



### STUDENTS FEEDBACK ON CURRICULUM

This questionnaire is to collect information relating to your satisfaction towards curriculum for creating conducive atmosphere for teaching and learning. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution.

Academic Year	2017-18
Branch	Information Science & Engineering
Name of the Student	Bhavana P. J.
USN	18415IS034

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	How do you rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?	✓				
2	How do you rate the allocation of the credits to the courses?	✓				
3	Relevance for implementation in projects	✓				
4	How do you rate the electives offered in relation to the technological advancements?		✓			
5	How do rate the evaluation scheme designed for each of the course?		✓			
6	How do you rate the percentage of courses having LAB components?	✓				
7	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution	✓				

Suggestions: It was good and useful. Practical for Java Subject should be included

Signature  
Bhavana P. J.

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057



### STUDENTS FEEDBACK ON CURRICULUM

This questionnaire is to collect information relating to your satisfaction towards curriculum for creating conducive atmosphere for teaching and learning. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution.

Academic Year	2017-18
Branch	ISE
Name of the Student	Rantosh S. Y.
USN	15G15IS101

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	How do you rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?	✓				
2	How do you rate the allocation of the credits to the courses?	✓				
3	Relevance for implementation in projects	✓				
4	How do you rate the electives offered in relation to the technological advancements?		✓			
5	How do rate the evaluation scheme designed for each of the course?		✓			
6	How do you rate the percentage of courses having LAB components?	✓				
7	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution	✓				

Suggestions: J2EE Concepts would have been explained practically

Signature

Rantosh

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

### STUDENTS FEEDBACK ON CURRICULUM


This questionnaire is to collect information relating to your satisfaction towards curriculum for creating conducive atmosphere for teaching and learning. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution.

Academic Year	2017-18
Branch	ISE
Name of the Student	Aishwarya Muralidhar
USN	15G15IS009

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	How do you rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?	✓				
2	How do you rate the allocation of the credits to the courses?		✓			
3	Relevance for implementation in projects		✓			
4	How do you rate the electives offered in relation to the technological advancements?	✓				
5	How do rate the evaluation scheme designed for each of the course?		✓			
6	How do you rate the percentage of courses having LAB components?		✓			
7	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution	✓				

Suggestions: Labs for programming subjects would be useful

Signature 

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

### FACULTY FEEDBACK ON CURRICULUM

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, teaching, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution.

Academic Year	2017-18
Branch	ISE
Name of the Faculty	Ramya R
Designation	Assistant Professor
Subject/Sub. code	1SC5553

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?	✓				
2	Is the curriculum sufficient to bridge the gap between industry standards /current global scenarios and academics?	✓				
3	Is the timely coverage of curriculum possible in the mentioned number of hours?		✓			
4	Sufficient reference material and books are available for the topics mentioned in the curriculum?		✓			
5	The evaluation methods mentioned in the curriculum are sufficient for providing proper assessment?	✓				
6	Curriculum is suitable to the course		✓			
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area	✓				

Suggestions: Practical Session should be included.

Signature



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057



### FACULTY FEEDBACK ON CURRICULUM

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, teaching, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution.

Academic Year	2017-18
Branch	IT E
Name of the Faculty	Ambika. S
Designation	Assistant Professor
Subject/Sub. code	1SC5553

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?	✓				
2	Is the curriculum sufficient to bridge the gap between industry standards /current global scenarios and academics?	✓				
3	Is the timely coverage of curriculum possible in the mentioned number of hours?	✓				
4	Sufficient reference material and books are available for the topics mentioned in the curriculum?	✓				
5	The evaluation methods mentioned in the curriculum are sufficient for providing proper assessment?		✓			
6	Curriculum is suitable to the course		✓			
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area	✓				

Suggestions: Hands on training would be useful

Signature

Ambika. S

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057



SRI SRINIVASA EDUCATIONAL & CHARITABLE TRUST (R)  
**Sapthagiri College of Engineering**  
(Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi)

### ALUMNI FEEDBACK ON CURRICULUM

We are glad that you have spent valuable years pursuing courses of your choice at SCE. We shall be thankful if you can spare some of your valuable time to fill up this feedback form and give us valuable suggestions for further improvement of the College. Your valuable inputs will be of great use to improve the quality of our academic programs and enhance the credibility of our Institution. Rate the adequacy of following as they were during your tenure as a student

Year of Passing	2011
Branch	ISE
Name	Bharath Palaksha
Status : Work/Study	Working - Intuit
Phone no	9036570325

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
1	When you compare yourself with other counterparts from other Institution, you feel that you got most of all the facilities which is not available in other Institution	5	4	3	2	1
2	Learning value (in terms of skills, concepts, knowledge, analytical abilities or broadening perspectives)					
3	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution					
4	How do you rate the learning experience in terms of their relevance to the real life application					
5	Ability to work in teams					
6	Ability to link theory to practice					
7	How do you rate the course/curriculum content that you have learnt in relation to your current job					
8	Compatibility with industry standards					

Suggestions: Hands on session on java & J2EE would be useful to cope up with industry standards.

Signature

Bharath

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057



### ALUMNI FEEDBACK ON CURRICULUM

We are glad that you have spent valuable years pursuing courses of your choice at SCE. We shall be thankful if you can spare some of your valuable time to fill up this feedback form and give us valuable suggestions for further improvement of the College. Your valuable inputs will be of great use to improve the quality of our academic programs and enhance the credibility of our Institution. Rate the adequacy of following as they were during your tenure as a student

Year of Passing	2017-18
Branch	ISE
Name	Riyansa M. S.
Status : Work/Study	VR Developer
Phone no	9411719247

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	When you compare yourself with other counterparts from other Institution, you feel that you got most of all the facilities which is not available in other Institution	✓				
2	Learning value (in terms of skills, concepts, knowledge, analytical abilities or broadening perspectives)	✓				
3	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution		✓			
4	How do you rate the learning experience in terms of their relevance to the real life application		✓			
5	Ability to work in teams	✓				
6	Ability to link theory to practice	✓				
7	How do you rate the course/curriculum content that you have learnt in relation to your current job	✓				
8	Compatibility with industry standards	✓				

Suggestions: Please introduce practical Implementation that is trending in present IT firms in order to be skillfull according to Industrial standards.

Signature

*Riyansa M. S.*

Principal

Sapthagiri College of Engineering  
 Chikkasandra, Hesarghatta Road,  
 Bangalore-560 057

### FACULTY FEEDBACK ON CURRICULUM

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, teaching, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution.

Academic Year	2017-18
Branch	ESE
Name of the Faculty	Sowmya Somarath
Designation	Assistant Professor
Subject/Sub. code	IOT Technology

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent 5	Very good 4	Good 3	Average 2	Below Average 1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?	✓				
2	Is the curriculum sufficient to bridge the gap between industry standards /current global scenarios and academics?		✓			
3	Is the timely coverage of curriculum possible in the mentioned number of hours?	✓				
4	Sufficient reference material and books are available for the topics mentioned in the curriculum?	✓				
5	The evaluation methods mentioned in the curriculum are sufficient for providing proper assessment?	✓				
6	Curriculum is suitable to the course	✓				
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area	✓				

Suggestions: Practical implementation on IOT will be helpful for students to understand concepts.

Signature

*Sowmya*

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering






(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### CIRCULAR

Date: 21/05/2018

This is to inform that there will be a meeting of Academic committee members for analyzing curriculum syllabus of academic year 2018-19. The meeting is scheduled on 22/05/2018 at 10.30AM in HOD's chamber.

SI No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Prof. Prerana Chaithra	Associate Professor	
3	Prof. Ravichandra M.	Assistant Professor	
4	Prof. Gayathri R	Assistant Professor	
5	Prof. Ramya R	Assistant Professor	

HOD



Dr. H.R. Ranganatha

Prof. & H.O.D

Dept. of Information Science & Engg  
Sapthagiri College of Engin-  
# 14/5 Chikkasandra, Hesaraghatta Main Road, Bengaluru-560 057

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### MINUTES OF MEETING

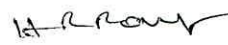




Date: 22/5/2018

With reference to circular dated on 21/05/2018, the academic committee member assembled in HOD's chamber for addressing the following agenda.

#### Agenda:

- Reviewing the department curriculum syllabus of Academic Year 2018-19
- Reviewing the feedback analysis of various stake holders of the academic year 2017-18
- Identifying the gaps
- Action to be taken for the identified gaps.

During the meeting the following members were present

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Prof. Prerana Chaithra	Associate Professor	
3	Prof. Ravichandra M.	Assistant Professor	
4	Prof. Gayathri R	Assistant Professor	
5	Prof. Ramya R	Assistant Professor	

The following points were discussed in the meeting

1. The committee members reviewed the department curriculum syllabus of academic year 2018-19.
2. The committee members discussed about the feedback of department curriculum syllabus of academic year 2017-18.
3. The members identified the gaps based on the analysis.
4. The following actions were taken for the gaps that are identified.

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Sl.No	Sem	Course Title	Identified Gap
1	V	ADVANCED JAVA & J2EE	Lack of practical implementation
2	VIII	IOT AND APPLICATION	Lack of practical implementation

### Action Taken:

Based on the feedback obtained from students, faculties and alumni, analysis of syllabus by department academic committee members, it was decided to conduct certification course on "Advanced JAVA and J2EE using Eclipse" and "IOT implementation using raspberry Pi" to overcome the gaps identified in the curriculum/syllabus.

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

HOD

Dr H.R. Ranganatha  
Prof. & H.O.D  
Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesareghatta Main Road, Bengaluru - 560057  
**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

Date: 25/05/2018

To

IQAC Coordinator  
Sapthagiri College of Engineering  
Bengaluru-560 057

Respected sir,

Subject: Requisition for conduction of certification program and approval from Governing Council.

With respect to the Academic committee members meeting held for analyzing department curriculum/syllabus for the academic year 2018-19. The committee members identified few gaps after analyzing the syllabus and feedback from the stakeholders. To bridge the gaps identified in the curriculum, the committee members decided to conduct a certification program on "ADVANCED JAVA & J2EE USING ECLIPSE" and "IOT IMPLEMENTATION USING RASPBERRY PI" for the academic year 2018-19. So, I request you to forward and get the approval from the governing council for the same.

Thanking You,

Enclosure: Budget Proposal

Forwarded for G.C. approval

& ratification.

H.R. Ranganna

H.R. Ranganna

HOD

Dr. H.R. Ranganna

Prof. & H.O.D.

Dept. of Information Science & Engg  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesareghatta Main Road  
BENGALURU-560 057

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesareghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Date: 25/05/2018

To,

IQAC Coordinator  
Sapthagiri College of Engineering  
Bangalore - 560057.

Respected Sir,

Subject: Budget Proposal for conduction of certification program on "Advanced Java & J2EE using eclipse"

The Budget Proposal for conduction a certification program on "Advanced Java & J2EE using eclipse" from 23-Jul-2018 to 27-Jul-2018 is hereby enclosed for your kind consideration and approval.

The details of the Recurring budget are given as follows:-

Recurring Amount:

Sl. No.	Description	Quantity	Amount in Rs.
1	Bouquet	1	200
2	Certificates	Students	1500
3	Others		1300
Total			3000

Forwarded for C.C approval

of 25/5/2018

Harary

Harary

HOD

B

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)






#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### CIRCULAR

Date: 11/07/2018

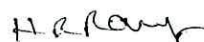
This is to inform that the following Academic Committee members are requested to attend the meeting on 12/07/2018 at 10.30AM in the HOD's chamber to decide the syllabus and the lesson plan for the certification program on "Advanced Java and J2EE using Eclipse.

