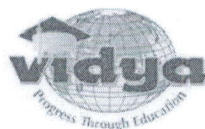


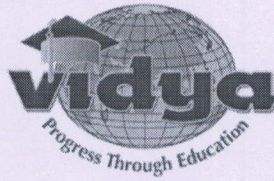
VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY
TECHNICAL CAMPUS, KILIMANOOR, THIRUVANANTHAPURAM
(A Unit of Vidya International Charitable Trust)

DEPARTMENT OF CIVIL ENGINEERING

Curriculum
For
Add -On programme (Documentation Tools)
Semester VI
2016



Malakkal P.O., Kilimanoor, Thiruvananthapuram, Kerala – 695602.
Tel: +91 470 2649574, 2649234, | Fax : +91 - 470-2649234 | Mob : 9447540982
E-mail : vasttc@vidyaacademy.ac.in | www.vidyatcklmr.ac.in



VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS Kilimanoor,
Thiruvananthapuram
“A Unit of Vidya International Charitable Trust”

ADD- ON COURSE ON DOCUMENTATION TOOLS
SYLLABUS

Session 1 – Microsoft Word (10 Hours)

1. Page Layout Tab
 - a. Orientation
 - b. Margin
 - c. Size
2. Fonts Group
 - a. Font Face
 - b. Font Colour
 - c. High
3. Edit
 - a. Drag/Drop
 - b. Copy Paste
 - c. Delete
4. Paragraph
 - a. Align
 - b. Spacing
 - c. Indent
5. Tables
 - a. Headings
 - b. Header

- c. Footer
 - d. Page Numbers
- 6. Bullets and Numbering
- 7. View Tab
 - a. Page Layout
 - b. Ruler
 - c. Zoom
- 8. Wrap text & Merge\
- 9. Find/Replace
- 10. Save/Save As
- 11. Print

Session 2 – Microsoft Powerpoint (5 Hours)

- 1. Common Function
- 2. Insert Slide
 - a. Slide Layout
- 3. Insert Taskbox
- 4. Design
 - a. Themes – UT Dallas
 - b. Best Practices
 - c. Background
- 5. Insert
 - a. Picture
 - b. ClipArt
 - c. Shapes
 - d. Smart Art
 - e. Format
- 6. Header and Footer
- 7. Slide number
- 8. View
 - a. Normal

- b. Slide Sort
 - c. Notes
 - d. Guidelines
- 9. Print
 - a. Handouts
- 10. Slide Show
 - a. Animation
 - b. Transition
- 11. Insert Comments
- 12. Create Slide Master
 - a. Create Master Layouts
 - b. Understanding placeholders
- 13. Create custom Template
 - a. Apply a template

Session 3 – Microsoft Excel (10 Hours)

- 1. Page Layout
 - a. Orientation
 - b. Margins
 - c. Size
- 2. Fonts Group
- 3. Edit
 - a. Drag/Drop
 - b. Copy Paste
 - c. Delete
- 4. Spell Check
- 5. Alignment Group
- 6. Cells, Rows, Columns
- 7. View Tab
 - a. Normal

- b. Zoom
- 8. Column Format
 - a. Width
 - b. Height
 - c. Cell Entry line
- 9. Sheets
 - a. Name sheets
 - b. Reorder sheets
- 10. Simple Sort and Advanced Sort
- 11. Auto Sum Column and Row
- 12. Wrap Text
- 13. Merge Cells
- 14. Format Cells
 - a. Numbers
 - b. Alignment
 - c. Font
 - d. Border
 - e. Fill
 - f. Protection
- 15. Header/footer
- 16. Print Options
 - a. Set Print Area
 - b. Repeat Top Rows
 - c. Print page break
- 17. Freeze rows and columns
- 18. Comments
- 19. Remove Duplicates
- 20. Save and Print



**VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY
TECHNICAL CAMPUS, KILIMANNOOR, THIRUVANANTHAPURAM**



DEPARTMENT OF CIVIL ENGINEERING

Add- on Programme(Documentation Tools)

Students List

Semester : 6

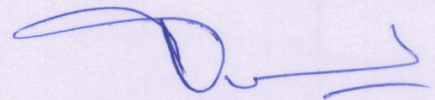
Academic Year : 2015-2016

ROLL NUMBER	REGISTER NUMBER	NAME
1	401-13442001	ABHIJITH B
2	401-13442002	ABHIN ASHOK
3	401-13442003	ABHIRAMI VIJAY
4	401-13442004	ACHU PRANAV P
6	401-13442006	AHSANA A S
7	401-13442007	AISWARYA A S
9	401-13442009	ANAND BABU
10	401-13442010	ANANDHU SATHEESAN
11	401-13442011	ANJALI B
12	401-13442012	ANJALI SALIMKUMAR
14	401-13442014	APPU S
15	401-13442015	ARDRADERSH S
16	401-13442016	ARJUNLAL D
18	401-13442017	ARUN SUDEV L
19	401-13442019	CHIPPY S ANIL
21	401-13442021	DATHAN CHANDRABABU
22	401-13442022	DIVYA S
23	401-13442023	FATHIMA M S
25	401-13442025	GEETHU KRISHNAN
26	401-13442026	JAI VISHNU
28	401-13442028	MEERA S
29	401-13442030	NIDHIN M
31	401-13442031	RANI KRISHNA T S
32	401-13442032	RESHMA J DEVAN
33	401-13442033	RUSANA A
35	401-13442035	SHEFINA VAHAB
37	401-13442037	SHIBI B S
38	401-13442038	SHIHANA ISSUHACK
39	401-13442039	SILPA S KUMAR
40	401-13442040	SOLY JAYAN
41	401-13442041	SRUTHI KUMAR
42	401-13442042	SUBIN S

43	401-13442043	THASNEEM H
44	401-13442044	VAISAKHI NAIR V S
45	401-13442045	VISHNU V NAIR
46	401-13442046	VRINDA C G
47	401-13442047	ANANTHA LEKSHMI S
48	401-13442048	BINDUJA R NAIR
49	401-13442049	DEEPIKA S
50	401-13442050	JAIN RAJ K S
51	401-13442051	RAKHI V R



