

Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL INDRA GANESAN COLLEGE OF ENGINEERING





DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2018-2019 / EVEN SEMESTER

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

VAC Title:	RASPBE	PBERRY PI							
Resource Person: Mrs.Shalom Jerlin, Technical Head, Mr.R.Hemnath Trainer, Hitakey Infosys, Trichy									
Date of cond	uct from:	17.06.2019	1	To:	21.06.2019		Duration:	30 Hours	
Organized D	Organized Department: ELECTRONICS AND COMMUNICATION ENGINEERING								
Participant Year: ECE IV, III, II Semester: EVEN					No.	of Students 1	Registered:	72	
Venue: DSP Lab									

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Department of Electronics and Communication Engineering

Academic Year 2018-2019 - EVEN Semester

10.06.2019

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering in association with Hitakey Infosys, is going to organize Value Added Course for all Second, Third and Final year students on "RASPBERRY PI" from 17.06.2019 to 21.06.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Venue	DSP lab and Optical Lab, ECF		
- And the second	Trichy		
	Hitakey Infosys,		
	Trainer,		
Resource Person Detail	2. Mr.R.Hemnath,		
	Trichy		
	Hitakey Infosys,		
	Technical Head,		
	1. Mrs.Shalom Jerlin,		

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year ECE Students
- Office File
- Notice Board

PRICIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012,



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Value Added Course

"RASPBERRY PI"

SYLLABUS

S.NO		DURATION (in hours)	DATE
1	Introduction to RASPBERRY PI, Versions of Raspberry Pi and their differences, Raspberry Pi B+	3	17.06.2019
2	Preparing SD card for OS installation, Download image	3	17.06.2019
3	First time configuration using whole SD card, whole screen, Changing time zone	3	18.06.2019
4	Setting up using GUI, Setting up using command line, Finding Pi's IP address, GPIO setup	3	18.06.2019
5	Raspberry Pi using secure shell, putty test and configure, PI over VNC, Installing VNC, Configuring VNC, Running VNC at startup	3	19.06.2019
6	Test and configure LINUX, Understanding Linux, File structure, Linux commands, Permissions	3	19.06.2019
7	Python Essentials, Interpreted languages, Variables, Keywords, Operators and operands, Data types	3	20.06,2019
	Flow control, Condition statement, Loops, Importing libraries, Functions, Classes	3	20.06,2019
9	Accessing SMTP inbox using Python, Manipulating GPIO pins using Python, Making Raspberry Pi- a web server, Apache installation	3	21.06.2019
	Configuring and deploying Apache, Hosting a website, Hosting a blog on Raspberry Pi, Home automation using Raspberry Pi	3	21.06.2019
1 1	Exam	1	21.06.2019
	Total Hours (Excluding Exam)	30	under debut de la companyone

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VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



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Value Added Course

"RASPBERRY PI"

STUDENTS PARTICIPATION LIST

S.NC	REG NO	STUDENTS NAME	YEAR/ BRANCH
1	811215106002	Abinethri.J	IV/ECE
2	811215106004	Anitha.B	IV/ECE
3	811215106007	Balaji.S	IV/ECE
4	811215106008	BarjanaBarveen.N	IV/ECE
5	811215106009	Bhagya.D	IV/ECE
6	811215106010	Dhivyapriya.S	IV/ECE
7	811215106011	FairoseBegum.A	IV/ECE
8	811215106012	Farsana.K	IV/ECE
9	811215106013	Gomathi.M	IV/ECE
10	811215106014	HabeebBanu.M	IV/ECE
11	811215106015	Hemalatha.K	IV/ECE
12	811215106016	JaheerHussain.K	IV/ECE
13	811215106017	JancyRani.K	IV/ECE
14	811215106018	Jayasri.A	IV/ECE
15	811215106019	Juliet Vanitha.S	IV/ECE
16	811215106020	Kalaiselvi.R	IV/ECE
17	811215106021	Karthick.R	IV/ECE
18	811215106023	Krishnaveni.K	IV/ECE
9	811215106024	Madhu.M	IV/ECE
20	811215106025	Malarvizhi.R	IV/ECE
1	811215106026	Manikandan.S	IV/ECE
2	811215106027	Meena.V	IV/ECE
3	811215106028	MohamedYasin.M	IV/ECE
4	811215106029	Nandhini.R	IV/ECE
5	811215106030	NasithaBanu.S	IV/ECE
6	811215106032	Prabhu.M	IV/ECE
7	811215106033	Priya.K	IV/ECE
8 8	311215106034	Priya.M	IV/ECE
9 8	311215106035	Priyadharshini.K	IV/ECE
0 8	311215106037	Rafeek.M	IV/ECE
1 8	111215106038	Rajapalikhan. K	IV/ECE
2 8	11215106039	Ramya.G	IV/ECE
3 8	11215106040	Sachin.R	IV/ECE
8	11215106042	Saraswathi.A	IV/ECE