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Prof. Prerana Chaithra	Associate Professor	
3	Prof. Ravichandra M.	Assistant Professor	
4	Prof. Gayathri R	Assistant Professor	
5	Prof. Ramya R	Assistant Professor	



**Principal**

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057



**HOD**

Dr. H.R. Ranganatha  
Prof. & H.O.D

Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Date: 10/07/2018

To,

Prof. Surya Prakash  
Assistant Professor,  
Department of CSE,  
Sapthagiri College of Engineering  
Bangalore - 560057.

Respected Sir,

Subject: Invitation as a "Guest Speaker" in certification program and to attend meeting to discuss about the certification program

Department of Information Science & Engineering have planned to conduct a certification program titled "Advanced Java & J2EE using Eclipse" from 23-07-2018 to 27-07-2018. In this connection, we are privileged to invite you as a guest speaker on the above mentioned topic.

Thanking you for your kind acceptance to our request on phone. We request you to attend the meeting to discuss about the conduction of certification course on 12/07/2018 10.30AM in the HODs chamber. We look forward to welcome you at SCE.

Thanking you

Yours faithfully



HOD



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

Stamp: Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### Minutes of Meeting

Date: 12/07/2018

A meeting was conducted on 12/07/2018 in ISE HOD's Chamber to discuss and approve the following about the 5 days Certification Course for ISE Students.

- **Course Title :** Advanced JAVA & J2EE using Eclipse
- **Resource Personnel :** Prof. Surya Prakash, Asst Professor, Dept of CSE, Sapthagiri College of Engineering, Bengaluru.
- **Course Duration & Date:** 5 Days from 23-Jul-2018 to 27-Jul-2018
- **Syllabus :**
  - Enumerations
  - Autoboxing
  - Collection Framework
  - String Handling
  - Event Handling
  - Swings
  - Servlets
  - Applet

### Lesson Plan of the certification program

Dates	SESSION 1 (8.30am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.00pm)	No. of Hours
23-7-2018 Monday	<ul style="list-style-type: none"> <li>• Enumerations</li> <li>• Autoboxing</li> <li>• Type Wrappers</li> </ul>	<ul style="list-style-type: none"> <li>• Annotations</li> <li>• I/O applet</li> <li>• Generics examples</li> </ul>	Hands on Enumerations and Autoboxing examples	6
24-7-2018 Tuesday	<ul style="list-style-type: none"> <li>• The Collection Frame Work Introduction</li> <li>• Collection Interface</li> <li>• Collection Classes</li> </ul>	<ul style="list-style-type: none"> <li>• Working with maps</li> <li>• The Map Interface</li> <li>• NavigableMap</li> <li>• The Map Classes</li> <li>• Comparators.</li> </ul>	Hands on Collections and comparators in JAVA	6
25-7-2018 Wednesday	<ul style="list-style-type: none"> <li>• String handling</li> <li>1.Special String operations</li> <li>2.String Comparisons</li> <li>3.Character Extraction</li> <li>4.String Buffer</li> </ul>	<ul style="list-style-type: none"> <li>• Event Handling</li> <li>1.Delegation Event Model</li> <li>2.Event Classes</li> <li>3.Event Listener Interfaces</li> </ul>	Hands on Sting handling and Event Handling	6

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

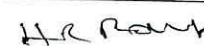





# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

26-7-2018 Thursday	<ul style="list-style-type: none"> <li>• Introducing Swings</li> <li>• Swing containers and Components</li> <li>• Swing Feature</li> <li>• Simple Swing Application</li> </ul>	<ul style="list-style-type: none"> <li>• Exploring Swings</li> <li>• Swing Buttons</li> <li>• JScrollPane</li> <li>• JComboBox</li> <li>• Trees</li> <li>• JTable .</li> <li>• Jtabbed Pane</li> </ul>	Hands on Swing Programming	6
27-7-2018 Friday	<ul style="list-style-type: none"> <li>• Introduction to Servlets.</li> <li>• Servlets Life Cycle</li> <li>• A Simple Servlet</li> <li>• Java Servlet Packages</li> </ul>	<ul style="list-style-type: none"> <li>• Applets Fundamentals</li> <li>• Invoking Overloaded Constructors using applets</li> </ul>	Hands on Servlet and Applet Programming. Test Conduction	6
Total				30

The following members were present in the meeting and the syllabus and lesson plan for the certification program has been decided.

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Prof. Prerana Chaithra	Associate Professor	
3	Prof. Ravichandra M.	Assistant Professor	
4	Prof. Gayathri R	Assistant Professor	
5	Prof. Ramya R	Assistant Professor	
6	Prof. Surya Prakash	Guest Speaker	

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560057

HOD

Dr. H. R Ranganatha  
HOD  
Department of Information Science & Engineering  
Sapthagiri College of Engineering  
#14/5 Chikkasandra, Hesaraghatta Road  
Bangalore-560057



# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### NOTICE

Date: 12/07/2018

As a part of programming skill development Department of Information Science and Engineering is conducting Five days Certification Course on **“Advanced Java and J2EE using Eclipse”** from 23-July-2018 to 27-July-2018

All the 3<sup>rd</sup> year students should attend the course compulsorily.

HOD

Dr. H.R. Ranganatha  
Prof. & H.O.D

Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057

Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

## ACADEMIC YEAR 2018-19

### 5 days Certification Program on “Advance JAVA & J2EE using Eclipse”

#### Students Enrollment

Sl.No.	USN	Student Name
1	ISG16IS001	AADITHYA AMAN
2	ISG16IS002	ABHIJIT KUMAR
3	ISG16IS003	AISHWARYA N
4	ISG16IS004	AISHWARYA G
5	ISG16IS005	AKSHAY H A
6	ISG16IS008	ANANYA
7	ISG16IS009	ANKIT NIRMALKAR
8	ISG16IS010	ANKIT SINHA
9	ISG16IS011	ANKITA KHAN
10	ISG16IS012	ANNAPOORNA M S
11	ISG16IS013	ANUJ RANJAN KUMAR
12	ISG16IS014	ARJUN CS
13	ISG16IS015	ARUN C
14	ISG16IS016	ASHISH KUMAR
15	ISG16IS017	ASHISH NAMBIAR
16	ISG16IS019	BADAL SHARMA
17	ISG16IS020	BRIJESH KUMAR
18	ISG16IS021	CHAITRA G BHAT
19	ISG16IS022	CHAITRA N
20	ISG16IS023	CHANDANA M
21	ISG16IS024	CHETAN KUMAR
22	ISG16IS025	DHANUSH K
23	ISG16IS026	G S NUTHAN
24	ISG16IS028	HARSHA V
25	ISG16IS029	JAYA THAKUR
26	ISG16IS031	JOSHNA P N
27	ISG16IS033	KARTHIK C KATTI
28	ISG16IS034	KARTHIK M M
29	ISG16IS035	KAVYA VASUDEV
30	ISG16IS036	KEERTHI.S


  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road.  
Bangalore-560057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Sl.No.	USN	Student Name
31	1SG16IS037	KUMAR AYUSH
32	1SG16IS039	LAKSHMAN SHARMA
33	1SG16IS040	LAVANYA S
34	1SG16IS041	LIKHITA B
35	1SG16IS042	M KUMAR SAURAV
36	1SG16IS043	MANAN V PATEL
37	1SG16IS045	MANJUSHREE T
38	1SG16IS046	MAYANK KUMAR V
39	1SG16IS047	MD AKRAM KAZMI
40	1SG16IS048	M RACHANA
41	1SG16IS049	MENAN DEEP
42	1SG16IS050	MILINDA B
43	1SG16IS051	MOHIT KUMAR
44	1SG16IS052	N NIVEDHA
45	1SG16IS053	NEHA H
46	1SG16IS054	NEHA P PATIL
47	1SG16IS055	NEHA RANI
48	1SG16IS056	NIDHI J
49	1SG16IS058	NIKHIL TOMAR
50	1SG16IS059	NIRANJAN HEGDE
51	1SG16IS060	NISHANTH KUMAR
52	1SG16IS062	OMKAR R
53	1SG16IS064	PAVITHRA P
54	1SG16IS065	PAYAL GUPTA
55	1SG16IS404	SANTHOSH C
56	1SG16IS133	NAGAMMA
57	1SG16IS132	SAMPRITHA K G
58	1SG15IS053	KRUTHIKA Y S
59	1SG15IS071	NAVYASHREE

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Sl No.	USN	Student Name
1	ISG15IS025	ASHWIN M
2	ISG15IS027	AVINABH
3	ISG15IS079	PRATHIK KUMAR
4	ISG15IS091	REHAN INAMDAR
5	ISG16IS066	PRABHAT PUNDIR
6	ISG16IS068	PRAGATHI.V
7	ISG16IS069	Y S PRANAV
8	ISG16IS070	PRASHANTH C
9	ISG16IS072	PRIYANKA B K
10	ISG16IS073	PUSHPAVATHI H S
11	ISG16IS074	RAGHAVENDRA L A
12	ISG16IS075	RAHUL KUMAR
13	ISG16IS076	RAHUL RAJU N
14	ISG16IS077	RAMESH V
15	ISG16IS079	RISHEE RAJ
16	ISG16IS080	RITWICK
17	ISG16IS081	ROBIN SINGH C
18	ISG16IS082	RUPAM PAUL
19	ISG16IS083	S GAYATHRI
20	ISG16IS084	S SURIYS RASHMI
21	ISG16IS085	SACHIN DOLTA
22	ISG16IS086	SACHIN R
23	ISG16IS087	SAHANA C
24	ISG16IS088	SAKSHAM BALLYAN
25	ISG16IS089	SAKSHAM PHADKE
26	ISG16IS090	SANATH KUMAR BHAT
27	ISG16IS091	SANATH S
28	ISG16IS092	SANCHITA HEGDE
29	ISG16IS093	SAURA M GAJBHIYE
30	ISG16IS094	SAURAV DUBEY
31	ISG16IS095	SEEMA R
32	ISG16IS096	SHAHEEN M
33	ISG16IS097	SHALINI K V
34	ISG16IS098	SHASHANK M BAIRY
35	ISG16IS100	SHEETHAL S



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

36	ISG16IS101	SHIVAM PANDEY
37	ISG16IS102	SHRAVAN KUMAR
38	ISG16IS103	SHREE RAKSHA R
39	ISG16IS104	SHREYA G
40	ISG16IS105	SHRUTI V BHAT
41	ISG16IS106	SINCHANA S BABU
42	ISG16IS107	SINDHU V.S
43	ISG16IS108	SOHAN VEMU
44	ISG16IS109	SOWKYA P K
45	ISG16IS110	SUKRUTHA M
46	ISG16IS111	SUNIL KUMAR K
47	ISG16IS112	SWASTIK HEGDE
48	ISG16IS113	TARUN KUMAR K M
49	ISG16IS115	USHA R
50	ISG16IS116	USHA S L
51	ISG16IS118	VARSHA G RAJ
52	ISG16IS119	VARSHA V
53	ISG16IS120	VARSHITHA J
54	ISG16IS123	VISHWARAJ VEER
55	ISG16IS124	VISHWAS VALAHATTI
56	ISG16IS126	VYOM MISHRA
57	ISG16IS127	ROHIT RAJUR
58	ISG16IS128	SREENATH
59	ISG16IS129	ABHISHEK HOLLA
60	ISG16IS130	ARSHAD MAKARANI
61	ISG16IS131	KARISHMA JAISWAL