Coordinator



HOD





CIVIL ENGINEERING DEPARTMENT

Semester : S6
Academic Year : 2015 - 2016

Programme Name : Documentation Tools
Handled By : Mr.Kailas S, Asst Prof., Dept of CE, VAST TC

ATTENDANCE SHEET

Sl No.	Name	Day	13/11/16	13/12/16	27/12/16	12/13/16	26/13/16	24/16
		Hr	12345	12345	12345	12345	12345	12345
1	ABHIJITH B		P	P	P	P	P	P
2	ABHIN ASHOK		P	P	P	P	P	P
3	ABHIRAMI VIJAY		P	P	P	P	P	P
4	ACHU PRANAV P		P	P	P	P	P	P
5	AHSANA A S		P	P	P	P	P	P
6	AISWARYA A S		P	P	P	P	P	P
7	ANAND BABU		P	P	P	P	P	P
8	ANANDHU		P	P	P	P	P	P
9	ANJALI B		P	P	P	P	P	P
10	ANJALI		P	P	P	P	P	P
11	APPU S		P	P	P	P	P	P
12	ARDRADERSH S		P	P	P	P	P	P
13	ARJUNAL D		P	P	P	P	P	P
14	ARUN SUDEV L		P	P	P	P	P	P
15	CHIPPY S ANIL		P	P	P	P	P	P
16	DATHAN		P	P	P	P	P	P
17	DIVYA S		P	P	P	P	P	P
18	FATHIMA M S		P	P	P	P	P	P
19	GEETHU KRISHNAN		P	P	P	P	P	P
20	JAI VISHNU		P	P	P	P	P	P

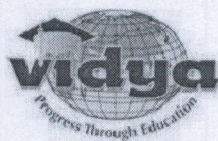
Sl No.	Name	Day	3d/1/16	13/2/16	27/2/16	03/16	26/2/16	27/4/16
		Hr	12345	12345	12345	12345	12345	12345
21	MEERA S		P	P	P	P	P	P
22	NIDHIN M		P	P	P	P	P	P
23	RANI KRISHNA T S		P	P	P	P	P	P
24	RESHMA J DEVAN		P	P	P	P	P	P
25	RUSANA A		P	P	P	P	P	P
26	SHEFINA VAHAB		P	P	P	P	P	P
27	SHIBI B S		P	P	P	P	P	P
28	SHIHANA ISSUHACK		P	P	P	P	P	P
29	SILPA S KUMAR		P	P	P	P	P	P
30	SOLY JAYAN		P	P	P	P	P	P
31	SRUTHI KUMAR		P	P	P	P	P	P
32	SUBIN S		P	P	P	P	P	P
33	THASNEEM H		P	P	P	P	P	P
34	VAISAKHI NAIR V S		P	P	P	P	P	P
35	VISHNU V NAIR		P	P	P	P	P	P
36	VRINDA C G		P	P	P	P	P	P
37	ANANTHA LEKSHMI		P	P	P	P	P	P
38	BINDUJA R NAIR		P	P	P	P	P	P
39	DEEPIKA S		P	P	P	P	P	P
40	JAIN RAJ K S		P	P	P	P	P	P
41	RAKHI V R		P	P	P	P	P	P

[Signature]

Co-ordinator



[Signature]
Head of Department



VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY
TECHNICAL CAMPUS, KILIMANOOR, THIRUVANANTHAPURAM

Assessment Procedure – Documentation Tools

The students of CE department underwent Documentation Tools course for 6 months. Students with 75% attendance were considered eligible to attend the exam. The Review Committee conducted objective type examination, maximum of 20 marks for 1 hour duration. Students who have scored 75% marks were given certificate of completion of the course.



- 1 A feature of MS Office that saves the document automatically after certain interval is called ____

a. Save b. Save As
☒ c. Auto Save d. Backup
- 2 Which feature is used to make selected sentence to All Capital Letters or All Small Letters ?

a. Change Letter b. Chance Sentence
☒ c. Change Case d. Change Word
- 3 We can start MS Word by typing _____ in the Run Dialog box.

a. winword.exe b. word.exe
c. msword.exe d. docx.exe
- 4 Name the application under MS Office software, that we use to create audio visual presentation.

a. MS Word b. MS Excel
☒ c. MS PowerPoint d. MS Access
- 5 We can apply border to _____

a. Cell b. Table
c. Paragraph ☒ d. All of these
- 6 By default Footers are printed on :

a. First Page B. Last Page
c. Even Pages ☒ d. All Pages
- 7 Which menu / group will we use if we want to change the typeface of selected text ?

a. Edit ☒ b. Format
c. View d. Tools
- 8 What does the Function Key - F12 do when you are using MS Office (Word, Excel, PowerPoint) ?

☒ a. Open 'Save As' Dialog Box b. Shows 'Open' Dialog Box
c. Display 'Save' Dialog Box d. Opens 'Font' Dialog Box
- 9 Which shortcut is used to select entire text ?

a. Ctrl + I ☒ b. Ctrl + A
c. Ctrl + S d. Ctrl + V
- 10 What is the shortcut key to search for any Spelling mistake on a document ?

a. F2 b. F5
c. F9 ☒ d. F7
- 11 What is the range of Font Size available in Font Size drop down toolbar ?

a. From 10 to Large 70 ☒ b. From 8 to Large 72
☒ c. From 5 to Large 75 d. From 10 to Large 100
- 12 The process of removing unwanted part of an image is called

a. Hiding b. Bordering
☒ c. Cropping d. Cutting
- 13 The space left between the margin and the start of a paragraph is called

a. Spacing b. Gutter
☒ c. Indentation d. Alignment

- 14 The PowerPoint view that displays only text (title and bullets) is
a. Outline view b. Notes page view
c. Slide sorter d. Slide show
- 15 How to select one hyperlink after another during a slide presentation ?
a. Ctrl + K b. Ctrl + H
c. Tab d. Ctrl + D
- 16 Special effects used to introduce slides in a presentation are known as ?
a. Effects b. Transitions
c. Custom animations d. Annotations
- 17 Which key can be used to view Slide show ?
a. F1 c. F3
b. F5 d. F7
- 18 A typical worksheet has Number of columns
a. 128 b. 256
c. 512 d. 1024
- 19 Which of the following formulas is not entered correctly?
a. =10+50 b. 10+50
c. . =10+50 d. . =B7+14
- 20 You can use the drag and drop method to
a. Copy cell contents b. Move cell contents
c. Add cell contents d. a and b

