarma, Staad Pro V8i for Beginners: With Indian Examples.

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Sl. No.	Topic	T / R*	Periods Required	Mode of Teaching
		Book		
1	introduction about beams, column and load specifications	TB	2	Online
2	Analyze and Design using Bentley STAAD Pro.	TB	2	Online
3	Briefing on job creating, Explaining about tools to be used for project.	TB	2	Online
4	Analyze and Design of beams & columns using Bentley STAAD Pro.	RB	3	Online
5	introduction about building elements,	TB	2	Online
6	Analyze and Design of building using Bentley STAAD Pro.	TB	2	Online
7	Detailing on IS codes and Load specifications	TB	2	Online
8	Analyze and Design of building using Bentley STAAD Pro.	RB	3	Online
9	Detailing on IS codes and Load specifications	TB	2	Online
10	Analyze and Design of building using Bentley STAAD Pro.	RB	2	Online
11	Introduction to Bridge components	RB	1	Online
12	Analyze and design of bridge using STAAD.Pro	TB	2	Online
13	Load specification to bridge design	RB	1	Online
14	Analyze and design of bridge using STAAD.Pro	RB	1	Online
15	Introduction to circular water tank	TB	2	Online
16	Analyze and design of circular water using Bentley STAAD Pro.	TB	2	Online
17	lecture on tool to be used for the design	TB	1	Online
18	Analyze and design of circular water using Bentley STAAD Pro.	TB	2	Online

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19	Load specification about circular water tank	RB	1	Online
20	Analyze and design of circular water using Bentley STAAD Pro.	TB	1	Online
21	Introduction, Load specification & IS codes about Steel Truss	TB	2	Online
22	Analyze & design of Steel Truss using STAAD.Pro	TB	2	Online
23	Introduction to IS codes & tools used about Steel Truss	RB	2	Online
24	Analyze & design of Steel Truss using STAAD.Pro	TB	3	Online
Quiz / Mini Projects / Model Developed if any				
Quiz Conducted				
Text / Reference Books				
1	Sham Tickoo (2015) Learning Bentley Staad.Pro V8I for Structural Analysis.			
2	Prof. Sham Tickoo/TIET, Exploring Bentley'S Staad.Pro Connect Edition. by Prof. Sham Tickoo/TIET, BPB Publications			
3	T. S. Sarma, Staad Pro V8i for Beginners: With Indian Examples.			

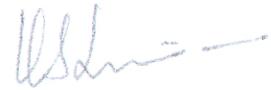


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Assessment Procedure for Add-on Courses / value Added Courses

1. Two Assessments shall be conducted during the semester by the course co-ordinator concerned.
2. A committee consisting of the Head of the Department, staff handling the course and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process
3. Performance of students in each Add on course of study shall be evaluated based on
 - Midterm internal assessment and
 - Assessment at the end of the course.
4. Each Add on course, shall be evaluated for a maximum of 100 marks.
5. The weightage for questions may be as follows.
 - Part A: Objective Type Questions
 - Part B: Design/Prototype development/Mini projects/etc.
6. The question paper may be set with
 - 40% of questions to test the memory skills & the capacity to understand concepts.
 - 60% % of questions to the ability to apply, create, analyse and evaluate concepts.



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Value added course summary 2019 - 20

Course code and Name : STAAD Pro
Course Duration : 45 Hours
Year offered : III year Students 2019-20
Course Instructor : Ms.K.Gayathri AP/CIVIL
Course Outcome :

Upon completion of the course,

- Individuals can work as Structure Designers, Project Managers, Building Analysts, Quality Analysts, Bridge, Designers etc. To get exposure to 2D & 3D drawings and infrastructure design towards to our country development program .

Course Type : Add on Course
Theory and Practical with Hands on sessions

Assessment Mode :

Attendance : 45 Hours
No. of Participants : 20
Scheme of Exam : MCQ Online through GCR
Date of Exam : 10/03/2020


Course Coordinator


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HoD



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DEPARTMENT OF CIVIL ENGINEERING

Assessment

1. Which of the following structural loads are not applied commonly to a building?
 - a) Environmental load
 - b) Live load
 - c) Dead load
 - d) Rain load
2. In the case of a structural member supporting more than one floor with load exceeding 100psf., what is the maximum permitted reduction %?
 - a) 20
 - b) 25
 - c) 15
 - d) 10
3. Which of the following is statically determinate structure?
 - a) Two hinged arch
 - b) Fixed beam
 - c) Double overhanging
 - d) Continuous beam
4. In the equation $U = 0.9D + 1.6W + 1.6H$, what is the load factor for H if the structural action of H counteracts that due to W or E?
 - a) 0.005
 - b) 0
 - c) 0.1
 - d) 0.05
5. If we use link support in a structural system, then how many unknowns would we have?
 - a) 1
 - b) 2
 - c) 0
 - d) 4
6. Which of the following material is not used in making trusses?
 - a) Metal bars
 - b) Concrete
 - c) Wooden struts
 - d) Channel
7. Why is base plate provided in short roof trusses?
 - a) For rigidity
 - b) As provision for temperature related expansion/contraction
 - c) To transmit load effectively
 - d) For stability
8. Which of the following is false for deflection of a point near by a fixed support?
 - a) Displacement and slope is zero
 - b) Displacement as well as slope is non-zero
 - c) Displacement is zero
 - d) Slope is zero

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DEPARTMENT OF CIVIL ENGINEERING

9. Which structure will perform better during earthquake?
 - a) Statically determinate and indeterminate
 - b) Depends upon magnitude of earthquake
 - c) Statically indeterminate
 - d) Statically determinate
10. Which type of structure would cost less in terms of materials?
 - a) Statically indeterminate
 - b) Both will cost equally
 - c) Depends upon loading
 - d) Statically determinate
11. Which of the following is carried by truss members?
 - a) flexural load
 - b) bending load
 - c) axial load
 - d) shear load
12. Which of the following methods of structural analysis is a force method?
 - a) three moment equation
 - b) slope deflection method
 - c) column analogy method
 - d) moment distribution method
13. Force-displacement requirement of statically indeterminate structures depend upon which factor?
 - a) supports
 - b) material's response
 - c) position of load applied
 - d) magnitude of load applied
14. list out the Loadings consider in Staad.Pro
 - i. Self weight
 - ii. Nodal Load
 - iii. Member load
 - iv. All the above
15. Which load is consider in slab?
 - i Member load
 - ii. Area Load
 - iii. Floor Load
 - vi. Plate Loads
16. Earthquake loads is also called as ____
 - i. Seismic load
 - ii. Area Load
 - iii. Floor Load
 - vi. Plate Loads
17. the load, in pounds per square foot, placed on the exterior of a structure by wind
 - i Member load
 - ii. Area Load
 - iii. Floor Load
 - vi. Wind Load


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DEPARTMENT OF CIVIL ENGINEERING

18. The load to which a structure is subjected in addition to its own weight.

- i. Dead load
- ii. Live Load
- iii. Floor Load
- vi. Wind Load

19. IS 875 a part 1 is a _____

- i. Dead load
- ii. Live Load
- iii. Floor Load
- vi. Wind Load

20. Strength requirements are specified in terms of limit loads. the maximum loads to be expected in _____

- i. Service Load
- ii. Live Load
- iii. Floor Load
- vi. Wind Load

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DEPARTMENT OF CIVIL ENGINEERING

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 - a) 0.005
 - b) 0
 - c) 0.1
 - d) 0.05
5. If we use link support in a structural system, then how many unknowns would we have?
 - a) 1
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 - d) Slope is zero

19/20

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DEPARTMENT OF CIVIL ENGINEERING

18. The load to which a structure is subjected in addition to its own weight.

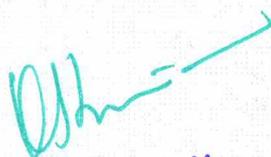
- Dead load
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19. IS 875 a part 1 is a _____

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- vi. Wind Load


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Siruseri IT Park, Egattur, Chennai 603 103

DEPARTMENT OF CIVIL ENGINEERING

Academic year 2019 – 2020

Enrolled Student Name List

Sl.No	Name of the Student	Register No.	Certificate Program Staad Pro
1	AMSHA AFRIDEEN .A	311817103001	✓
2	ANTONY DARSHAN A	311817103002	✓
3	ARUN.M	311817103003	✓
4	ASIF ALI J	311817103004	✓
5	FAREED AHAMED .S	311817103005	✓
6	IJAS AHAMED P.M.	311817103006	✓
7	ISMATH ALI. M	311817103007	✓
8	JAFFER ABBAS M.A.	311817103008	✓
9	KISHORE KUMAR.R	311817103009	✓
10	KISHORE KUMAR.S	311817103010	✓
11	MOHAMED SAMEEM MOHIDEEN	311817103014	✓
12	MOHAMED SHAHEEM S.B	311817103015	✓
13	MOHAMED TAJAMMUL	311817103016	✓
14	MOHAMED UMAR .M	311817103017	✓
15	MOHAMMED AMEEN.A	311817103018	✓
16	MOHAMMED ISMAAIL.S	311817103019	✓
17	SAMEEMUDEEN A	311817103023	✓
18	SURENDER .M	311817103025	✓
19	SYED MOHAMMED USAID MOHIUDDIN	311817103026	✓
20	NAINA MOHAMED BASIDH	311817103701	✓

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Sl.No	Name of the Student	Register No.	3/12/19	21/12/19	4/1/20	22/2/20	9/3/20
1	AMSHA AFRIDEEN .A	311817103001	/	/	/	/	/
2	ANTONY DARSHAN A	311817103002	/	/	/	/	/
3	ARUN.M	311817103003	/	/	/	/	/
4	ASIF ALI J	311817103004	/	/	/	/	/
5	FAREED AHAMED .S	311817103005	/	/	a	/	/
6	IJAS AHAMED P.M.	311817103006	/	/	/	/	/
7	ISMATH ALI. M	311817103007	/	/	/	/	/
8	JAFFER ABBAS M.A.	311817103008	/	/	/	/	/
9	KISHORE KUMAR.R	311817103009	/	/	/	/	/
10	KISHORE KUMAR.S	311817103010	/	/	/	/	/
11	MOHAMED SAMEEM MOHIDEEN	311817103014	/	/	/	/	/
12	MOHAMED SHAHEEM S.B	311817103015	/	/	/	/	/
13	MOHAMED TAJAMMUL	311817103016	/	/	/	/	/
14	MOHAMED UMAR .M	311817103017	/	/	/	/	/
15	MOHAMMED AMEEN.A	311817103018	/	/	/	/	/
16	MOHAMMED ISMAAIL.S	311817103019	/	/	/	/	/
17	SAMEEMUDEEN A	311817103023	/	/	/	/	/
18	SURENDER .M	311817103025	/	/	/	/	/
19	SYED MOHAMMED USAID MOHIUDDIN	311817103026	/	/	/	/	/
20	NAINA MOHAMED BASIDH	311817103701	/	/	/	/	/

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Sl.No	Name of the Student	Register No.	Status of Qualifying
1	AMSHA AFRIDEEN .A	311817103001	Qualified
2	ANTONY DARSHAN A	311817103002	Qualified
3	ARUN.M	311817103003	Qualified
4	ASIF ALI J	311817103004	Qualified
5	FAREED AHAMED .S	311817103005	Qualified
6	IJAS AHAMED P.M.	311817103006	Qualified
7	ISMATH ALI. M	311817103007	Qualified
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Circular

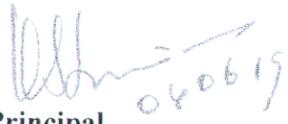
Ref: MSAJCE / PO -100/ 2019-2020

Date: 4.6.2019

It is hereby informed that the following faculty members has been nominated as members to the design the syllabus for the Add-on Course / Value added course **“Robotic Process Automation”**

S.NO	Faculty Name	Designation
1	Dr. Manju I	Associate Professor
2	Mr.K.Vairaperumal	Assistant Professor

All are requested to design the syllabus for the above mentioned course and submit on or before 10.6.2019.


Principal

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2. IQAC
3. All HoDs
4. Admin Office
5. Office file

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Ref: MSAJCE / PO 106 / 2019-2020

Date:12.6.2019

It is hereby informed that the following faculty members to attend the Internal syllabus review meeting on 17.6.2019 at Board room to review the syllabus for the Add-on Course / Value added course "Robotic Process Automation".

S.No	Faculty	Designation
1	Dr. E.Dhiravidachelvi	Head -Academic
2	Dr. I.Manju	Head - TC & IR
3	Mr.Prasath	Head - Placement
4	All HoDs	

All are requested to be available for the meeting.


Principal

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DEPARTMENT OF EEE & ECE

Ref:01/MSAJCE/CSE& IT/ODD/2019-2020

Date:01/07/2019

CIRCULAR

Our department is organizing an "ADDON Course" on Robotic Process Automation during 22/07/2019 to 27/07/2019. The III Year CSE & IT Students register with Mr.K.Vairaperumal AP/EEE on or before 18/07/2019.