  
**CO-ORDINATOR**

  
**HOD**

**Dr H.R. Ranganatha**  
**Prof. & H.O.D**

Dept. of Information Science & Engg  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057

  
**Principal**  
**Sapthagiri College of Engineering**  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “Advanced JAVA & J2EE using Eclipse”

#### Attendance

Sl No.	USN	Student Name	23/11/18		24/11/18		25/11/18		26/11/18		27/11/18		TEST
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	
1	ISG16IS001	AADITHYA AMAN	1	2	3	3	4	5	6	7	8	9	10
2	ISG16IS002	ABHIJIT KUMAR	1	2	2	3	4	5	6	7	8	9	10
3	ISG16IS003	AISHWARYA N	1	2	3	4	5	6	7	8	9	10	11
4	ISG16IS004	AISHWARYA G	1	2	3	4	5	6	7	8	9	10	11
5	ISG16IS005	AKSHAY H A	1	2	3	4	5	6	7	8	9	10	11
6	ISG16IS008	ANANYA	1	2	3	4	5	6	7	8	9	10	11
7	ISG16IS009	ANKIT NIRMALKAR	1	2	3	4	5	5	6	7	8	9	10
8	ISG16IS010	ANKIT SINHA	1	2	3	4	5	6	7	8	9	10	11
9	ISG16IS011	ANKITA KHAN	1	2	3	4	5	6	7	8	9	10	11
10	ISG16IS012	ANNAPOORNA M S	1	2	3	4	5	6	7	8	9	10	11
11	ISG16IS013	ANUJ RANJAN KUMAR	1	2	2	3	4	5	6	6	7	8	9
12	ISG16IS014	ARJUN CS	1	2	3	4	5	6	7	8	9	10	11
13	ISG16IS015	ARUN C	1	2	3	4	5	6	7	7	8	9	10
14	ISG16IS016	ASHISH KUMAR	1	2	3	4	5	6	7	8	9	10	11
15	ISG16IS017	ASHISH NAMBIAR	1	2	3	4	5	6	7	8	9	10	11
16	ISG16IS019	BADAL SHARMA	1	2	3	4	5	6	7	8	9	10	11
17	ISG16IS020	BRIJESH KUMAR	1	2	3	4	5	6	7	8	9	10	11
18	ISG16IS021	CHAITRA G BHAT	1	2	3	4	5	6	7	8	9	10	11
19	ISG16IS022	CHAITRA N	1	2	3	4	5	6	7	8	9	10	11
20	ISG16IS023	CHANDANA M	0	1	2	3	4	5	6	7	8	9	10
21	ISG16IS024	CHETAN KUMAR	1	2	3	4	5	6	7	7	8	9	10
22	ISG16IS025	DHANUSH K	1	2	3	4	5	5	6	7	8	9	10
23	ISG16IS026	G S NUTHAN	1	2	3	4	5	6	7	8	9	10	11
24	ISG16IS028	HARSHA V	1	2	3	4	5	6	7	8	9	10	11
25	ISG16IS029	JAYA THAKUR	1	2	3	4	5	6	7	8	9	9	10
26	ISG16IS031	JOSHNA P N	1	2	3	4	5	6	6	7	8	9	10
27	ISG16IS033	KARTHIK C KATTI	1	2	3	4	5	5	6	7	7	8	9
28	ISG16IS034	KARTHIK M M	1	2	3	4	5	6	7	8	9	10	11
29	ISG16IS035	KAVYA VASUDEV	1	2	3	4	5	6	7	8	9	10	11
30	ISG16IS036	KEERTHI S	1	2	3	4	5	6	7	8	9	10	11
31	ISG16IS037	KUMAR AYUSH	0	1	2	3	4	5	6	7	8	9	10

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Sl No.	USN	Student Name	23/11/2		24/11/2		25/11/2		26/11/2		27/11/2		TEST
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	
32	ISG16IS039	LAKSHMAN SHARMA	1	2	3	4	5	6	7	8	9	10	11
33	ISG16IS040	LAVANYA S	1	2	3	4	5	6	6	7	8	8	9
34	ISG16IS041	LIKHITA B	1	2	3	4	5	6	7	8	9	10	11
35	ISG16IS042	M KUMAR SAURAV	0	1	2	3	4	5	6	7	8	9	10
36	ISG16IS043	MANAN V PATEL	1	2	2	3	4	5	6	7	8	9	10
37	ISG16IS045	MANJUSHREE T	1	2	3	4	5	6	7	8	9	10	11
38	ISG16IS046	MAYANK KUMAR V	1	2	3	4	5	6	7	8	9	10	11
39	ISG16IS047	MD AKRAM KAZMI	1	2	3	3	4	5	6	7	8	9	10
40	ISG16IS048	M RACHANA	1	2	3	4	5	6	7	8	9	10	11
41	ISG16IS049	MENAN DEEP	1	2	3	4	5	6	7	8	9	10	11
42	ISG16IS050	MILINDA B	1	2	3	4	5	6	7	8	9	10	11
43	ISG16IS051	MOHIT KUMAR	0	1	2	3	4	5	6	7	7	8	9
44	ISG16IS052	N NIVEDHA	1	2	3	4	5	6	7	8	9	10	11
45	ISG16IS053	NEHA H	1	2	3	4	5	6	7	8	9	10	11
46	ISG16IS054	NEHA P PATIL	1	2	3	4	5	6	7	8	9	10	11
47	ISG16IS055	NEHA RANI	1	2	3	4	5	6	7	8	9	10	11
48	ISG16IS056	NIDHI J	1	2	3	4	5	6	7	8	9	10	11
49	ISG16IS058	NIKHIL TOMAR	1	2	2	3	4	5	6	7	8	9	10
50	ISG16IS059	NIRANJAN HEGDE	1	2	3	4	5	6	7	8	9	10	11
51	ISG16IS060	NISHANTH KUMAR	1	2	3	4	5	6	6	7	8	9	10
52	ISG16IS062	OMKAR R	1	2	2	3	4	5	5	6	7	8	9
53	ISG16IS064	PAVITHRA P	1	2	3	4	5	6	7	8	9	10	11
54	ISG16IS065	PAYAL GUPTA	1	2	3	4	5	6	7	8	9	10	11
55	ISG16IS404	SANTHOSH C	1	2	3	4	5	6	7	8	9	10	11
56	ISG16IS133	NAGAMMA	1	2	3	4	5	6	7	8	9	10	11
57	ISG16IS132	SAMPRITHA K G	1	2	3	4	5	6	7	8	9	10	11
58	ISG15IS053	KRUTHIKA Y S	1	2	2	3	4	5	6	7	8	9	10
59	ISG15IS071	NAVYASHREE	1	2	3	3	4	5	6	6	7	8	9
60	ISG15IS025	ASHWIN M	1	2	3	4	5	6	7	8	9	10	11
61	ISG15IS027	AVINABH	0	1	1	2	3	4	4	5	6	7	8
62	ISG15IS079	PRATHIK KUMAR	0	1	2	3	3	4	5	6	7	8	9
63	ISG15IS091	REHAN INAMDAR	1	2	3	4	5	6	7	8	9	9	10
64	ISG16IS066	PRABHAT PUNDIR	1	2	3	4	5	6	7	8	9	10	11
65	ISG16IS068	PRAGATHI.V	1	2	3	4	5	6	7	8	9	10	11
66	ISG16IS069	Y S PRANAV	1	2	3	4	5	6	7	8	9	10	11

Principal

Sapthagiri College of Engineering

Chikkasandra, Hesaraghatta Road,

Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Sl No.	USN	Student Name	23/11/23		24/11/23		25/11/23		26/11/23		27/11/23		TEST
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	
67	1SG16IS070	PRASHANTH C	1	2	3	4	5	6	7	8	9	10	11
68	1SG16IS072	PRIYANKA B K	1	2	3	4	5	6	7	8	9	10	11
69	1SG16IS073	PUSHPAVATHI H S	1	2	3	4	5	6	7	8	9	10	11
70	1SG16IS074	RAGHAVENDRA L A	1	2	3	3	4	5	6	7	8	9	10
71	1SG16IS075	RAHUL KUMAR	1	2	3	4	5	5	6	7	7	8	9
72	1SG16IS076	RAHUL RAJU N	1	2	3	4	5	6	7	8	9	10	11
73	1SG16IS077	RAMESH V	1	2	3	4	5	6	7	8	9	10	11
74	1SG16IS079	RISHEE RAJ	1	2	3	4	4	6	7	8	9	9	10
75	1SG16IS080	RITWICK	1	2	3	4	4	5	6	7	8	9	10
76	1SG16IS081	ROBIN SINGH C	1	2	3	4	5	6	7	8	8	9	10
77	1SG16IS082	RUPAM PAUL	1	2	3	4	5	6	7	8	9	10	11
78	1SG16IS083	S GAYATHRI	1	2	3	4	5	6	7	8	9	10	11
79	1SG16IS084	S SURIYS RASHMI	1	2	3	4	5	6	7	8	9	10	11
80	1SG16IS085	SACHIN DOLTA	1	1	2	3	4	5	6	7	8	9	10
81	1SG16IS086	SACHIN R	1	2	3	4	5	6	7	8	9	10	11
82	1SG16IS087	SAHANA C	1	2	3	4	5	6	7	8	9	10	11
83	1SG16IS088	SAKSHAM BALYAN	1	2	3	4	5	6	7	8	9	10	11
84	1SG16IS089	SAKSHAM PHADKE	1	2	3	4	5	6	7	8	9	10	11
85	1SG16IS090	SANATH KUMAR BHAT	0	1	2	3	4	5	6	7	8	9	10
86	1SG16IS091	SANATH S	0	1	2	3	4	5	6	6	7	8	9
87	1SG16IS092	SANCHITA HEGDE	1	2	3	4	5	6	7	8	9	10	11
88	1SG16IS093	SAURA M GAJBHIYE	1	2	3	4	5	6	7	8	9	10	11
89	1SG16IS094	SAURAV DUBEY	1	2	3	4	5	6	7	8	9	10	11
90	1SG16IS095	SEEMA R	1	2	3	4	5	6	7	8	9	10	11
91	1SG16IS096	SHAHEEN M	1	2	3	4	5	6	7	7	8	9	10
92	1SG16IS097	SHALINI K V	1	2	3	4	5	6	7	8	9	9	10
93	1SG16IS098	SHASHANK M BAIRY	1	2	3	4	5	6	7	8	9	10	11
94	1SG16IS100	SHEETHAL S	1	1	2	3	4	5	6	7	8	9	10
95	1SG16IS101	SHIVAM PANDEY	0	1	2	3	4	5	6	7	8	9	10
96	1SG16IS102	SHRAVAN KUMAR	1	2	3	4	5	6	7	8	9	10	11
97	1SG16IS103	SHREE RAKSHA R	1	2	2	3	4	5	6	7	7	8	9
98	1SG16IS104	SHREYA G	1	2	3	4	5	6	7	8	9	10	11
99	1SG16IS105	SHRUTI V BHAT	1	2	3	4	5	6	7	8	9	10	11
100	1SG16IS106	SINCHANA S BABU	1	2	3	4	5	6	7	8	9	10	11
101	1SG16IS107	SINDHU V.S	1	2	3	4	5	6	7	8	9	10	11