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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
35	811215106043	Saraswathi.R	IV/ECE
36	811215106044	Shalini.G	IV/ECE
37	811215106045	Subramani.M	IV/ECE
38	811215106046	SujiEvangelinJasmine.S	IV/ECE
39	811215106048	Surya.N	IV/ECE
40	811215106049	Vijay.G	IV/ECE
41	811215106050	Sathya.R	IV/ECE
42	811216106001	AbarnaT	III/ECE
43	811216106002	AmsavalliS	III/ECE
44	811216106003	AnushyaS	III/ECE
45	811216106004	Arockia NivethaS	III/ECE
46	811216106005	AshefaN	III/ECE
47	811216106006	DhanalakshmiT	III/ECE
48	811216106008	FeminaBegum A	III/ECE
49	811216106009	GayathriJ	III/ECE
50	811216106010	Joysefshiba J	III/ECE
51	811216106011	Keerthana P	III/ECE
52	811216106012	Keerthana S	III/ECE
53	811216106013	Keerthika D	III/ECE
54	811216106014	Lathasri S	III/ ECE
55 8	311216106015	Menaka R	III/ ECE
6 8	311216106016	Mithra P	III/ ECE
7 8	311216106017	Mohan Raj S	III/ ECE
8 8	311216106018	Nilavar Nisha F	III/ ECE
9 8	311216106019	Pavithra P	III/ ECE
0 8	11216106020	Pavithra V	III/ ECE
1 8	11216106021	Prabhu A	III/ ECE
2 8	11217106001	Aishwariya S	II/ECE
3 8	11217106002	Aneesha A	II/ECE
4 8	11217106003	Deepika B	II/ECE
5 8	11217106004	Durga D	II/ECE
6 8	11217106005	Gangadevi M	II/ECE
7 8	11217106006	Janan iC	II/ECE
8 8	11217106009	Karthick K	II/ECE
9 8	11217106010	Kosiananth R	II/ECE
8	11217106011	Lakshmi M	II/ECE
1 8:	11217106012	Manikandan M	II/ECE
	1217106013	Mekala Devi S	II/ECE

Kry

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

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Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.

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COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDeihi & Affiliated to Anna University, Chennal

			Report on \	Value	Ad	ded Co	urse	ig different in Stepen påd grade og gjörfert men å en medlem del skille bygren del	
Title:	RASP	BERR	Y DI.	7700 2 30 30					
Resource Person: Mrs.Shalom Jerlin, Technical Head, Hitakey Infosys, Trichy				Mr.R.Hemnath, Trainer, Hitakey Infosys, Trichy					
Date of co	onduct fr	om:	17.06.2019	To:	21.06	.2019	Duration:	30 Hours	N PP reliabilitation through the
Organized:	l Departr	nent	ELECTRONICSAN	VD COM	IMUNI	CATION E	NGINEERING	<u> </u>	httl://witidific.com/upin/enegan.upip
Participan	t Year:	2, 3,	4		***************************************	No. of Str	idents Registe	ered : 72	Midsanddanharpan og Magens, pe og
Venue:	DSP LA	B and	Optical Lab,ECE	r		<u></u>	entergranden — "Aprille george entergrand	mes de un servicio	
Outcome	of Val	ie Ad	ded Course (VAC	C): At	the en	d of the C	ourse, Stud	ents can ab	ole to
 Kn Exj Kn Dat 	ow the vow the Splain the Cow the Esta types	ersion etting u installe ssentia	s of Raspberry Pi and up using GUI, Setting ation of VNC and could be of Python, Interpreted of Raspberry Pi as a set of	nd their tup using infigurati ted langu	difference g common of Linguistry ages, V	nces and line, Fi INUX	nding Pi's IP a	ldress	
DC	velop no	State and the state of the stat	omation using Raspbe Assessment Proce					wayyyaarida afiiddddddiw e el la w	-
attendan	ce is eligore $= (0.5)$	re sec	curing more than oreceive the certific endance in VAC ou	60% o	he VA	C course co	onducted		1
KNY AC Coordin	nator	Partition	N	Dece	e 6 9	尽		Principal	277

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

SAMPLE PHOTOS OF VAC ON RASPBERRY PI

Title:

"RASPBERRY PI"

Resource Person:

Mrs.Shalom Jerlin,

Technical Head,

Hitakey Infosys,

Trichy

Mr.R.Hemnath,

Trainer,

Hitakey Infosys.

Trichy

Date of conduct from:

17.06.2019

To:

21.06.2019

Duration:

30 Hours

Organized Department: Electronics and Communication Engineering

2,3,4

No. of Students Registered:

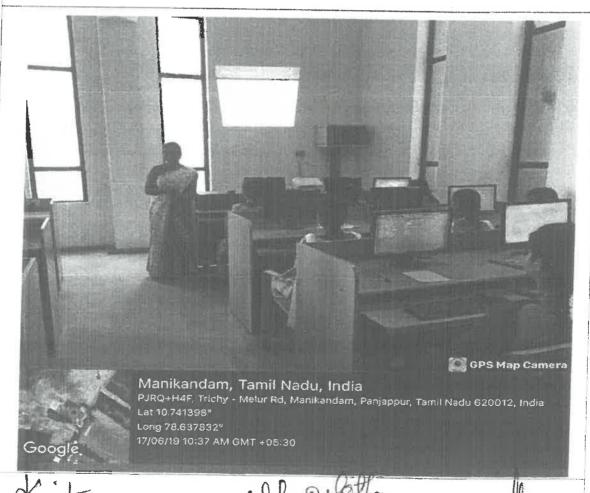
72

Venue:

DSP lab and Optical Lab, ECE

Sample Photos

Participant Year:



VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Value Added Course

"RASPBERRY PI"

Name of the Student:

Year/Sem:

AU Register Number:

Value Added Course

"RAS	SPBERRY PI"
MULTIPLE CHOICE	OUESTIONS (25X1 = 25 Marks)
1. The Raspberry Pi is defined as the?	
a) Mini computer	b) Micro Computer
c) Mega Computer	d) Nano Computer
2.Raspberry Pi consists of a quad-core pro-	cessor or micronrocessor
a) 16-bit	b) 32-bit
c)64-bit	d)128-bit
3. Which of the following is true?	
) It was developed to encourage basic learning for
software applications.	computer science studentsand other growing
	countries.
c) It promotes Scratch and Python	d) All of the above
as the chief programming language	d) An of the above
4. How much RAM, the Raspberry Pi has?	
a) 2GiB of RAM	b) 1GiB of RAM
c)4GiB of RAM	d)8GiB of RAM
5. How many Input / Output pins on board Ra	
a)20	b) 30
c)40	d) 50
6. Which of the following is a not type of Ras	
a)Raspberry Pi Alternatives	b) Raspberry Pi Zero W
c)Raspberry Pi 3 Model B+	d)Raspberry Pi 3 Model A+
7. Which operating system Raspberry Pi has?	a)raspoorly 115 1410dol111.
a)Linux	b) Open BSD
c)Net BSD	d)All of the above Dr. G. Balakrishnan, M.E., Ph.D.,
8. Does Raspberry Pi need external hardware?	Principal
a)TRUE	b) FALSE Indra Ganesan College of Engineering
c)Can be true or false	d)Cannot say IG Valley, Madurai Main Road
9. What do we use to connect TV to RPi?	Manikandam, Trichy-620 012.
a)Male HDMI	b) Female HDMI
c)Male HDMI and Adapter	d) Female HDMI and Adapter
10. What are the parameters that are default va	lues?
a)Port Name and Bits	b) Speed and Port Names
c) Speed and Parity	d) Stop bit and Flow Control
11. What is Raspberry Pi?	, ,
a) A single-board computer	b) A mobile phone
	A tablet
12. Which programming language is commonly	



Value Added Course

"RASPBERRY PI"

Print M		
a) C++	b) Java	
c) Python	d) Ruby	
13. What is the operating system used by	Raspberry Pi?	
a) Windows 10	b) macOS	
c) Raspbian	d) Ubuntu	
14. What is the maximum resolution supp	orted by Raspberry Pi?	
a) 720p	b) 1080p	
c) 4K	d) 8K	
15. What is the recommended power supp	lly voltage for Raspberry Pi?	
a) 5V	b) 9V	
c) 12V	d) 15V	
16. Which GPIO pin is used for ground co	onnection in Raspberry Pi?	
a) GPIO0	b) GPIO1	
c) GPIO2	d) GPIO3	
17. Which version of Bluetooth is supported	ed by Raspberry Pi 3?	
a) Bluetooth 2.0	b) Bluetooth 3.0	
c) Bluetooth 4.0	d) Bluetooth 5.0	
18. What is the purpose of the Raspberry P.		
a) To capture photos and videos	b) To display images on a screen	
 c) To control motors and sensors 	d) To connect to the internet	
19. What is the purpose of the Raspberry P	i sense HAT?	
 a) To measure temperature, pressure, and humidity 	b) To control motors and sensors	
 c) To capture photos and videos 	d) To connect to the internet	
20. What is the maximum number of USB I	ports available on Raspberry Pi 4?	
a) 2	b) 3	
c) 4	d) 5	
21. Which type of memory is used by Rasph	7	D.
a) RAM	b) ROM Principal	
c) Flash	d) Cache Indra Ganesan College of Engineerin	ıg
22. What is the purpose of the Raspberry Pi	GPIO pins? IG Valley, Madurai Main Road	
a) To provide power to the Raspberry Pi	b) To connect to the internet Manikandam, Trichy-620 012.	
c) To control external devices and sensors	d) To display images on a screen	
23. What is the maximum amount of RAM s	supported by Raspberry Pi 4?	
a) 1GB	b) 2GB	
c) 4GB	d) 8GB	
24. What is the purpose of the Raspberry Pi		
a)To provide power to the Raspberry Pi	b)To connect to the internet	
c)To control external devices and sensors	d)To display images on a screen	
25. Which component of Raspberry Pi allow	vs it to connect to the internetwirelessly?	
a) Ethernet port	b) Wi-Fi module	
c) Bluetooth module	d) USB port	
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COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Value Added Course

"RASPBERRY PI"

ANSWER KEY

1	A	6	D	11	A	16	В	21	C
2	С	7	D	12	С	17	C	22	C
3	D	8	В	13	C	18	A	23	D
4	В	9	C	14	В	19	A	24	В
5	C	10	В	15	A	20	В	25	С

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

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Modurni Main Road (NH-458), Manihandam, Trichy-12.
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Value Added Course

"RASPBERRY PF"

Name of the Student: R. Menaka.

