

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 2021-2022 / 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:	INTR	NTRODUCTION TO MACHINE LEARNING							
Resource Person: Mr.Shalom Jerlin, Technical Head , Hitakey Infosys Trichy									
Date of cond	Date of conduct from:01.08.2022To:05.08.2022Duration:30 Hours								
Organized Department: ELECTRONICS AND COMMUNICATION ENGINEERING									
Participant Year: ECE IV, III, II Seme				ster:	EVEN	No.	of Students 1	Registered:	52
Venue: DSP Lab									

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Madural Main Road (NH-458), Manikandam, Thruchirapalli- 620 012
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Department of Electronics and Communication Engineering Academic Year 2021-2022-EVEN Semester

27.07.2022

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering and IQAC of IGCE in association with Hitakey Infosys, Trichy, is going to organize Value Added Course for all Second, Third and Final year students on "Introduction to Machine Learning" from 01.08.2022 to 05.08.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus

Resource Person Detail	Ms.Shalom Jerlin , Technical Head, Hitakey Infosys, Trichy
Venue	DSP Lab, IGCE

HOD/ECE

PRINCIPAL

Cc:

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

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

"Introduction to Machine Learning"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE	
Introduction: A brief introduction t machine learning		3	01.00.000	
2	Supervised Learning		01.08.2022	
3 Reinforcement Learning		3	01.08.2022	
		3	02.08.2022	
Probability theory		3	02.08.2022	
5	Probability Basics 1& 2	- apparent parties and a second	03.08.2022	
6	Linear Algebra 1&2	3		
7	Statistical theory	3	03.08.2022	
-	National Actions and the Control of	3	04.08.2022	
8	Bias variance		04.00	
	Linear Regression	3	04.08.2022	
0	Exam	6	05.09.2022	
		1	05.08.2022	
-	Total Hours (Excluding Exam)	30	05.08.2022	

Bala Cersil VAC Coordinator

Dr. G. Balakrishnan, M.E., Palle,

Principal

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

HOD/ECE



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Value Added Course

"Introduction to Machine Learning"

STUDENTS PARTICIPATION LIST

		Charles and the second		CO I
4	S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
	1	81121810600	ABINAYA R	III M
	2	811218106002		IV/ECE
	3	811218106004	ARTHI M	IV/ECE
	4	811218106005		IV/ECE
	5	811218106006	DEVI K	IV/ECE
	6	811218106007	DHANALAKSHMI S	IV/ECE
	7	811218106008	HARI KRISHNAN S	IV/ECE
	8	811218106009	JANANI V	IV/ECE
	9	811218106010	JENIFER C	IV/ECE
	10	811218106011	JENIFER S	IV/ECE
	11 1	811218106012	KESAVAMURTHIM	IV/ECE
	12	811218106013	KIRUTHIKA S	IV/ECE
	13 8	311218106015	MARIA FRANCIS D	IV/ECE
	14 8	311218106016	RAGAVI A	IV/ECE
	15 8	11218106017	RUTHRAMOORTHY M	(V/ECE
	16 8	11218106018	SABARINATHAN K	IV/ECE
	17 8	11218106019	SARMILA M	IV/ECE
	18 8	11218106020	SUMATHI S	IV/ECE
	19 8	11218106021	THIVYA PRIYA R	IV/ECE
	20 8	11219106001	DAYANA P	III / ECE
	21 8	11219106002	DEVIKA K	III/ECE
~ ./	The same of the sa	1219106003	DINESH J	III / ECE
(A)	23 81	1219106004	MOHANA SUNDARAM K	III / ECE
	24 81	1219106005	RAVIKUMAR B	III/ECE
r. G. Balakrishnan, M.E.,	Db.D.		SANTHANARAJ A	
or. G. Balakrishnan, M.E., Principal Indra Ganesan College of Engin	26 81	1219106008	SRIKANTH M	III / ECE
		1219106009	SURENDRAN S	III/ECE
Indra Ganesan College of Engli IG Valley, Madurai Main Re Isandam, Trichy-620 C	282 81	1219106010	SURYA V	III / ECE
Indra Ganesar IG Valley, Madurai Main K Manikandam, Trichy-620 C	29 811	1.00.00.00.00.00.00.00.00.00.00.00.00.00	SWETHA K	III/ECE
Wallie	0 811	the same of the sa	YUVASHREE S	III/ECE
		2121	Notice 1	III/ECE
	-		VIJAYALAKSHMI V	III/ECE
3		000105005	ONNARASUS	III/ECE
3	we wanted	200104000	BANU PRIYA G	II / ECE
الي. بير	. 1011	220100008 B	HARATHIDASAN C	II / ECE



