



# Indra Ganesan

## COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
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 COMPUTER SCIENCE AND ENGINEERING**

**ACADEMIC YEAR 2018-2019 / EVEN SEMESTER**

**Academic Flexibility (30)**

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**

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

<b>VAC Title:</b>	C#					
<b>Resource Person:</b>	Mrs. Sankari, Project Manager Flink Technologies, Kumbakonam					
<b>Date of conduct from:</b>	10.06.2019	<b>To:</b>	15.06.2019	<b>Duration:</b>	36 Hours	
<b>Organized Department:</b>	COMPUTER SCIENCE AND ENGINEERING					
<b>Participant Year:</b>	CSE IV,III,II, and M.E-II	<b>Semester:</b>	EVEN	<b>No. of Students Registered:</b>	115	
<b>Venue:</b>	SD Lab , Network Lab					

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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

4.06.2019

### DEPARTMENT CIRCULAR

Department of Computer Science and Engineering IGCE in association with Flink Technologies is going to organized Value Added Course for BE- II,III,IV and M.E First, Second year students on “C#” from 10.06.2019 to 15.06.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person	1. Mrs. Sankari, Project Manager, Flink Technologies  2. Mr. M. Krishnan Trainer Flink Technologies
Venue 1  Venue 2	SD LAB  NETWORK LAB

  
HOD/CSE

Cc:

- Principal Office
- HoD/ CSE
- Class In charges - II, III ,IV & ME I,II
- II, III & IV-Year PG CSE Students
- Office File
- Notice Board

  
PRINCIPAL

  
Dr. G. Balakrishnan, M.E., Ph.D.,  
Principal  
Indra Ganesan College of Engineering  
IG Valley, Madurai Main Road  
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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

### Value Added Course on

“C#”

### SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	<b>INTRODUCTION</b> <ul style="list-style-type: none"><li>➤ The .NET Framework - an Overview</li><li>➤ Framework Components</li><li>➤ MSIL / Metadata and PE files.</li><li>➤ The Common Language Runtime (CLR)s</li></ul>	3	10.06.2019
2	<b>C # Language Syntax</b> <ul style="list-style-type: none"><li>➤ Why Datatypes Global, Stack and Heap Memory</li><li>➤ Common Type System</li><li>➤ Casting between other datatypes</li></ul>	3	10.06.2019
3	<b>OOPs-Inheritance</b> <ul style="list-style-type: none"><li>➤ Introduction to Inheritance</li><li>➤ Static and Dynamic Binding</li><li>➤ Abstract Class</li></ul>	3	11.06.2019
4	<b>OOPs-Interface &amp; Polymorphism</b> <ul style="list-style-type: none"><li>➤ Overview of Interface</li><li>➤ Interface with examples</li><li>➤ Types of Inheritance</li></ul>	3	11.06.2019
5	<b>Assemblies and GAC</b> <ul style="list-style-type: none"><li>➤ What is a DLL and how is it different from EXE</li><li>➤ Types of DLL</li><li>➤ Types of Assemblies</li><li>➤ Global Assembly Cache</li></ul>	3	12.06.2019
6	<b>Exception Handling</b> <ul style="list-style-type: none"><li>➤ Defining Exception</li><li>➤ Understandings try and catch keywords</li><li>➤ Creating User defined/Custom Exception class</li></ul>	3	12. 06.2019
7	<b>IO Streams</b> <ul style="list-style-type: none"><li>➤ What is a streams?</li><li>➤ Serialization / Deserialization</li></ul>	3	13. 06.2019
8	<b>Developing GUI Application Using WINFORMS</b>	5	13. 06.2019

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	<ul style="list-style-type: none"><li>➤ Basic Controls</li><li>➤ Panel &amp; Layouts Drawing and GDI Devices</li><li>➤ Working with Resource Files and Setting</li><li>➤ Notify Icon Controls</li></ul>		
9	<b>Database Programming Using ADO.NET</b> <ul style="list-style-type: none"><li>➤ Prerequisite - Knowledge of SQL Queries</li><li>➤ Introduction and Evolution of ADO.NET</li><li>➤ How to implement Login facility with database</li><li>➤ Use of Multiple Active Result Sets</li></ul>	4	14. 06.2019
10	<b>Packaging and Deployment</b> <ul style="list-style-type: none"><li>➤ File System Editor Registry Editor</li><li>➤ Launch Condition Editor</li><li>➤ Creating Uninstall Shortcut</li></ul>	5	15. 06.2019
11	<b>Exam</b>	1	15. 06.2019
<b>Total Hours</b>		<b>36</b>	-

  
VAC Coordinator

  
HoD/CSE



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Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