Year/Sem: III I

AU Register Number: 811216106015

Value Added Course

"RASPBERRY PI"

(0)
101
25/

MULTIPLE CHO	ICE QUESTIONS (25X1 = 25	Marks (25)
1. The Rasphera, Di ic data at a		
1. The Raspberry Pi is defined as the? 2. Raspberry Pi computer 2. Raspberry Pi consists of a quad-core a) 16-bit 3. Which of the following is true? At is considered superior at	b) Micro Computer d) Nano Computer processor or microprocessor b) 32-bit d)128-bit b) It was developed to enc	
c) It promotes Scratch and Python as the chief programming language	computer science studen countries. d) All of the above	Isand other growing
4. How much RAM, the Raspberry Pi has a) 2GiB of RAM c)4GiB of RAM 5. How many Input / Output pins on board a)20	d)8GiB of RAM d)8GiB of RAM l Raspberry Pi3 has?	
6. Which of the following is a not type of I aspherry Pi Alternatives (c) Raspberry Pi 3 Model B+	b) Raspberry Pi Zero W	
7. Which operating system Raspberry Pi ha a) Linux c) Net BSD 8. Does Raspberry Pi need external hardwa a) TRUE	b) Open BSD All Of the above	Dr. G. Balakrishnan, M.E., Ph.D
c)Can be true or false 9.What do we use to connect TV to RPi? a) Male HDMI ANDICHDMI and Adapter	b) Female HDMI	Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.
a) Port Name and Bits c) Speed and Parity 11. What is Raspberry Pi?	d) Stop bit and Flow Con	200
c) A single-board computer c) A gaming console 12. Which programming language is commo	b) A mobile phone d) A tablet mly used with Raspberry Pi?	



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy 12, Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Value Added Course

"R	ASPBERRY PI"	
Xc-	b) Java	
c) Python	d) Ruby	
13. What is the operating system used by	Raspherry Pi?	
a) Windows 10	b) macOS	
at Kasphian	d) Ubuntu	
14. What is the maximum resolution supp	orted by Raspherry Pi	7
a) 720p	1080p	
c) 4K	d) 8K	
15. What is the recommended power supp	ly voltage for Raspber	rry Pi?
2 5	b) 9V	
c) 12V	d) 15V _	
16. Which GPIO pin is used for ground co		· Pi?
a) GPIO0	-b) @P101	
c) GPIO2	d) GP103	
17. Which version of Bluetooth is supported	ed by Raspberry Pi 3?	
a) Bluetooth 2.0	b) Bluetooth 3.0	
B) hetooth 4.0	d) Bluetooth 5.0	
18. What is the purpose of the Raspberry P		
a) Folcapture photos and videos	b) To display imag	es on a screen
C) To control motors and sensors	d) To connect to th	ne internet
19. What is the purpose of the Raspberry P.		
a) To measure temperature, pressure, and humidity	b) To control moto	ers and sensors
To capture photos and videos	d) To connect to th	e internet
20. What is the maximum number of USB 1	ports available on Ras	pberry Pi 4?
a) 2	(در الطب	
c) 4	d) .5	
21. Which type of memory is used by Raspl a) RAM		
er tildsh	b) ROM	
22. What is the purpose of the Raspberry Pi	d) Cache	
a) To provide power to the Raspberry		
Pi	b) To connect to the	nternet
e To control external devices and	d) To discuss to .	
sensors	d) To display image	es on a screen
23. What is the maximum amount of RAM	unnorted by Raenham	n. D: 49
a) IGB	b) 2GB,	y rim:
c) 4GB	4X-9CD	
24. What is the purpose of the Raspberry Pi	10 sin bandar?	
a) To provide power to the Raspberry Pi		- Ab - *
c) To control external devices and sensors	b)Te connect to	o ine internet
25. Which component of Raspberry Pi allow	ujio uispiay im	nages on a screen
a) Ethernet port		memenminelessik.
A STATE OF THE STA	b) Wi-Fi module	
9 Bjuesboth module	d) USB port	OF.
,		Dr. G. Balakrishnan, M.E., Ph.D
		Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