Name of Student :

Jai Krishna

Roll No:

26

Semester:

56

Marks Awarded: 20





VIDYA ACADEMY OF SCIENCE & TECHNOLOGY-TECHNICAL CAMPUS,KILIMANOOR

CIVIL ENGINEERING DEPARTMENT

Programme Name : Documentation Tools

MARKLIST

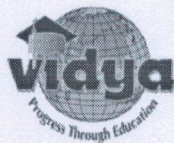
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2	ABHIN ASHOK	18
3	ABHIRAMI VIJAY	20
4	ACHU PRANAV P	20
5	AHSANA A S	20
6	AISWARYA A S	19
7	ANAND BABU	20
8	ANANDHU SATHEESAN	19
9	ANJALI B	20
10	ANJALI SALIMKUMAR	20
11	APPU S	19
12	ARDRADERSH S	16
13	ARJUNLAL D	17
14	ARUN SUDEV L	15
15	CHIPPY S ANIL	20
16	DATHAN CHANDRABABU	20
17	DIVYA S	16
18	FATHIMA M S	17
19	GEETHU KRISHNAN	20
20	JAI VISHNU	20
21	MEERA S	20
22	NIDHIN M	19
23	RANI KRISHNA T S	20
24	RESHIMA J DEVAN	18
25	RUSANA A	20
26	SHEFINA VAHAB	20
27	SHIBI B S	20
28	SHILIANA ISSUHAACK	18
29	SILPA S KUMAR	20
30	SOLY JAYAN	20
31	SRUTHI KUMAR	19
32	SUBIN S	20
33	THASNEEM H	20
34	VAISAKHI NAIR V S	20
35	VISHNU V NAIR	18
36	VRINDA C G	20
37	ANANTHA LEKSHMI S	17
38	BINDUJA R NAIR	20

Sl No.	Name	Marks (20)
39	DEEPIKA S	20
40	JAIN RAJ K S	18
41	RAKHI V R	20

Jithin
Co-ordinator

[Signature]
HOD





**VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL
CAMPUS, KILIMANNOOR, THIRUVANANTHAPURAM**

(A Unit of Vidya International Charitable Trust)

DEPARTMENT OF CIVIL ENGINEERING

SUMMARY REPORT ON ADD-ON PROGRAMME

DOCUMENTATION TOOLS

As part of Centre for Continuing Education, Department of Civil Engineering offered an add-on programme on Documentation Tools for Semester 6 students from 2013-2017 batch. The coordinator of the programme was Mr. Jithin Prem S. The details of the programme are given in the tabular form.

Sl. No	Name of The Programme	Date from- to	Duration	Number of Students Registered	Number of Students Benefited	Resource Person
1	Documentation Tools	30-01-2016 to 02-04-2016	30 Hours	41	41	Mr. Kailas S, Asst Prof, Dept of CE

Objectives	Outcomes
- To acquire the knowledge on the basic tools utilized for documentation purpose - To prepare students to use application software to solve engineering problems and increase efficiency in the workplace.	- The student will be able to apply the skills acquired from the course for the document preparation. - Understand the basics of softwares involved in the documentation procedure - The student will be able to create scientific and technical documents incorporating equations, images, tables, and bibliographies - Develop technical and scientific presentations which use charts and visual aids to share data.

The topics covered during Add on Programme as follows:

Microsoft Word : Page Layout, Fonts Group, Edit, Paragraph, Tables, Bullets and Numbering, View Tab, Wrap Text, Save and Save as, Print

Microsoft Powerpoint : Common Function, Insert Slide, Insert Taskbox, Design, Slide Number, View, Print, Slideshow, Insert Comments, Slide Master

Microsoft Excel : Page Layout , Fonts Group, Alignment, View Tab, Column Format, Sheet, Sort, Wrap, Merge and Format Cells, Header and Footer, Print Options

Certificates were given to students who participated in the programme and met the eligibility criteria.

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 E-mail : vasttc@vidyaacademy.ac.in | www.vidyatcklmr.ac.in





Vidya Academy of Science & Technology Technical Campus

(A unit of Vidya International Charitable Trust)

Approved by AICTE | Affiliated to APJAKTU

Malakkal P.O., Kilimanoor, Thiruvananthapuram - 695 602, Kerala, India

Certificate

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Abbijith B

Upon successful completion of Add-on Program on

DOCUMENTATION TOOLS

from 16/01/2016 to 02/04/2016

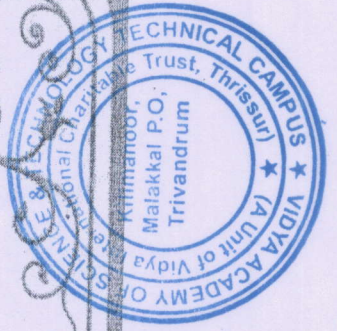
organized by Department of Civil Engineering,

Vidya Academy of Science and Technology Technical Campus, Kilimanoor.


Jithin Prem S
Coordinator


Prof. K Vijayakumar
HOD CE Dept.


Dr. V Ajayakumar
Principal





Vidya Academy of Science & Technology Technical Campus

(A unit of Vidya International Charitable Trust)
Approved by AICTE | Affiliated to APJAKTU

Malakkal P.O., Kilimanoor, Thiruvananthapuram - 695 602, Kerala, India

Certificate

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Anjali Salimkumar

Upon successful completion of Add-on Program on

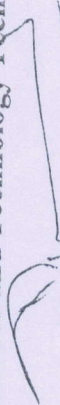
DOCUMENTATION TOOLS

from 16/01/2016 to 02/04/2016

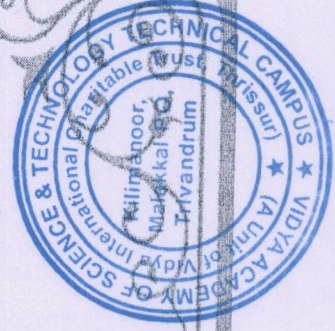
organized by Department of Civil Engineering,

Vidya Academy of Science and Technology Technical Campus, Kilimanoor.