## Value Added Course

C#

## STUDENTS PARTICIPATION LIST

S.No.	Reg.No	Student's Name	Year/ Branch
1.	811215104001	Abhinaya. R	IV/CSE
2.	811215104002	Abirami.A	IV/CSE
3.	811215104003	Apporvavalli.A	IV/CSE
4.	811215104004	Aravinth.B	IV/CSE
5.	811215104005	Balaji.G	IV/CSE
6.	811215104006	Balaji.G	IV/CSE
7.	811215104007	Barani Kumar.M	IV/CSE
8.	811215104009	Denima.A	IV/CSE
9.	811215104010	Dhurga Devi.M	IV/CSE
10.	811215104013	Giridharani.S	IV/CSE
11.	811215104014	Gokila.R	IV/CSE
12.	811215104015	Gomathi.A	IV/CSE
13.	811215104016	Hema.P	IV/CSE
14.	811215104017	Hemasivasankari.S	IV/CSE
15.	811215104018	Indhu.S	IV/CSE
16.	811215104019	Indira.K.J	IV/CSE
17.	811215104020	Kanaga Raj.P	IV/CSE
18.	811215104021	Keerthana.R.R	IV/CSE
19.	811215104022	Keerthana.S	IV/CSE
20.	811215104023	Mani Kandan.A	IV/CSE
21.	811215104024	Mani Kandan.P	IV/CSE
22.	811215104025	Meena.A	IV/CSE
23.	811215104026	Murali.S	IV/CSE
24.	811215104027	Narkis Banu.A	IV/CSE
25.	811215104028	Nirosha.K	IV/CSE

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S.No.	Reg.No	Student's Name	Year/ Branch
26.	811215104029	Pradeep.T	IV/CSE
27.	811215104030	Praveen Kumar.V	IV/CSE
28.	811215104031	Prem Kumar.N	IV/CSE
29.	811215104032	Priya.M	IV/CSE
30.	811215104033	Priyanga.P	IV/CSE
31.	811215104034	Rajmohan.V	IV/CSE
32.	811215104035	Ramalakshmi.M	IV/CSE
33.	811215104036	Ramya.K	IV/CSE
34.	811215104037	Roselin Lithveena.J	IV/CSE
35.	811215104038	Sangeetha.I	IV/CSE
36.	811215104039	Saranya.M	IV/CSE
37.	811215104040	Shabika Banu.B	IV/CSE
38.	811215104041	Subashree.M	IV/CSE
39.	811215104042	Subathradevi.C	IV/CSE
40.	811215104043	Suganya.S	IV/CSE
41.	811215104044	Suhashini.R	IV/CSE
42.	811215104047	Yogapriya.B	IV/CSE
43.	811215104301	Annalakshmi.G	IV/CSE
44.	811215104302	Rangeela.T	IV/CSE
45.	811216104002	Anjaladevi J	III/CSE
46.	811216104003	Aparna S	III/CSE
47.	811216104004	Archana T	III/CSE
48.	811216104005	Bakkiya V	III/CSE
49.	811216104007	Banumathi D	III/CSE
50.	811216104008	Dhanush S	III/CSE
51.	811216104009	Dhivya B	III/CSE
52.	811216104010	Divya R	III/CSE
53.	811216104011	Ganeshkumar A	III/CSE
54.	811216104012	Gobala Krishnan R	III/CSE
55.	811216104013	Gunasekar P	III/CSE
56.	811216104014	Jothika R	III/CSE
57.	811216104015	Karthikeyan J	III/CSE

  
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Academic Year 2018-2019 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch
58.	811216104016	Keerthana K	III/CSE
59.	811216104017	Keerthana P	III/CSE
60.	811216104018	Kirubakaran M	III/CSE
61.	811216104019	Kiruthika R	III/CSE
62.	811216104020	Meenakshi S	III/CSE
63.	811216104021	Naveen K	III/CSE
64.	811216104022	Naveenkumar S	III/CSE
65.	811216104023	Neroson Kiosus N	III/CSE
66.	811216104024	Pavithra G	III/CSE
67.	811216104026	Pavithra.R	III/CSE
68.	811216104027	Prabakar R	III/CSE
69.	811216104028	Racika R	III/CSE
70.	811216104029	Rahul S	III/CSE
71.	811216104030	Revathi N	III/CSE
72.	811216104031	Saranya A	III/CSE
73.	811216104032	Saranya M	III/CSE
74.	811216104033	Saravanan M	III/CSE
75.	811216104034	Sharun Prabu A	III/CSE
76.	811216104035	Soundharya J	III/CSE
77.	811216104036	Tamilselvam M	III/CSE
78.	811216104038	Tharik A	III/CSE
79.	811216104039	Varsha S	III/CSE
80.	811216104040	Vigneshwarachari S	III/CSE
81.	811216104041	Vijayalakshmi M	III/CSE
82.	811216104042	Vijayalakshmi P	III/CSE
83.	811216104043	Vinitha M	III/CSE
84.	811216104044	Vinitha Devi P	III/CSE
85.	811216104045	Yogeshwaran S	III/CSE
86.	811216104046	Yuvasri T	III/CSE
87.	811217104001	Aarthi J	II/CSE
88.	811217104002	Deepika N	II/CSE
89.	811217104003	Dhanalakshmi R	II/CSE