The session schedule is as follows

Timing: 9.00 AM to 3.30 PM

Company Name: Automation Anywhere

Resource Person: Mr.K.Vairaperumal

Venue: RPA LAB

HoD/CSE & IT

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Dept. of CSE & IT

III Year CSE & IT



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DEPARTMENT OF CSE & IT

COURSE MODULE

Course Objectives:

- 1) To provide an overview of the automation anywhere enterprise platform architecture and components and explain in detail about the various features and functionalities of the AA working domain.
- 2) To provide in depth knowledge about the various components of AA software including development, runtime client and control room.
- 3) To Create bots using different types of recorders, Editor and Basics commands using automation anywhere platforms.
- 4) To apply bot creation methodologies for developing bots to solve any real world problem in IT Education and Banking Sectors.

MODULE-1

Introduction to Robotic Process Automation & Bot Creation

Introduction to RPA and use cases- Automation Anywhere Enterprises Platform-Advanced features and capabilities- Way to create bots-Conclusion.

MODULE-2

Web Control Room and Client

Introduction- Features Panel-Dashboard(Home,Bots,Devices, Audit, Workload,Insights)- Features Panel-Activity(View tasks in Progress and Scheduled Tasks)-Bots(View Bots uploaded and Credentials)-Devices(View Development and runtime clients and Device Pools)- Workload (Queues and SLA Calculator)-Auditlog(View activities logged which are associated with web CR)-Administration(configure settings, users, roles, license and migration)-Demo of Exposed API's-Conclusion-Client introduction and conclusion.

MODULE-3

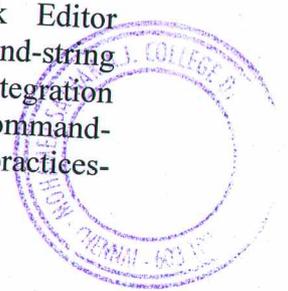
Bot Creator

Introduction-Recorders-Smart Recorders-Web recorders-Screen Recorders-Task Editor variables-command Library-Loop Command-Excel command-Database command-string operation command-XML command-Terminal Emulator command-PDF integration command-FTP command-PGP command- object cloning command-Error handling command- Manage windows control command-Workflow designer-Report designer-Best practices-Summary.

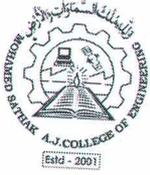
MODULE-4

Meta Bot and Bot Insight

Introduction-Metabot Designer-Megabot with AI sense-Bot Insight-transactional Analytics-Operational Analytics-Course key point.



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MODULE-5

Practice and Assessment session

Bot creation using recorders(Smart, Web and Screen), Bot creation to invoke database automation, FTP and PGB command execution by bots. Bot development using object cloning command.

Course Outcomes:

. The students will be able to

- CO1: Automate any sort of manual or repetitive human tasks by using the Automation anywhere tool.
- CO2: Develop and deploy software bots which can perform automation task 24x7 without interruption.
- CO3: Build an analytics bot that can be used in finance, stock market and banking sector.



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Assessment Procedure for Add-on Courses / value Added Courses

1. Two Assessments shall be conducted during the semester by the course co-ordinator concerned.
2. A committee consisting of the Head of the Department, staff handling the course and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process
3. Performance of students in each Add on course of study shall be evaluated based on
 - Midterm internal assessment and
 - Assessment at the end of the course.
4. Each Add on course, shall be evaluated for a maximum of 100 marks.
5. The weightage for questions may be as follows.
 - Part A: Objective Type Questions
 - Part B: Design/Prototype development/Mini projects/etc.
6. The question paper may be set with
 - 40% of questions to test the memory skills & the capacity to understand concepts.
 - 60% % of questions to the ability to apply, create, analyse and evaluate concepts.



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CO PO Mapping

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
The students will be able to CO1:Automate any sort of manual or repetitive human tasks by using the Automation anywhere tool.	3	3	3					2		2	3	3
CO2:The students will be able to develop and deploy software bots which can performs automation task 24x7 without interruption	2	2	2									
CO3:The students will be able to build an analytics boot that can be used in finance, stock market and banking Sector.	3	2	3									



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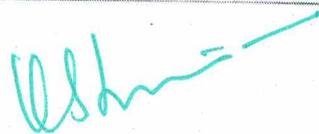
Syllabus and Topics

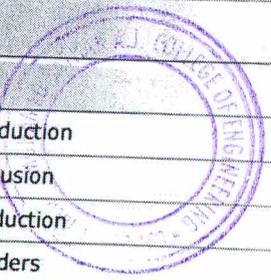
Day 1

Introduction	Training Introduction
	Introduction to Automation Anywhere
	Introduction
	Features Panel
	Features Panel - Dashboard (Home, Bots, Devices, Audit, Workload, Insights)
	Features Panel - Activity (View Tasks in Progress and Scheduled Tasks)
	Features Panel - Bots (View Bots Uploaded and Credentials)
	Features Panel - Devices (View Development and Runtime Clients and Device Pools)
	Features Panel - Workload (Queues and SLA Calculator)
	Features Panel - Audit Log (View Activities Logged which are associated with Web CR)
	Features Panel - Administration (Configure Settings, Users, Roles, License and Migration)
	Demo of Exposed API's
	Conclusion

Web Control Room

Day 2

Client	Introduction
	Conclusion
 Bot Creator PRINCIPAL MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING 51, Rajiv Gandhi Road (OMR), Siruseri IT Park Chennai-603 103.	Introduction
	Recorders
	Recorders - Smart Recorder
	Recorders - Screen Recorder
	Recorders - Web Recorder
	Task Editor
	Variables
	Command Library
	Command Library - Loop Command





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Day 3	Bot Creator	Command Library - Excel Command
		Command Library - Database Command
		Command Library - String Operation Command
		Command Library - XML Command
		Command Library - Terminal Emulator Command
		Command Library - PDF Integration Command
		Command Library - FTP Command
		Command Library - PGP Command
		Command Library - Object Cloning Command
		Command Library - Error Handling Command

Day 4	Bot Creator	Manage Windows Control Command
		Workflow Designer
		Report Designer
		Best Practices
		Summary
	MetaBot	Introduction
		MetaBot Designer
	Bot Insight	MetaBot With AI Sense
		Introduction
		Transactional Analytics
	Operational Analytics	



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Day 5	Key Elements of Training	Training Need Assessment (TNA)
		Pre-assessment
		Pre-requisites
		Writing Objectives
		Writing Assessments
Training Delivery	Types of Instructions	
	Gagne's 9 Events of Instructions	
	Selecting the Methods for Training	
	Linking Blooms Taxonomy with Instructional Strategy	
	Facilitation Skills	
	Scheduling	
Activities	Showcasing Demonstrations	
	Working on Exercises	
	Energizers and Ice Breakers	
	Recap/windup	
Evaluation	Types of Evaluation	
	Stages of Evaluation	
	When to Evaluate	
	Evaluation and Support	
Tips for the Trainer	Tips for the Trainer	
Conclusion	Course Key Points	
	Q&A	

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Assessment

1) RPA with thinking and decision making capabilities are known as _____.

- A. internet process automation
- B.intelligent processor automation
- C.intelligent process automation
- D.intelligent process automatic

2) Intelligence Process Automation is a collection of next generation tools and business process improvements that help workers by eliminating routine and repetitive tasks.

- A. True
- B.False

3) Some of the key attributes which favor Assisted RPA are _____.

- A. Unclear inputs
- B.Social Context
- C.Task distribution
- D.All of the above

4) Processing of customer complaints can be automated using RPA.

- A. True
- B.False

5) Re-engineering the entire underlying process is part of _____

- A. BPM
- B.RPA
- C.Both A and B
- D.None of the above



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6) RPA is not suitable for processes that _____.

- A. are consistent
- B.are repetitive
- C.require constant human intervention
- D.Can't say



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7) RPA enables _____.

- A. Cost based reduction
- B.Reduces delivery risk
- C.Easy integration
- D.All of the above

8) RPA can handle operations such as _____.

- A. writing emails
- B.claims processing
- C.document classification
- D.All of the above

9) A robot can accumulate knowledge of procedures over time.

- A. True
- B.False

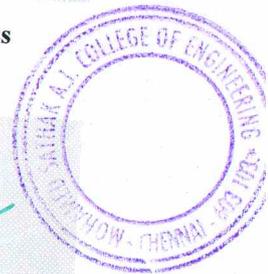
10) _____ factors make up being strong determinants of scalability and reliability in RPA process layered approach.

- A. Abstract
- B.Categorization
- C.Re-usability
- D.None of the above

11) The business benefits of RPA includes _____.

- A. Flexibility and Scalability
- B.Improved Accuracy
- C.Improved Employee Morale
- D.All of the above

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12) In RPA Greater resilience is achieved through _____.

- A. Layered Configuration
- B.Functional approach
- C.Object-oriented approach
- D.All of the above



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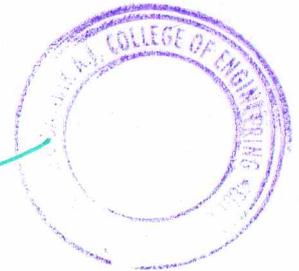
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13) All the RPA tools provide both front and back office automation.

- A. Yes
- B.No
- C.May be
- D.Can't say

14) CRM systems can be streamlined using _____ tools.

- A. BPM
- B.RPA
- C.Both A and B
- D.None of the above



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EVALUATION SHEET

1) RPA with thinking and decision making capabilities are known as _____.

- A. internet process automation
- B. intelligent processor automation
- C. intelligent process automation
- D. intelligent process automatic

✓

2) Intelligence Process Automation is a collection of next generation tools and business process improvements that help workers by eliminating routine and repetitive tasks.

- A. True
- B. False

X

3) Some of the key attributes which favor Assisted RPA are _____.

- A. Unclear inputs
- B. Social Context
- C. Task distribution
- D. All of the above

✓

4) Processing of customer complaints can be automated using RPA.

- A. True
- B. False

✓

5) Re-engineering the entire underlying process is part of _____.

- A. BPM
- B. RPA
- C. Both A and B
- D. None of the above

✓

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6) RPA is not suitable for processes that _____.

- A. are consistent
- B. are repetitive
- C. require constant human intervention
- D. Can't say

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- A. writing emails
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9) A robot can accumulate knowledge of procedures over time.

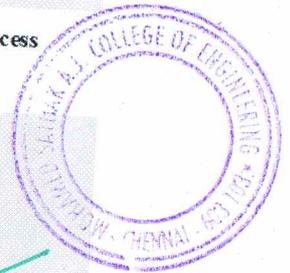
- A. True
- B.False

✓

10) _____ factors make up being strong determinants of scalability and reliability in RPA process layered approach.

- A. Abstract
- B.Categorization
- C.Re-usability
- D.None of the above

X



11) The business benefits of RPA includes _____.

- A. Flexibility and Scalability
- B.Improved Accuracy
- C.Improved Employee Morale
- D.All of the above

X

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12) In RPA Greater resilience is achieved through _____.

- A. Layered Configuration
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- C.Object-oriented approach
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✓



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DEPARTMENT OF CSE & IT

13) All the RPA tools provide both front and back office automation.

A. Yes

B.No

C.May be

D.Can't say



14) CRM systems can be streamlined using _____ tools.