Jithin Prem S
Coordinator


Prof. K Vijayakumar
HOD CE Dept.


Dr. V Ajayakumar
Principal



DEPARTMENT OF MECHANICAL ENGINEERING
VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL
CAMPUS, KILIMANOOR

(A Unit of Vidya International Charitable Trust)

Curriculum

For

Add On programme CATIA V5

2015-16



Malakkal P.O., Kilimanoor, Thiruvananthapuram, Kerala – 695602.

Tel: +91 470 2649574, 2649234, | Fax : +91 - 470-2649234 | Mob : 9447540982

E-mail : vasttc@vidyaacademy.ac.in | www.vidyatecklmr.ac.in

CATIA V5	Total Duration	Year of Conduction
	30 Hours	2015-16

Objective

To establish the scientific and regulatory basis of graphical representation in the general context of Industrial Engineering, as a means of expression and communication for the design, creation, definition and development of an industrial installation and/or product making practical use of the current technological means available, consistent with the scientific teaching framework and in response to technological evolution.

Course Outcome

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

- Familiar about part modelling techniques.
- Able to do part modelling and assembling of components.
- Use their capacity of vision to interpret and convey the technical information in an industrial drawing.
- Know and be able to apply graphical representation techniques using traditional metric geometry and descriptive geometry methods.
- identify, interpret and apply the current standards on Industrial Technical Drawing.
- Computer aided design applications that allow students to elaborate and use graphical and technical information

Assessment Pattern

There will be a practical examination (Part modelling) for fifty marks at the end of the course.

Duration - 1 hour.

Syllabus

- Introduction
- Sketcher
- Part modelling - Modelling of machined components
- 2D Drafting
- Wireframe modelling
- BIW templates
- Assembly and mechanism
- Project





VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
TECHNICAL CAMPUS, KILIMANOOR, THIRUVANANTHAPURAM
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DEPARTMENT OF MECHANICAL ENGINEERING
Add on Programme - CATIA V5 Training

Students List

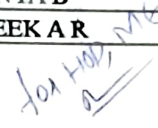
Semester : 6

Academic Year - 2015-16

Roll Number	Register No.	NAME
1	ME1301	AHLJITH B R
2	ME1302	AHINAND S
3	ME1303	AHIRAM B R
4	ME1304	AHISHEK H
5	ME1305	AJMAL T
6	ME1306	AKASH R S
7	ME1307	AKHIL S R NAIR
8	ME1308	AKHIL SIVAN
10	ME1309	AKHIL K UDAY
12	ME1312	AMAL B.S
13	ME1313	AMAL NAIR
14	ME1314	AMITH K.A
15	ME1315	ANANTHU.B NAIR
16	ME1316	ANAS S RASHEED
18	ME1317	ARJUN S K
19	ME1319	AROMAL SUDERSAN
20	ME1320	ARUN KRISHNAN
21	ME1321	ASHIK S
22	ME1322	BINYAMIN S
23	ME1323	BIPIN R S
24	ME1324	DURGADAS.B.R
25	ME1325	GOKUL JOSHY
26	ME1326	GOKUL KRISHNAN G
27	ME1327	HASHER MOHAMMED M
28	ME1328	HEMANTH.S
29	ME1329	IRFAN S
30	ME1330	JAYANTH KRISHNAN B
31	ME1331	JIJIN MOHAN
33	ME1333	KRISHNARAJ V
34	ME1335	NANDU B.S
36	ME1338	PRAHUDEV P S
37	ME1339	PRAVEEN
38	ME1340	RIYAS EBRAHIM
39	ME1341	ROBIN A KUMAR
40	ME1342	ROHIN R.U
41	ME1343	SATHYA NARAYANAN S P
42	ME1344	SHAROOQ SALAHUDEEN
43	ME1345	VAISAKH S
44	ME1346	VIKAS VALSAN MAVILA
46	ME1347	VISHNU S S
47	ME1349	VISHNU G
48	ME1350	VIVEK I VARMAN
49	ME1351	VYSHNAV AR

50	ME1353L	AKHIL RAJ R
51	ME1354L	ANOOP J
52	ME1355L	ATHUL M A
53	ME1356L	GREESHMA M S
55	ME1357L	KISHORE K
56	ME1358L	MAHESH T MOHAN
57	ME1359L	REJITH M R
58	ME1360L	SALIL RAJ S
59	ME1361L	SARANYA B
60	ME1362L	SHAFEEK A R


Coordinator

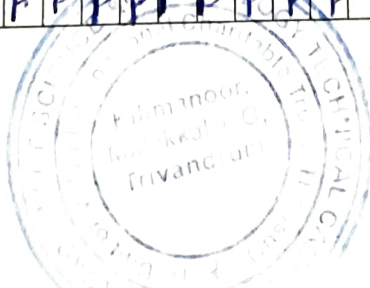

HOD





Semester : 6
Academic Year - 2015-16

Jan Feb March April

[illegible]**Head of Department**



**VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL
CAMPUS Kilimanoor, Thiruvananthapuram
"A Unit of Vidya International Charitable Trust"**

**DEPARTMENT OF MECHANICAL ENGINEERING
ADD-ON PROGRAMME- SUMMARY REPORT**

As part of the Centre for Continuing Education, Department of Mechanical Engineering offered an add-on programme on **CATIA V5** for Semester 6 students from the 2013-2017 batch. The details of the programme are given in the tabular form. The coordinator of the programme was Mr. Robin David.

The details of the programme are given in the tabular form.

Sl.No	Name of The Programme	Date from- to	Duration	Number of Students Registered	Number of Students Benefited	Resource Person
1	CATIA V5	09-01-2016 To 16-04-2016	30 Hours	53	53	Mr.Robin David

Objectives	Outcomes
To establish the scientific and regulatory basis of graphical representation in the general context of Industrial Engineering, as a means of expression and communication for the design, creation, definition and development of an industrial installation and/or product making	- Familiar about part modelling techniques. - Able to do part modelling and assembling of components. - Use their capacity of vision to interpret and convey the technical information in an industrial drawing. - Know and be able to apply graphical representation techniques using traditional metric geometry and descriptive geometry methods.