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S.NO REG NO		STUDENTS NAME	YEAR/ BRANCH	
35	811220106018	JANCY J	II/ECE	
36	811220106019	JEEVASEN N	II/ECE	
37	811220106021		II/ECE	
38	811220106022		II / ECE	
39	811220106023		II / ECE	
40	811220106025		II / ECE	
41	811220106026	KISHORE KUMAR M	II / ECE	
42	811220106028	MANCY.E	II / ECE	
43	811220106031	PRADHAP.J	II / ECE	
44	811220106032	PRASANNAAJ	II / ECE	
45	811220106033	PREETHIKA.M	II / ECE	
16	811220106034	PREMALATHA.M	II / ECE	
7	811220106037	SHRI HARINI PRIYA B	II / ECE	
8	811220106038	SNEGA M	II / ECE	
9	811220106039	SOBI AMIRTHA N	II / ECE	
0	811220106041	SUNIL KUMAR B	II / ECE	
1	811220106042	SUSILA N	II / ECE	
2	0.4.4.4.4	YOGA PRIYA.R	II / ECE	

Balakerst VAC Coordinator

HOD/ECE

Dr. G. Balakris man, M.c., Ph. J.

Principal

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



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Title:	"Introduction to Machine Learning"						
Resource	H	Is.Shalom Jerlin, echnical Head, itakey Infosys					
	nduct from:	01.08.2022 To: 05.08.2022					
Organized	Department:	Electronics and Communication Engineering 30 Hours					
Participant	Year: 2,3,4	- Company - Comp					
Venue: (Online Link:	No. of Students Registered: 52					
Outcome o	F Value Adde	ed Course (VAC): At the end of the Course, Students can be able to					
logistic Underst Underst Apply ti	regression. and a wide value and how to evalue algorithms with that can be a	t types of machine learning and map problems to different classes of machine-learning algorithms including decision trees, naïve Bayes, and ariety of learning algorithms valuate models generated from data. to a real problem, optimize the models learned and report on the expected higher than the problem of the models. Assessment Process					
	tho are secur	ring more than 70% on total score and secured more than 75% in receive the certificate for the VAC course conducted					
		idance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 10					

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

Principal

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



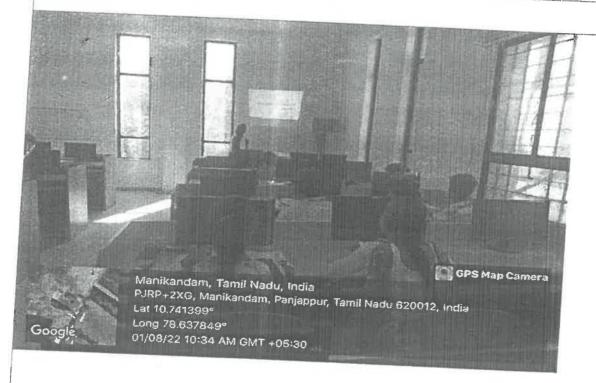
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SAMPLE PHOTOS OF VALUE ADDED COURSE "Introduction to Machine Learning" Resource Person: Ms.Shalom Jerlin, Technical Head, Hitakey Infosys Trichy Date of conduct from: 01.08.2022 To: 05.08.2022 Duration: 30 Hours Organized Department: **Electronics and Communication Engineering** Participant Year: | 2,3,4 No. of Students Registered: DSP Lab