A. BPM

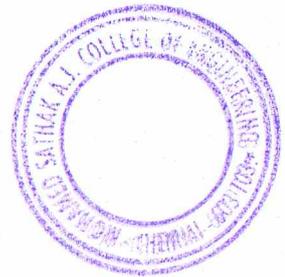
B.RPA

C.Both A and B

D.None of the above



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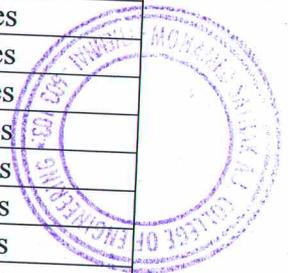




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DEPARTMENT OF CSE & IT

S.No	Register No.	CSE -Name of the Students	Status of Qualifying
1	311817104001	Aayisha M	Yes
2	311817104003	Asif Fayaz.S	Yes
3	311817104009	Jai Balaji.V	Yes
4	311817104016	Mohamed Nazeer.A	Yes
5	311817104021	Najeeha Banu.A	Yes
6	311817104022	Naveen Kumar.S	Yes
7	311817104023	Nithyadarshni S	Yes
8	311817104024	Rahamathullah K	Yes
9	311817104026	Ramesh S	Yes
10	311817104010	Jasir Hussain.S	Yes
11	311817104028	Santhosh Raja L	Yes
12	311817104027	Sabeer Ahamed S	Yes
13	311817104030	Shahid Yaaser	Yes
14	311817104019	Mohamed Suhail.M	Yes
15	311817104034	Venkatesan S	Yes
16	311817104029	Selciya J	Yes
17	311817104004	Dinesh D	Yes
18	311817104015	Mohamed Furose H	Yes
19	311817104031	Soundarya M	Yes
20	311817104017	Mohamed Riyaz M A	Yes
21	311817104025	Rahuman Gani	Yes
22	311817104018	Mohamed Sajed S	Yes
23	311817104020	Mohammed Sulaiman B	Yes
24	311817104012	Kesavan H	Yes
25	311817104005	Fahima S	Yes
26	311817104032	Syed Sahir Ahmed K	Yes
27	311817104013	Manoj K	Yes



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S.No	Register No.	IT-Name of the Students	Status of Qualifying
1	311817205703	Jothika M	Yes
2	311817205005	Prakash	Yes
3	311817205702	Bhuvana Tharshini	Yes
4	311817205704	Vinotha K	Yes
5	311817205701	Bhavani K	Yes
6	311817205004	Mohamed Hanaz N	Yes
7	311817205006	Ranjith T	Yes



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ROBOTIC PROCESS AUTOMATION ATTENDANCE- (2019-2020)

S.no	Reg. No. of the Student	Student Name	7/22/2019	7/23/2019	7/24/2019	7/25/2019	7/26/2019	7/27/2019	Total	% of Attendance
1	311817104001	Aayisha M	P	P	P	P	P	P	6	100.00%
2	311817104003	Asif Fayaz.S	P	P	P	P	P	P	6	100.00%
3	311817104009	Jai Balaji.V	P	P	P	P	P	P	6	100.00%
4	311817104016	Mohamed Nazeer.A	P	P	P	P	P	P	6	100.00%
5	311817104021	Najeeha Banu.A	P	P	P	P	P	P	6	100.00%
6	311817104022	Naveen Kumar.S	P	P	P	P	P	P	6	100.00%
7	311817104023	Nithyadarshni S	P	P	P	P	P	P	6	100.00%
8	311817104024	Rahamathullah K	P	P	P	P	P	P	6	100.00%
9	311817104026	Ramesh S	P	P	P	P	P	P	6	100.00%
10	311817104010	Jasir Hussain.S	P	P	P	P	P	P	6	100.00%
11	311817104028	Santhosh Raja L	P	P	P	P	P	P	6	100.00%
12	311817104027	Sabeer Ahamed S	P	P	P	P	P	P	6	100.00%
13	311817104030	Shahid Yaaser	P	P	P	P	P	P	6	100.00%
14	311817104019	Mohamed Suhail.M	P	P	P	P	P	P	6	100.00%
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21	311817104025	Rahuman Gani	P	P	P	P	P	P	6	100.00%
22	311817104018	Mohamed Sajed S	P	P	P	P	P	P	6	100.00%
23	311817104020	Mohammed Sulaiman B	P	P	P	P	P	P	6	100.00%
24	311817104012	Kesavan H	P	P	P	P	P	P	6	100.00%
25	311817104005	Fahima S	P	P	P	P	P	P	6	100.00%
26	311817104032	Syed Sahir Ahmed K	P	P	P	P	P	P	6	100.00%
27	311817104013	Manoj K	P	P	P	P	P	P	6	100.00%

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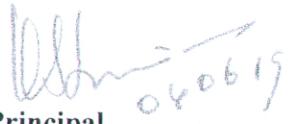
Ref: MSAJCE / PO -100/ 2019-2020

Date: 4.6.2019

It is hereby informed that the following faculty members has been nominated as members to the design the syllabus for the Add-on Course / Value added course “**Robotic Process Automation**”

S.NO	Faculty Name	Designation
1	Dr. Manju I	Associate Professor
2	Mr.K.Vairaperumal	Assistant Professor

All are requested to design the syllabus for the above mentioned course and submit on or before 10.6.2019.


Principal

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1. The Chairman & Director
2. IQAC
3. All HoDs
4. Admin Office
5. Office file

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Circular

Ref: MSAJCE / PO 106 / 2019-2020

Date:12.6.2019

It is hereby informed that the following faculty members to attend the Internal syllabus review meeting on 17.6.2019 at Board room to review the syllabus for the Add-on Course / Value added course "Robotic Process Automation".

S.No	Faculty	Designation
1	Dr. E.Dhiravidachelvi	Head -Academic
2	Dr. I.Manju	Head - TC & IR
3	Mr.Prasath	Head - Placement
4	All HoDs	

All are requested to be available for the meeting.


Principal

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DEPARTMENT OF EEE & ECE

Ref:01/MSAJCE/EEE/ODD/2019-2020

Date:01/07/2019

CIRCULAR

Our department is organizing an "ADDON Course" on Robotic Process Automation during 22/07/2019 to 27/07/2019. The III Year EEE & ECE Students register with Mr.K.Vairaperumal AP/EEE on or before 18/07/2019.

The session schedule is as follows

Timing: 9.00 AM to 3.30 PM

Company Name: Automation Anywhere

Resource Person: K. VAIRAPERUMAL

Venue: RPA LAB



COPY TO:
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III Year EEE & ECE

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HoD/EEE & ECE



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DEPARTMENT OF EEE & ECE

COURSE MODULE

Course Objectives:

- 1) To provide an overview of the automation anywhere enterprise platform architecture and components and explain in detail about the various features and functionalities of the AA working domain.
- 2) To provide in depth knowledge about the various components of AA software including development, runtime client and control room.
- 3) To Create bots using different types of recorders, Editor and Basics commands using automation anywhere platforms.
- 4) To apply bot creation methodologies for developing bots to solve any real world problem in IT Education and Banking Sectors.

MODULE-1

Introduction to Robotic Process Automation & Bot Creation

Introduction to RPA and use cases- Automation Anywhere Enterprises Platform-Advanced features and capabilities- Way to create bots-Conclusion.

MODULE-2

Web Control Room and Client

Introduction- Features Panel-Dashboard(Home,Bots,Devices, Audit, Workload,Insights)- Features Panel-Activity(View tasks in Progress and Scheduled Tasks)-Bots(View Bots uploaded and Credentials)-Devices(View Development and runtime clients and Device Pools)- Workload (Queues and SLA Calculator)-Auditlog(View activities logged which are associated with web CR)-Administration(configure settings, users, roles, license and migration)-Demo of Exposed API's-Conclusion-Client introduction and conclusion.

MODULE-3

Bot Creator

Introduction-Recorders-Smart Recorders-Web recorders-Screen Recorders-Task Editor variables-command Library-Loop Command-Excel command-Database command-string operation command-XML command-Terminal Emulator command-PDF integration command-FTP command-PGP command- object cloning command-Error handling command- Manage windows control command-Workflow designer-Report designer-Best practices-Summary.

MODULE-4

Meta Bot and Bot Insight

Introduction-Metabot Designer-Megabot with AI sense-Bot Insight-transactional Analytics-Operational Analytics-Course key point.



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MODULE-5

Practice and Assessment session

Bot creation using recorders(Smart, Web and Screen), Bot creation to invoke database automation, FTP and PGB command execution by bots. Bot development using object cloning command.

Course Outcomes:

The students will be able to

- CO1: Automate any sort of manual or repetitive human tasks by using the Automation anywhere tool.
- CO2: Develop and deploy software bots which can perform automation task 24x7 without interruption.
- CO3: Build an analytics bot that can be used in finance, stock market and banking sector.

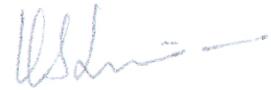


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Assessment Procedure for Add-on Courses / value Added Courses

1. Two Assessments shall be conducted during the semester by the course co-ordinator concerned.
2. A committee consisting of the Head of the Department, staff handling the course and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process
3. Performance of students in each Add on course of study shall be evaluated based on
 - Midterm internal assessment and
 - Assessment at the end of the course.
4. Each Add on course, shall be evaluated for a maximum of 100 marks.
5. The weightage for questions may be as follows.
 - Part A: Objective Type Questions
 - Part B: Design/Prototype development/Mini projects/etc.
6. The question paper may be set with
 - 40% of questions to test the memory skills & the capacity to understand concepts.
 - 60% % of questions to the ability to apply, create, analyse and evaluate concepts.



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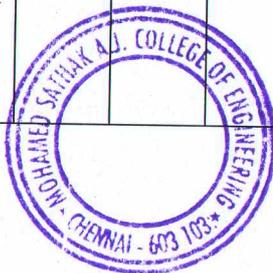


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CO PO Mapping

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
The students will be able to CO1:Automate any sort of manual or repetitive human tasks by using the Automation anywhere tool.	3	3	3					2		2	3	3
CO2:The students will be able to develop and deploy software bots which can performs automation task 24x7 without interruption	2	2	2									
CO3:The students will be able to build an analytics boot that can be used in finance, stock market and banking Sector.	3	2	3									




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Syllabus and Topics

Day 1	Introduction	Training Introduction
		Introduction to Automation Anywhere
	Web Control Room	Introduction
		Features Panel
		Features Panel - Dashboard (Home, Bots, Devices, Audit, Workload, Insights)
		Features Panel - Activity (View Tasks in Progress and Scheduled Tasks)
		Features Panel - Bots (View Bots Uploaded and Credentials)
		Features Panel - Devices (View Development and Runtime Clients and Device Pools)
		Features Panel - Workload (Queues and SLA Calculator)
		Features Panel - Audit Log (View Activities Logged which are associated with Web CR)
		Features Panel - Administration (Configure Settings, Users, Roles, License and Migration)
		Demo of Exposed API's
		Conclusion
	Day 2	Client
Conclusion		
Bot Creator		Introduction
		Recorders
		Recorders - Smart Recorder
		Recorders - Screen Recorder
		Recorders - Web Recorder
		Task Editor
		Variables
		Command Library
		Command Library - Loop Command




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Day 3	Bot Creator	Command Library - Excel Command
		Command Library - Database Command
		Command Library - String Operation Command
		Command Library - XML Command
		Command Library - Terminal Emulator Command
		Command Library - PDF Integration Command
		Command Library - FTP Command
		Command Library - PGP Command
		Command Library - Object Cloning Command
		Command Library - Error Handling Command

Day 4	Bot Creator	Manage Windows Control Command
		Workflow Designer
		Report Designer
		Best Practices
		Summary
	MetaBot	Introduction
		MetaBot Designer
		MetaBot With AI Sense
	Bot Insight	Introduction
		Transactional Analytics
		Operational Analytics



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Day 5	Key Elements of Training	Training Need Assessment (TNA)
		Pre-assessment
		Pre-requisites
		Writing Objectives
		Writing Assessments
	Training Delivery	Types of Instructions
		Gagne's 9 Events of Instructions
		Selecting the Methods for Training
		Linking Blooms Taxonomy with Instructional Strategy
		Facilitation Skills
		Scheduling
	Activities	Showcasing Demonstrations
		Working on Exercises
	Evaluation	Energizers and Ice Breakers
		Recap/windup
		Types of Evaluation
		Stages of Evaluation
	Tips for the Trainer	When to Evaluate
Evaluation and Support		
Tips for the Trainer		
Conclusion	Course Key Points	
	Q&A	



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DEPARTMENT OF EEE & ECE
Assessment

1) RPA with thinking and decision making capabilities are known as _____.

- A. internet process automation
- B.intelligent processor automation
- C.intelligent process automation
- D.intelligent process automatic

2) Intelligence Process Automation is a collection of next generation tools and business process improvements that help workers by eliminating routine and repetitive tasks.

- A. True
- B.False

3) Some of the key attributes which favor Assisted RPA are _____.

- A. Unclear inputs
- B.Social Context
- C.Task distribution
- D.All of the above

4) Processing of customer complaints can be automated using RPA.

- A. True
- B.False

5) Re-engineering the entire underlying process is part of _____

- A. BPM
- B.RPA
- C.Both A and B
- D.None of the above

6) RPA is not suitable for processes that _____.

- A. are consistent
- B.are repetitive
- C.require constant human intervention
- D.Can't say



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7) RPA enables _____.

- A. Cost based reduction
- B.Reduces delivery risk
- C.Easy integration
- D.All of the above

8) RPA can handle operations such as _____.

- A. writing emails
- B.claims processing
- C.document classification
- D.All of the above

9) A robot can accumulate knowledge of procedures over time.

- A. True
- B.False

10) _____ factors make up being strong determinants of scalability and reliability in RPA process layered approach.

- A. Abstract
- B.Categorization
- C.Re-usability
- D.None of the above

11) The business benefits of RPA includes _____.

- A. Flexibility and Scalability
- B.Improved Accuracy
- C.Improved Employee Morale
- D.All of the above

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12) In RPA Greater resilience is achieved through _____.

- A. Layered Configuration
- B.Functional approach
- C.Object-oriented approach
- D.All of the above





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13) All the RPA tools provide both front and back office automation.

- A. Yes
- B.No
- C.May be
- D.Can't say

14) CRM systems can be streamlined using _____ tools.

- A. BPM
- B.RPA
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10/11/2021
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DEPARTMENT OF EEE & ECE
EVALUATION SHEET

1) RPA with thinking and decision making capabilities are known as _____.

- A. internet process automation
- B. intelligent processor automation
- C. intelligent process automation
- D. intelligent process automatic

✓

2) Intelligence Process Automation is a collection of next generation tools and business process improvements that help workers by eliminating routine and repetitive tasks.