Principal

Sapthagiri College of Engineering

Chikkasandra, Hesaraghatta Road,

Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

SI No.	USN	Student Name	23/11/18		24/11/18		25/11/18		26/11/18		27/11/18		28/11/18
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	
102	ISG16IS108	SOHAN VEMU	1	2	3	4	5	6	7	8	9	10	11
103	ISG16IS109	SOWKYA P K	1	2	3	4	5	6	7	8	9	10	11
104	ISG16IS110	SUKRUTHA M	1	2	3	4	5	6	7	8	9	10	11
105	ISG16IS111	SUNIL KUMAR K	1	2	2	3	4	5	6	7	8	9	10
106	ISG16IS112	SWASTIK HEGDE	1	2	3	4	5	6	7	8	9	10	11
107	ISG16IS113	TARUN KUMAR K M	1	2	3	4	5	5	6	7	8	9	10
108	ISG16IS115	USHA R	1	2	3	4	5	6	7	8	9	10	11
109	ISG16IS116	USHA S L	1	2	3	4	5	6	7	8	9	10	11
110	ISG16IS118	VARSHA G RAJ	1	2	3	4	5	6	7	8	9	10	11
111	ISG16IS119	VARSHA V	1	2	3	4	5	6	7	8	9	10	11
112	ISG16IS120	VARSHITHA J	1	2	3	4	5	6	7	8	9	10	11
113	ISG16IS123	VISHWARAJ VEER	1	2	3	3	4	5	6	7	8	9	10
114	ISG16IS124	VISHWAS VALAHATTI	1	2	3	4	4	5	6	7	7	8	9
115	ISG16IS126	VYOM MISHRA	1	2	3	4	5	6	7	8	9	10	11
116	ISG16IS127	ROHIT RAJUR	1	2	3	4	5	6	7	8	9	10	11
117	ISG16IS128	SREENATH	1	2	3	4	5	6	7	8	9	10	11
118	ISG16IS129	ABHISHEK HOLLA	1	2	3	4	5	6	7	8	9	10	11
119	ISG16IS130	ARSHAD MAKARANI	1	2	3	4	4	5	6	7	8	9	10
120	ISG16IS131	KARISHMA JAISWAL	1	2	3	4	5	6	6	7	8	9	10

  
Coordinator

  
HOD

Dr H.R. Ranganatha  
Prof. & H.O.D

Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road,  
BENGALURU-560 057

  
Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “Advanced JAVA & J2EE using Eclipse”

#### Test Time Table

Sl. No.	DATE	DAY	TIMINGS
1	27-07-2018	Friday	4.00PM-5.00PM

  
HOD



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “Advanced JAVA & J2EE using Eclipse”

#### Question Paper

Duration : 1hr

Maximum marks : 25

Note: Question number 1-15 (1M each)

Question number 16 & 17 (5M each)

#### Answer all the Questions:

1) Which collection class allows you to grow or shrink its size and provides indexed access to its elements, but whose methods are not synchronized?

- a) java.util.HashSet      b) java.util.LinkedHashSet  
c) java.util.List          d) java.util.ArrayList

2) Which is valid declaration of a float?

- a) float f=1F;    b) float f=1.0;    c) float f="1";    d) float f=1.0d;

3. What is the output of following snippet

Enum levels

{

Private TOP,

Public MEDIUM,

Protected BOTTOM;

}

- a) Runtime Error                      b) Enum not defined Exception  
c) It runs successfully                d) Compilation error

4) What is the output of the following program?

public class Test

{

public static void main(String[] args)

{

int value = 3, sum = 6 + -- value;

int data = --value + ++value / sum++ \* value++ + ++sum % value--;

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

`System.out.println(data);`

`}}}`

a) 1 b) 2 c) 0 d) 3

5) Consider the following HTML page code: `< html >< body >< a href='/servlet/HelloServlet' >POST< /a >< /body >< /html >` Which method of `HelloServlet` will be invoked when the hyperlink is clicked?

a) `doGet` b) `doPost` c) `doHref` d) `servicePost`.

6) Which of these class is superclass of `String` and `StringBuffer` class?

a) `java.util` b) `java.lang` c) `ArrayList` d) None of the mentioned

7) Which of these methods is used to compare a specific region inside a string with another specific region in another string?

a) `regionMatch()` b) `match()` c) `RegionMatches()` d) `regionMatches()`

8) What invokes immediately after the `start()` method and also any time the applet needs to repaint itself in the browser?

a). `stop()` b). `init()` c). `paint()` d). `destroy()`

9) Which of these ways used to communicate from an applet to servlet?

a). RMI Communication b.) HTTP Communication  
c) Socket Communication d). All mentioned above

10) What is the correct signature of `jspDestroy()` method of `HttpJspPage` class?

a) `void jspDestroy(HttpServletRequest request, HttpServletResponse response)`

b) `void jspDestroy(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException`

c) `void jspDestroy()`

d) `void jspDestroy() throws ServletException, IOException`

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

11) Which of the following code retrieves the body of the request as binary data?

- a) `DataInputStream data = new InputStream()`
- b) `DataInputStream data = response.getInputStream()`
- c) `DataInputStream data = request.getInputStream()`
- d) `DataInputStream data = request.fetchInputStream()`

12) The JDBC-ODBC bridge is

- a) Multithreaded
- b) Singlethreaded
- c) Both of the above
- d) None of the above

13) When using a JavaBean to get all the parameters from a form, what must the property be set to (??? in the following code) for automatic initialization? `<jsp:useBean id='fBean' class='govt.FormBean' scope='request'/><jsp:setProperty name='fBean' property='???' /><jsp:forward page='/servlet/JSP2Servlet' />`

- a) \*
- b) all
- c) @
- d) =

14) Predict the output of following program

filename Main.java

```
class Test {  
    protected int x, y;  
}  
  
class Main {  
    public static void main(String args[] ) {  
        Test t = new Test();  
        System.out.println(t.x + " " + t.y);  
    }  
}
```

15) public class Calculator

{

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

```
int num = 100;

public void calc(int num) { this.num = num * 10; }

public void printNum() { System.out.println(num); }
```

```
public static void main(String[] args)
```

```
{
```

```
    Calculator obj = new Calculator();
```

```
    obj.calc(2);
```

```
    obj.printNum();
```

```
}
```

```
}
```

**Options :**

A) 20    B) 100    C) 1000    D) 2

16) Write a JSP program to loop through cookie and display cookie name and value

17) Write a program to connect the database using the properties and all the exceptions should be handled.

Approved by Academic Committee Members & Guest Speaker

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	H. R Ranganatha
2	Prof. Prerana Chaithra	Associate Professor	Prerana
3	Prof. Ravichandra M.	Assistant Professor	Ravichandra
4	Prof. Gayathri R	Assistant Professor	Gayathri
5	Prof. Ramya R	Assistant Professor	Ramya
6	Prof. Surya Prakash	Guest Speaker	Surya Prakash

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

HOD

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Main Road,  
Bengaluru-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “Advanced JAVA & J2EE using Eclipse”

#### Solutions for the Questions

Duration : 1hr

Maximum marks : 25

Note: Question number 1-15 (1M each)

Question number 16 & 17 (5M each)

#### Answer all the Questions:

1) Which collection class allows you to grow or shrink its size and provides indexed access to its elements, but whose methods are not synchronized?

- a) java.util.HashSet      b) java.util.LinkedHashSet  
c) java.util.List          d) java.util.ArrayList

Answer: option D

2) Which is valid declaration of a float?

- a) float f=1F;    b) float f=1.0;    c) float f="1";    d) float f=1.0d;

Answer: option A

3. What is the output of following snippet

Enum levels

{

Private TOP,

Public MEDIUM,

Protected BOTTOM;

}

- a) Runtime Error                      b) Enum not defined Exception  
c) It runs successfully                d) Compilation error

Answer: Option D

4) What is the output of the following program?

public class Test



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

```
{  
    public static void main(String[] args)  
    {  
        int value = 3, sum = 6 + -- value;  
  
        int data = --value + ++value / sum++ * value++ + ++sum % value--;  
        System.out.println(data);  
    }  
}
```

a) 1 b) 2 c) 0 d) 3

**Answer: Option B**

5) Consider the following HTML page code: `< html >< body >< a href='/servlet/HelloServlet' >POST< /a >< /body >< /html >` Which method of HelloServlet will be invoked when the hyperlink is clicked?

a) doGet b) doPost c) doHref d) servicePost.

**Answer: Option A**

6) Which of these class is superclass of String and StringBuffer class?

a) java.util b) java.lang c) ArrayList d) None of the mentioned

**Answer: Option B**

7) Which of these methods is used to compare a specific region inside a string with another specific region in another string?

a) regionMatch() b) match() c) RegionMatches() d) regionMatches()

**Answer: option D**

8) What invokes immediately after the start() method and also any time the applet needs to repaint itself in the browser?

a). stop() b). init() c). paint() d). destroy()

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

**Answer: option C**

- 9) Which of these ways used to communicate from an applet to servlet?
- a). RMI Communication
  - b.) HTTP Communication
  - c) Socket Communication
  - d). All mentioned above

**Answer option d: All the above**

- 10) What is the correct signature of `jspDestroy()` method of `HttpJspPage` class?
- a) `void jspDestroy(HttpServletRequest request, HttpServletResponse response)`
  - b) `void jspDestroy(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException`
  - c) `void jspDestroy()`
  - d) `void jspDestroy() throws ServletException, IOException`

**Answer: option C**

- 11) Which of the following code retrieves the body of the request as binary data?

- a) `DataInputStream data = new InputStream()`
- b) `DataInputStream data = response.getInputStream()`
- c) `DataInputStream data = request.getInputStream()`
- d) `DataInputStream data = request.fetchInputStream()`

**Answer: option C**

- 12) The JDBC-ODBC bridge is

- a) Multithreaded
- b) Singlethreaded
- c) Both of the above
- d) None of the above

**Answer: Option b**

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

13) When using a JavaBean to get all the parameters from a form, what must the property be set to (??? in the following code) for automatic initialization? `<jsp:useBean id='fBean' class='govt.FormBean' scope='request'/><jsp:setProperty name='fBean' property='???' /><jsp:forward page='/servlet/JSP2Servlet' />`

- a) \*      b) all      c) @      d) =

Answer: option A

14) Predict the output of following program

filename Main.java

```
class Test {  
    protected int x, y;  
}  
  
class Main {  
    public static void main(String args[] ) {  
        Test t = new Test();  
        System.out.println(t.x + " " + t.y);  
    }  
}
```

Answer: 0

15) public class Calculator

```
{  
    int num = 100;  
    public void calc(int num) { this.num = num * 10; }  
    public void printNum() { System.out.println(num); }  
  
    public static void main(String[] args)  
    {  
        Calculator obj = new Calculator();  
        obj.calc(2);  
        obj.printNum();  
    }  
}
```

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

**Options :**

A) 20    B) 100    C) 1000    D) 2

**Answer : A) 20**

**16) Write a JSP program to loop through cookie and display cookie name and value**

```
<%
```

```
// Create cookies for first and last names.
```

```
Cookie firstName = new Cookie("first_name", request.getParameter("first_name"));
```

```
Cookie lastName = new Cookie("last_name", request.getParameter("last_name"));
```

```
// Set expiry date after 24 Hrs for both the cookies.
```

```
firstName.setMaxAge(60*60*24);
```

```
lastName.setMaxAge(60*60*24);
```

```
// Add both the cookies in the response header.
```

```
response.addCookie( firstName );
```

```
response.addCookie( lastName );
```

```
%>
```

```
<html>
```

```
<head>
```

```
<title>Setting Cookies</title>
```

```
</head>
```

```
<body>
```

```
<center>
```



# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

<h1>Setting Cookies</h1>

</center>

<ul>

<li><p><b>First Name:</b>

<%= request.getParameter("first\_name")%>

</p></li>

<li><p><b>Last Name:</b>

<%= request.getParameter("last\_name")%>

</p></li>

</ul>

</body>

</html>

<html>

<body>

<form action="main.jsp" method="GET">

First Name: <input type="text" name="first\_name">

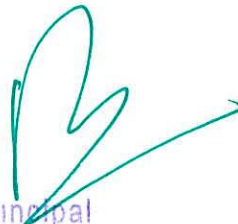
<br/>

Last Name: <input type="text" name="last\_name"/>

<input type="submit" value="Submit"/>

</form>

</body>



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057







## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

</html>

17) Write a program to connect the database using the properties and all the exceptions should be handled.

```
import java.sql.*;
class MysqlCon{
public static void main(String args[]){
try{
Class.forName("com.mysql.jdbc.Driver");
Connection con=DriverManager.getConnection(
"jdbc:mysql://localhost:3306/sonoo","root","root");
//here sonoo is database name, root is username and password
Statement stmt=con.createStatement();
ResultSet rs=stmt.executeQuery("select * from emp");
while(rs.next())
System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3));
con.close();
}catch(Exception e){ System.out.println(e);}
} }
```

Approved by Academic Committee Members & Guest Speaker

SI No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Prof. Prerana Chaithra	Associate Professor	
3	Prof. Ravichandra M.	Assistant Professor	
4	Prof. Gayathri R	Assistant Professor	
5	Prof. Ramya R	Assistant Professor	
6	Prof. Surya Prakash	Guest Speaker	

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

H. R Ranganatha  
HOD

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “Advanced JAVA & J2EE using Eclipse”

#### Participant Feedback

1. How was the overall organization of the Certification Course ?  
a) Poor   b) Satisfactory   c) Good   d) Excellent
2. How appropriate were the facilities provided ?  
a) Poor   b) Satisfactory   c) Good   d) Excellent
3. Opportunity to ask questions for clarification and interaction with presenters  
a) Poor   b) Satisfactory   c) Good   d) Excellent
4. Effectiveness of the Hands-on Sessions  
a) Poor   b) Satisfactory   c) Good   d) Excellent
5. Topic and contents of the Certification Course  
a) Poor   b) Satisfactory   c) Good   d) Excellent
6. How do you rate the Certification Course compared to other workshops that you have attended ?  
a) Poor   b) Satisfactory   c) Good   d) Excellent
7. Generally how was your overall experience during the Certification Course  
a) Poor   b) Satisfactory   c) Good   d) Excellent
8. Any Suggestions:

The course was great

Student Name : Omkar. R

Student Signature: [Signature]

[Signature]  
Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “Advanced JAVA & J2EE using Eclipse”

#### Participant Feedback

1. How was the overall organization of the Certification Course ?  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
2. How appropriate were the facilities provided ?  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
3. Opportunity to ask questions for clarification and interaction with presenters  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
4. Effectiveness of the Hands-on Sessions  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
5. Topic and contents of the Certification Course  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
6. How do you rate the Certification Course compared to other workshops that you have attended ?  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
7. Generally how was your overall experience during the Certification Course  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
8. Any Suggestions:

This course was very useful

Student Name : SEEMA . P.

Seema R.  
Student Signature:

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “Advanced JAVA & J2EE using Eclipse”


#### Participant Feedback

1. How was the overall organization of the Certification Course ?  
a) Poor   b) Satisfactory   c) Good   ☒ d) Excellent
2. How appropriate were the facilities provided ?  
a) Poor   b) Satisfactory   c) Good   ☒ d) Excellent
3. Opportunity to ask questions for clarification and interaction with presenters  
a) Poor   b) Satisfactory   c) Good   ☒ d) Excellent
4. Effectiveness of the Hands-on Sessions  
a) Poor   b) Satisfactory   c) Good   ☒ d) Excellent
5. Topic and contents of the Certification Course  
a) Poor   b) Satisfactory   c) Good   ☒ d) Excellent
6. How do you rate the Certification Course compared to other workshops that you have attended ?  
a) Poor   b) Satisfactory   c) Good   ☒ d) Excellent
7. Generally how was your overall experience during the Certification Course  
a) Poor   b) Satisfactory   c) Good   ☒ d) Excellent
8. Any Suggestions:

The Course was very helpful and learn  
more about java

Student Name : Sindhu.V.S.

  
Student Signature:

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “Advanced JAVA & J2EE using Eclipse”

#### Participant Feedback

1. How was the overall organization of the Certification Course ?  
a) Poor   b) Satisfactory   c) Good   ☒ d) Excellent
2. How appropriate were the facilities provided ?  
a) Poor   b) Satisfactory   ☒ c) Good   d) Excellent
3. Opportunity to ask questions for clarification and interaction with presenters  
a) Poor   ☒ b) Satisfactory   c) Good   d) Excellent
4. Effectiveness of the Hands-on Sessions  
a) Poor   b) Satisfactory   ☒ c) Good   d) Excellent
5. Topic and contents of the Certification Course  
a) Poor   b) Satisfactory   ☒ c) Good   d) Excellent
6. How do you rate the Certification Course compared to other workshops that you have attended ?  
a) Poor   ☒ b) Satisfactory   c) Good   d) Excellent
7. Generally how was your overall experience during the Certification Course  
a) Poor   b) Satisfactory   ☒ c) Good   d) Excellent
8. Any Suggestions:  
should be conducted for larger no. of  
days.

Mayank

Student Name :

Mayank

Student Signature:

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### FEEDBACK ANALYSIS

Certification Programme: “Advanced Java & J2EE using Eclipse”

No. of students	Student Feedback			
	Excellent	Very Good	Good	Fair
50	80	15	5	0




#### Action Report:

80 % of students were completely happy with the certification program and 15 % of students felt it was a good program and remaining 5 % students were satisfied with the program.

#### Action Taken:

The Feedback report which was collected from the students were sent to the principal and he would take necessary actions based on the comments and conduct more programs for the benefit of students.

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

  
HOD

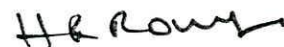


# Sapthagiri College of Engineering


Bengaluru-560057

## Certificate

This is to Certify that Mr./Ms. ABHIJIT KUMAR  
of ISE, SCE has participated  
and successfully completed Five days Certification Course on  
"Advanced Java & J2EE using Eclipse" from 23 July, 2018 to  
27 July, 2018 organized by the Department of Information Science &  
Engineering, Sapthagiri College of Engineering.

  
HOD, Dept of ISE

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

  
Principal



# Sapthagiri College of Engineering

Bengaluru-560057

## Certificate

This is to Certify that Mr./Ms. AADITHYA AMAN  
of ISE, SCE has participated  
and successfully completed Five days Certification Course on  
"Advanced Java & J2EE using Eclipse" from 23 July, 2018 to  
27 July, 2018 organized by the Department of Information Science &  
Engineering, Sapthagiri College of Engineering.

  
HOD, Dept of ISE

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesarechatta Road,  
Bangalore-560057

  
Principal



# Sapthagiri College of Engineering

Bengaluru-560057

## Certificate

This is to Certify that Mr./Ms. KARTHIK C KATTI  
of ISE has participated  
and successfully completed Five days Certification Course on  
"Advanced Java & J2EE using Eclipse" from 23 July, 2018 to  
27 July, 2018 organized by the Department of Information Science &  
Engineering, Sapthagiri College of Engineering.

HOD, Dept of ISE

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

Principal



# Sapthagiri College of Engineering

Bengaluru-560057

## Certificate

This is to Certify that Mr./Ms. \_\_\_\_\_

of \_\_\_\_\_ has participated  
and successfully completed Five days Certification Course on  
*"Advanced Java & J2EE using Eclipse"* from 23 July, 2018 to  
27 July, 2018 organized by the Department of Information Science &  
Engineering, Sapthagiri College of Engineering.

HOD, Dept of ISE

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bangalore- 560 057

Principal

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “Advanced JAVA & J2EE using Eclipse” Report

Department of ISE conducted Certificate Course on Advanced JAVA and J2EE using Eclipse.

**GuestSpeaker:** Prof. Surya Prakash, Assistant Professor, Department of CSE, Sapthagiri College of Engineering, Bengaluru.

**Duration of the course:** five days from 23<sup>rd</sup> July to 27th July 2018

Course detail

**Objective of the Course:** The five day course made the students to be familiar with the major concepts in JAVA which is a main platform for their career. Certificate Course became the vital step to improve the knowledge of students

Certificate course made them comfortable with the JAVA. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Faculty took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side

### Schedule of Certification Course

Dates	SESSION 1 (8.30am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.00pm)	No. of Hours
23-7-2018 Monday	<ul style="list-style-type: none"> <li>• Enumerations</li> <li>• Autoboxing</li> <li>• Type Wrappers</li> </ul>	<ul style="list-style-type: none"> <li>• Annotations</li> <li>• I/O applet</li> <li>• Generics examples</li> </ul>	Hands on Enumerations and Autoboxing examples	6
24-7-2018 Tuesday	<ul style="list-style-type: none"> <li>• The Collection Framework Introduction</li> <li>• Collection Interface</li> <li>• Collection Classes</li> </ul>	<ul style="list-style-type: none"> <li>• Working with maps</li> <li>• The Map Interface</li> <li>• NavigableMap</li> <li>• The Map Classes</li> <li>• Comparators.</li> </ul>	Hands on Collections and comparators in JAVA	6

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

25-7-2018 Wednesday	<ul style="list-style-type: none"> <li>• String handling</li> <li>• Special String operations</li> <li>• String Comparisons</li> <li>• Character Extraction</li> <li>• String Buffer</li> </ul>	<ul style="list-style-type: none"> <li>• Event Handling</li> <li>• Delegation Event Model</li> <li>• Event Classes</li> <li>• Event Listener Interfaces</li> </ul>	Hands on Sting handling and Event Handling	6
26-7-2018 Thursday	<ul style="list-style-type: none"> <li>• Introducing Swings</li> <li>• Swing containers and Components</li> <li>• Swing Feature</li> <li>• Simple Swing Application</li> </ul>	<ul style="list-style-type: none"> <li>• Exploring Swings</li> <li>• Swing Buttons</li> <li>• JScrollPane</li> <li>• JComboBox</li> <li>• Trees</li> <li>• JTable .</li> <li>• Jtabbed Pane</li> </ul>	Hands on Swing Programming	6
27-7-2018 Friday	<ul style="list-style-type: none"> <li>• Introduction to Servlets.</li> <li>• Servlets Life Cycle</li> <li>• A Simple Servlet</li> <li>• Java Servlet Packages</li> </ul>	<ul style="list-style-type: none"> <li>• Applets Fundamentals</li> <li>• Invoking Overloaded Constructors using applets</li> </ul>	Hands on Servlet and Applet Programming. Test Conduction	6
Total				30

**Conclusion:** The optimistic learning environment prompted motivation in the learning of the students. They felt bonhomie after the course they took. A sense of satisfaction was also seen. Faculty members were also equally benefited with the course. They felt more expedient while delivering the lectures as the margin was erased between these students and others. A structured environment was created. This helped in the smooth flow of academic lesson plan by adhering to the timelines. This Course helped the student to improve their knowledge in JAVA and J2EE.