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Academic Year 2018-2019 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch
90.	811217104004	Goadhar Fathima S	II/CSE
91.	811217104005	Gowtham Raaj K	II/CSE
92.	811217104007	Jeya Pratha A	II/CSE
93.	811217104008	Jickson S	II/CSE
94.	811217104009	Kamatchi V	II/CSE
95.	811217104010	Kokila V	II/CSE
96.	811217104011	Lakshmi Priya M	II/CSE
97.	811217104012	Naveen R	II/CSE
98.	811217104013	Panneer Selvam R	II/CSE
99.	811217104014	Princy Deepa X	II/CSE
100.	811217104015	Raghul L	II/CSE
101.	811217104016	Salma Banu M	II/CSE
102.	811217104017	Seebika M	II/CSE
103.	811217104019	Siva Sankari S	II/CSE
104.	811217104020	Swathi M	II/CSE
105.	811217104022	Vasuki M	II/CSE
106.	811217104023	Yogesh Kannan P H	II/CSE
107.	811217405001	Padmadevi A	II/M.E CSE
108.	811217405002	Panimalar V	II/M.E CSE
109.	811217405003	Sankari R	II/M.E CSE
110.	811217405004	Shanmuga Priya M	II/M.E CSE
111.	811217405005	Suganya A	II/M.E CSE
112.	811218405001	Aswini. M	I/M.E CSE
113.	811218405002	Gwendolyn Rosetta.G	I/M.E CSE
114.	811218405003	Harish.V	I/M.E CSE
115.	811218405004	Nirmala.N	I/M.E CSE

  
VAC Coordinator



  
HoD/CSE

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Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

## STUDENTS ATTENDANCE LIST

### Value Added Course

C#

Dr. G. Balakrishnan, M.E., Ph.D.,  
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S.No.	Reg.No	Student's Name	Year/ Branch	10.06.19		11.06.19		12.06.19		13.06.19		14.06.19		15.06.19		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1.	811215104001	Abhinaya. R	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	R. Abhinaya
2.	811215104002	Abirami.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	A. Abirami
3.	811215104003	Apporvavalli.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	A. Apporvavalli
4.	811215104004	Aravinth.B	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	B. Aravinth
5.	811215104005	Balaji.G	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	G. Balaji
6.	811215104006	Balaji.G	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	G. Balaji
7.	811215104007	Barani Kumar.M	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	M. Barani
8.	811215104009	Denima.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	A. Denima
9.	811215104010	Dhurga Devi.M	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	M. Dhurga Devi
10.	811215104013	Giridharani.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	S. Giridharani
11.	811215104014	Gokila.R	IV/CSE	P	P	P	P	P	P	P	P	P	A	P	P	11	R. Gokila
12.	811215104015	Gomathi.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	A. Gomathi
13.	811215104016	Hema.P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	P. Hema
14.	811215104017	Hemasivasankari.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	S. Hemasivasankari





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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

15.	811215104018	Indhu.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	S. Indhu
16.	811215104019	Indira.K.J	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	K.J. Indira
17.	811215104020	Kanaga Raj.P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Kanaga Raj
18.	811215104021	Keerthana.R.R	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Keerthana.R.R
19.	811215104022	Keerthana.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	11	Keerthana.S
20.	811215104023	Mani Kandan.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Mani Kandan.A
21.	811215104024	Mani Kandan.P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Mani Kandan.P
22.	811215104025	Meena.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Meena.A
23.	811215104026	Murali.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Murali.S
24.	811215104027	Narkis Banu.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Narkis Banu.A
25.	811215104028	Nirosha.K	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Nirosha.K
26.	811215104029	Pradeep.T	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Pradeep.T
27.	811215104030	Praveen Kumar.V	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Praveen Kumar.V
28.	811215104031	Prem Kumar.N	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Prem Kumar.N
29.	811215104032	Priya.M	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Priya.M
30.	811215104033	Priyanga.P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Priyanga.P
31.	811215104034	Rajmohan.V	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Rajmohan.V
32.	811215104035	Ramalakshmi.M	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Ramalakshmi.M
33.	811215104036	Ramya.K	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Ramya.K
34.	811215104037	Roselin Lithveena.J	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	18	Roselin Lithveena.J

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

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Principal  
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35.	811215104038	Sangeetha.I	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
36.	811215104039	Saranya.M	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
37.	811215104040	Shabika Banu.B	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
38.	811215104041	Subashree.M	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
39.	811215104042	Subathradevi.C	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
40.	811215104043	Suganya.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
41.	811215104044	Suhashini.R	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
42.	811215104047	Yogapriya.B	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
43.	811215104301	Annalakshmi.G	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
44.	811215104302	Rangeela.T	IV/CSE	P	P	P	P	P	A	P	P	P	P	P	P	18	
45.	811216104002	Anjaladevi J	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	11	
46.	811216104003	Aparna S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
47.	811216104004	Archana T	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
48.	811216104005	Bakkiya V	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
49.	811216104007	Banumathi D	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
50.	811216104008	Dhanush S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
51.	811216104009	Dhivya B	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
52.	811216104010	Divya R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
53.	811216104011	Ganeshkumar A	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	
54.	811216104012	Gobala Krishnan R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	18	





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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