- A. True
- B. False

X

3) Some of the key attributes which favor Assisted RPA are _____.

- A. Unclear inputs
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✓

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- A. Abstract
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- X

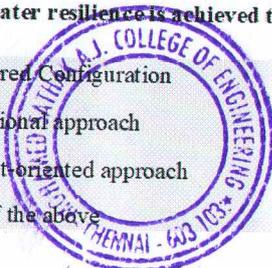
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 - D.All of the above
- X

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DEPARTMENT OF EEE & ECE

S.No	Register No.	EEE -Name of the Students	Status of Qualifying
1	311817105003	Ijaz Ahamed	Yes
2	311817105004	U.Mohamed Amrith	Yes
3	311817105007	Mohamed Nihath	Yes
4	311817105301	K.Hassian	Yes
5	311817105302	Khaja Mohideen	Yes

S.No	Register No.	ECE-Name of the Students	Status of Qualifying
1	311817106002	U.R.Hameed Ziyath	Yes
2	311817106003	J.Karan	Yes
3	311817106004	M.Mohamed Abdul Rahman	Yes
4	311817106005	G.Mohamed Shafiq Sharriff	Yes
5	311817106006	K.Muhammed Swalih	Yes
6	311817106008	C.Rajkumar	Yes
7	311817106010	G.Subash	Yes
8	311817106301	N.V.Sandhiya Roselin Mary	Yes

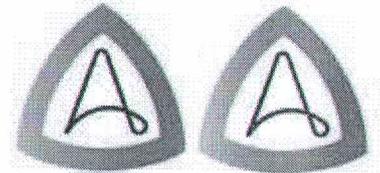



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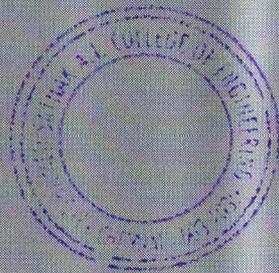


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U. Mohamed Amrith



Mohamed Saihak A.J.

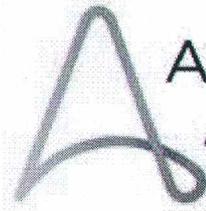
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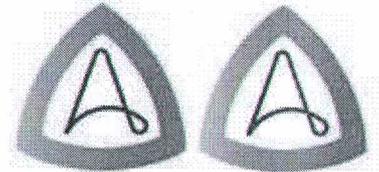
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U.R.Hameed Ziyath

Mohamed Sahar
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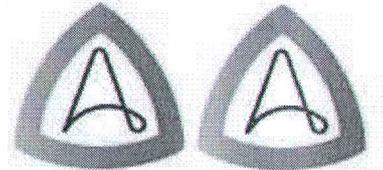
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K.Hassian



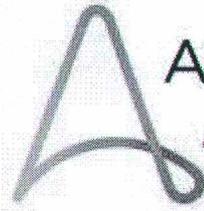
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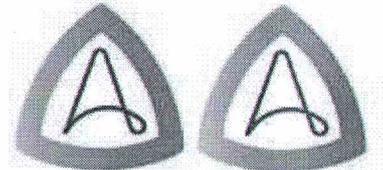
A handwritten signature in black ink, appearing to read 'N. Sundar'.

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Ijaz Ahamed

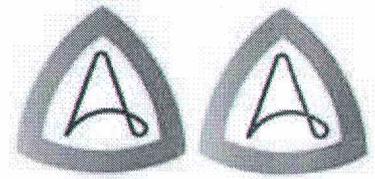


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J.Karan

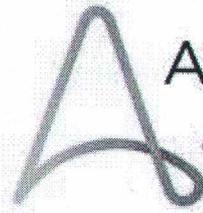


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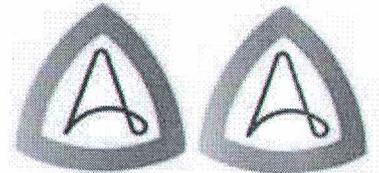
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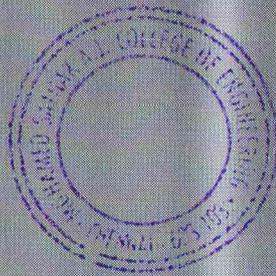


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Khaja Mohideen



Mohamed Saifak A.J.

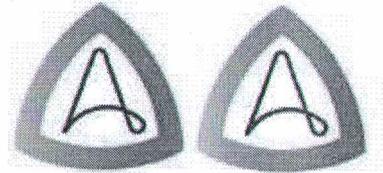
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Mohamed Nihath

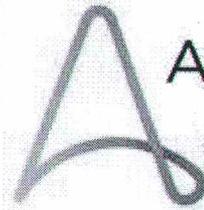


Mohamed Nihath
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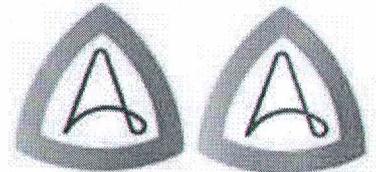
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**M. Mohamed Abdul
Rahman**



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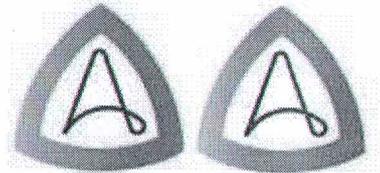
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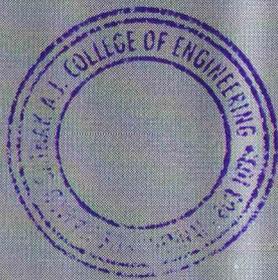


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C.Rajkumar



Mohamed Sathak

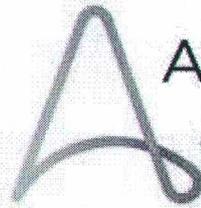
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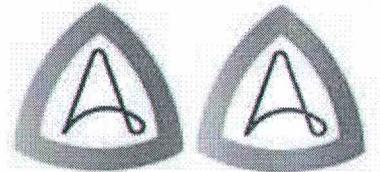
N. Sundar

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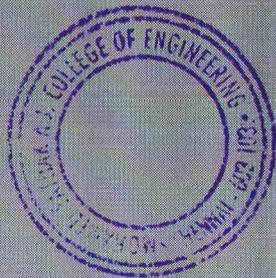


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**N.V.Sandhiya
Roselin Mary**

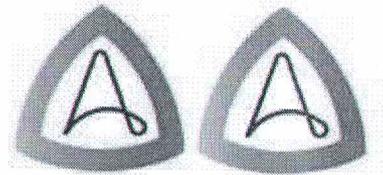


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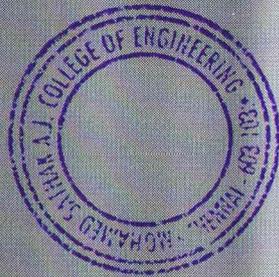
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G.Subash

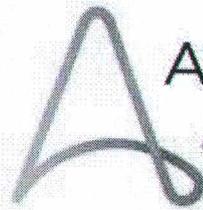


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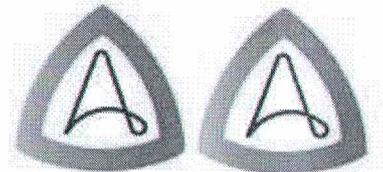
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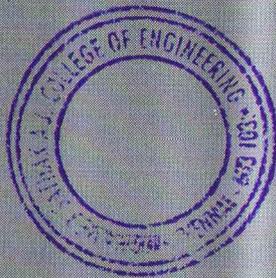


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**G.Mohamed Shafiq
Sharriff**



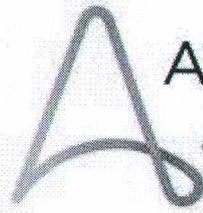
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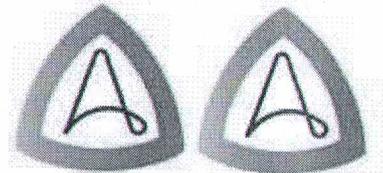
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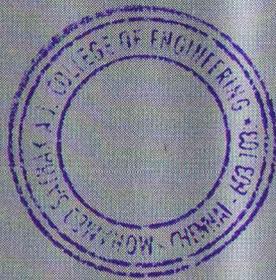


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**K.Muhammed
Swalih**



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ROBOTIC PROCESS AUTOMATION ATTENDANCE- (2019-2020)

S.no	Reg. No. of the Student	Student Name	22.7.19	23.7.19	24.7.19	25.7.19	26.7.19	27.7.19	Total No. of hours	Attendance Percentage (%)
1	311817105003	Ijaz Ahamed	P	P	P	P	P	P	6	100
2	311817105004	Mohamed Amrith	P	P	P	P	P	P	6	100
3	311817105007	Mohamed Nihath N	P	P	P	P	P	P	6	100
4	311817105301	Hassain K	P	P	P	P	P	P	6	100
5	311817105302	Maf. Khaja Mohideen	P	P	P	P	P	P	6	100
6	311817106002	U.R.Hameed Ziyath	P	P	P	P	P	P	6	100
7	311817106003	J.Karan	P	P	P	P	P	P	6	100
8	311817106004	M.Mohamed Abdul Rahman	P	P	P	P	P	P	6	100
9	311817106005	G.Mohamed Shafiq Sharriff	P	P	P	P	P	P	6	100
10	311817106006	K.Muhammed Swalih	P	P	P	P	P	P	6	100
11	311817106008	C.Rajkumar	P	P	P	P	P	P	6	100
12	311817106010	G.Subash	P	P	P	P	P	P	6	100
13	311817106301	N.V.Sandhiya Roselin Mary	P	P	P	P	P	P	6	100



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Value Added Course Summary 2019-2020

Course code and Name : Robotic Process Automation (RPA)

Course Duration : 45 hours

Years offered : III Year Students 2019-2020

Course Instructors : Mr.K.Vairaperumal

Course Outcome's :

The Students will be outfitted with able to automate any sort of manual or repetitive human tasks by using the Automation anywhere tool. Develop and deploy software bots which performs automation task 24x7 without interruption. Build an analytics boot that can used in finance, stock market and banking sector.

Course Type : Self Framed Value Added Course

Theory and Practical with Hands on Sessions

Assessment Mode : Attendance : 45 Hours

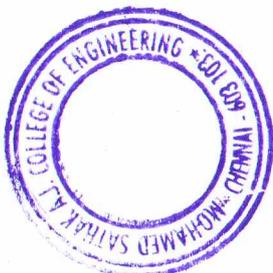
Number of Participants : 10

Scheme of Exam : Offline

Date of Exam:28/7/2019


Course Coordinator


HOD




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Department of EEE

Students Enrolled List

Robotic Process Automation (RPA)

S.no	Reg. No. of the Student	Student Name
1	311817105003	Ijaz Ahamed
2	311817105004	Mohamed Amrith
3	311817105007	Mohamed Nihath N
4	311817105301	Hassain K
5	311817105302	Maf. Khaja Mohideen
6	311817106002	U.R.Hameed Ziyath
7	311817106003	J.Karan
8	311817106004	M.Mohamed Abdul Rahman
9	311817106005	G.Mohamed Shafiq Sharriff
10	311817106006	K.Muhammed Swalih
11	311817106008	C.Rajkumar
12	311817106010	G.Subash
13	311817106301	N.V.Sandhiya Roselin Mary



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Department of EEE

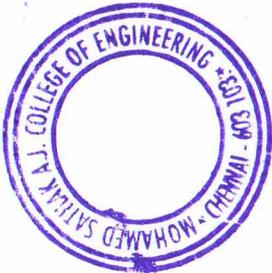
Students Enrolled List

Robotic Process Automation (RPA)

S.no	Reg. No. of the Student	Student Name
14	311817104001	Aayisha M
15	311817104003	Asif Fayaz.S
16	311817104009	Jai Balaji.V
17	311817104016	Mohamed Nazeer.A
18	311817104021	Najeeha Banu.A
19	311817104022	Naveen Kumar.S
20	311817104023	Nithyadarshni S
21	311817104024	Rahamathullah K
22	311817104026	Ramesh S
23	311817104010	Jasir Hussain.S
24	311817104028	Santhosh Raja L
25	311817104027	Sabeer Ahamed S
26	311817104030	Shahid Yaaser
27	311817104019	Mohamed Suhail.M
28	311817104034	Venkatesan S
29	311817104029	Selciya J
30	311817104004	Dinesh D
31	311817104015	Mohamed Furose H
32	311817104031	Soundarya M
33	311817104017	Mohamed Riyaz M A
34	311817104025	Rahuman Gani
35	311817104018	Mohamed Sajed S
36	311817104020	Mohammed Sulaiman B
37	311817104012	Kesavan H
38	311817104005	Fahima S
39	311817104032	Syed Sahir Ahmed K
40	311817104013	Manoj K

K. Dhanu
Course Coordinator

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HoD



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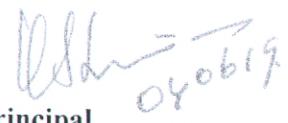
Ref: MSAJCE / PO -104/ 2019-2020

Date: 4.6.2019

It is hereby informed that the following faculty members has been nominated as members to the design the syllabus for the Add-on Course / Value added course “ **IOT and its Application** ”

S.NO	Faculty Name	Designation
1	Dr.E.Dhiravidachelvi	Associate Professor
2	Mr.S.NaveenKumar	Assistant Professor

All are requested to design the syllabus for the above mentioned course and submit on or before 10.6.2019.