Principal

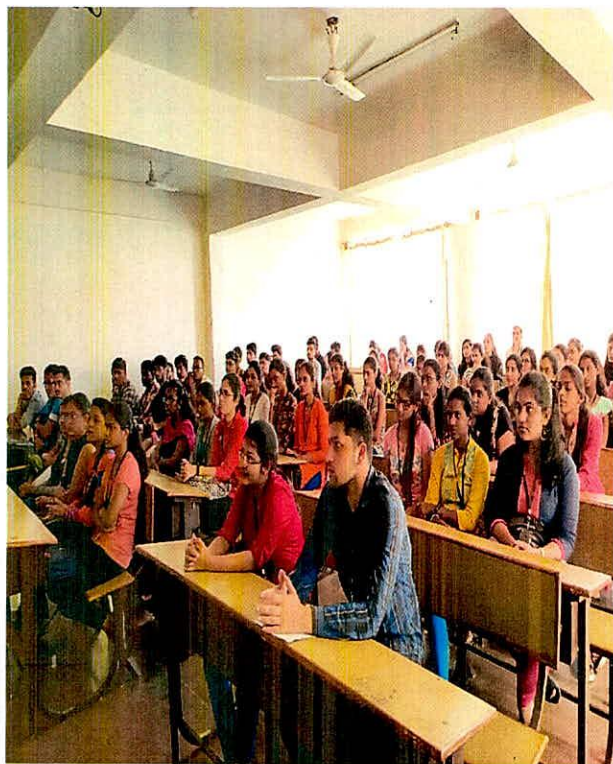
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING



5 days certification course on “Advanced JAVA and J2EE using Eclipse” by Prof. Surya Prakash,  
Assistant Professor, Department of CSE, Sapthagiri College of Engineering, Bengaluru from  
23-7-2018 to 27-7-2018



HOD

Dr. H.R. Ranganatha  
Prof. & H.O.D

Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

Date: 25/05/2018

To,

IQAC Coordinator  
Sapthagiri College of Engineering  
Bangalore - 560057.

Respected Sir,

Subject: Budget Proposal for conduction of certification program on "IOT implementation using raspberry PI"


The Budget Proposal for conduction a certification program on "IOT Implementation using Raspberry Pi from 21-Jan-2019 to 25-Jan-2019" is hereby enclosed for your kind consideration and approval.

The details of the Recurring budget are given as follows:-

Recurring Amount:

Sl. No.	Description	Quantity	Amount in Rs.
1	Bouquet	1	200
2	Certificates	Students	2200
3	Others		600
Total			3000

Forwarded for G.O. approval  
& need full

  
HOD

Dr. H.R. Rangaswami  
Prof. & H.O.D.  
Dept. of Information Science & Engineering  
Sapthagiri College of Engineering  
# 14/5, Chikkasandra, Hesaraghatta Main Road,  
BENGALURU - 560 057

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057






# Sapthagiri College of Engineering


(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

## CIRCULAR

Date: 08/01/2019

This is to inform that the following Academic Committee members are requested to attend the meeting on 10/01/2019 at 10.30AM in the HOD's chamber to decide the syllabus and the lesson plan for the certification program on "IOT Implementation using Raspberry PI".

SI No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Prof. Prerana Chaithra	Associate Professor	
3	Prof. Ravichandra M.	Assistant Professor	
4	Prof. Gayathri R	Assistant Professor	
5	Prof. Ramya R	Assistant Professor	



HOD

Dr. H.R. Ranganatha  
Prof. & H.O.D

Dept. of Information Science & Engg  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road,  
BENGALURU-560 057



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Date: 08/01/2019

To,

**Dr. Praveen Kumar K V,**  
Associate Professor,  
Department of CSE,  
Sambhram Institute of technology  
Bangalore - 560057.

Respected Sir,

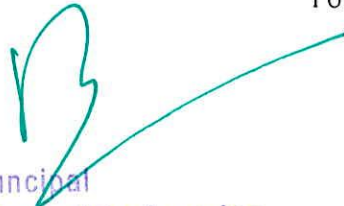
Subject: Invitation as a "Guest speaker" in certification program and to attend meeting to discuss about the certification program

Department of Information Science & Engineering have planned to conduct a certification program titled "IOT Implementation using Raspberry Pi" for ISE students from 21-01-2019 to 25-01-2019. In this connection, we are privileged to invite you as a guest speaker on the above mentioned topic.

Thanking you for your kind acceptance to our request on phone. We request you to attend the meeting to discuss about the conduction of certification program on 10/01/2019 at 10.30AM in the HODs chamber. We look forward to welcome you at SCE.

Thanking you

Yours faithfully



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057



HOD  
Dr. H.R. Ranganatha  
Prof. & H.O.D.  
Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
#14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

## Minutes of Meeting

Date: 10/01/2019

A meeting was conducted on 10/01/2019 in ISE HOD's Chamber to discuss and approve the following about the 5 days Certification Course for ISE Students.

- Course Title : IOT Implementation using Raspberry Pi
- Resource Personnel: Dr. Praveen Kumar KV, Associate Professor, Sambhram Institute of technology, Bengaluru.
- Course Duration & Date: 5 Days from 21-Jan-2019 to 25-Jan-2019
- Syllabus :
  - Different Models of Raspberry Pi
  - Different Operating Systems for Raspberry pi.
  - Introduction to Microcontroller
  - Introduction to Programming
  - Introduction to Python programming Language
  - Setting Up for a Perfect Pi
  - Introduction to LINUX Environment
  - Getting Familiar with the GPIO Pins of your Pi Pin numbering Formats

Lesson Plan of the certification program

Dates	SESSION 1 (8.30am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.00pm)	No. Of Hours
21-1-2019 Monday	Introduction to Raspberry Pi <ul style="list-style-type: none"> <li>• Different Models of Raspberry Pi</li> <li>• Why Raspberry Pi</li> <li>• Peripherals of Raspberry Pi.</li> <li>• Applications of Raspberry Pi.</li> <li>• Future of Micro Computing.</li> </ul>	Preparing Your Raspberry Pi for First Use <ul style="list-style-type: none"> <li>• Different Operating Systems for Raspberry pi.</li> <li>• Getting Started With NOOBS</li> <li>• Getting things ready for first use</li> <li>• NOOBS OS inside out</li> <li>• Booting for the First time.</li> </ul>	Hands on Setting up Raspberry PI	6
22-1-2019 Tuesday	Introduction to Microcontroller <ul style="list-style-type: none"> <li>• Diff B/w Microcontroller and</li> </ul>	Introduction to Programming: <ul style="list-style-type: none"> <li>• Introduction to Scratch Programming</li> <li>• History and basic of Scratch</li> </ul>	Hands on Flashing the loading the SD card with the OS	6

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

	<ul style="list-style-type: none"> <li>Microprocessor</li> <li>• Introduction to Raspberry Pi</li> <li>• Architecture and Hardware specifications</li> <li>• Introduction to ARM</li> <li>• GPIOs</li> </ul>	<ul style="list-style-type: none"> <li>• My first program on scratch</li> <li>• Led Blinking using Scratch</li> </ul>		
23-1-2019 Wednesday	Introduction to Python programming Language <ul style="list-style-type: none"> <li>• History and Basic of Python</li> <li>• My first program on scratch</li> <li>• • Led Blinking using Scratch</li> </ul>	Setting Up for a Perfect Pi <ul style="list-style-type: none"> <li>• Experience Operation Procedures.</li> <li>• Updating Pi to Latest software's.</li> <li>• Setting various Options and Personalizing.</li> <li>• First introduction to the LINUX terminal</li> <li>• • Introduction to the Open Source Software Library</li> </ul>	Hands on Booting the OS	6
24-1-2019 Thursday	<ul style="list-style-type: none"> <li>• Introduction to LINUX Environment</li> <li>• The Linux Organization Structure.</li> <li>• LINUX Shell.</li> <li>• SHELL Scripting.</li> </ul>	Getting Familiar with the GPIO Pins of your Pi Pin numbering Formats <ul style="list-style-type: none"> <li>• The Voltage hazard Information.</li> <li>• The LED Interfacing.</li> </ul>	Hands on Intro of items on the desktop (Debian Linux/ Wheezy)	6
25-1-2019 Friday	<ul style="list-style-type: none"> <li>• The First Button Interface with Raspberry Pi.</li> <li>• General information on other pins and their functionality</li> </ul>	<ul style="list-style-type: none"> <li>• Hands on Enabling GPIO pins</li> <li>• LED interfacing using the GPIO</li> <li>• Whether monitoring system</li> </ul>	Hands on Data Store on cloud Test Conduction	6
Total				30

Principal

Sapthagiri College of Engineering

Chikkasandra, Hesaraghatta Road,

Bangalore-560 057

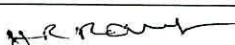





# Sapthagiri College of Engineering

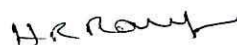
(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

The following members were present in the meeting and the syllabus and lesson plan for the certification program has been decided.

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Prof. Prerana Chaithra	Associate Professor	
3	Prof. Ravichandra M.	Assistant Professor	
4	Prof. Gayathri R	Assistant Professor	
5	Prof. Ramya R	Assistant Professor	
6	Dr. Praveen Kumar K V	Guest Speaker	



HOD

Dr. H.R. Ranganatha  
Prof. & H.O.D

Dept. of Information Science & Engineering  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

## NOTICE

Date: 10/01/2019

As a part of programming skill development Department of Information Science and Engineering is conducting Five days Certification program on “**IOT Implementation using Raspberry Pi**” from 21-Jan-2019 to 25-Jan-2019.

All the 4<sup>th</sup> year ISE students must attend the course compulsorily.



**HOD**

Dr. H.R. Ranganatha

Prof. & H.C.D.

Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

## ACADEMIC YEAR 2018-19

### 5 days Certification Program on “IOT Implementation using Raspberry

#### Pi” Students Enrollment

SL.NO	USN	STUDENT NAME
1	ISG15IS001	AADYA JHA
2	ISG15IS002	ABHINAV
3	ISG15IS003	ABHISHEK ANAND
4	ISG15IS004	ABHISHEK DEEPAK HEGDE
5	ISG15IS005	ABHISHEK M D
6	ISG15IS006	ABHISHEK S
7	ISG15IS007	ADARSH KUMAR HUMNEY
8	ISG15IS009	AISHWARYA MURALIDHAR
9	ISG15IS010	AISHWARYA.S.M
10	ISG15IS011	AISHWARYA .U
11	ISG15IS012	AKASH ANAND
12	ISG15IS014	AMAN
13	ISG15IS015	AMBARISH PARTHASARTHY
14	ISG15IS016	ANANYA .S.RAO
15	ISG15IS017	ANJANA S HEGDE
16	ISG15IS018	ANKITA
17	ISG15IS019	ANKITA
18	ISG15IS021	ANURAG SINGH
19	ISG15IS022	ANUSHA G HEGDE
20	ISG15IS023	ANVITHA B G
21	ISG15IS024	ASHAWANI KUMAR
22	ISG15IS028	AYUSHI RAJ
23	ISG15IS029	B H SUMANTH
24	ISG15IS030	B SHIVALINGA REDDY
25	ISG15IS031	BHAGYSHREE .G
26	ISG15IS033	BHARATHI V MUGALI
27	ISG15IS034	BHAVANA P J
28	ISG15IS035	BHUMIKA R H
29	ISG15IS036	BINDUSHREE H D
30	ISG15IS037	CHAITRA S
31	ISG15IS038	CHAITRA S KULKARNI