Sample photo

Venue:

Title:



Balaken VAC Coordinator

HoD/ECE

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

"Introduction to Machine Learning"

Name of the Student:

Year/Sem:

AU Register Number:

MULTIPLE CHOICE QUEST	TIONS (25X1 = 25 Marks)
 Type of matrix decomposition model is a) predictive model c) logical model PCA is a) backward feature selection c) feature extraction Supervised learning and unsupervised clustering both a) input attribute c) output attribute 4.Following are the types of supervised learning 	b) descriptive model d) None b) forward feature selection
 a) regression c) subgroup discovery 5. A feature F1 can take certain value: A, B, C, D, E, & Here feature type is_ a) ordinal 	
c) categorical6. Following is powerful distance metrics used by Geona) manhattan distance	b) nominal d) boolean netric model_
c) All of above 7. The output of training process in machine learning is_ a) machine learning algorithm c)Null 8. Which of the following is a good test dataset character a) is representative of the dataset as a whole	Mailiku
c) All of above 9. Which of the following techniques would perform bette a) removing columns which have high variance in data	o) large enough to yield meaningful results d) None of the above r for reducing dimensions of a data set?
c)removing columns with dissimilar data trends	b) removing columns which have too many missing value d) None of the above

33.



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Value Added Course

"Introduction to Machine Learning"

10. What characterize is hyperplane in geometrical man a) a plane with 1 dimensional fewer than number of b) b) a plane with 1 dimensional more than number	**************************************
c) a plane with 2 dimensional more than number of ing d) d) a plane with 2 dimensional fewer than number of	
11. You are given reviews of few Netflix series marked Classifying reviews of a new netflix series is an examp a) unsupervised learning c) supervised learning 12. Like the probabilistic view, the view allows us to a	d as positive, negative and neutral. le of b) semi supervised learning d) reinforcement because
each classification a) deductive c) classical 13. The problem of finding hidden structure in unlabeled a) unsupervised learning c) supervised learning	b) exampler
 14. If machine learning model output involves target var a) predictive model c) reinforcement learning 15. Database query is used to uncover this type of knowled 	b) descriptive model d) All of shove
a) hiddenc) deep16. Data used to build a data mining model.a) training data	b) shallow d) multidimensional Dr. G. Balaktishnan, M.E., Ph.D., Principal
c) test data 17. Application of machine learning methods to large data a.) big data computing c) data mining 18. Which learning Requires Sets Assessments.	d) validation data a dra Ganesan College Main Road
18. Which learning Requires Self-Assessment to identify patterns within data?a) supervised learningc) semi supervised learning	b) unsupervised learning d) reinforced learning



Value Added Course

"Introduction to Machine Learning"

- 19. In simple term, machine learning is
- a) prediction to answer a query

b) training based on historical data

c) All of above

- d) None of above
- 20. Of the Following Examples, Which would you address using an supervised learning Algorithm?
- a) given a set of news articles found on the web, group them into set of articles about the same story
- b) given email labeled as spam or not spam, learn a spam filter
- c) given a database of customer data, automatically discover market segments and group customers into different market segments
- d) find the patterns in market basket analysis
- 21. If machine learning model output doesn't involves target variable then that model is called as_
- a) predictive model

b)descriptive model

c) reinforcement learning

- d) all of the above
- 22. In what type of learning labelled training data is used
- a)supervised learning

b) unsupervised learning

c) reinforcement learning

- d) active learning
- 23. In the example of predicting number of babies based on stork's population , Number of babies is_
- a)feature

b) observation

c) outcome

- d) attribute
- 24. Following are the descriptive models a) classification

b) clustering

c) association rule

- d) Both 1 and 2
- 25. In following type of feature selection method we start with empty feature set
- a) backward feature selection

b) forward feature selection

c) All of above

d) None of above

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

"Introduction to Machine Learning"