Department of Electronics and communication Engineering

Academic Year 2018-2019- Even Semester

STUDENTS PARTICIPATION LIST

VAC PROGRAM-RASPBERRY PI

t	- Alle Marie Alexandria (Marie Marie	in the man to the standard and addition and a standard and a stand	YEAR		TE: 16.19		TE: 6.19		ATE: .06.19		TE: 6.19		ATE: .06.19	NO OF SESSIONS	SIGNATURE
8.80	REG NO	STUDENTS NAME	BRANCH	FN	M	FN	ΛN	FN	ΛN	FN	AN	FN	ΛN	ATTENDED	STUDENT
The same of the sa	SH215106002	Abinethri.J	TV/ECE		/		/		1	7		1	1	LO	T. Amothan
ADMINISTER OF STREET	811215106004	Anitha.B	TV/ECE	1	1	1	/	^	1	1	1	1	/	10 -	Balant
3	811215106007	Balnji.S	TV/ECE	/	/	/	/	/	a	1	1	/	/	q	S. Banfi
1	811215106008	BarjanaBarveen.N	TV/ECE	/	/	1	a	/	/	/	/	/	1	q	N. Barian
5	811215106009	Bhagya.D	TV/ECE	1	/		1	/	1	/	a	1	/	9	Bhry
0	811215106010	Dhivyapriya.S	TV/ECE		0		1	/			/			9	Philips S.
7	811215106011	FairoscBegum.A	TV/ECE	1		/		/		1	1	/		10	A. Faluloge
17	811215106012	Farsana, K	IV/ECE	/	/		1	/	a	1	/	1		a	K-Footbara
5)	\$11215106013	Gomathi.M	TV/ECE		a		1	/	/	1	/	1	/	a	M. 610-18
10	811215106014	HabeehBanu.M	TV/FCE		1	1	00	1	1		1	/		C	Insech Earl. N
11	311215106015	Hemalatha.K	IV/FCE	/	1		I	V.	1	-/	/	1		10.	X Stal-

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

			ph. makes assume may be properly to the sph.		TE:		TE:		ATE: .06.19		TE: 6.19		ATE: 1.06.19	NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
8,80	REG NO	STUDENTS NAME	YEAR/ BRANCH	FN	AN	FN	ΛN	FN	ΛN	FN	ΛN	FN	ΛN	Mr destaines	7 1 (712) 21 1
														9	B1-1-1
12	811215106016	Jaheerl Jussain, K	IV/ECE			_	1	/	<u>a</u>	_/_	1	/			199h h- K
13	811213163017	JaneyRani.K	IV/ECE		/	1	1	/	1		. /	1		[0	Janey (his
11	811215106018	Jayasri.∧	TV/ECE	1		1	1	/	/	-	1	1			A Jayrest
15	811215106019	Juliet Vanitha.S	TANECE	1	a	1	1	/	/	/	1	1		9	Stuliet
16	81121,5106020	Kalaiselvi.R	IV/ECE			1	1	a	a		1		/	8 0	Juliet bini
17	811213106021	Knrthick.R	TV/ECE	1	/	a	a	/	/		1	1	/	8	da==
18	\$11215106023	Krishnaveni.K	TV/ECE	/	/	1	1			a	/	1		9	Unisteraveni 2
11)	811015106024	Madhu.M	TV/ECF	/		/	/	1	/	/	1	1		10	M. Madhys
20	811215106025	Malarvizhî.R	TV/ECE		/	1		1	/	1	a.		/	9	Prolowizing
21	811215106026	Manikandan,S	TV/ECF		1	/	1	a	a	/	>	1	/	8	S. Marrison
72	811215106027	Meena.V	TV/ECF	_	a	/	1			/		/	/	q	V. N. sehai.
23	811215106028	MohamedYasin.M	IV/ECI:	1	/		_	1	/	/	/	1	/	01	Med form
24	811215106029	Nandhini.R	TV/ECE	17	1		/	/		1	/	1	/	01	SiNastro
25	811215106030	NasithaBanu.S	TV/ECL:	/	/			1		/	1	-	1	10	Randh
26	811215106032	Prabhu.NI	TV/ECF.	/	/		/	1	1	1	1	1			7.77
27	811215106033	Priya.K	TV/ECL:	/	/	/	/	1	a	1	1	1		a	Prop. K
28	811215106034	Priya.M	TV/ECI:	1	/	1	1	1	/	1	a	1		a	PO Paus
20	811215106035	Priyadharshini,K	TV/ECL:	1	/	/	a		/	1		1		0	Jan
30	811215106037	Rafeek.M	TV/ECT:		a	1	1	1	1		1	1	0		GRIK

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11	811215106038	Rajapalikhan, K	IV/CCE	1	1	1	-	1	/		1	1	1	10	K. Rajalikhan
3.2	811215106039	Ramya.G	TV/ECE	1	a	1	1	1	1	/	1	1	1	9	ERaun 1m3
13	811215106010	Sachin.R	TV/ECE	1	1	/	1	ά	a	/	1	/	1	8	Readin
3.1	811215106042	Saraswathi. A	IV/ECE			1	a	1	1	1	1	/	/	q	D C 1.
35	811215105043	Saraswathi.R	IV/I-CE				/	A	1		1	1	1	10	A SP KOT
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38	8110151060/6	Suji Evangelin Jasmine. S	TV/ECE	m um banan			-/	-1	/			-		A A	77.
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. 1	811215106050	SallyaR	TV/ECE		-/-	á	0			/	1-/-	-			GIV
12	811214106001	AbarnaT'	HI/ECE	umiclasia,	Carry C			-		-		-	-/-	8	1 Sally
13	811216106002	AmsavalliS	HIVECE	/		1	C.	-/-	-	1	-	1	-	-	J. Abay
44	81121610600,	AnusbyaS	HIVECE	(mfamma.		1	-		1	<u> </u>	1		LO	Am avall
15	81121610600-	Arockia NivethaS	HI/ECE					1	a		14	1		9	- Trughya
16	811216106005	AshelaN	TH/ECE				/_	1		1	1/	/	1	10	S. Menny C
17	811216106006	Dhanalakshmi'l'	HI/ECE					1	_/_		1	/		10	A shefor a
43	811216105008	FeminaBegum A					D	1		1	1	1	1	d	H M.
0	811216106000	Gayathri,l	HARCE	-/-	1	1.	1-	CL	0	1	1	1	1	8	Hegum
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Dr. G. Balakrishnan, M.E., Ph.D.,