55.	811216104013	Gunasekar P	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Gunasekar P
56.	811216104014	Jothika R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Jothika R
57.	811216104015	Karthikeyan J	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Karthikeyan J
58.	811216104016	Keerthana K	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Keerthana K
59.	811216104017	Keerthana P	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Keerthana P
60.	811216104018	Kirubakaran M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Kirubakaran M
61.	811216104019	Kiruthika R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Kiruthika R
62.	811216104020	Meenakshi S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Meenakshi S
63.	811216104021	Naveen K	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	10	Naveen K
64.	811216104022	Naveenkumar S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Naveenkumar S
65.	811216104023	Neroson Kiosus N	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Neroson Kiosus N
66.	811216104024	Pavithra G	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Pavithra G
67.	811216104026	Pavithra.R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Pavithra.R
68.	811216104027	Prabakar R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Prabakar R
69.	811216104028	Racika R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Racika R
70.	811216104029	Rahul S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Rahul S
71.	811216104030	Revathi N	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Revathi N
72.	811216104031	Saranya A	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Saranya A
73.	811216104032	Saranya M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Saranya M
74.	811216104033	Saravanan M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Saravanan M
75.	811216104034	Sharun Prabu A	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Sharun Prabu A





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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

76.	811216104035	Soundharya J	III/CSE	P	P	P	P	A	P	P	P	P	P	P	P	19	J. Soundharya
77.	811216104036	Tamilselvam M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	M. Tamilselvam
78.	811216104038	Tharik A	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	A. Tharik
79.	811216104039	Varsha S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	S. Varsha
80.	811216104040	Vigneshwarachari S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	S. Vigneshwarachari
81.	811216104041	Vijayalakshmi M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	M. Vijayalakshmi
82.	811216104042	Vijayalakshmi P	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	P. Vijayalakshmi
83.	811216104043	Vinitha M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	M. Vinitha
84.	811216104044	Vinitha Devi P	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	P. Vinitha Devi
85.	811216104045	Yogeshwaran S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	S. Yogeshwaran
86.	811216104046	Yuvasri T	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	T. Yuvasri
87.	811217104001	Aarthi J	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	J. Aarthi
88.	811217104002	Deepika N	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	N. Deepika
89.	811217104003	Dhanalakshmi R	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	R. Dhanalakshmi
90.	811217104004	Goadhar Fathima S	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	S. Goadhar Fathima
91.	811217104005	Gowtham Raaj K	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	K. Gowtham Raaj
92.	811217104007	Jeya Pratha A	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	A. Jeya Pratha
93.	811217104008	Jickson S	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	S. Jickson
94.	811217104009	Kamatchi V	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	V. Kamatchi
95.	811217104010	Kokila V	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	19	V. Kokila
96.	811217104011	Lakshmi Priya M	II/CSE	P	P	P	P	P	P	P	P	A	A	P	P	19	M. Lakshmi Priya



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## Department of Computer Science & Engineering

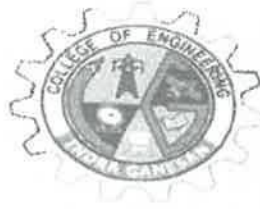
Academic Year 2018-2019 – Even Semester

97.	811217104012	Naveen R	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Naveen
98.	811217104013	Panneer Selvam R	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Panneer Selvam
99.	811217104014	Princy Deepa X	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Princy Deepa
100.	811217104015	Raghul L	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Raghul
101.	811217104016	Salma Banu M	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Salma
102.	811217104017	Seebika M	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Seebika
103.	811217104019	Siva Sankari S	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Siva Sankari
104.	811217104020	Swathi M	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	11	Swathi
105.	811217104022	Vasuki M	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Vasuki
106.	811217104023	Yogesh Kannan P H	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Yogesh Kannan
107.	811217405001	Padmadevi A	II/ M.E CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Padmadevi
108.	811217405002	Panimalar V	II/ M.ECSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Panimalar
109.	811217405003	Sankari R	II/ M.E CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Sankari
110.	811217405004	Shanmuga Priya M	II/ M.E CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Shanmuga Priya
111.	811217405005	Suganya A	II/ M.E CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Suganya

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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

112.	811218405001	Aswini. M	I/M.E CSE	P	P	P	P	P	P	P	P	P	P	P	P	10	Aswini
113.	811218405002	Gwendolyn Rosetta.G	I.M.E CSE	P	P	P	P	P	P	P	P	P	P	P	P	10	G. Rosetta
114.	811218405003	Harish.V	I.M.E CSE	P	P	P	P	P	P	P	P	P	P	P	P	10	V. Harish
115.	811218405004	Nirmala.N	I.M.E CSE	P	P	P	P	P	P	P	P	P	P	P	P	10	N. Nirmala

  
VAC Coordinator



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HoD/CSE





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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

Name of the Student : Swathi . M

Year/Sem: II / IV

AU Register Number: 811217104020

Value Added Course on "C#"

### MCO QUESTIONS (25X4 = 100 Marks)

1. Which of the following is a contextual keyword in C#?

A - get

B - set

C - add

D - All of the above.

2. Which of the following is correct about dynamic Type in C#?

A - You can store any type of value in the dynamic data type variable.

B - Type checking for these types of variables takes place at run-time.

C - Both of the above.

D - None of the above.