ANSWER KEY

1	С	6	d	11	С	16	d	21	b
2	a	7	d	12	Ъ	17	d	22	d
3	а	8	a	1.3	8	18	c	23	a
4	b	9	d	14	С	19	c	24	b
5	а	10	c	15	d	20	а	25	

VAC Coordinator

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

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



c)removing columns with dissimilar data trends

Indra Ganesan

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Value Added Course

value Mae	at Course
"Introduction to N	Machine Learning"
Name of the Student: Santhan 2009. A	Year/Sem: (1) /V)
AU Register Number: 81181910601	
MULTIPLE CHOICE QUES	
1. Type of matrix decomposition model is	$\frac{5110NS}{25X1} = 25 \text{ Marks}$
a) predictive model	b) descriptive model
©logical model —	d) None
2. PCA is_	,
(a) backward feature selection	b) forward feature selection
c) feature extraction	d) None of there
3. Supervised learning and unsupervised clustering	both require which is correct according to the statement
	b) hidden attribute
c) output attribute	d)categorical attribute
4. Following are the types of supervised learning	y Samuel Milliotte
a) regression	6 classification
c) subgroup discovery	d) All of shove
5. A feature F1 can take certain value: A, B, C, D, E, Here feature type is	& F and represents grade of students from a college.
(a) ordinal	h) manufu s
c) categorical	b) nominal
6. Following is powerful distance metrics used by Ge	d) boolean
a) manhattan distance	
c) All of above	b) euclidean distance
7. The output of training process in machine learning	(d) None of above
a) madeing land	
clNull	b) machine learning model d) accuracy Dr. G. Balakrishnan, M.E., Ph.D., Principal
8. Which of the following is a good test dataset characters.	College of Engineering
a) is representative of the dataset as a whole	b) large enough to Melalley, Madurai Main Road b) Large enough to Melalley, Madurai Main Road Mening ful your Manikandam, Trichy-620 012.
c) All of above	b) large enough to Geldley, Madural Manual M
9. Which of the following techniques would perform be a) removing columns which have bight as	etter for reducing dimensions of a data set?
a) removing columns which have high variance in data	b) removing columns which have too many
C)removing columns with 3'	missing value

(d) None of the above



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c) a plane with 2 dimensional more than numd) d) a plane with 2 dimensional fewer than r11. You are given reviews of few Netflix serious	number of input attributes Indra Ganesan Consultation Main 10 012. Indra Gane
Classifying reviews of a new netflix series is	an example of
a) unsupervised learning Supervised learning	b) semi supervised learning d) reinforcement learning
each classification	ws us to associate a probability of membership with
a) deductive	(b) exampler /
c) classical	d) inductive
13. The problem of finding hidden structure in	unlaheled data is colled
(a) unsupervised learning	
c) supervised learning	b) reinforcement learning d) None
14. If machine learning model output involves	target veriable them that we let !
a) predictive model	
c) reinforcement learning	b) descriptive model
15. Database query is used to uncover this type	d) All of above
a) hidden	
c) deep	b) shallow
16. Data used to build a data mining model.	(d) multidimensional
a) training data	
c) test data	b) hidden data
·	d) validation data
17. Application of machine learning methods to	large databases is called_
a.) big data computing	b) artificial intelligence
c) data mining	d)Internet of things
18. Which learning Requires Self-Assessment to patterns within data?	identify
a) supervised learning	b) unsupervised learning
© semi supervised learning	d) reinforced learning