Principal

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4. Admin Office
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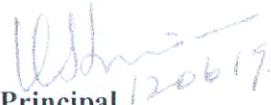
Ref: MSAJCE / PO 110 / 2019-2020

Date: 12.6.2019

It is hereby informed that the following faculty members to attend the Internal syllabus review meeting on 17.6.2019 at Board room to review the syllabus for the Add-on Course / Value added course "IOT and its Application".

S.No	Faculty	Designation
1	Dr. E.Dhiravidachelvi	Head -Academic
2	Dr. I.Manju	Head - TC & IR
3	Mr.Prasath	Head - Placement
4	All HoDs	

All are requested to be available for the meeting.


Principal 12/06/19

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DEPARTMENT OF ECE

Date:18/11/2019

Ref:01/MSAJCE/ECE/EVEN/2019-2020

CIRCULAR

Our department is organizing a “ADD ON Course” on IOT and Its Applications during 16/12/2019 to 28.02.2020. The IV Year ECE Students. Register with Mr.S.Naveen kumar AP/ECE on or before 27/11/2019.

The session schedule is as follows

Timing: 9.00 AM to 3.30 PM

Venue: IOT LAB

HoD/ECE

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IOT AND ITS APPLICATION

SYLLABUS

Unit (i): Introduction to Internet of Things – applications/devices, protocols, communication model 9

Introduction – Overview of Internet of Things(IoT), the characteristics of devices and applications in IoT ecosystem, building blocks of IoT, Various technologies making up IoT ecosystem, IoT levels, IoT design methodology, The Physical Design/Logical Design of IoT, Functional blocks of IoT and Communication Models.

Unit (ii): Things and Connections 9

Working of Controlled Systems, Real-time systems with feedback loop e.g. thermostat in refrigerator, AC, etc. Connectivity models – TCP/IP versus OSI model, different type of modes using wired and wireless methodology, The process flow of an IoT application.

Unit (iii): Sensors, Actuators and Microcontrollers 9

Sensor – Measuring physical quantities in digital world e.g. light sensor, moisture sensor, temperature sensor, etc. Actuator – moving or controlling system e.g. DC motor, different type of actuators Controller – Role of microcontroller as gateway to interfacing sensors and actuators, microcontroller vs microprocessor, different type of microcontrollers in embedded ecosystem.

Unit: (iv) Building IoT applications 9

Introduction to Arduino IDE – writing code in sketch, compiling-debugging, uploading the file to Arduino board, role of serial monitor. Embedded 'C' Language basics – Variables and Identifiers, Built-in Data Types, Arithmetic operators and Expressions, Constants and Literals, assignment. Conditional Statements and Loops – Decision making using Relational Operators, Logical Connectives – conditions, if-else statement, Loops: while loop, do while, for loop, Nested loops, Infinite loops, Switch statement. Arrays – Declaring and manipulating single dimension arrays Functions – Standard Library of C functions in Arduino IDE, Prototype of a function: Formal parameter list, Return Type, Function call. Interfacing sensors

Unit: (v) Security and Future of IoT ecosystem 9

Need of security in IoT – Why Security? Privacy for IoT enabled devices- IoT security for consumer devices- Security levels, protecting IoT devices Future IoT eco system – Need of power full core for building secure algorithms, Examples for new trends – AI, ML penetration to IoT

Total Noof Hours: 45


Course coordinator


HOD/EECE.

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Assessment Procedure for Add-on Courses / value Added Courses

1. Two Assessments shall be conducted during the semester by the course co-ordinator concerned.
2. A committee consisting of the Head of the Department, staff handling the course and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process
3. Performance of students in each Add on course of study shall be evaluated based on
 - Midterm internal assessment and
 - Assessment at the end of the course.
4. Each Add on course, shall be evaluated for a maximum of 100 marks.
5. The weightage for questions may be as follows.
 - Part A: Objective Type Questions
 - Part B: Design/Prototype development/Mini projects/etc.
6. The question paper may be set with
 - 40% of questions to test the memory skills & the capacity to understand concepts.
 - 60% % of questions to the ability to apply, create, analyse and evaluate concepts.



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VAC - STUDENTS NAME LIST

Academic Year:2019-2020

Name of the Value Added Course : IOT and Its Applications				
Yr / Sem :IV/ VII ECE		Faculty In-charge : Mr.S.Naveen kumar ,AP/ECE		
Location : ONLINE		Duration :45 Hrs		
Sl.No	Name of the Student	Register No.	Status of Qualifying	Sign of Student
1.	Afshan Fathima. R	311816106002	Qualified	✓
2.	Ansari. M	311816106003	Qualified	✓
3.	Ayisha Sithikka. A	311816106004	Qualified	✓
4.	Badhurun Farhana. S	311816106005	Qualified	✓
5.	V.Chandrakala Yadav	311816106006	Qualified	✓
6.	Dharvash Mohaideen	311816106007	Qualified	✓
7.	Fayaz Ahamed. M	311816106008	Qualified	✓
8.	Fowzul Hafsa M.N	311816106009	Qualified	✓
9.	Kavinellavu. R	311816106010	Qualified	✓
10.	Mohamed Arsath. A	311816106011	Qualified	✓
11.	Mohammed Shadhir. J	311816106012	Qualified	✓
12.	Naga Priya. G	311816106013	Qualified	✓
13.	Nasreen Binti Sahul Hameed	311816106014	Qualified	✓
14.	Nausheen Banu. R	311816106015	Qualified	✓
15.	Priyanka. P	311816106017	Qualified	✓
16.	Raheel Fahima P.T.S	311816106018	Qualified	✓
17.	Salma Arifa. S	311816106019	Qualified	✓
18.	Santhosh Kumar. K	311816106020	Qualified	✓
19.	Shakirafathima. S	311816106021	Qualified	✓
20.	Stephin S.R	311816106022	Qualified	✓
21.	Sudharsan	311816106024	Qualified	✓
22.	Syed Ansari. N	311816106025	Qualified	✓
23.	Syed Peer Muhaideen K.H	311816106026	Qualified	✓
24.	Syed Salmaan Ashraf	311816106027	Qualified	✓
25.	Vaseeullah. C	311816106028	Qualified	✓
26.	Adarsh Durairaj.B	311816106701	Qualified	✓
27.	Mohamed Thanseer	311816106702	Qualified	✓


Head-Training


Signature of HoD with date

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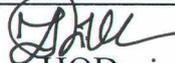
VAC-CCNA-IOT AND ITS APPLICATIONS

Department of ECE- ASSESMENT

S.no	Reg.number	Student Name	Assesment Marks
1	311816106002	Afshan Fathima. R	18
2	311816106003	Ansari. M	17
3	311816106004	Ayisha Sithikka. A	14
4	311816106005	Badhurun Farhana. S	15
5	311816106006	V.Chandrakala Yadav	16.
6	311816106007	Dharvash Mohaideen	18
7	311816106008	Fayaz Ahamed. M	14
8	311816106009	Fowzul Hafsa M.N	15
9	311816106010	Kavelav. R	16
10	311816106011	Mohamed Arsath. A	17
11	311816106012	Mohammed Shadhir. J	18
12	311816106013	Naga Priya. G	20.
13	311816106014	Nasreen Binti Sahul Haameed	20.
14	311816106015	Nausheen Banu. R	19.
15	311816106017	Priyanka. P	12.
16	311816106018	Raheel Fahima P.T.S	13
17	311816106019	Salma Arifa. S	14
18	311816106020	Santhosh Kumar. K	17
19	311816106021	Shakirafathima. S	18
20	311816106022	Stephin S.R	19
21	311816106024	Sudharsan	16
22	311816106025	Syed Ansari. N	15
23	311816106026	Syed Peer Muhaiden K.H	17
24	311816106027	Syed Salmaan Ashraf	17
25	311816106028	Vaseeullah. C	18
26	311816106701	Adarsh Durairaj.B	19
27	311816106702	Mohamed Thanseer	18

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 Course coordinator


 HOD

IOT and Its Applications

Assesment

Name: Salma Arifa.S

Year: III

Department: ECE

Date:

14
20
Ony

1) How many numbers of the element in the open IoT architecture?

- a. Four elements
- b. Five elements
- c. Six elements
- d. Seven elements ✓

2) Which of the following is the way in which an IoT device is associated with data?

- a. Internet ✓
- b. Cloud
- c. Automata
- d. Network

3) Which of the following IoT networks has a very short range?

- a. Short Network
- b. LPWAN
- c. SigFox ✓
- d. Short-range Wireless Network

What is the full form of the LPWAN?

- a. Low Protocol Wide Area Network
- b. Low Power Wide Area Network ✓
- c. Long Protocol Wide Area Network
- d. Long Power Wide Area Network

5) An IoT network is a collection of _____ devices

- a. Signal
- b. Machine to Machine
- c. Interconnected ✓
- d. Network to Network

6) Which one of the following is not an IoT device?

- a. Amazon echo voice controller
- b. Google Home
- c. Nest Smoke Alarm

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- c. Message Queue Telemetry Things
- d. Message Queue Telemetry Transport

15) What is the full form of ICT?

- a. InterConnect Technology
- b. Internet Connection Topology
- c. Information and Communication Technology
- d. Infer Communication Topology

16) Which of the following frequencies is correct for the Galileo gen 2 board?

- a. 250 MHz
- b. 400 MHz
- c. 450 MHz
- d. 300 MHz

17) What is the full form of IANA?

- a. Inter-Assessment-Number-Access
- b. Internet-Association-Numbers-Authority
- c. International-Aid-for-Network-Authority
- d. Internet-Assigned-Numbers-Authority

18) What is the standard port number of secure MQTT?

- a. 1883
- b. 8000
- c. 8883
- d. 8888

19) Which of the following layers provides end-to-end communication in IoT?

- a. Logical layer
- b. Data link layer
- c. Transport layer
- d. Session layer

20) Which of the following devices is used to measure the gases or liquid?

- a. Optical Sensor
- b. Gas Sensor
- c. Smoke Sensor
- d. Pressure sensor

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course Summary 2019-2020

Course code and Name : IOT and its Applications

Course Duration : 45 hours

Years offered : III Year Students of ECE

Course Instructors : Mr.S.Naveenkumar AP/ ECE

Course Outcome's :

After completion of this course , students will be able to understand the application areas of IOT they can able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks and building blocks of Internet of Things and characteristics.

Course Type : Add on course Organized By MSAJCE

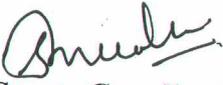
Assessment Mode :

Attendance : 45 Hours

Number of Participants : 27

Scheme of Exam : Offline Assessment Examination

Date of Exam - : 28.02.2020


Course Coordinator


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HOD/ECE

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Circular

Ref: MSAJCE / PO -101/ 2019-2020

Date: 4.6.2019

It is hereby informed that the following faculty members has been nominated as members to the design the syllabus for the Add-on Course / Value added course “**Training on CATIA Solid Models**”

S.NO	Faculty Name	Designation
1	Dr.R.SenthilKumar	Associate Professor
2	Mr. S.Bharath	Assistant Professor

All are requested to design the syllabus for the above mentioned course and submit on or before 10.6.2019.


Principal

Copy to:

1. The Chairman & Director
2. IQAC
3. All HoDs
4. Admin Office
5. Office file

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Circular

Ref: MSAJCE / PO 107 / 2019-2020

Date: 12.6.2019

It is hereby informed that the following faculty members to attend the Internal syllabus review meeting on 17.6.2019 at Board room to review the syllabus for the Add-on Course / Value added course "Training on CATIA Solid Models".

S.No	Faculty	Designation
1	Dr. E.Dhiravidachelvi	Head -Academic
2	Dr. I.Manju	Head - TC & IR
3	Mr.Prasath	Head - Placement
4	All HoDs	

All are requested to be available for the meeting.


Principal

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DEPARTMENT OF MECHANICAL ENGINEERING

Date:01.07.2020

Ref:MSAJCE/VAC02MECH/2020-2021

CIRCULAR

Our department is organizing a “ADD ON ” on **Training on CATIA Solid Models** during 06.07.2020 to 14.07.2020. The following III Year Mechanical Students register with Mr.S.Bharath AP/MECH on or before 04.07.2020.