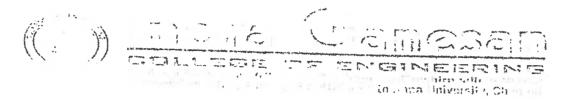
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Manikandam, Trichy-620 012.

790	The species are replaced to the species of the spec	gui 1900 de 1844 e 1844	No. 1964 St. A. 16		TE:	DΛ'	- 1		ATE: .06.19	DA' 20.0			ATT6: 06.19	NO OF SESSIONS	SIGNATURE
SNO	REG NO	STUDENTS NAME	BRANCH VEAR/	FN	AN	FN	ΛN	FN	AN	FN	ΛN	FNI	VN	ATTENDED	STUDENT
50	811216106010	Joyselshiba J	III/ECE	1.	a	1	1	_		-	1	7		Q management and are are	II of 1.01
E.	811216106011	Keertaana P	HIVECE	1		1	1	1	-	1	1	1	and an arm	(Bally
52	811216106012	Keerthana S	HI/ECE	-	-	1	1	1	a	-	-	1		[O	1. Kizeokuf
53	811216106013	Keerthika D	HI/ECE	-	-		17	a	a	//	1	1/	-/-	0	Signifficand
54	811216106014	Lathasri S	III/ ECE	-		-	1	1	1	-	a	1-	-		1) 1
55	811216106015	Menaka R	HI/ ECE	1		1	17	1	-		1	1		10	Q. 1211-0
56	811216106016	Mithra P	HIV ECE	1			a	1	-	1	1	1		a	R. Menaka
57	811216106017	Mohan Raj S	III/ ECE	1	-		1	-6	//	1	1	1/-	-	And the same of th	\$ Mithur
56	311216106018	Nilavar Nisha F	THIVECT:	7	1	-/	1-	-/-	+/-	1/	1-1-	-14	1/	10	D. Mohan to
59	811716106019	Pavithra P	III/ ĒČĒ	7		1.5					- /			10	Total NAVO
(0)	811216106020	Pavilhra V	HI/ECE		1	-	1	- / _				-1	1	1	Kistavi
61	11216106021	Prabhu A	TH/ ECE	17	+-	-		-	1-2			1	+-		JESENT ROY V
(1)	a11217106001	- statement of the control of the co	Approximate in Spin . A set of the Authorities			a	0			/	1	1	1/	8	A. Poul-is
6.	811217106002	Aishvariya S	H/ECE				1	/	1/	1	a	1	/	q	A. Shwaniya -
	-	Ancesha A	HÆCE	1			1/		1/	1			/	10	Edular
64	811217106003	Deepika B	H/ECE		10	1	1/		1 /		-		1	C	00-1
65	811217106004	Durga D	H/ECE	1				•	/ /		7/	7	/		K. Llgika
66	811217106005	Gangadevi M	MECE		/	-	· · · · · · · · · · · · ·			7		7		10	D. Dusgoy
67	811217106006	Janan ic	WECE	17	1	1		1	1-0			-		TOTAL MARKET AND	W Crangaday
68	811217106009	Karthick K	II/ECE	1/		lá			/ 0	7				9	Karthick, K



.80	RUGNO	STUDENTS NAME	YEAR/		(TE: 16.19		TU; 6.19	1	ATE: .06.19		TE: 6.19		ATE: .06.19	NO OF SESSIONS	SIGNATURE OF THE		
		C. CHEST O LAVIAN	BRANCH	BRANCH		FN	ΛN	FN	ΛN	FN	ΛN	FN	ΛN	FN	AN	ATTENDED	
69	S11217106010	Kosionanth R	WECE	_			1	0	a		,			~	**COT (1)		
70	8112171050 1	Laks mi M	II/ECE	1	-	-/-	7	1	5	-	-/-		and a grant	<u>8</u>	R. Krout		
7	811217106012	Manikandan M	11/ECE	1	-	1		1	-	-	-	5	/	- 4	Laram		
7:	\$11217106013	Mekab Devi S	WECE		à	1		1	-	-	1	1	1	10	M. Marin		

VAC Coordinator

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Department of Electronics and Communication Engineering Academic Year 2018-2019 – Even Semester VALUE ADDED COURSE ASSESMENT SHEET RASPBERRY PI