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19. In simple term, machine learning is	
a) prediction to answer a query &	b) training based on historical data
c) All of above	d) None of above
20. Of the Following Examples, Which would yo	u address using an supervised learning Algorithm?
(a) given a set of news articles found on the web. (b) given email labeled as spam or not spam, learn	group them into set of articles about the same story, a spam filter
c) given a database of customer data, automatical into different market segmentsd) find the patterns in market basket analysis21. If machine learning model output doesn't investigated	ly discover market segments and group customers olves target variable then that model is called as_
a) predictive model	(b)descriptive model
c) reinforcement learning	d) all of the above
22. In what type of learning labelled training data	is used_
a)supervised learning	b unsupervised learning &
c) reinforcement learning	d) active learning
23. In the example of predicting number of babies	based on stork's population ,Number of babies is_
(a) feature ~	b) observation
c) outcome	d) attribute
24. Following are the descriptive models	
a) classification	b) clustering
c) association rule 🔍	d) Both I and 2
25. In following type of feature selection method w	e start with empty feature set
a) backward feature selection	(b) forward feature selection
c) All of above	d) None of above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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Dr.	G.	Balakrishnan,	M.E.,	rn.u.,
		Principal		

Value Added Course

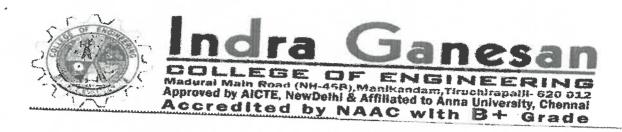
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IG Va Mani

c)removing columns with dissimilar data trends

anesan College of Engineering Valley, Madurai Main Road Inikandama Trichy-620 012. Inikandama ne of the Student:	"Introduction to M	
		Year/Sem: 10 VIII Q5
AU Register Number: 8 1 \	218 (00017	
1. Type of matrix decomposition	PLE CHOICE QUEST on model is	TIONS (25X1 = 25 Marks)
a) predictive model		b) descriptive model
(c) ogical model		d) None
2. PCA is_		.,
(a) backward feature selection		b) forward feature selection
(c) feature extraction		d) None of these
3. Supervised learning and unsu	pervised clustering b	oth require which is correct according to the statement
		b) hidden attribute
c) output attribute		d)categorical attribute
4. Following are the types of sur	pervised learning	-ywegorivar attatotice
a) regression	<u> </u>	© classification
c) subgroup discovery		d) All of charge
5. A feature F1 can take certain v Here feature type is	value: A, B, C, D, E,	& F and represents grade of students from a college.
a) ordinal		h) ' - '
c) categorical		b) nominal
6. Following is powerful distance	metrics used by Geo	d) boolean
a) manhattan distance	mention about by Octo	
c) All of above		b) euclidean distance
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a) machine learning algorithm		
c)Null	Ğ	machine learning model
8. Which of the following is a goo	w test dataget above to) accuracy
a) is representative of the dataset a	s a whole	
	s a whole	b) large enough to yield meaningful results
c) All of above		d) None of the above
9. Which of the following techniqu	es would perform bet	tter for reducing dimensions of a data set?
a) removing columns which have h	igh variance in data	b) removing columns which have too many
c)removing columns with dissimilar	n dota to o I	missing value

(d) None of the above



10. What characterize is hyperplane in geometri	cal model of machine landing
a) a plane with 1 dimensional fewer than numbeb) b) a plane with 1 dimensional more than num	ir tr Balaki Siman, M.E., i i.e.,
(E) a plane with 2 dimensional more than number d) d) a plane with 2 dimensional fewer than num	india dariesari Consego da la san Road
11. You are given reviews of few Netflix series n Classifying reviews of a new netflix series is an e	narked as positive, negative and neutral.
a) unsupervised learning	
	b) semi supervised
Supervised learning	learning d) reinforcement learning
12. Like the probabilistic view, the view allows u each classification	is to associate a probability of manifest in
each classification a) deductive	a probability of memoership with
e) classical	b) exampler
	d) inductive
13. The problem of finding hidden structure in unla	abeled data is called
a unsupervised learning	b) reinforcement learning
c) supervised learning	d) Nama
14. If machine learning model output involves targe	et variable then that model is called as
, i model	b) descriptive model
© reinforcement learning	d) All of chare
15. Database query is used to uncover this type of k	nowledge
a) hidden	b) shallow
c) deep	d multidimensional
16. Data used to build a data mining model.	C) marduniciisionai
a) training data	b) hidden data
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a.) big data computing	
c) data mining	b) artificial intelligence
18. Which learning Requires Self-Assessment to iden	(d)internet of things
batterns within data?	nry
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© semi supervised learning	d) reinforced learning
	-/ remove on regularity