The session schedule is as follows

Timing: 9.00 AM to 1.00 PM

HoD

Head of the Department
Department of Mechanical Engineering
Mohamed Sathak A.J.College of Engineering
Egattur, Chennai - 603 103

Copy To:

Dept. of Mechanical

III Year Mechanical

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DEPARTMENT OF MECHANICAL ENGINEERING

COURSE MODULE

Course Objectives:

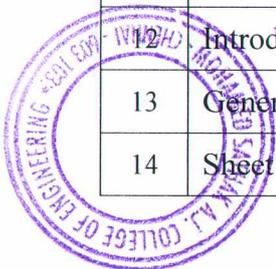
The Students will acquire to

- Understand basis of graphical representation in the general context of Industrial Engineering.
- Apply expression and communication for the design, creation, definition and development of an industrial installation and/or product making practical use of the current technologies
- Create design shapes with 3D modeling, assembly, sheet metal design and visualization features
- Learn the implementation of solid modeling and get hands-on experience with the real world projects

MODULE

1	Surface Modeling & Assembly - An Overview
2	Wireframe & Surface design
3	Surfaces – Sweep - Multi section - surfaces - Trim operations - Generative shape design
4	Introduction to Assembly - Bottom up approach
5	Top down approach
6	Inserting of components
7	Assembly constrains
8	Introduction to Drafting
9	Visual Realism
10	Digital mockup Kinematics
11	Simple Mechanism Analysis
12	Introductio to Sheet Metal Design
13	Generative sheet metal design
14	Sheet metal design

Handwritten signature in blue ink.



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15	Sketching
16	Lofted bend
17	Jog feature
18	Forming tools
19	Swept flange
20	Pattern and Drafting



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DEPARTMENT OF MECHANICAL ENGINEERING

Course Outcome

Students will able to

- Interpret and/or convey the technical information in an industrial drawing
- Apply graphical representation techniques using traditional metric geometry and Know, identify, interpret and apply the current standards
- do assembly designing, sheet metal designing, and template based designing
- perform visual analysis and validation which will give them high quality performance insights for product decisions

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 - Part A: Objective Type Questions
 - Part B: Design/Prototype development/Mini projects/etc.
6. The question paper may be set with
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 - 60% % of questions to the ability to apply, create, analyse and evaluate concepts.



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DEPARTMENT OF MECHANICAL ENGINEERING

CO PO Mapping

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Interpret and/or convey the technical information in an industrial drawing	3	3			3			2		2	3	2
Apply graphical representation techniques using traditional metric geometry and Know, identify, interpret and apply the current standards			2	2	2	2						
Do assembly designing, sheet metal designing, and template based designing	3	2	3									
Perform visual analysis and validation which will give them high quality performance insights for product decisions	3	3	3					3		2	3	3

(Handwritten Signature)

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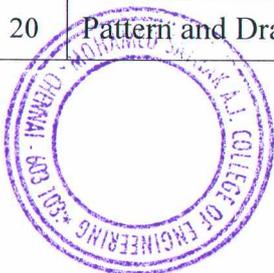


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DEPARTMENT OF MECHANICAL ENGINEERING

Sl. No.	Topic	T / R*	Periods Required	Mode of Teaching
		Book		
1	Surface Modeling & Assembly - An Overview	T	2	PPT
2	Wireframe & Surface design	T	2	Practical
3	Surfaces – Sweep - Multi section - surfaces - Trim operations - Generative shape design	T	2	Practical
4	Introduction to Assembly - Bottom up approach	T	2	PPT
5	Top down approach	T	2	Practical
6	Inserting of components	T	2	Practical
7	Assembly constrains	T	2	Practical
8	Introduction to Drafting	T	2	PPT
9	Visual Realism	T	2	Practical
10	Digital mockup Kinematics	T	3	Practical
11	Simple Mechanism Analysis	T	3	Practical
12	Introductio to Sheet Metal Design	T	2	PPT
13	Generative sheet metal design	T	3	PPT
14	Sheet metal design	T	3	Practical
15	Sketching	T	3	Practical
16	Lofted bend	T	2	Practical
17	Jog feature	T	2	Practical
18	Forming tools	T	2	Practical
19	Swept flange	T	2	Practical
20	Pattern and Drafting	T	2	Practical



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DEPARTMENT OF MECHANICAL ENGINEERING

Quiz / Mini Projects / Model Develooped if any	
Nil	
Text / Reference Books	
1	Notes on 3D Modelling and CAD Practice. Teachers of the Department of Graphic Expression. University College of Engineering of Vitoria-Gasteiz. 2010
2	DASSAULT SISTEMES Users Guide Part Design / Wireframe and surfaces // Assembly design / Generative drafting /CATIA V5.
Website / URL References	
1	https://nptel.ac.in/courses/112/102/112102102/

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DEPARTMENT OF MECHANICAL ENGINEERING

Sl.No	Name of the Student	Register No.	Status of Qualifying
1	311817114002	Abdul Basit	Pass
2	311817114003	Abdul Mukshith A	Pass
3	311817114004	Abdul Rahim A K	Pass
4	311817114006	Abdul Wahab A	Pass
5	311817114009	Ahamed Mukshith M	Pass
6	311817114011	Akash R	Pass
7	311817114013	Arun Prasath R	Pass
8	311817114014	Atheeq Mohammed Owaiz	Pass
9	311817114015	Azbaq Meeran F	Pass
10	311817114016	Chandrasekar G	Pass
11	311817114018	Gandhi Subash K	Pass
12	311817114022	Imran L	Pass
13	311817114023	Jamalul Ashraq I	Pass
14	311817114025	Karthickkumar M	Pass
15	311817114026	Kireesh Karan R	Pass
16	311817114027	Manikanda Venkataraman G	Pass
17	311817114028	Manoj Kumar K	Pass
18	311817114029	Mohamed Abubakker Siddiq S	Pass
19	311817114030	Mohamed Ali Hasan Seyed Abuthahi S A	Pass
20	311817114032	Mohamed Askar M	Pass
21	311817114033	Mohamed Fahim J	Pass
22	311817114034	Mohamed Irfan A	Pass
23	311817114035	Mohamed Irfan J	Pass
24	311817114036	Mohamed Irfan Ali S	Pass
25	311817114037	Mohamed Javidh M	Pass
26	311817114040	Mohamed Musraf B A	Pass
27	311817114041	Mohamed Reefdeen K	Pass
28	311817114042	Mohamed Sathik A	Pass
29	311817114043	Mohamed Suhail M	Pass



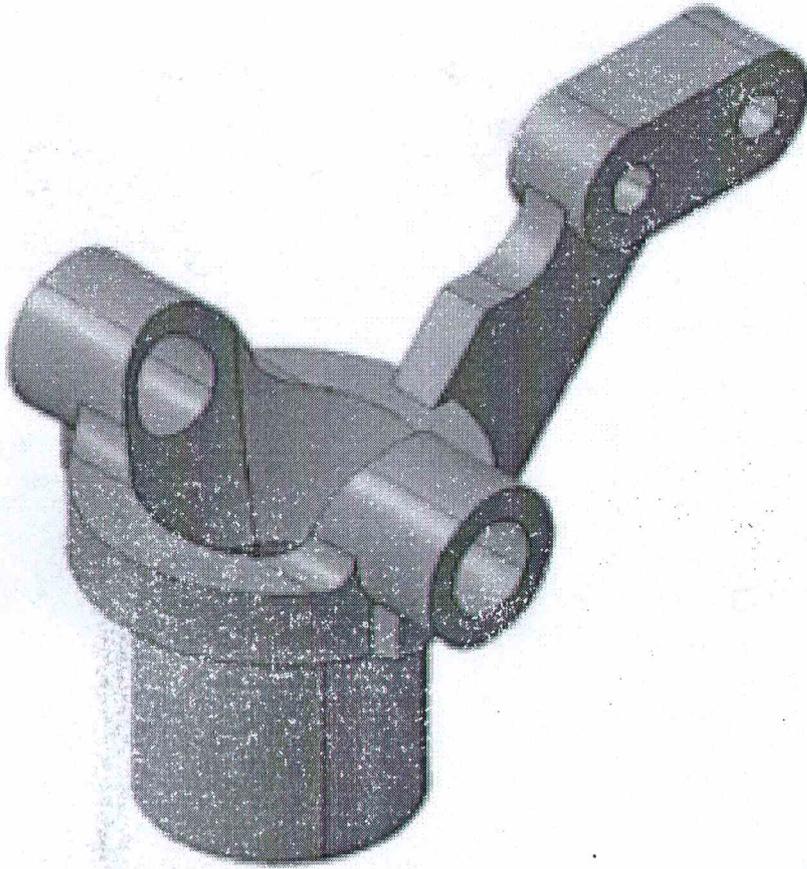
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30	311817114044	Mohamed Yusuf J	Pass
31	311817114045	Mohammed Fayaas M	Pass
32	311817114047	Mohammed Zain J	Pass
33	311817114048	Muhamed Sufyan J	Pass
34	311817114050	Pandidurai R	Pass
35	311817114051	Sabik Mohammed S	Pass
36	311817114052	Sajidullah K	Pass
37	311817114054	Shakes Pear N	Pass
38	311817114056	Syed N Zaheer Abbas	Pass
39	311817114057	Usama A	Pass
40	311817114301	Gokul L	Pass
41	311817114302	Ibrahim A	Pass
42	311817114303	Jawahar Shalim S	Pass
43	311817114304	Mohamed Fardhan H	Pass
44	311817114305	Mohammed Nabeel M	Pass



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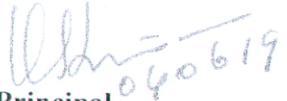
Ref: MSAJCE / PO -102/ 2019-2020

Date: 4.6.2019

It is hereby informed that the following faculty members has been nominated as members to the design the syllabus for the Add-on Course / Value added course “**Creo-Harness Design, GD&T Industrial Standard**”

S.NO	Faculty Name	Designation
1	Dr.R.SenthilKumar	Associate Professor
2	Mr. S.Deepak Kumar	Assistant Professor

All are requested to design the syllabus for the above mentioned course and submit on or before 10.6.2019.


Principal

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Chennai-603 103.

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4. Admin Office
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Mohamed Sathak A J College of Engineering, Chennai 603103

Circular

Ref: MSAJCE / PO 108 / 2019-2020

Date:12.6.2019

It is hereby informed that the following faculty members to attend the Internal syllabus review meeting on 17.6.2019 at Board room to review the syllabus for the Add-on Course / Value added course "Creo-Harness Design, GD&T Industrial Standard".

S.No	Faculty	Designation
1	Dr. E.Dhiravidachelvi	Head -Academic
2	Dr. I.Manju	Head - TC & IR
3	Mr.Prasath	Head - Placement
4	All HoDs	

All are requested to be available for the meeting.


Principal

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DEPARTMENT OF MECHANICAL ENGINEERING

From ,

Dr.R.Senthil Kumar,
Professor,
Department of Mechanical Engineering,
Mohamed Sathak A.J.College of Engineering,
Chennai – 603103.

To

The Principal,
Mohamed Sathak A.J.College of Engineering,
Chennai – 603103.

Respected Madam/Sir,

Sub: Permission for conducting ADD on course – reg.

With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of Mechanical department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

Year/Sem	Title	Dates
IV/VIII-Mechanical	Creo-Harness Design, GD&T Industrial Standard	07.12.2019 to 07.03.2020

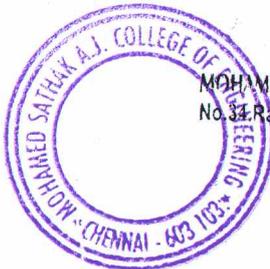
Thanking you

Place : Chennai

Your's faithfully

Date: 21.11.2019

Principal



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DEPARTMENT OF MECHANICAL ENGINEERING

COURSE MODULE

Course Objectives:

The Students will acquire to

- Recognize proper application of GD&T
- Calculate geometric tolerances and boundaries
- learn basic skills of 2D sketching and drafting of field dimensions
- Develop a solution through group work.
- Communicate and present ideas and solutions to design problems

MODULE

1	Introduction to Geometric Dimension
2	GD&T standards
3	Criteria for selecting Datum features
4	Feature control frame representation
5	Interpretation of drawings & dimensions
6	Introduction to Geometric Tolerance
7	Types of Tolerances
8	Form- Profile- Orientation- Location- Run out
9	Maximum Material Condition (MMC)
10	Least Material Condition (LMC)
11	Regardless of Feature size (RFS)
12	Introduction to AutoCAD
13	Exercise on Position tolerance, Profile tolerance, fixed fastener
14	Sketch commands



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15	Sketch entities
16	Sketch Tools
17	Sketch Settings
18	Advance Tools
19	ISO TR5460 for Gtol measurement
20	Introduction to Harness Design



A handwritten signature in green ink, appearing to be "MS" followed by a horizontal line.