3. Which of the following converts a type to a signed byte type in C#?

A - ToInt64

B - ToSbyte

C - ToSingle

D - ToInt32

4. Which of the following method copies the actual value of an argument into the formal parameter of the function?

A - Value parameters

B - Reference parameters

C - Output parameters

D - None of the above.

  
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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

17. Who is the founder of C# programming language?

- A. Anders Hejlsberg
- B. Douglas Rockford
- C. Rasmus Lerdorf
- D. Brendan Eich

18. Is C# a type safe programming language?

- A. Yes
- B. No

19. Is C# a structured programming language?

- A. Yes
- B. No

20. CLR stands for \_\_\_\_.

- A. Common Type System
- B. Common Language Specification
- C. Common Language Runtime
- D. Java Virtual Machine

21. .Net CLR is equivalent to?

- A. Common Type System
- B. Common Language Specification
- C. Common Language Runtime
- D. Java Virtual Machine

22. What is CLR in C#?

- A. It is a virtual machine component of Microsoft .NET Framework
- B. It is a virtual machine component of JVM
- C. It is a compiler to compile the C# code
- D. All of the above

  
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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

23. What does the CLR in C# do?

- A. Manages the execution of Webpages programs
- B. Manages the parsing of the various types
- C. Manages the execution of .NET programs
- D. All of the above

24. SOAP in C# stands for \_\_\_\_.

- A. Simple Object Access Protocol
- B. Simple Object Access Program
- C. Standard Object Access Protocol
- D. Standard Object Access Program

25. Every C# statement is terminated by \_\_\_\_.

- A. Colon (:)
- B. Semicolon (;)
- C. Comma (,)
- D. Dot (.)

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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

Name of the Student : P. HEMA

Year/Sem: 1<sup>st</sup> / 1<sup>st</sup>

AU Register Number: 811215104016

Value Added Course on "C#"

### MCQ QUESTIONS (25X4 = 100 Marks)

20  
25

1. Which of the following is a contextual keyword in C#?  
A - get  
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C - add  
 D - All of the above.
2. Which of the following is correct about dynamic Type in C#?  
A - You can store any type of value in the dynamic data type variable.  
B - Type checking for these types of variables takes place at run-time.  
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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

5. Which of the following operator casts without raising an exception if the cast fails in C#?
- A - ?:
  - B - is
  - C - as /
  - ~~D - \*~~
6. Which of the following is correct about null coalescing operator in C#?
- A - The null coalescing operator is used with the nullable value types and reference types.
  - B - It is used for converting an operand to the type of another nullable (or not) value type operand, where an implicit conversion is possible.
  - C - If the value of the first operand is null, then the operator returns the value of the second operand, otherwise it returns the value of the first operand.
  - D - All of the above.
7. Which of the following is the correct about class member variables?
- A - Member variables are the attributes of an object (from design perspective) and they are kept private to implement encapsulation.
  - B - These private variables can only be accessed using the public member functions.
  - C - Both of the above.
  - D - None of the above.
8. Operator overloading is a kind of dynamic polymorphism.
- A - true
  - ~~B - false~~
9. Which of the following preprocessor directive allows you to undefine a symbol in C#?
- A - define
  - B - undef
  - ~~C - region~~
  - D - endregion

  
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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

10. The SystemException class is the base class for all predefined system exception in C#?

- A - true
- B - false

11. C# is a programming language, developed by \_\_\_\_.

- A. Oracle
- B. Microsoft
- C. GNU project
- D. Google

12. C# runs on the \_\_\_\_.

- A. .NET Framework
- B. Java Virtual Machine
- C. Both A. and B.
- D. None of the above

13. C# programming language is used to develop -

- A. Web apps
- B. Desktop apps
- C. Mobiles apps
- D. All of the above

14. Is C# an object-oriented programming language?

- A. Yes
- B. No

15. Is C++ an alias of C#?

- A. Yes
- B. No

16. What is the extension of a C# language file?

- A. .c
- B. .cpp
- C. .cs
- D. .csp

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

## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester


### Value Added Course

“C#”

### ANSWER KEY

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

  
VAC Coordinator

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



# Indra Ganesan

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Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

*(Signature)*

## VALUE ADDED COURSE ASSESMENT

C#

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

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1.	811215104001	Abhinaya. R	IV/CSE	36	100	20	80	90
2.	811215104002	Abirami.A	IV/CSE	36	100	15	60	80
3.	811215104003	Apporvavalli.A	IV/CSE	36	100	19	76	88
4.	811215104004	Aravinth.B	IV/CSE	36	100	22	88	94
5.	811215104005	Balaji.G	IV/CSE	36	100	18	72	86
6.	811215104006	Balaji.G[29.1.98]	IV/CSE	36	100	17	68	84
7.	811215104007	Barani Kumar.M	IV/CSE	36	100	18	72	86
8.	811215104009	Denima.A	IV/CSE	36	100	17	68	84
9.	811215104010	Dhurga Devi.M	IV/CSE	36	100	16	64	82
10.	811215104013	Giridharani.S	IV/CSE	36	100	16	64	82
11.	811215104014	Gokila.R	IV/CSE	33	92	20	80	86
12.	811215104015	Gomathi.A	IV/CSE	36	100	20	80	86
13.	811215104016	Hema.P	IV/CSE	36	100	20	88	90