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d) find the patterns in market basket analysis	atically discover market segments and group customers t involves target variable then that model is called as
a) predictive model	b)descriptive model
c) reinforcement learning	(d) all of the above
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c) reinforcement learning	(d) active learning
23. In the example of predicting number of ba	abies based on stork's population, Number of babies is_
a)feature.	b) observation
c) outcome	d) attribute
24. Following are the descriptive models_	
a) classification	(b))clustering
c) association rule	d) Both 1 and 2
25. In following type of feature selection meth	od we start with empty feature set
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Dr. G. Balakrishnan, M.E., Ph.D.,
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Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Clanesan Bollege De ENGINEERING Madural Main Road (NH-45B), Manikandam, Tiruchirapalii- 620 012 Approved by AicTE, NewDeihi & Affillated to Anna University, Chennai

Department of Electronics and Communication Engineering

Academic Year 2021-2022 - Even Semester

STUDENTS ATTENDANCE LIST

Value Added Course

"Introduction to Machine Learning"

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

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

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S.	REG NO	STUDENTS NAME	YEAR/	01.08	3.2022	02.08	.2022	03.08	.2022	04.08	2022	05.08	.2022	NO OF SESSIONS	SIGNATURE OF THE
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18	811218106020	SUMATHI S	IV/ECE	~	zamony	~		~	-		-		-	10	Sur. S
19	811218106021	THIVYA PRIYA R	IV/ECE	1		- Francis	-	_	1	2	_	12/1-17	1	10	They of Doyal
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23	811219106004	MOHANA SUNDARAM K	III / ECE	/	1	2/	1			/	1	1	1	10	Mahrisott
24	811219106005	RAVIKUMAR B	III / ECE	1		1	1			1	-	1		9	(Rank Keeman
25	811219106006	SANTHANARAJ A	III / ECE	_	1	1		-	-		-		_	(0)	Sathurlay 1
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29	811219106011	SWETHA K	III / ECE	_	1	1	-	and .	-		2007	1	many .	10	South K
30	811219106301	YUVASHREE S	III / ECE	-	1	1	-	ru	: grands	_	1	1		lo	YUVA-S
31	811219106701	VIJAYALAKSHMI V	III / ECE	-	1			-			-	1		10	Dan
32	811219106702	PONNARASU S	III / ECE	1	1	-		-	1	/	_	1		10	PoweDown
33	811220106006	BANU PRIYA G	II / ECE	1	1	1		1	-	_		-	1	lo	Bari Plign
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Dr. G. Balakrishnan, M.E., Ph.D.,
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Madural Main Road (NH-45B), Manikandam, Trichy-12.
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S. NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	01.08	3.2022	02.08	3.2022	03.08	3.2022	04.08	3.2022	05.08	3.2022	NO OF SESSIONS	SIGNATURE OF THE
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37	811220106021	KAMARAJ.S	II / ECE	~	~		/	~	V	~	_	<u></u>	-	(6	Kamanni
38	811220106022	C.KARTHICK	II / ECE	1		~			W	5		1	0	10	C. Batch
39	811220106023	S.KARTHIKA	II / ECE	V		~			/	1	~	1		10	5 Wad pa
40	811220106025	KISHORE R	II / ECE	1		~	~	V	\nearrow	5	~	1		10	Kedner
41	811220106026	M. KISHORE KUMAR	II / ECE	00		~/	~	V		/	1	V		10	Kirls Kul
42	811220106028	MANCY.E	II / ECE		V	~	/	1		1	1	1	V	1 n	Many E
43	811220106031	PRADHAP.J	II / ECE	/	1	~	10	1	5	1	\checkmark	V	1	1.05	J. Pralle
44	811220106032	PRASANNAA.J	II / ECE	1	h/		~	1	~	/		1	1	10	Prasanna
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46	811220106034	PREMALATHA.M	II / ECE		/	/	/	V	~	1	1	-	1	10	Dooley
47	811220106037	SHRI HARINI PRIYA B	II / ECE	\ \	~	/	/	1	~	1	1	1	1	10	R Shu Haini pri
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52	811220106049	YOGA PRIYA.R	II / ECE	1	1	5	V	5	~	5	1	1	1	10	Voga priya