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

32	ISG15IS039	CHAITRA V
33	ISG15IS040	CHETAN S CHOCHACHIKOPPA
34	ISG15IS041	CHITRA S
35	ISG15IS042	DIVYA G J
36	ISG15IS044	GAUTHAM G S
37	ISG15IS045	GORA ADITYA
38	ISG15IS047	HARSHAVARDHAN NAGNATH KACHARE
39	ISG15IS048	HARSHITHA D
40	ISG15IS049	HINA ISHRATH MAB
41	ISG15IS050	HOLAMOGE NISHA VINOD
42	ISG15IS051	INSHA FATHIMA
43	ISG15IS052	KARTIK KATHURIA
44	ISG15IS054	KUNAL GOSWAMI
45	ISG15IS055	LAHARI SHEKAR B C
46	ISG15IS056	LAXMISHA A A
47	ISG15IS057	LINCOLN FRANCIS FERNANDES
48	ISG15IS058	LUCKY GUPTA
49	ISG15IS059	MAHIDHAR AVADHANI M R
50	ISG15IS060	MEDHA P
51	ISG15IS061	MEGHA G
52	ISG15IS062	MEGHANA C
53	ISG15IS064	MOHAN KUMAR B C
54	ISG14IS023	CHARAN S
55	ISG15IS065	MONIKA A G
56	ISG15IS066	MUKUL GAUR
57	ISG15IS067	N K KUSHAL
58	ISG15IS068	NAMRATA SREE S
59	ISG15IS069	NANDINI SRIDHAR
60	ISG15IS070	NAVANEET S BURLI
61	ISG15IS072	NIKITHA M S
62	ISG15IS073	NISHA KUMARI
63	ISG15IS075	PALLAVI S
64	ISG15IS076	PRAGATHI S NAYAK
65	ISG15IS077	PRANAV JAYA PRAKASH
66	ISG15IS078	PRATHEEK G S
67	ISG15IS081	PRIYESH SHRIVASTAVA



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

68	1SG15IS082	PUNITH KUMAR M
69	1SG15IS083	RADHA G
70	1SG15IS084	RAGHAVENDRA M R
71	1SG15IS085	RAGHU CHANDRAKANT JAKATI
72	1SG15IS086	RAHUL DEV
73	1SG15IS089	RAKESH B J
74	1SG15IS090	RAMAN KUMAR
75	1SG15IS092	ROOPA M
76	1SG15IS093	ROOPA M
77	1SG15IS095	SAHANA.H.J
78	1SG15IS096	SAHANA HEGDE
79	1SG15IS097	SAKET KUMAR
80	1SG15IS098	SAMEER A SHAH
81	1SG15IS099	SAMIKSHA S N
82	1SG15IS100	SAMRIDHI SONI
83	1SG15IS101	SANTHOSH S V
84	1SG15IS102	SEEMA NANDEPPA HUNKI
85	1SG15IS103	SHANTESHWAR PRASAD SINGH
86	1SG15IS104	SHREYA SATISH NADGIR
87	1SG15IS105	SHREYAS R
88	1SG15IS106	SHRIDHAR KESHAV HEGDE
89	1SG15IS107	SHUBHAM
90	1SG15IS108	SHUBHAM KUMAR SINGH
91	1SG15IS110	SHUBHAM SARVESH
92	1SG15IS111	SHUBHASHITHA B R
93	1SG15IS112	SONU GUPTA
94	1SG15IS114	SUMIT KARAK
95	1SG15IS115	SUMUKHA AVADHANI M U
96	1SG15IS116	SUNDRAM SINGH
97	1SG15IS117	SUSHMA N
98	1SG15IS118	SWETA PRIYA
99	1SG15IS119	TANMAYI M HEGDE
100	1SG15IS121	KATHYAYINI V J
101	1SG15IS122	VAISHNAVI J
102	1SG15IS123	VRINDA A
103	1SG15IS125	YATHINDRA S

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

104	1SG16IS400	DIVYA A
105	1SG16IS401	KEERTHANA P S
106	1SG16IS402	MANIKANTAN M
107	1SG16IS403	RANJITHA T V



**CO-ORDINATOR**



**HOD**

**Dr H.R. Ranganatha**  
**Prof. & H.O.D**

Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057

3207



**Principal**

**Sapthagiri College of Engineering**  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Program on "IOT Implementation using Raspberry Pi"

#### Attendance

Sl No.	USN	Student Name	21/01/2019		22/01/2019		23/01/2019		24/01/2019		25/01/2019		TEST
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	
1	ISG15IS001	AADYA JHA	1	2	3	4	5	5	6	7	8	9	10
2	ISG15IS002	ABHINAV	1	2	3	4	5	6	7	8	9	10	11
3	ISG15IS003	ABHISHEK ANAND	0	1	2	3	4	5	6	7	8	9	10
4	ISG15IS004	ABHISHEK DEEPAK HEGDE	1	2	3	4	5	6	7	8	9	10	11
5	ISG15IS005	ABHISHEK M D	1	2	2	3	4	5	6	7	8	9	10
6	ISG15IS006	ABHISHEK S	1	2	3	4	5	6	7	8	9	10	11
7	ISG15IS007	ADARSH KUMAR HUMNEY	1	2	3	4	5	6	7	8	9	10	11
8	ISG15IS009	AISHWARYA MURALIDHAR	1	2	3	4	5	6	7	8	9	10	11
9	ISG15IS010	AISHWARYA.S.M	1	2	3	4	4	5	6	7	8	9	10
10	ISG15IS011	AISHWARYA .U	1	1	2	3	4	5	6	7	8	9	10
11	ISG15IS012	AKASH ANAND	1	2	3	4	5	6	7	8	9	10	11
12	ISG15IS014	AMAN	0	1	2	3	4	5	6	7	8	9	10
13	ISG15IS015	AMBARISH PARTHASARTHY	1	2	2	3	4	5	6	7	8	9	10
14	ISG15IS016	ANANYA .S.RAO	1	2	3	4	5	6	7	8	9	10	11
15	ISG15IS017	ANJANA S HEGDE	1	1	2	3	4	5	6	7	8	9	10
16	ISG15IS018	ANKITA	1	2	3	4	5	6	6	7	8	9	10
17	ISG15IS019	ANKITA	1	2	2	3	4	5	6	7	8	9	10
18	ISG15IS021	ANURAG SINGH	0	1	2	3	4	5	6	7	8	9	10
19	ISG15IS022	ANUSHA G HEGDE	1	2	3	4	5	6	7	8	9	10	11
20	ISG15IS023	ANVITHA B G	1	2	3	3	4	5	6	7	8	9	10
21	ISG15IS024	ASHAWANI KUMAR	1	2	3	4	5	6	7	8	9	10	11
22	ISG15IS028	AYUSHI RAJ	1	2	3	4	5	6	7	8	9	10	11
23	ISG15IS029	B H SUMANTH	1	1	2	3	4	5	6	7	8	9	10
24	ISG15IS030	B SHIVALINGA REDDY	1	2	3	4	5	6	7	8	9	10	11
25	ISG15IS031	BHAGYSHREE .G	1	1	2	3	4	5	6	7	8	9	10
26	ISG15IS033	BHARATHI V MUGALI	1	2	3	4	5	6	7	8	9	10	11
27	ISG15IS034	BHAVANA P J	0	1	2	3	4	5	6	7	8	9	10

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

SI No.	USN	Student Name	20/01/2019		22/01/2019		23/01/2019		24/01/2019		25/01/2019		25/01/2019 TEST
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	
28	ISG15IS035	BHUMIKA R H	1	1	2	3	4	5	6	7	8	9	10
29	ISG15IS036	BINDUSHREE H D	1	2	2	3	4	5	6	7	8	9	10
30	ISG15IS037	CHAITRA S	1	2	3	4	5	6	7	8	9	10	11
31	ISG15IS038	CHAITRA S KULKARNI	1	2	3	4	5	6	7	8	9	10	11
32	ISG15IS039	CHAITRA V	1	2	3	4	5	6	6	7	8	9	10
33	ISG15IS040	CHETANS CHOGACHIKOPP A	1	2	3	4	5	5	6	7	8	9	10
34	ISG15IS041	CHITRA S	1	2	2	3	4	5	6	7	8	9	10
35	ISG15IS042	DIVYA G J	1	2	3	4	5	6	7	8	9	10	11
36	ISG15IS044	GAUTHAM G S	1	2	2	3	4	5	6	7	8	9	10
37	ISG15IS045	GORA ADITYA	0	1	2	3	4	5	6	7	8	9	10
38	ISG15IS047	HARSHAVARDH AN NAGNATH KACHARE	1	2	3	4	5	6	7	8	9	10	11
39	ISG15IS048	HARSHITHA D	1	1	2	3	4	5	6	7	8	9	10
40	ISG15IS049	HINA ISHRATH MAB	1	2	2	3	4	5	6	7	8	9	10
41	ISG15IS050	HOLAMOGE NISHA VINOD	1	1	2	3	4	5	6	7	8	9	10
42	ISG15IS051	INSHA FATHIMA	1	2	3	4	5	6	7	8	9	10	11
43	ISG15IS052	KARTIK KATHURIA	1	2	3	4	5	6	7	8	9	10	11
44	ISG15IS054	KUNAL GOSWAMI	1	1	2	3	4	5	6	7	8	9	10
45	ISG15IS055	LAHARI SHEKAR B C	1	2	3	4	5	6	7	8	9	10	11
46	ISG15IS056	LAXMISHA A A	1	1	2	3	4	5	6	7	8	9	10
47	ISG15IS057	LINCOLN FRANCIS FERNANDES	1	2	3	4	5	6	7	8	9	10	11
48	ISG15IS058	LUCKY GUPTA	1	1	2	3	4	5	6	7	8	9	10
49	ISG15IS059	MAHIDHAR AVADHANI M R	1	1	2	3	4	5	6	7	8	9	10
50	ISG15IS060	MEDHA P	1	2	3	4	5	6	7	8	9	10	11
51	ISG15IS061	MEGHA G	1	2	3	4	5	5	6	7	8	9	10
52	ISG15IS062	MEGHANA C	0	1	2	3	4	5	6	7	8	9	10

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

SI No.	USN	Student Name	21/01/2019 MS	21/01/2019 AS	22/01/2019 MS	22/01/2019 AS	23/01/2019 MS	23/01/2019 AS	24/01/2019 MS	24/01/2019 AS	25/01/2019 MS	25/01/2019 AS	25/01/2019 TEST
53	ISG15IS064	MOHAN KUMAR B C	1	2	3	4	5	6	7	8	9	10	11
54	ISG14IS023	CHARAN S	1	1	2	3	4	5	6	7	8	9	10
55	ISG15IS065	MONIKA A G	1	2	3	4	5	5	6	7	8	9	10
56	ISG15IS066	MUKUL GAUR	0	1	2	3	4	5	6	7	8	9	10
57	ISG15IS067	N K KUSHAL	1	2	3	4	5	6	7	8	9	10	11
58	ISG15IS068	NAMRATA SREE S	1	1	2	3	4	5	6	7	8	9	10
59	ISG15IS069	NANDINI SRIDHAR	1	2	3	4	5	6	7	8	9	10	11
60	ISG15IS070	NAVANEET S BURLI	1	2	2	3	4	5	6	7	8	9	10
61	ISG15IS072	NIKITHA M S	1	2	3	4	5	6	7	8	9	10	11
62	ISG15IS073	NISHA KUMARI	1	2	2	2	4	5	6	7	8	9	10
63	ISG15IS075	PALLAVI S	1	2	3	4	5	6	7	8	9	10	11
64	ISG15IS076	PRAGATHI S NAYAK	1	1	2	3	4	5	6	7	8	9	10
65	ISG15IS077	PRANAV JAYA PRAKASH	1	2	2	4	5	6	7	8	9	10	11
66	ISG15IS078	PRATHEEK G S	1	1	2	3	4	5	6	7	8	9	10
67	ISG15IS081	PRIYESH SHRIVASTAVA	1	2	3	4	5	6	7	8	9	10	11
68	ISG15IS082	PUNITH KUMAR M	0	1	2	3	4	5	6	7	8	9	10
69	ISG15IS083	RADHA G	1	2	3	4	5	6	7	8	9	10	11
70	ISG15IS084	RAGHAVENDRA M R	1	2	3	4	4	5	6	7	8	9	10
71	ISG15IS085	RAGHU CHANDRAKANT JAKATI	1	2	3	4	5	6	7	8	9	10	11
72	ISG15IS086	RAHUL DEV	1	2	3	4	4	5	6	7	8	9	10
73	ISG15IS089	RAKESH B J	1	2	3	4	5	6	7	8	9	10	11
74	ISG15IS090	RAMAN KUMAR R	1	1	2	3	4	5	6	7	8	9	10
75	ISG15IS092	ROOPA M	1	2	3	4	5	5	6	7	8	9	10
76	ISG15IS093	ROOPA M	1	2	3	4	5	6	7	8	9	10	11
77	ISG15IS095	SAHANA.H.J	1	2	3	4	5	6	7	8	9	10	11
78	ISG15IS096	SAHANA HEGDE	1	1	2	3	4	5	6	7	8	9	10