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DEPARTMENT OF MECHANICAL ENGINEERING

Course Outcome

Students will able to

- Interpret GD&T and Engineering standardization on drawings using Creo
- Understand the fundamental concepts of GD&T
- Apply basic knowledge of sketching techniques and modify the dimensions with BIS standards.
- Illustrate to familiarize in two-dimensional drawings with AutoCAD.
- Manipulate drawings through editing and plotting techniques




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Assessment Procedure for Add-on Courses / value Added Courses

1. Two Assessments shall be conducted during the semester by the course co-ordinator concerned.
2. A committee consisting of the Head of the Department, staff handling the course and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process
3. Performance of students in each Add on course of study shall be evaluated based on
 - Midterm internal assessment and
 - Assessment at the end of the course.
4. Each Add on course, shall be evaluated for a maximum of 100 marks.
5. The weightage for questions may be as follows.
 - Part A: Objective Type Questions
 - Part B: Design/Prototype development/Mini projects/etc.
6. The question paper may be set with
 - 40% of questions to test the memory skills & the capacity to understand concepts.
 - 60% % of questions to the ability to apply, create, analyse and evaluate concepts.



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DEPARTMENT OF MECHANICAL ENGINEERING

CO PO Mapping

Course Outcome	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Interpret GD&T and Engineering standardization on drawings using Creo	3	3			3			2		2	3	2
Understand the fundamental concepts of GD&T	2	2	2									
Apply basic knowledge of sketching techniques and modify the dimensions with BIS standards.	3	2	3									
Illustrate to familiarize in two-dimensional drawings with AutoCAD.	3	3	3					2		2	3	3
Manipulate drawings through editing and plotting techniques		3										3



[Handwritten Signature]
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DEPARTMENT OF MECHANICAL ENGINEERING

Sl. No.	Topic	T / R*	Periods Required	Mode of Teaching
		Book		
1	Introduction to Geometric Dimension	T	2	PPT
2	GD&T standards	T	2	PPT
3	Criteria for selecting Datum features	T	2	PPT
4	Feature control frame representation	T	2	Practical
5	Interpretation of drawings & dimensions	T	2	Practical
6	Introduction to Geometric Tolerance	T	2	PPT
7	Types of Tolerances	T	2	PPT
8	Form- Profile- Orientation- Location- Run out	T	2	Practical
9	Maximum Material Condition (MMC)	T	2	Practical
10	Least Material Condition (LMC)	T	3	Practical
11	Regardless of Feature size (RFS)	T	3	Practical
12	Introduction to AutoCAD	T	2	PPT
13	Exercise on Position tolerance, Profile tolerance, fixed fastener	T	3	Practical
14	Sketch commands	T	3	Practical
15	Sketch entities	T	3	Practical
16	Sketch Tools	T	2	Practical
17	Sketch Settings	T	2	Practical
18	Advance Tools	T	2	Practical
19	ISO TR5460 for Gtol measurement	T	2	Practical
20	Introduction to Harness Design	T	2	PPT



W. Sathak
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DEPARTMENT OF MECHANICAL ENGINEERING

Quiz / Mini Projects / Model Developed if any	
Nil	
Text / Reference Books	
1	Cadfolks, Training Tutorial for AutoCAD 2016, CreateSpace Independent Publishing Platform
2	Gene R. Cogorno, Geometric Dimensioning and Tolerancing for Mechanical Design, McGraw Hill Professional
Website / URL References	
1	https://nptel.ac.in/courses/112/106/112106179/
2	https://www.youtube.com/watch?v=X_VepJhg_vk



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DEPARTMENT OF MECHANICAL ENGINEERING

Sl.No	Name of the Student	Register No.	Status of Qualifying
1	ABDUL RAHUMAN A	311816114001	Pass
2	ABINASH V	311816114002	Pass
3	ABUTHAHIR N	311816114003	Pass
4	AFROSE SHERIF S	311816114005	Pass
5	AHMED THAHER A	311816114006	Pass
6	AKIL AHAMED A	311816114007	Pass
7	ARUN N	311816114008	Pass
8	AZARUDEEN M F	311816114009	Pass
9	CHARAN KUMAR V G	311816114011	Pass
10	DHANANCHEZIAN K	311816114012	Pass
11	DINESH D	311816114014	Pass
12	GUHAN A	311816114015	Pass
13	HARIHARAN AKASH A	311816114016	Pass
14	HARISUNDAR V	311816114018	Pass
15	HITHAYATH RILWAN M	311816114019	Pass
16	IZSATH A	311816114020	Pass
17	JAYAPRAKASH D	311816114021	Pass
18	JUNAID AHAMED M	311816114022	Pass
19	KAMAL AMIRTHA RAJ S	311816114023	Pass
20	KARTHY M	311816114024	Pass
21	MARSITH MOHAMMED N	311816114027	Pass
22	MOHAMAD ASGAR S	311816114028	Pass
23	MOHAMED ABDULLAH A	311816114029	Pass
24	MOHAMED ALTHAF M H	311816114030	Pass
25	MOHAMED ANAS KASSIM	311816114032	Pass
26	MOHAMED ASHIK S	311816114033	Pass
27	MOHAMED FAHEEM M F	311816114034	Pass
28	MOHAMED IBRAHIM T S	311816114035	Pass
29	MOHAMED IMRAN S	311816114036	Pass
30	MOHAMEDIMRAN KHAN M	311816114037	Pass



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31	MOHAMED IRFAN D	311816114038	Pass
32	MOHAMED ISMAIL P	311816114039	Pass
33	MOHAMMED MUBARAK	311816114040	Pass
34	MEERAN MOHIDEEN M	311816114301	Pass
35	MOHAMED SHARFRAS S	311816114302	Pass
36	MOHAMEDZIAUDEEN A	311816114303	Pass
37	MOHAMED MUZAHITH S.A.K	311816114041	Pass
38	MOHAMED SHAFIQUE. K	311816114042	Pass
39	MOHAMED SHAHIN. T	311816114043	Pass
40	MOHAMED SHATHIK. M	311816114044	Pass
41	MOHAMED SIRAJUDEEN. S	311816114045	Pass
42	MOHAMED SOHAIL. M	311816114046	Pass
43	MOHAMED VAHITH. D	311816114047	Pass
44	MOHAMED ZUBAIR M.A	311816114048	Pass
45	MOHAMED ZULFIGHAR. H	311816114049	Pass
46	MOHAMMED AASHIK. S	311816114050	Pass
47	MOHAMMED AFZAL. A	311816114051	Pass
48	MOHAMMED DHANISH. H.S	311816114052	Pass
49	MOHAMMED MUBASHIR	311816114053	Pass
50	MOHAN. B	311816114054	Pass
51	MUHAMMED MAIDEEN.K.S	311816114055	Pass
52	NIRMAL. R	311816114056	Pass
53	NURIL AMEEN.M	311816114057	Pass
54	PADMAGANESH . S	311816114058	Pass
55	PARTHIBAN. V	311816114059	Pass
56	RAHUL. M	311816114060	Pass
57	ROMIC FERNANDEZ. B	311816114062	Pass
58	SADHURUDHEEN. M	311816114063	Pass
59	SAHUL HAMEED. D	311816114064	Pass
60	SALMAAN HUSSAIN. N	311816114065	Pass
61	SANTHOSH. S	311816114067	Pass
62	SARAVANAN. K	311816114068	Pass
63	SARAVANAN. S	311816114069	Pass
64	SRIRAM. R	311816114072	Pass
65	STEWART SIMON. S	311816114073	Pass
66	SURYAPRAKASH. S	311816114074	Pass
67	SYED MOHAMMED BAFAY	311816114075	Pass
68	SYED RAFEEQ AHMED. A	311816114076	Pass
69	SYED THANVEER MAQSOOD. J.	311816114077	Pass


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70	THARIQ ANWAR. S	311816114078	Pass
71	THIRUMAVALAVAN. K	311816114079	Pass
72	VISHAL. D	311816114080	Pass
73	YASIR ARAFTH. S	311816114081	Pass
74	MOHAMED YASEEN	311816114304	Pass
75	SEENI MOHAMED.N	311816114305	Pass
76	SYED AFRITH.M	311816114701	Pass



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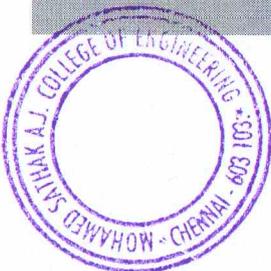
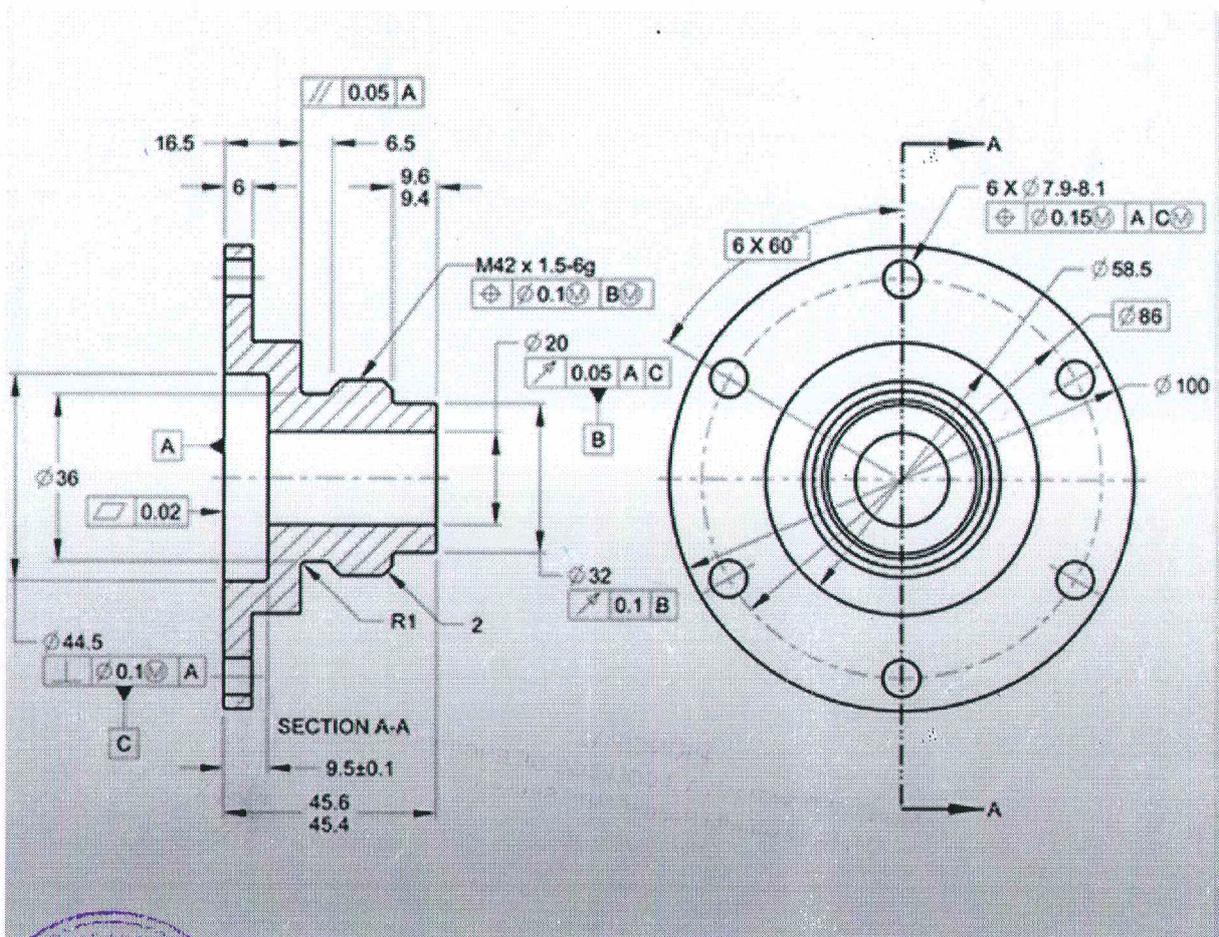


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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course
Creo-Harness Design, GD& T- Industrial Standard