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### Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
14.	811215104017	Hemasivasankari.S	IV/CSE	36	100	17	68	84
15.	811215104018	Indhu.S	IV/CSE	36	100	19	76	88
16.	811215104019	Indira.K.J	IV/CSE	36	100	19	76	88
17.	811215104020	Kanaga Raj.P	IV/CSE	36	100	20	80	90
18.	811215104021	Keerthana.R.R	IV/CSE	36	100	16	64	82
19.	811215104022	Keerthana.S	IV/CSE	33	92	16	64	78
20.	811215104023	Mani Kandan.A	IV/CSE	36	100	22	88	94
21.	811215104024	Mani Kandan.P	IV/CSE	36	100	18	72	86
22.	811215104025	Meena.A	IV/CSE	36	100	22	88	94
23.	811215104026	Murali.S	IV/CSE	36	100	22	88	94
24.	811215104027	Narkis Banu.A	IV/CSE	36	100	20	80	90
25.	811215104028	Nirosha.K	IV/CSE	36	100	20	80	90
26.	811215104029	Pradeep.T	IV/CSE	36	100	15	60	84

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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
27.	811215104030	Praveen Kumar.V	IV/CSE	36	100	19	76	88
28.	811215104031	Prem Kumar.N	IV/CSE	36	100	22	88	94
29.	811215104032	Priya.M	IV/CSE	36	100	18	72	86
30.	811215104033	Priyanga.P	IV/CSE	36	100	17	68	84
31.	811215104034	Rajmohan.V	IV/CSE	36	100	18	72	86
32.	811215104035	Ramalakshmi.M	IV/CSE	36	100	17	68	84
33.	811215104036	Ramya.K	IV/CSE	36	100	16	64	82
34.	811215104037	Roselin Lithveena.J	IV/CSE	36	100	16	64	82
35.	811215104038	Sangeetha.I	IV/CSE	36	100	20	80	90
36.	811215104039	Saranya.M	IV/CSE	36	100	20	80	90
37.	811215104040	Shabika Banu.B	IV/CSE	36	100	22	88	94
38.	811215104041	Subashree.M	IV/CSE	36	100	17	68	84

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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
39.	811215104042	Subathradevi.C	IV/CSE	36	100	19	76	88
40.	811215104043	Suganya.S	IV/CSE	36	100	19	76	88
41.	811215104044	Suhashini.R	IV/CSE	36	100	20	80	90
42.	811215104047	Yogapriya.B	IV/CSE	36	100	16	64	82
43.	811215104301	Annalakshmi.G	IV/CSE	36	100	16	64	82
44.	811215104302	Rangeela.T	IV/CSE	33	92	22	88	90
45.	811216104002	Anjaladevi J	III/CSE	36	100	18	72	86
46.	811216104003	Aparna S	III/CSE	36	100	22	88	94
47.	811216104004	Archana T	III/CSE	36	100	22	88	94
48.	811216104005	Bakkiya V	III/CSE	36	100	20	80	90
49.	811216104007	Banumathi D	III/CSE	36	100	20	80	90
50.	811216104008	Dhanush S	III/CSE	36	100	15	60	80
51.	811216104009	Dhivya B	III/CSE	36	100	19	76	88

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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
52.	811216104010	Divya R	III/CSE	36	100	22	88	94
53.	811216104011	Ganeshkumar A	III/CSE	36	100	18	72	86
54.	811216104012	Gobala Krishnan R	III/CSE	36	100	17	68	84
55.	811216104013	Gunasekar P	III/CSE	36	100	18	72	86
56.	811216104014	Jothika R	III/CSE	36	100	17	68	84
57.	811216104015	Karthikeyan J	III/CSE	36	100	16	64	82
58.	811216104016	Keerthana K	III/CSE	36	100	16	64	82
59.	811216104017	Keerthana P	III/CSE	36	100	20	80	90
60.	811216104018	Kirubakaran M	III/CSE	36	100	20	80	90
61.	811216104019	Kiruthika R	III/CSE	36	100	22	88	94
62.	811216104020	Meenakshi S	III/CSE	30	83	17	68	76
63.	811216104021	Naveen K	III/CSE	36	100	19	76	88
64.	811216104022	Naveenkumar S	III/CSE	36	100	19	76	88

  
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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
65.	811216104023	Neroson Kiosus N	III/CSE	36	100	20	80	90
66.	811216104024	Pavithra G	III/CSE	36	100	16	64	82
67.	811216104026	Pavithra.R	III/CSE	36	100	16	64	82
68.	811216104027	Prabaha R	III/CSE	36	100	22	88	94
69.	811216104028	Racika R	III/CSE	36	100	18	72	86
70.	811216104029	Rahul S	III/CSE	36	100	22	88	94
71.	811216104030	Revathi N	III/CSE	36	100	22	88	94
72.	811216104031	Saranya A	III/CSE	36	100	20	80	90
73.	811216104032	Saranya M	III/CSE	36	100	20	80	90
74.	811216104033	Saravanan M	III/CSE	36	100	15	60	80
75.	811216104034	Sharun Prabu A	III/CSE	36	100	19	76	88
76.	811216104035	Soundharya J	III/CSE	36	100	22	88	94
77.	811216104036	Tamilselvam M	III/CSE	36	100	18	72	86