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Tel: +91 470 2649574, 2649234, | Fax : +91 - 470-2649234 | Mob : 9447540982 .
E-mail :vasttc@vidyaacademy.ac.in| www.vidyatecklmi.ac.in

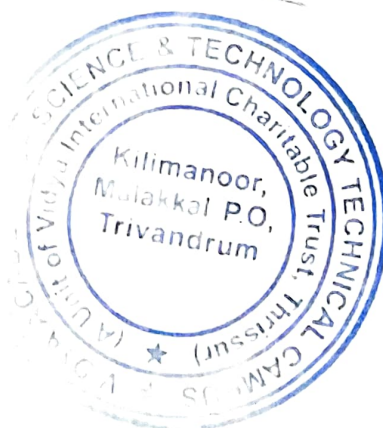
practical use of the current technological means available, consistent with the scientific teaching framework and in response to technological evolution.

- Computer aided design applications that allow students to elaborate and use graphical and technical information

The topics covered during Add on Programme are as follows:

Introduction to CATIA, History, Basics, GUI, Use of mouse buttons, Sketcher, constraints, profile, setting workbench, Standard toolbar, how to open sketcher, sketch details and important toolbar for sketch, Profile toolbar, Types of constraints, constraint application, constraint colour, Sketch constraint, view toolbar, Operation toolbar, Specification tree use, selecting toolbars, sketch toolbar, Visualisation toolbar, Toolbar setting, plane size setting, graphics properties toolbar.

Certificates were given to students who participated in the programme and met the eligibility criteria.



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

**VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL
CAMPUS, KILIMANOOR**

(A Unit of Vidya International Charitable Trust)

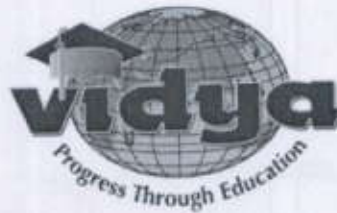
Curriculum

For

Add- On programme (CCTV Installation)

Semester VI

2016



Malakkal P.O., Kilimanoor, Thiruvananthapuram, Kerala – 695602.

Tel: +91 470 2649574, 2649234, | Fax : +91 - 470-2649234 | Mob : 9447540982

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SEMESTER 7

CCTV Installation and Networking	Total Duration	Year of conduction
	35	2016

Course Objectives

To give an overview of

1. Installation of CCTV including DVR, harddisk and its power supply
2. Networking for remote viewing

Prerequisite

A desire to learn.

Course Outcome

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

- Skills that will help you enter the booming security industry and get well paid job. Security is rapidly shifting from old CCTV and Alarm Systems to IP Network based systems.
- How CCTV cameras work, how to calculate focal length required for your surveillance objective, camera parameters. Understand advanced function concepts and Pointers.
- Setup of DVRs with HD cameras, use of 2MP, 3MP, 5MP or 8MP (4K - Ultra HD) cameras,

Assessment Pattern

There will be an examination with both descriptive as well as MCQ questions for thirty marks at the end of the course. Total numbers of questions are 20 and the duration is 1 hour. The certificates shall be issued to those students who have attended the programme with minimum 75% attendance and scored minimum 60% marks in the test.

Syllabus

Session I

- Basics of CCTV
- How to Power CCTV Cameras
- How CCTV Camera Works
- Difference between Analogue, HD and IP Cameras
- Examples of Old and New Cameras

- CCTV Storage, DVR & NVR with HDD

Session II

- Basics of IP Networks
- LAN and WAN Networks
- Ethernet Cable - How Devices Connect on Networks
- IP addresses - What They Are and How They Work
- Ports in IP/TCP - What They Are and How we Use Them
- DNS in IP Networks, What It Is and How we Use It
- Routers and Switches, What They Are and How we Use Them in IP CCTV
- PoE - What It Is and How we Use It in IP CCTV
- How to Use CMD - Command Prompt on Your Computer

Session III

- IP Camera systems
- Types of IP Cameras
- IP Camera - Video Quality Contributors
- IP Cameras - How to Program Them

Session IV

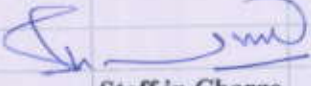
- Video Recording
- How NVR Works
- NVR Types
- Network Video Recorder Setup and Programming
- Adding IP Cameras to NVR
- Live Programming of HIKVISION NVR Part 1 (monitor view)
- Live Programming of HIKVISION NVR Part 2 (monitor view)

Session V

- Video Management
- VMS - IC RealTime VMS : Smart IC RSS - First Steps
- VMS - Hikvision : iVMS 4200 - Installation Only
- VMS - Hikvision : iVMS 4200 - First Steps


HoD



VIDYA ACADEMY OF SCIENCE & TECHNOLOGY		
TECHNICAL CAMPUS, KILIMANOOR		
Students List		
Add on Course on CCTV Installation		
Roll No:	Univ Reg No:	Name
1	412-13442001	ABHA M L
2	412-13442002	ASWATHY NAKULADAS
3	412-13442003	DEVIKA R S
4	412-13442004	HARIKRISHNAN R S
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13	412-13442014	VIGNESH A
14	412-13442015	VINEETH B S
15	412-13442016	AKHIL A L
16	412-13442017	ARUN CC
17	412-13442018	ARYA C
 Staff in Charge		 HOD





VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL CAMPUS KILIMANOOR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ATTENDANCE FOR ADD ON COURSE ON CCTV INSTALLATION (FROM 9th Jan 2016 to 6th Feb 2016)

Roll No:	Univ Reg No:	Name	09-01-2016	10-01-2016	23-01-2016	24-01-2016	06-02-2016
1	412-13442001	ABHA M L	P	P	P	A	P
2	412-13442002	ASWATHY NAKULADAS	P	P	P	P	P
3	412-13442003	DEVIKA R S	P	A	P	P	P
4	412-13442004	HARIKRISHNAN R S	P	P	P	P	P
5	412-13442005	KIRAN MOHAN	P	P	P	P	P
6	412-13442006	MOHAMMED LIHAS A	P	A	P	P	P
7	412-13442007	PRINCY PS	P	P	P	P	P
8	412-13442008	REESHMANATH V	P	P	P	P	P
9	412-13442010	SAJANA S	P	P	P	P	P
10	412-13442011	SARIGA B N	P	P	P	P	P
11	412-13442012	SNEHA A S	P	P	P	P	P
12	412-13442013	SRUTHI S SUNIL	P	P	P	P	P
13	412-13442014	VIGNESH A	P	P	P	P	P
14	412-13442015	VINEETH B S	P	P	P	P	P
15	412-13442016	AKHIL A L	P	P	P	P	P
16	412-13442017	ARUN CC	P	P	A	P	P
17	412-13442018	ARYA A	P	P	P	A	P