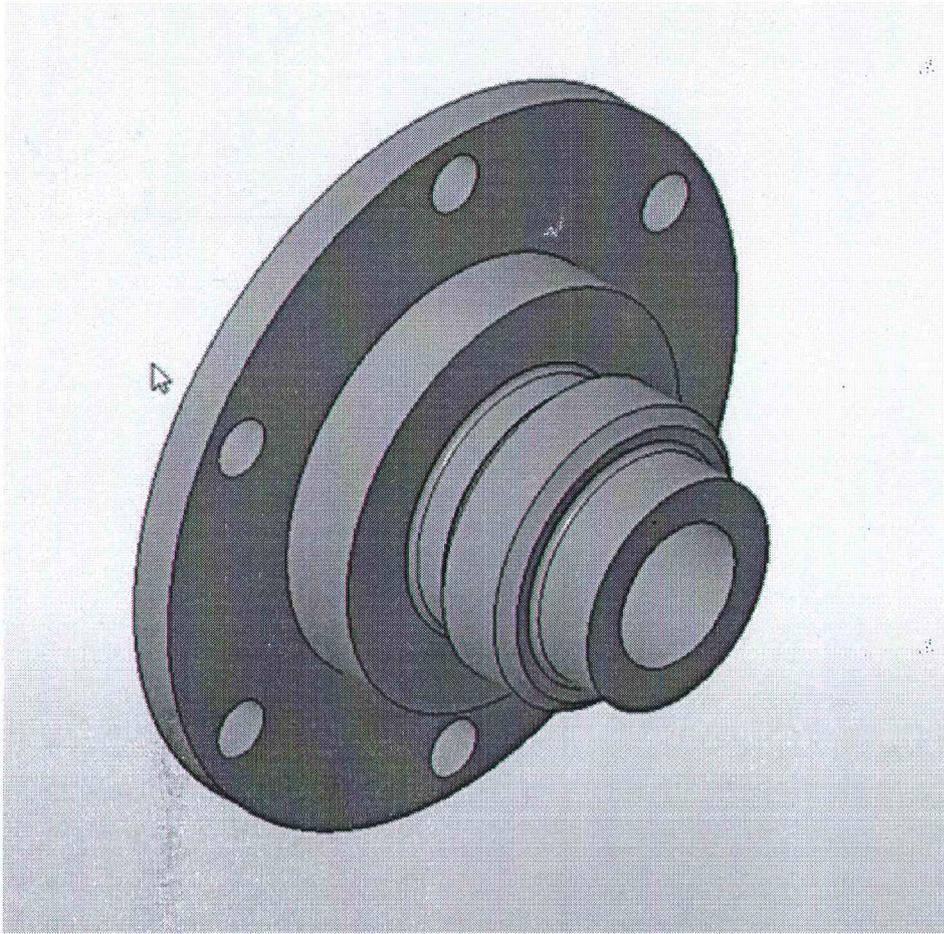
Time: 2 Hrs

1. Develop the **Creo-Harness Design, GD& T** the parts of the following diagram using **CREO 5** software (50 marks) All the dimensions are in mm



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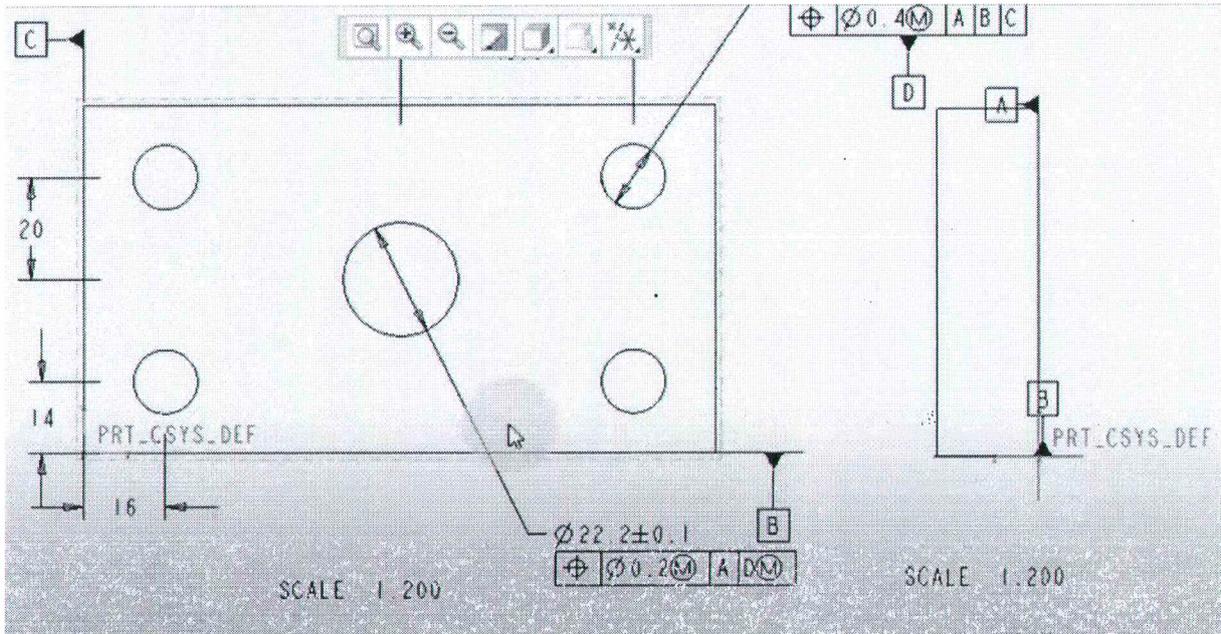
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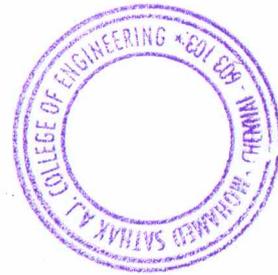
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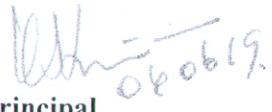
Ref: MSAJCE / PO -105/ 2019-2020

Date: 4.6.2019

It is hereby informed that the following faculty members has been nominated as members to the design the syllabus for the Add-on Course / Value added course “**PC Hardware and Networking**”

S.NO	Faculty Name	Designation
1	Dr.B.Muthukumar	Professor
2	Ms.V.Rajathi	Assistant Professor

All are requested to design the syllabus for the above mentioned course and submit on or before 10.6.2019.


Principal

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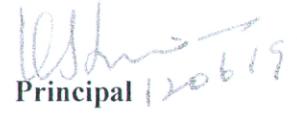
Ref: MSAJCE / PO 111 / 2019-2020

Date: 12.6.2019

It is hereby informed that the following faculty members to attend the Internal syllabus review meeting on 17.6.2019 at Board room to review the syllabus for the Add-on Course / Value added course "PC Hardware and Networking".

S.No	Faculty	Designation
1	Dr. E.Dhiravidachelvi	Head -Academic
2	Dr. I.Manju	Head - TC & IR
3	Mr.Prasath	Head - Placement
4	All HoDs	

All are requested to be available for the meeting.


Principal 12/06/19

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DEPARTMENT OF SCIENCE & HUMANITIES

Ref:01/MSAJCE/S&H/EVEN/2019 -2020

Date: 02/02/2020

CIRCULAR

It is hereby informed to all the 1st Year students that the value-added course "PC Hardware & Networking" during 17/02/2020 to 22/02/2020. All are advised to attend the training course without fail.

The session schedule is as follows

Timing: 9.00 AM to 3.30 PM

Resource Person: Mrs.V. Rajathi

Venue	4 th Floor Auditorium	TF- 403	TF- 409	TF- 411
Faculties	Mrs.V. Rajathi	Ms. J. Nirmala	Mrs.R S. Lysa Packiam	Mrs.S.Babitha Rani


HoD

COPY TO: S&H

Dept. of S&H

I Year


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DEPARTMENT OF SCIENCE & HUMANITIES

COURSE MODULE

Course Objectives:

- 1.To develop programming skill to solve a problem
- 2.To gain knowledge about peripheral devices.
- 3.To acquire basic knowledge about computer hardware.
- 4.To acquire knowledge about Installation and troubleshooting.
5. To know basic about TCP /IP, internet and Intranet.

MODULE-1: Basic networking concepts

Network topologies – Networking model – Network adapters – Cabling and troubleshooting

MODULE-2: IP Address

Static and DHCP IP Address – types of IP Address – Subnet Mask and Subnetting

MODULE-3: Inside the PC

Identification of PC – different blocks – Assembling the parts – Add on card identification

MODULE-4: Networking devices

Routers – Switches – Hubs – modems – wired and wireless technology

MODULE-5: WAN and Wireless LAN

Metro Ethernet – MPLS – WLAN security concepts.

Course Outcomes:

The students will be able to

- CO1. Student will have in depth knowledge about basic of computer assembling.
- CO2. Students have in depth knowledge about IP address
- CO3. The student will able to know the basic of PC hardware
- CO4. Students will have brief knowledge about computer networking and troubleshooting.
- CO5. The student will able to know the networking devices.

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Assessment Procedure for Add-on Courses / value Added Courses

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3. Performance of students in each Add on course of study shall be evaluated based on
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 - Assessment at the end of the course.
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 - 40% of questions to test the memory skills & the capacity to understand concepts.
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CO PO Mapping

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Networking concepts	3	2	2					3		3	3	3
Have in-depth knowledge of IP Address	3	2	2									
Identification of PC	3	3	3									
knowledge about various networking devices	3	3	3					3		2	3	3
WAN and Wireless LAN	3	2										2

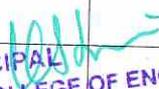

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DEPARTMENT OF SCIENCE & HUMANITIES

S.No	Title	Topics to be Covered	T/R Books	Periods Required	Remarks
1	Network topologies	BUS, RING, MESH	T1/Website	1	PPT
		TREE, STAR	T1/Website	2	BB
2	Networking model	OSI model	T1/Website	1	PPT
		TCP / IP Model	T1/Website	2	BB
3	Network adapters	Basics, types and working	T1/Website	2	BB/PPT
		Cabling and troubleshooting	T1/Website	2	BB
4	IP Address	Static and DHCP IP Address	T1/Website	2	PPT
		Types of IP Address	T1/Website	2	PPT
5	Subnet Mask and Subnetting	Types and uses of subnet mask	T1/Website	2	PPT
		Uses of subnetting	T1/Website	2	PPT

6	Inside PC	Identification of PC	T1/Website	2	PPT
		Different blocks	T1/Website	2	BB
7	PC	Assembling and disassembling	T1/Website	3	PPT
		Add on cards identification	T1/Website	2	BB


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8	Networking devices	Routers, switches	T1/Website	2	PPT
		Hubs, Modems	T1/Website	2	PPT
9	WAN	Metro Ethernet	T1/Website	1	PPT
		MPLS	T1/Website	2	PPT
10	WLAN Security concepts	WLAN threats	T1/Website	1	PPT
		Security	T1/Website	2	BB
Text / Reference Books					
1	Mastering PC Hardware and Networking 1. Ajith Mittal (Author) 2. Ajay Rana (Author)				
Website / URL References					
1	https://www.academia.edu/35218609/Computer_Networking_and_Hardware_Concepts				
2	https://bie.tg.nic.in/Pdf/computerHardware.pdf				


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Assessment

1. DHCP stands for _____
 - (a) Dynamic Host Control Protocol
 - (b) Dynamic Host Configuration Protocol
 - (c) Digital Host Configuration Protocol
 - (d) Digital Host Control Protocol

2. A group of computers and other devices connected together is called a network, and the concept of connected computers sharing resources is called
 - A) Networking
 - B) Inter-Network
 - C) Inter-Connection
 - D) Computer Group

3. The layer change bits onto electromagnetic signals.
 - A) Physical
 - B) Transport
 - C) Data Link
 - D) Presentation

4. Which of the following is an application layer service?
 - A) Network virtual terminal
 - B) File transfer, access and management
 - C) Mail service
 - D) All of the above

5. Which is the main function of transport layer?
 - A) Node to node delivery
 - B) End to end delivery
 - C) Synchronization
 - D) Updating and maintaining routing tables

6. Select the format of the IP address.
 - (A) 34 bit
 - (B) 32 bit
 - (C) 16 bit
 - (D) 64 bit


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-
7. Which protocol include in desktops and operating systems.
- (A) IPv3 protocol
 - (B) IPv4 protocol
 - (C) Both IPv6 and IPv4 protocol
 - (D) IPv6 protocol
8. Which one are the stands of VLSM?
- (A) Version Length Subnet Masking
 - (B) Version Length Surface Masking
 - (C) Variable Length Surface Masking
 - (D) Variable Length Subnet Masking
9. What is not used in media access control?
- a) fiber distributed data interface
 - b) line ethernet
 - c) digital subscriber
 - d) None of these
10. Tokens are involved in a topology.
- a) Star
 - b) hybrid
 - c) Bus
 - d) Ring
-
11. Star Topology is basically based on a central device _____ ?
- a.HUB
 - b.Switch
 - c.gates
 - d.Both a and b
12. In a mesh topology, each device has a dedicated topology of
- a.Multipoint linking
 - b.Point to point linking
 - c.None of Above
 - d.Both a and b
13. LAN has mostly used the topologies
- a)Bus
 - b)ring
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14. 
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-
14. A program that contains nothing but strings of zeros and ones is called
- Machine language program
 - Assembly language program
 - Interrupted program
 - Binary language program
15. What is the website's front page is called?
- Browser page
 - Home page
 - Search page
 - Bookmark
16. RMI uses stub and skeleton for communication with the ----- object
- Client
 - Remote
 - Server
 - Any
17. The process of keeping addresses in memory for future use is called
- Routing
 - Resolving
 - Caching
 - None
-
18. How is the data stored on the diskette?
- Ink
 - Laser bubbles
 - Magnetism
 - Circuits
19. What is the collection of the hyperlinked document on the internet known as?
- HTML
 - Email
 - WWW
 - Internet
20. What do you need to check serial and parallel port?
- Port adapter
 - Logic probe
 - Loopback plug
 - All the above

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DEPARTMENT OF SCIENCE & HUMANITIES
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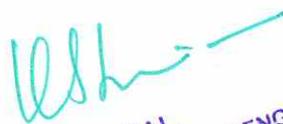
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