VAC Coordinator

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

Principal

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



Department of Electronics and Communication Engineering

Academic Year 2021-2022 - Even Semester

VALUE ADDED COURSE ASSESMENT SHEET

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

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

Principal

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S.NO	REG NO	STUDENTS NAME	YEAR/		ance Details	VAC-MCQ TEST		OVERALL
-			BRANCH	No. of Session	Attendance Mark(100)	No of	MCQ	MARK(100)
1	811218106001	ABINAYA R		Attended	(A)	Correct Answers	Mark(100)	(50% of A - 50% of B)
2	811218106002	AKILA K	IV/ECE	30	100	The state of the s	(B)	OI II)
3	811218106004		IV/ECE	30	Management and the state of the	24	96	98
4	811218106005	ARTHI M	IV/ECE	30	100	25	100	100
5	The Spanned Land	AZHAGU MEENA M	IV/ECE	-	100	23	92	Andrew or new Assess Street, Co.
	811218106006	DEVIK	Name Vancourse	30	100	23	92	96
6	811218106007	DHANALAKSHMI S	IV/ECE	27	90	18	No. or other desirable desirable desirable	96
7	811218106008	HAD! WASHMIS	IV / ECE	30	100	-	72	81
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	811218106011	JENIFER S	IV / ECE	30	100	24	Company of the last of the las	96
11	811218106012	Andrew Andrews	IV / ECE	30	100		96	98
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				Attenda	nce Details	VAC-M	CQ TEST	OVERALL MARK(100)
s.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	(50% of A + 50% of B)
			IV / ECE	30	100	22	88	94
12	811218106013	KIRUTHIKA S	IV / ECE		100	24	96	98
13	811218106015	MARIA FRANCIS D	IV / ECE	30	100	24	96	98
14	811218106016	RAGAVI A	IV / ECE	30	100	22	88	94
15	811218106017	RUTHRAMOORTHY M		30	100	20	80	90
16	811218106018	SABARINATHAN K	IV / ECE	30	100		96	98
17	811218106019	SARMILA M	IV / ECE	30	100	24	80	90
18	811218106020	SUMATHI S	IV / ECE	30		20	80	90
19	811218106021	THIVYA PRIYA R	IV / ECE	30	100	20	80	90
	811219106001	DAYANA P	III / ECE	30	100	20		90
20	811219106002	DEVIKA K	III / ECE	30	100	20	80	
21		DINESH J	III / ECE	30	100	19	76	88
22	811219106003	MOHANA SUNDARAM K	III / ECE		100	21	84	92
23		RAVIKUMAR B	III / ECE		100	18	72	86
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25		SANTHANARAJ A	III / ECE	21	100	17	68	84
26	811219106008	SRIKANTH M	III / ECE	1 30	100	20	80	90
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(D:

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

Indra Ganesan College of Engineering

IG Valley, Marium Main Ro



Madurai Main Road (NH-45B), Manikandam, Tiruchirapaiii- 620 012
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r. G. Balakrishnan, M.E.,	S.N Ph.D.,	O REG NO	STUDENTS NAME	YEAR/	The same of the sa	ance Details	VAC-N	MCQ TEST	OVERALL
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	33	811220106006	PONNARASU S BANU PRIYA G	III / ECE	30	100	21	84	92
	34	811220106008	BHARATHIDASAN C	II / ECE	30	100	18	72	86
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e such many	38	811220106921 811220106022	KAMARAJ.S	II/ECE	27	90	20	80	85
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	ships a second state of the second state of th	811220106025	S.KARTHIKA KISHORE R	II/ECE	30	100	19	76	88
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	many of the State of	811220106031	PRADHAP.J	II / ECE	30	100	23	92	96
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ļ		11220106033	PREETHIKA.M	II / ECE	30		20	80	90
-	- Marine	11220106037	PREMALATHA.M	II/ECE	30	100	20	80	90
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49	811220106039	SOBI AMIRTHA	THE CONTRACTOR OF THE CONTRACT	Attended	Mark(100) (A)	Correct Answers	Mark(100)	(50% of A + 50% of B)
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Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

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

Balakar VAC Coordinator

HOD/ECE







CERTIFICATE OF PARTICIPATION

This is to certify that Ms. KIRUTHIKA S , IV Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

Shal@_

Ms.Shalom Jerlin, Hitakey Infosys, Technical Head, Trichy Dr. G. Balakrishnan, M.E., Ph.D.

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

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CERTIFICATE OF PARTICIPATION

This is to certify that Ms. DHANALAKSHMI S, IV Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

Shalq_

Ms.Shalom Jerlin, Hitakey Infosys, Technical Head, Trichy D.:

Dr. G. Balakrish Mau, Managaring Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

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Principal IGCE





India Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli-620 012 Approved by AlCTE, NewDelhi & Affiliated to Anna University, Chennai Accredited by NAAC with B+ Grade

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. ABINAYA R , IV Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

Shalq_

Ms.Shalom Jerlin, Hitakey Infosys, Technical Head, Trichy On C. Dalaba son

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

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CERTIFICATE OF PARTICIPATION

This is to certify that Ms. JANANI V, IV Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

Shala

Ms. Shalom Jerlin, Hitakey Infosys, Technical Head, Trichy \$...

Dr. G. Balakrishnan, M.E., Philos, Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. ACH.







CERTIFICATE OF PARTICIPATION

This is to certify that Ms. RAGAVI A , IV Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

Shalq

Ms.Shalom Jerlin, Hitakey Infosys, Technical Head, Trichy Dr. G. Balakrishnan, M.E., Ph.D.,

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Manikandam, Trichy-620 012.

Det.

Principal

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CERTIFICATE OF PARTICIPATION

This is to certify that Ms.THIVYA PRIYA R , IV Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

Shalq_

Ms.Shalom Jerlin, Hitakey Infosys, Technical Head, Trichy Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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This is to certify that Ms. DEVIKA K, III Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

Shalq_

Ms.Shalom Jerlin, Hitakey Infosys, Technical Head, Trichy (D):

Dr. G. Balakrishnan, M.E., Ph.D.,
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IG Valley, Madural Main Road
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr. MOHANA SUNDARAM K, III Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

Shala

Ms.Shalom Jerlin, Hitakey Infosys, Technical Head, Trichy Dr. G. Balakrishi

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

Principal

IGCE





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CERTIFICATE OF PARTICIPATION

This is to certify that Mr. SRIKANTH M, III Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

Shalq

Ms.Shalom Jerlin, Hitakey Infosys, Technical Head, Trichy Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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





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CERTIFICATE OF PARTICIPATION

This is to certify that Mr. SURENDRAN S, III Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

Shalq

Ms.Shalom Jerlin, Hitakey Infosys, Technical Head, Trichy Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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

IGCE





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CERTIFICATE OF PARTICIPATION

This is to certify that Ms. VIJAYA LAKSHMI V , III Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Ms. BANUPRIYA G, II Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Mr. JEEVASEN N , II Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Mr. KISHORE R , II Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Ms. PREMALATHA M , II Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Mr. PRADHAP J , II Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Ms. AKILA K , IV Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Ms. DAYANA P, III Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Ms. JANCY J , II Year, ECE has successfully completed the Value Added Course on "Introduction to Machine Learning" organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Hitakey Infosys from 01st August 2022 to 05th August 2022 (5 days) during the Academic year 2021-2022.

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