Staff in Charge

HOD



**VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL CAMPUS
KILIMANOOR, THIRUVANANTHAPURAM-695602**

(A Unit of Vidya International Charitable Trust)

DEPARTMENT OF ELECTRONIC AND COMMUNICATION ENGINEERING

Add- On Course: 2015-16 Academic Year

MCQ Test

CCTV Installation

ASSESSMENT QUESTIONS

1. What does CCTV stand for? (1 mark)

Closed Circuit Television

2. What is the NTSC and PAL system? (2 marks)

NTSC stands for National Television Standards Committee. It is the colour video signal television standard: 525 lines, 60Hz PAL stands for Phase Alternate Line. It is the colour video signal television standard: 625 lines, 50Hz

3. How does focal length affect angle of view? (2 marks)

Focal length is measured in mm. A short focal length (e.g. 3.6mm) represents a wide angle of view while a long focal length (16mm) represents a narrow angle of view.

4. What is a Day and Night Camera? (2 marks)

Day and night cameras are cameras that are able to provide video surveillance even at low levels of illumination. A day and night camera displays a full colour image during the daytime but produces monochrome (Black and white) video images at times when the lighting is poor. The camera has a device that is sensitive to the surrounding light conditions and switches the camera between colour and black & white modes automatically. It is designed to increase its light sensitivity in poor lighting conditions and at the same time reduce noise level in the images. However, the day and night camera will fail if the illumination (Lux) level is too low.

5. What is CCTV DVR? (1 mark)

DVR is an abbreviation for Digital Video Recorder, its main function is to compress images recorded from the cameras into a particular image compression format and store them.

6. What is the difference between a simplex DVR and a duplex DVR? (2 marks)

A simplex DVR only performs one task at a time. The DVR cannot playback recorded videos when it is recording, it can only do so when the recording is stopped. A duplex DVR is able to playback recorded footage without having to stop recording. Recording is uninterrupted and taking place concurrently as you playback the recorded videos

7. What is the term frames per second (fps)? (1 mark)

Frames per second (fps) relates to how many pictures the DVR can record in a second. Real time recording is about 30 fps. To calculate the fps per camera, take the total fps that the system could offer and divide it by the number of video inputs. For example, a 100 fps DVR with 4 video inputs would give u $100/4$, 25fps per camera.

8. What is the name of the device that allows four surveillance camera images to be viewed on a monitor at the same time? (1 mark)

- a. A video splitter
- b. A modulator
- c. **A quad switcher**
- d. A photoelectric sensor

9. Which type of jack is required to be installed to allow the security system to seize the line when an alarm condition exists? (1 mark)

- a. RJ-11x
- b. RJ-45
- c. RJ-12
- d. **RJ-31x**

10. Which TIA/EIA standard describes the requirements for residential security system cabling? (1 mark)

- a. 568-A
- b. 568-B
- c. **570-A Addendum 1**
- d. 570-A Addendum 3

11. What is the term used to describe the amount of light required to obtain a reasonable image with a surveillance video camera? (1 mark)

- a. **Lux rating**
- b. Candlepower rating
- c. Resolution
- d. Pixels

12. How many wires are normally required for connecting a passive sensor to the control panel? (1 mark)

- a. 1
- b. 4
- c. 2
- d. 3

13. Which type of sensor is used for door installations? (1 mark)

- a. PIR
- b. Contact sensor
- c. Active
- d. **Magnetic switch**

14. Which types of cable are used when installing video surveillance components? (1 mark)

- a. RG-6 and RG-58
- b. RG-8 and RG-59
- c. **RG-59 and RG-6**
- d. RG-59 and RG-58

15. What is the minimum separation required between security wiring and AC power wiring when they are installed in parallel wire runs?

- a. 18"
- b. 2 feet
- c. 6"
- d. **12"**

16. Which type of sensor is used for door installations?

- a. PIR
- b. Contact sensor
- c. Active
- d. **Magnetic switch**

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- a. **Lux rating.**
- b. Candlepower rating
- c. Resolution
- d. Pixels



VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
TECHNICAL CAMPUS, KILIMANNOOR

Add on Course on CCTV Installation

Roll No:	Univ Reg No:	Name	Marks (25)
1	412-13442001	ABHA M L	30
2	412-13442002	ASWATHY NAKULADAS	29
3	412-13442003	DEVIKA R S	30
4	412-13442004	HARIKRISHNAN R S	30
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15	412-13442016	AKHILA L	26
16	412-13442017	ARUN CC	30
17	412-13442018	ARYA C	30

[Signature]
Staff in charge

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HoB





**VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL
CAMPUS, KILIMANOOR**

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

SUMMARY REPORT ON ADD-ON PROGRAMME

CCTV Installation

As a part of continuing education, the Department of Electronics and Communication Engineering conducted an Add-On Programme on CCTV installation for the 6th Semester students (2013-17 Batch). The coordinator of the programme was Mr. Muhammed Anshad PY. The details of the programme are given in the tabular form

Sl.No	Name of The Programme	Date from- to	Duration	Number of Students Registered	Number of Students Benefited	Resource Person
1	CCTV Installation	09-01-2016 to 06-02-2016	35 Hours	17	17	Mr. Muhammed Anshad PY

Objective	Outcome
To provide comprehensive information about installation of IP Camera System. The course included basics of CCTV, basics of IP Network, IP Camera system, video Recording and video management.	- The students will learn skills that will help them to enter the booming security industry - Get a well paid job. - To understand basics of IP Networks required to work with IP Camera Systems: - Ethernet connections, IP addresses, ports, routers and switches

Certificates were given to students who participated in the programme and met the eligibility criteria.