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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
78.	811216104038	Tharik A	III/CSE	36	100	17	68	84
79.	811216104039	Varsha S	III/CSE	36	100	18	72	86
80.	811216104040	Vigneshwarachari S	III/CSE	36	100	17	68	84
81.	811216104041	Vijayalakshmi M	III/CSE	36	100	16	64	82
82.	811216104042	Vijayalakshmi P	III/CSE	36	100	16	64	82
83.	811216104043	Vinitha M	III/CSE	36	100	20	80	90
84.	811216104044	Vinitha Devi P	III/CSE	36	100	20	80	90
85.	811216104045	Yogeshwaran S	III/CSE	36	100	22	88	94
86.	811216104046	Yuvasri T	III/CSE	36	100	17	68	84
87.	811217104001	Aarthi J	IV/CSE	36	100	19	76	88
88.	811217104002	Deepika N	IV/CSE	36	100	19	76	88
89.	811217104003	Dhanalakshmi R	IV/CSE	36	100	20	80	90
90.	811217104004	Goadhar Fathima S	IV/CSE	36	100	16	64	82

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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
91.	811217104005	Gowtham Raaj K	II/CSE	36	100	16	64	82
92.	811217104007	Jeya Pratha A	II/CSE	36	100	22	88	94
93.	811217104008	Jickson S	II/CSE	36	100	18	72	86
94.	811217104009	Kamatchi V	II/CSE	36	100	22	88	94
95.	811217104010	Kokila V	II/CSE	36	100	22	88	94
96.	811217104011	Lakshmi Priya M	II/CSE	30	83	20	80	82
97.	811217104012	Naveen R	II/CSE	36	100	20	80	90
98.	811217104013	Panneer Selvam R	II/CSE	36	100	20	80	90
99.	811217104014	Princy Deepa X	II/CSE	36	100	20	80	90
100	811217104015	Raghul L	II/CSE	36	100	15	60	80
101	811217104016	Salma Banu M	II/CSE	36	100	19	76	88
102	811217104017	Seebika M	II/CSE	36	100	22	88	94
103	811217104019	Siva Sankari S	II/CSE	33	92	18	72	82

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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

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				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
104	811217104020	Swathi M	II/CSE	36	100	17	68	84
105	811217104022	Vasuki M	II/CSE	36	100	18	72	86
106	811217104023	Yogesh Kannan P H	II/CSE	36	100	17	68	84
107	811217405001	Padmadevi A	II/M.E	36	100	16	64	82
108	811217405002	Panimalar V	II/M.E	36	100	16	64	82
109	811217405003	Sankari R	II/M.E	36	100	20	80	90
110	811217405004	Shanmuga Priya M	II/M.E	36	100	20	80	90
111	811217405005	Suganya A	II/M.E	36	100	22	88	94
112	811218405001	Aswini. M	I/M.E	36	100	17	68	84
113	811218405002	Gwendolyn Rosetta.G	I/M.E	36	100	19	76	88
114	811218405003	Harish.V	I/M.E	36	100	19	76	88
115	811218405004	Nirmala.N	I/M.E	36	100	20	80	90

  
VAC Coordinator



  
HoD/CSE

Dr. G. Balakrishnan, M.E., Ph.D.,  
Principal  
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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

### Report on Value Added Course

Title:

C#

Resource Person:

Mrs. Sankari,  
Project Manager,  
Flink Technologies,  
Kumbakonam

Mr. M. Krishnan,  
Trainer Flink Technologies  
Kumbakonam

Date of conduct from :

10.06.2019

To:

15.06.2019

Duration:

36 Hours

Organized Department :

COMPUTER SCIENCE AND ENGINEERING

Participant Year:

UG-II,III,IV

PG-I,II

No. of Students Registered :

UG -106

PG - 09

TOTAL-115

Venue:

SD LAB & NETWORK LAB  
IGCE

**Outcome of Value Added Course (VAC): At the end of the Course, Students can able to**

- Know general knowledge in regard to C# programming language
- Gain knowledge in regard to general programming concepts.
- Develop comprehend C# cod.
- Apply the concepts of JDBC, Transaction processing, statement objects and Resultset to perform operations on Database
- Develop distributed web application using RMI, Servlets and JSP.
- Apply the concept of Cookies, Session, Enterprise JavaBeans and JAR files to develop server side applications

#### Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score =  $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

  
VAC Coordinator

  
HoD/CSE



  
Principal

Dr. G. Balakrishnan, M.E., Ph.D.,  
Principal  
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## Department of Computer Science & Engineering

Academic Year 2018-2019 – Even Semester

### Report on Value Added Course

Title: C#

Resource Person: Mrs. Sankari,  
Project Manager,  
Flink Technologies,  
Kumbakonam

Mr. M. Krishnan,  
Trainer Flink Technologies  
Kumbakonam

Date of conduct from : 10.06.2019 To: 15.06.2019 Duration: 36 Hours

Organized Department : COMPUTER SCIENCE AND ENGINEERING

Participant Year: UG-II,III,IV  
PG-I,II

No. of Students Registered : UG -106  
PG - 09  
TOTAL-115

Venue: SD LAB & NETWORK LAB  
IGCE

Sample Photo



*[Signature]*  
VAC Coordinator

*[Signature]*  
HoD/CSE

*[Signature]*  
Principal

*[Signature]*  
Dr. G. Balakrishnan, M.E., Ph.D.,  
Principal  
Indra Ganesan College of Engineering  
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Manikandam, Trichy-620 012.