S.NO	NO REG NO STUDENTS	STUDENTS NAME	YEAR/	Attenda	mce Details	VAC-M	ICQ TEST	OVERALL
		:	BRANCH	No. of Session Attended	Attendance Mark(100) (A)	No of Correct	MCQ Mark(100)	MARK(100) (50% of A + 50% of B)
1	811215106002	Abinethri.J	IV/ECE		-	Answers	(B)	
2	811215106004	Anitha.B	N/4 to 10 many 10 195500000 mm	30	100	20	80	90
3	811215106007	Balaji.S	IV/ECE	30	100	20	80	90
4			IV/ECE	27	90	19	76	***************************************
***************************************	811215106008	BarjanaBarveen,N	IV/ECE	27	90	-		83
5	811215106009	Bhagya.D	IV/ECE			21	84	87
6	811215106010	Dhivyapriya.S		27	90	19	76	83
7	811215106011		IV/ECE	27	90	19	76	83
	and the second	FairoseBegum.A	IV/ECE	30	100	20	80	and the second second second second
8	811215106012	Farsana.K	IV/ECE	27				90
9	811215106013	Gomathi.M	IV/ECE		90	19	76	83
10	811215106014	HabeebBanu.M	Martingers Springer James Land San Co.	27	90	19	76	83
	811215106015	A Day arrestance by approximately to her	IV/ECE	27	90	19	76	83
4.1	011713100013	Hemalatha.K	IV/ECE	30	100	21	84	92

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COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

S.NO	REG NO	CTTTP TENTO BLADET	YEAR/	Attenda	nce Details	VAC-M	ICQ TEST	OVERALL
POSSFOLOSIONANDAS year		STUDENTS NAME	BRANCH	No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100)	MARK(100) (50% of A + 50% of B)
12	811215106016	JaheerHussain.K	IV/ECE	27	90	20	(B)	and the second s
13	811215106017	JancyRani.K	IV/ECE	30	100	***************************************	80	85
14	811215106018	Jayasri.A	IV/ECE	30		21	84	92
15	811215106019	Juliet Vanitha.S	IV/ECE	POCKSON AND ADDRESS OF THE PARTY AND	100	19	76	88
16	811215106020	Kalaiselvi.R	IV/ECE	27	90	19	76	83
17	811215106021	Karthick.R		24	80	20	80	80
18	811215106023	Krishnaveni,K	IV/ECE	24	80	21	84	82
19	811215106024	The same of the sa	IV/ECE	27	90	22	88	89
20	811215106024	Madhu.M	IV/ECE	30	100	20	80	90
20	811215106025	Malarvizhi.R	IV/ECE	27	90	21	84	87
***		Manikandan,S	IV/ECE	24	80	20	80	***************************************
22	811215106027	Meena.V	IV/ECE	27	90	21		80
	811215106028	MohamedYasin.M	IV/ECE	30	100	Maries Maries	84	87
24	811215106029	Nandhini.R	IV/ECE	30		20	80	90
25	811215106030	NasithaBanu.S	IV/ECE		100	19	76	82
26	811215106032	Prabhu.M	IV/ECE	30	100	19	76	88
27	811215106033	Priya.K		30	100	21	84	92
	811215106034	Priya.M	IV/ECE	27	90	19	76	83
	811215106035		IV/ECE	27	90	19	76	83
****************	1701 17 00 000	Priyadharshini.K	IV/ECE	27	90	19	76	83
V	811215106037	Rafeek.M) IVECE	27	90	19	76	83

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S.NO	REG NO	CULTURA TRANSPORTOR AT A DESCRIPTION OF THE PERSON OF THE	YEAR/	Attenda	ince Details	VAC-M	ICQ TEST	OVERALL
······································		STUDENTS NAME	BRANCH	No. of Session Attended	Attendance Mark(100) (A)	No of Correct	MCQ Mark(100)	MARK(100) (50% of A + 50% of B)
31	811215106038	Rajapalikhan. K	IV/ECE	30	100	Answers	(B)	- 144-144-14-14-14-14-14-14-14-14-14-14-14
32	811215106039	Ramya.G	IV/ECE	27	homeson	19	76	88
33	811215106040	Sachin.R	IV/ECE		90	19	76	83
34	811215106042	Saraswathi.A	IV/ECE	24	80	21	84	82
35	811215106043	Saraswathi.R		27	90	20	80	85
36	811215106044	Shalini.G	IV/ECE	30	100	21	84	92
37	811215106045	Subramani.M	IV/ECE	27	90	19	76	83
	811215106046	Ed tuning, a suppose	IV/ECE	30	100	19	76	88
39	811215106048	SujiEvangelinJasmine.S	IV/ECE	30	100	19	76	88
***************************************	811215106048	Surya.N	IV/ECE	30	100	21	84	92
	der detainer mann	Vijay.G	IV/ECE	27	90	21	84	
	811215106050	Sathya.R	IV/ECE	24	80	20	- Market	87
	811216106001	AbamaT	III/ECE	27	90	-	80	80
Distance and the Control	811216106002	AmsavalliS	III/ECE	30		21	84	87
14	811216106003	AnushyaS	III/ECE	27	100	20	80	90
15	811216106004	Arockia NivethaS	III/ECE		90	19	76	83
16	811216106005	AshefaN	III/ECE	30	100	19	76	88
17	811216106006	DhanalakshmiT	7 7	30	100	21	84	92
8	811216106008	FeminaBegum A	III/ECE	27	90	19	76	83
	811216106009		III/ECE	24	80	20	80	80
	011210100009	GayathriJ	III/ECE	24	80	20	80	80