The topic of the add on course is as follows

Syllabus

Session I

- Basics of CCTV
- How to Power CCTV Cameras
- How CCTV Camera Works
- Difference between Analogue, HD and IP Cameras
- Examples of Old and New Cameras
- CCTV Storage, DVR & NVR with HDD

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- PoE - What It Is and How we Use It in IP CCTV
- How to Use CMD - Command Prompt on Your Computer

Session III

- IP Camera systems
- Types of IP Cameras
- IP Camera - Video Quality Contributors
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- Video Recording
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- NVR Types
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- Live Programming of HIKVISION NVR Part 1 (monitor view)
- Live Programming of HIKVISION NVR Part 2 (monitor view)

Session V

- Video Management
- VMS - IC RealTime VMS : Smart IC RSS - First Steps

- VMS - Hikvision : iVMS 4200 - Installation Only
- VMS - Hikvision : iVMS 4200 - First Steps





VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL CAMPUS, KILIMANNOOR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Certificate

This certificate is hereby presented to

HARIKRISHNAN R S

on the successful completion of add on
course on CCTV Installation of duration 35
hours from 9th January 2016 to 6th
February 2016 conducted by Department of
Electronics and Communication
Engineering, VAST TC

Coordinator

HoD ECE

Principal



 VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY
TECHNICAL CAMPUS, KILIMANNOOR

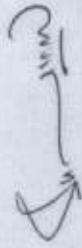
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Certificate

This certificate is hereby presented to

SARIGA B.N

on the successful completion of add on
course on CCTV Installation of duration 35
hours from 9th January 2016 to 6th
February 2016 conducted by Department of
Electronics and Communication
Engineering, VAST TC



Coordinator



HoD ECE



Principall

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
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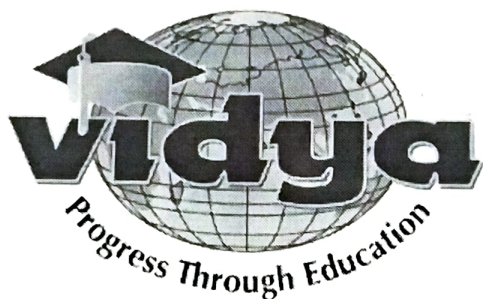
Curriculum

For

Add -On programme (PROGRAMMING IN C)

Semester V

2015



Malakkal P.O., Kilimanoor, Thiruvananthapuram, Kerala – 695602.

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E-mail :vasttc@vidyaacademy.ac.in| www.vidyatcklmr.ac.in

SEMESTER 5
PROGRAMMING IN C

Course Objectives:

1. To understand the fundamental concept of C programming.
2. Use it in problem solving (intermediate level).

Prerequisite

Basic knowledge of the C programming language.

Course Outcome

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

- Understand and be able to apply basic concepts of the C programming language to create basic C applications.
- Understand advanced function concepts and Pointers.
- Understand debugging and compiler options.
- Be able to apply advanced C concepts to other programming languages.

Assessment Pattern

There will be an MCQ examination for thirty marks at the end of the course. Total numbers of questions are 20 and the duration is 45 min. Students should have minimum 75 % attendance for sessions and minimum 60% marks for certificates.

Syllabus

CONTENT		HOUR
UNIT-1	Introduction: Variables, Data types, constants, declaration, operators in C. Type converters, expression, precedence and associativity, order of evaluation, header files and preprocessor directives.	10
UNIT-2	Control statements: conditional statements, repetitive statements, Break, Continue. Functions: Basics, return, recursive.	10
UNIT-3	Array: 1D- searching, sorting, 2D- matrix operations, string, string handling functions. Pointers: Basics of pointers, pointer to a function, array of pointers, file pointers	12

Lab facility was provided for students for hands-on sessions.



HoD

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY		
TECHNICAL CAMPUS, KILIMANNOOR		
Students List		
Add on Course on Programming in C		
Roll No:	Univ Reg No:	Name
1	412-13442001	ABHA M L
2	412-13442002	ASWATHY NAKULADAS
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5	412-13442005	KIRAN MOHAN
6	412-13442006	MOHAMMED LIHAS A
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11	412-13442012	SNEHA A S
12	412-13442013	SRUTHI S SUNIL
13	412-13442014	VIGNESH A
14	412-13442015	VINEETH B S
15	412-13442016	AKHIL A L
16	412-13442017	ARUN CC
17	412-13442018	ARYA C


Staff in Charge


HoD





VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL CAMPUS KILIMANNOOR
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ATTENDANCE FOR ADD ON COURSE ON C Programming (From 22nd August 2015 to 19th September 2015)

Roll No:	Univ Reg No:	Name	22-08-2015	23-08-2015	11-09-2015	12-09-2015	18-09-2015	19-09-2015
1	412-13442001	ABHAM L	P	P	P	P	P	P
2	412-13442002	ASWATHY NAKULADAS	P	P	P	P	P	P
3	412-13442003	DEVIKA R S	P	P	P	P	P	P
4	412-13442004	HARIKRISHNAN R S	P	P	P	P	P	P
5	412-13442005	KIRAN MOHAN	P	P	P	P	P	P
6	412-13442006	MOHAMMED LIHAS A	P	P	P	P	P	P
7	412-13442007	PRINCY PS	P	P	P	P	P	P
8	412-13442008	REESHMANATH V	P	P	P	P	P	P
9	412-13442010	SAJANA S	P	P	P	P	P	P
10	412-13442011	SARIGA B N	P	P	P	P	P	P
11	412-13442012	SNEHA A S	P	P	P	P	P	P
12	412-13442013	SRUTHI S SUNIL	P	P	P	P	P	P
13	412-13442014	VIGNESH A	P	P	P	P	P	P
14	412-13442015	VINEETH B S	P	P	P	P	P	P
15	412-13442016	AKHILA L	P	P	P	P	P	P
16	412-13442017	ARUN CC	P	P	P	P	P	P
17	412-13442018	ARYA C	P	P	P	P	P	P