# Indra Ganesan

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## CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. .... **Aarthi J** ..... of  
..... **III/CSE** ..... has successfully completed the Value Added Course on C#  
organized by Department of Computer Science and Engineering and Flink Technologies  
from 10<sup>th</sup> June 2019 to 15<sup>th</sup> June 2019 (6 days) during the Academic year 2018-2019.

*Flink Technologies*  
*Mrs. Sankari*  
*Project Manager*

*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 Mr/Ms. .... **Salma Banu M** ..... of  
..... **III/CSE** ..... has successfully completed the Value Added Course on C#  
organized by Department of Computer Science and Engineering and Flink Technologies  
from 10<sup>th</sup> June 2019 to 15<sup>th</sup> June 2019 (6 days) during the Academic year 2018-2019.

*Flink Technologies*  
*Mrs. Sankari*  
*Project Manager*

  
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 Mr/Ms. **Deepika N** of  
..... **II/CSE** ..... has successfully completed the Value Added Course on C#  
organized by Department of Computer Science and Engineering and Flink Technologies  
from 10<sup>th</sup> June 2019 to 15<sup>th</sup> June 2019 (6 days) during the Academic year 2018-2019.

*Flink Technologies*  
*Mrs. Sankari*  
*Project Manager*

  
Dr. G. Balakrishnan, M.E., Ph.D.,  
Principal  
Indra Ganesan College of Engineering  
IG Valley, Madurai Main Road  
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Principal  
IGCE




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## CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. .... **Kamatchi V** ..... of  
..... **III/CSE** ..... has successfully completed the Value Added Course on C#  
organized by Department of Computer Science and Engineering and Flink Technologies  
from 10<sup>th</sup> June 2019 to 15<sup>th</sup> June 2019 (6 days) during the Academic year 2018-2019.

*Flink Technologies*  
*Mrs. Sankari*  
*Project Manager*

  
Dr. G. Balakrishnan, M.E., Ph.D.,  
Principal  
Indra Ganesan College of Engineering  
IG Valley, Madurai Main Road  
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Principal  
IGCE



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## CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. .... **Jeya Pratha A** ..... of  
..... **II/CSE** ..... has successfully completed the Value Added Course on C#  
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*Project Manager*

*Dr. G. Balakrishnan M.E., Ph.D.,*  
*Principal*  
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IG Valley, Madurai Main Road  
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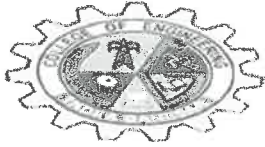


This is to certify that Mr/Ms. **Aparna S** ..... of  
..... **III.YEAR.CSE**..... has successfully completed the Value Added Course on C#  
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..... **III YEAR CSE** ..... has successfully completed the Value Added Course on C#  
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*This is to certify that Mr/Ms. .... **Banumathi D** ..... of  
..... **III YEAR CSE** ..... has successfully completed the Value Added Course on C#  
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This is to certify that Mr/Ms. **.....Gunasekar P.....** of  
**.....III YEAR.CSE.....** has successfully completed the Value Added Course on C#  
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**Mrs. Sankari**  
**Project Manager**

*[Signature]*  
**Dr. G. Balakrishnan, M.E., Ph.D.,**  
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..... **III YEAR CSE** ..... has successfully completed the Value Added Course on C#  
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This is to certify that Mr/Ms. .... **Murali.S** ..... of  
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This is to certify that Mr/Ms. .... **Mani Kandan.A** ..... of  
..... **FINAL YEAR CSE** ..... has successfully completed the Value Added Course on C#  
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This is to certify that Mr/Ms. .... **Kanaga Raj.P** ..... of  
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*This is to certify that Mr/Ms. .... Prem Kumar.N ..... of  
..... FINAL YEAR.CSE ..... has successfully completed the Value Added Course on C#  
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This is to certify that Mr/Ms. .... **Pradeep.T** ..... of  
..... **FINAL.YEAR.CSE** ..... has successfully completed the Value Added Course on C#  
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*Flink Technologies*  
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*This is to certify that Mr/Ms. .... **Nirosha.K** ..... of  
..... **FINAL YEAR.CSE** ..... has successfully completed the Value Added Course on C#  
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*This is to certify that Mr/Ms. .... **Meena.A** ..... of  
..... **FINAL.YEAR.CSE** ..... has successfully completed the Value Added Course on C#  
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..... **I.I.M.E.** ..... has successfully completed the Value Added Course on C#  
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