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S.NO	REG NO	STUDENTS NAME	YEAR/	Attenda	ance Details	VAC-M	ICQ TEST	OVERALL
		STODENTS NAME	BRANCH	No. of Session Attended	Attendance Mark(100) (A)	No of Correct	MCQ Mark(100)	MARK(100) (50% of A + 50% of B)
50	811216106010	Joysefshiba J	III/ECE	27	90	Answers	(B)	
51	811216106011	Keerthana P	III/ECE			19	76	83
52	811216106012	Keerthana S	III/ECE	30	100	20	80	90
53	811216106013	Keerthika D		27	90	19	76	83
54	811216106014	Lathasri S	III/ECE	24	80	21	84	82
55	811216106015	Menaka R	III/ ECE	27	90	20	80	85
56	811216106016	and the fire and an analysis of the second s	III/ ECE	30	100	21	84	92
57	W standards has a contract	Mithra P	III/ ECE	27	90	20	80	make and a complete state of the second
	811216106017	Mohan Raj S	III/ ECE	30	100	19	PPNs sebilings of p Knowlessenses a	85
58	811216106018	Nilavar Nisha F	III/ ECE	30	100		76	88
59	811216106019	Pavithra P	III/ ECE	30	and the designation of the second sec	20	80	90
60	811216106020	Pavithra V	III/ ECE	tressand manager minus delicare age	100	21	84	92
61	811216106021	Prabhu A	M-1999 June 14 Australia - 1	27	90	21	84	87
62	811217106001	Aishwariya S	UIV ECE	24	80	20	80	80
63	811217106002	Ancesha A	II/ECE	27	90	21	84	87
	811217106003	Deepika B	II/ECE	30	100	20	80	90
······································	811217106004		II/ECE	27	90	19	76	83
	****	Durga D	II/ECE	30	100	19	76	Marketine and the state of the
	811217106005	Gangadevi M	II/ECE	30	100	-	-	88
	811217106006	Janan iC	II/ECE	27		21	84	92
58	811217106009	Karthick K	II/ECE		90	19	76	83
	names and a supplication of the supplication o	of the management of the statement of th	·WUCL	24	80	20	80	80

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S.NO	REG NO	STUDENTS NAME	YEAR/	Attenda	ance Details	VAC-M	ICQ TEST	OVERALL
er -		STODER TS RAIVIE	BRANCH	No. of Session Attended	Attendance Mark(100)	No of Correct	MCQ Mark(100)	MARK(100) (50% of A + 50% of B)
69	811217106010	Kosiananth R	II/ECE		(A)	Answers	(B)	,
70	811217106011	Lakshmi M	907 Pt Wille 'management day	24	80	21	84	82
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7 1	811217106012	Manikandan M	HARAE		90	22	88	89
72	811217106013	the 11 brownstan	II/ECE	30	100	19	76	00
12	01121/100013	Mekala Devi S	II/ECE	27	A Section of Contract		70	88
		organization distance proposesses the section of the residence construction and the proposession of the section	TI DOD	27	90	19	76	83

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This is to certify that Ms. ANITHA B, IV Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

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Mrs.Shalom Jerlin,

Hitakey Infosys,

Technical Head.

(D:

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This is to certify that Mr. VIJAY G, IV Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

Shalf

Mrs.Shalom Jerlin,

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Technical Head.

(D.:

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act.

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This is to certify that Ms. ABINETHRI J, IV Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

Shalq_

Mrs.Shalom Jerlin,

Hitakey Infosys,

Technical Head

Dr. G. Balakrishnan, M.E., Ph.D.,

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This is to certify that Ms.GOMATHI M, IV Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

Shalq_

Mrs.Shalom Jerlin,

Hitakey Infosys,

Technical Head

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This is to certify that Mr. SACHIN R, IV Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

Shalq_

Mrs.Shalom Jerlin,

Hitakey Infosys,

Technical Head

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This is to certify that Ms.SARASWATHI R , IV Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

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This is to certify that Ms.GAYATHRI J, III Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

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This is to certify that Mr.PRABHU A, III Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

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This is to certify that Ms.AISHWARIYA S, II Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

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This is to certify that Ms.GANGA DEVI M, II Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

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This is to certify that Mr.KARTHICK K, II Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

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This is to certify that Ms.DEEPIKA B, II Year, ECE has successfully completed the Value Added Course on "RASPBERRY PI" organized by Department of Electronics and Communication Engineering in Association with Hitakey Infosys from 17th June 2019 to 21st June 2019 (5days) during the Academic year 2018-2019.

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