Staff in Charge

HOD





**VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL
CAMPUS KILIMANNOOR, THIRUVANANTHAPURAM-695602**

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DEPARTMENT OF ELECTRONIC AND COMMUNICATION ENGINEERING

Add- On Course: 2015-16 Academic Year

MCQ Test

Programming in C

1. What is the output of the below code snippet? (1 mark)
 - A) Infinite loop
 - B) B - Prints "Hello" once.
 - C) No output
 - D) Compile error**
2. Which of the following functions disconnects the stream from the file pointer. (1 mark)
 - A - fremove()
 - B - fclose()**
 - C - remove()
 - D - file pointer to be set to NULL
3. In C programming language, a function prototype is a declaration of the function that just specifies the function's interface (function's name, argument types and return type) and extracts the body of the function. By defining the function, we get to know what action a particular function is going to perform. (1 mark)
 - A - True**
 - B - False
4. For a structure, if a variable behave as a pointer then from the given below operators which operator can be used to access data of the structure via the variable pointer? (1 mark)
 - A - .
 - B - %
 - C - ->
 - D - #**

9. Which of the following comment is correct when a macro definition includes arguments? (1 mark)
- a) **The opening parenthesis should immediately follow the macro name.**
 - b) There should be at least one blank between the macro name and the opening parenthesis.
 - c) There should be only one blank between the macro name and the opening parenthesis.
 - d) All the above comments are correct.
10. What is the output of this statement "printf("%d", (a++))"? (1 mark)
- a) The value of (a + 1)
 - b) **The current value of a**
 - c) Error message
 - d) Garbage
11. What is the output of the following program? (1 mark)

```
#include<stdio.h>

main()
{
    int a[] = {1,2}, *p = a;
    printf("%d", p[1]);
}
```

A - 1; **B-2** ; C- Compile Error; D- Runtime Error

12. How many times the while loop is executed if a short int is 2 byte wide? (1 mark)

```
#include<stdio.h>

int main()
{
    int j=1;

    while(j <= 255)
    {

        printf("%c %d\n", j, j);

        j++;
    }
}
```


B. Integer

C. **Float**

D. enum

16. In which header file is the NULL macro defined? (1 mark)

A. stdio.h

B. stddef.h

C. **stdio.h and stddef.h**

D. math.h

17. If a variable is a pointer to a structure, then which of the following operator is used to access data members of the structure through the pointer variable? (1 mark)

A. .

B. &

C. *

D. ->

answer-D

18. If the two strings are identical, then strcmp() function returns (1 mark)

A. -1

B. 1

C. **0**

D. Yes

19. How will you print `\n` on the screen? (1 mark)

A. `printf("\n");`

B. `echo "\\n";`

C. `printf('\n');`

D. **`printf("\\n");`**

20. Which of the following function is used to find the first occurrence of a given string in another string? (1 mark)

A. `strchr()`

B. `strrchr()`

C. **`strstr()`**

D. `strnset()`



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Add on Course on Programming in C			
Roll No:	Univ Reg No:	Name	Marks
1	412-13442001	ABHA M L	28
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5	412-13442005	KIRAN MOHAN	29
6	412-13442006	MOHAMMED LIHAS A	26
7	412-13442007	PRINCY PS	28
8	412-13442008	REESHMANATH V	27
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11	412-13442012	SNEHA A S	25
12	412-13442013	SRUTHI S SUNIL	25
13	412-13442014	VIGNESH A	29
14	412-13442015	VINEETH B S	25
15	412-13442016	AKHIL A L	25
16	412-13442017	ARUN CC	30
17	412-13442018	ARYA C	29


Staff in Charge


HoD





**VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL
CAMPUS, KILIMANOOR**

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

A SUMMARY REPORT ON ADD-ON PROGRAMME

Programming in C

As a part of continuing education, the Department of Electronics and Communication Engineering conducted an Add-On Programme on C Programming for the 5th Semester students (2013-17 Batch). The coordinator of the programme was Mr. Rajesh. G.R. The details of the programme are given in the tabular form

Sl.No	Name of The Programme	Date from- to	Duration	Number of Students Registered	Number of Students Benefited	Resource Person
1	Programming in C	22-08-2015 to 19-09-2015	32 Hours	17	17	Mr. Rajesh GR

Objective	Outcome
• To make the students understand the basic concepts of C programming together with developing a problem solving capability. • The students could apply basic concepts of the C programming language to create basic C applications	• Develops strong programming fundamentals for learners who want to solve complex problems by writing computer programs. • Get a well paid job. • To develop algorithms in a systematic way and read and write the C code to implement them. • Prepare students to pursue a career in

and understand the basic concepts of pointers. • to understand the debug and compiler options.	software development or other computational fields.
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The topic of the add on course is as follows

CONTENT		HOUR
UNIT-1	Introduction: Variables, Data types, constants, declaration, operators in C. Type converters, expression, precedence and associativity, order of evaluation, header files and preprocessor directives.	10
UNIT-2	Control statements: conditional statements, repetitive statements, Break, Continue. Functions: Basics, return, recursive.	10
UNIT-3	Array: 1D- searching, sorting, 2D- matrix operations, string, string handling functions. Pointers: Basics of pointers, pointer to a function, array of pointers, file pointers	12

Certificates were given to students who participated in the programme and met the eligibility criteria.





VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL CAMPUS, KILIMANOOR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Certificate

This certificate is hereby presented to

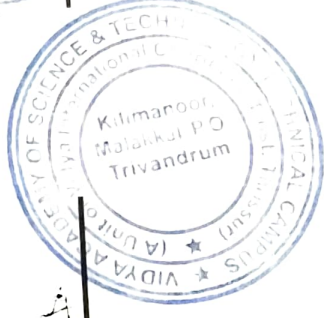
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on the successful completion of add on
course on Programming in C of duration 32
hours from 22nd August 2015 to 19th
September 2015 conducted by Department
of Electronics and Communication
Engineering, VAST TC

Coordinator

HoD ECE

Principal





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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Certificate

This certificate is hereby presented to

ASWATHY NAKULADAS

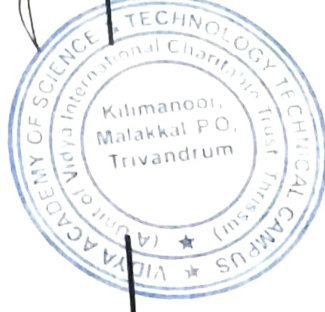
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Coordinator



HoD ECE



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