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Sl No.	USN	Student Name	21/01/2019 MS	22/01/2019 AS	23/01/2019 MS	24/01/2019 AS	25/01/2019 MS	26/01/2019 AS	27/01/2019 MS	28/01/2019 AS	29/01/2019 MS	30/01/2019 AS	TEST
79	ISG15IS097	SAKET KUMAR	1	2	3	4	5	6	7	8	9	10	11
80	ISG15IS098	SAMEER A SHAH	1	1	2	3	4	5	6	7	8	9	10
81	ISG15IS099	SAMIKSHA S N	1	2	3	4	5	6	7	8	9	10	11
82	ISG15IS100	SAMRIDHI SONI	1	2	3	4	4	5	6	7	8	9	10
83	ISG15IS101	SANTHOSH S V	0	1	2	3	4	5	6	7	8	9	10
84	ISG15IS102	SEEMA NANDEPPA HUNKI	1	2	3	4	5	6	7	8	9	10	11
85	ISG15IS103	SHANTESHWAR PRASAD SINGH	1	1	2	3	4	5	6	7	8	9	10
86	ISG15IS104	SHREYA SATISH NADGIR	1	2	3	4	5	6	7	8	9	10	11
87	ISG15IS105	SHREYAS R	1	2	3	4	4	5	6	7	8	9	10
88	ISG15IS106	SHRIDHAR KESHAV HEGDE	1	1	2	3	4	5	6	7	8	9	10
89	ISG15IS107	SHUBHAM	1	2	3	4	5	6	7	8	9	10	11
90	ISG15IS108	SHUBHAM KUMAR SINGH	1	2	3	4	4	5	6	7	8	9	10
91	ISG15IS110	SHUBHAM SARVESH	1	2	3	4	5	6	7	8	9	10	11
92	ISG15IS111	SHUBHASHITHA B R	1	2	2	3	4	5	6	7	8	9	10
93	ISG15IS112	SONU GUPTA	1	2	3	4	5	6	7	8	9	10	11
94	ISG15IS114	SUMIT KARAK	1	2	3	4	4	5	6	7	8	9	10
95	ISG15IS115	SUMUKHA AVADHANI M U	1	2	3	4	5	6	7	8	9	10	11
96	ISG15IS116	SUNDRAM SINGH	1	2	2	3	4	5	6	7	8	9	10
97	ISG15IS117	SUSHMA N	1	2	3	4	5	6	7	8	9	10	11
98	ISG15IS118	SWETA PRIYA	1	2	3	4	5	6	7	8	9	9	10
99	ISG15IS119	TANMAYI M HEGDE	0	1	2	3	4	5	6	7	8	9	10
100	ISG15IS121	KATHYAYINI V J	1	2	3	4	5	6	6	7	8	9	10
101	ISG15IS122	VAISHNAVI J	1	2	3	4	5	6	7	8	9	10	11
102	ISG15IS123	VRINDA A	1	2	3	3	4	5	6	7	8	9	10
103	ISG15IS125	YATHINDRA S	0	1	2	3	4	5	6	7	8	9	10
104	ISG15IS400	DIVYA A	1	2	2	3	4	5	6	7	8	9	10

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Sl No.	USN	Student Name	21/01/2019		22/01/2019		23/01/2019		24/01/2019		25/01/2019		TEST
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	
105	1SG15IS401	KEERTHANA P S	1	1	2	3	4	5	6	7	8	9	10
106	1SG15IS402	MANIKANTAN M	1	2	3	4	5	6	7	8	9	10	11
107	1SG15IS403	RANJITHA T V	1	2	3	4	5	6	7	8	9	10	11

*P. S. R.*  
Coordinator

*H. R. R.*

HOD

Dr. H.R. Ranganatha

Prof. & H.O.D

Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057

*B.*

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

## 5 days Certification program on “IOT Implementation using Raspberry Pi”

### Test Time Table

Sl. No.	DATE	DAY	TIMINGS
1	25-01-2019	Friday	4.00PM - 5.00PM



HOD

Dr. H. R. A. Srinivas  
Head of Department  
Department of Information Science & Engineering  
Sapthagiri College of Engineering  
#14/5 Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

**5 days Certification program on “IOT Implementation using Raspberry Pi”**

**Question Paper**

**Duration : 1hr**

**Maximum marks: 25**

**Note** Question number 1-10 (1M each)

Question number 11 (5M)

Question number 12 (10M)

**Answer all the Questions:**

**1) Does Raspberry Pi need external hardware?**

- a) True
- b) False

**2) Does RPi have an internal memory?**

- a) True
- b) False

**3) What do we use to connect TV to RPi?**

- a) Male HDMI
- b) Female HDMI
- c) Male HDMI and Adapter
- d) Female HDMI and Adapter

**4) How power supply is done to RPi?**

- a) USB connection
- b) Internal battery
- c) Charger
- d) Adapter

**5) What is the Ethernet/LAN cable used in RPi?**

- a) Cat5
- b) Cat5e
- c) Cat6
- d) RJ45

**6) What are the parameters that are default values?**

- a) Port\_Name and Bits



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

- b) Speed and Port\_Names
  - c) Speed and Parity
  - d) Stop bit and Flow Control
- 7) What is the command used for easy using of GNU screen?
- a) \$useradd -G {dialout} your\_name
  - b) Screen Port\_Name 115200
  - c) Minicom -b 115200 -o -D Port\_Name
  - d) Prompt> # help
- 8) Which instruction set architecture is used in Raspberry Pi?
- a) X86
  - b) MSP
  - c) AVR
  - d) ARM
- 9) What is the default user in Debain on Raspberry Pi?
- a) Default
  - b) User
  - c) Pi
  - d) Root
- 10) What are the distributions are supported by raspberry Pi?
- a) Arch Linux
  - b) Debain
  - c) Fedora Remix
  - d) Arch Linux, Debain, and Fedora Remix
- 11) Define
- a) Arduino
  - b) Raspberry Pi
  - c) GPIO Pins
  - d) IOT
- 12) What are the major components of the Internet of things?



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

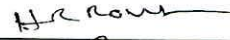





# Sapthagiri College of Engineering

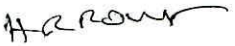
(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Approved by Academic Committee Members & Guest Speaker

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Prof. Prerana Chaithra	Associate Professor	
3	Prof. Ravichandra M.	Assistant Professor	
4	Prof. Gayathri R	Assistant Professor	
5	Prof. Ramya R	Assistant Professor	
6	Dr. Praveen kumar K V	Guest Speaker	



HOD

Dr. H. R Ranganatha  
Principal  
Dept. of Information Science & Engineering  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560057

  
Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

**5 days Certification Course on “IOT Implementation using Raspberry Pi”**

**Solutions for the Questions**

**Duration : 1hr**

**Maximum marks : 25**

**Note:** Question number 1-10 (1M each)

Question number 11 (5M)

Question number 12 (10M)

**Solutions**

**1) Does Raspberry Pi need external hardware?**

- a) True
- b) False

**Answer: option B**

**2) Does RPi have an internal memory?**

- a) True
- b) False

**Answer: option A**

**3) What do we use to connect TV to RPi?**

- a) Male HDMI
- b) Female HDMI
- c) Male HDMI and Adapter
- d) Female HDMI and Adapter

**Answer: Option C**

**4) How power supply is done to RPi?**

- a) USB connection
- b) Internal battery
- c) Charger
- d) Adapter

**Answer: Option A**

  
Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

5) What is the Ethernet/LAN cable used in RPi?

- a) Cat5
- b) Cat5e
- c) Cat6
- d) RJ45

**Answer: Option D**

6) What are the parameters that are default values?

- a) Port\_Name and Bits
- b) Speed and Port\_Names
- c) Speed and Parity
- d) Stop bit and Flow Control

**Answer: Option B**

7) What is the command used for easy using of GNU screen?

- a) \$useradd -G {dialout} your\_name
- b) Screen Port\_Name 115200
- c) Minicom -b 115200 -o -D Port\_Name
- d) Prompt> # help

**Answer: option B**

8) Which instruction set architecture is used in Raspberry Pi?

- a) X86
- b) MSP
- c) AVR
- d) ARM

**Answer: option D**

9) What is the default user in Debain on Raspberry Pi?

- a) Default
- b) User



Principal

- c) Pi
- d) Root

**Answer option C**

**10) What are the distributions are supported by raspberry Pi?**

- a) Arch Linux
- b) Debain
- c) Fedora Remix
- d) Arch Linux, Debain, and Fedora Remix

**Answer:option D**

**11) Define**

- a)Arduino
- b)Raspberry Pi
- c)GPIO Pins
- d) IOT

**Answer: a)** Arduino is an open-source electronics platform which has easy to use both hardware and software. Arduino boards are a Microcontroller which is capable of reading input from sensors to controlling motors and etc. programmatically.

**b)** Raspberry Pi is a credit card sized computer which is capable of doing all operations like a conventional computer. But it also has other built-in features like onboard Wi-Fi, Bluetooth and GPIO pins to communicate with other external Things.

**c)** GPIO stands for General Purpose Input and Output pins. It is capable of reading and writing data from development boards like Raspberry and Arduino to other Sensors, motors, actuators, and etc.

**d)** IOT stands for Internet of Things. It is a network in which various Things can communicate with each other using a Network as a means of communication between them. Usually, this Network will be an internet.

**12)What are the major components of the Internet of things?**

These are the following major components of IoT:

- **Smart devices or sensors:**



**Principal**  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Smart devices or sensors help in data collection from the surrounding. Collected data can vary from simple to complex.

- **Connectivity:**

Afterwards, the collected data is redirected to a cloud structure, but it requires a transmission medium for transportation. Sensors are linked to the cloud through the different transmission mediums of communication.






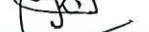
- **Data Processing:**

When the Information is collected, and it gets to the cloud afterwards where processing of the collected data is taken place by the software. It can range from something simple to complex .


- **User Interface:**

After now, the information made available to the users in various ways like emails, notification through texts. Users also have an option to connect through the devices which they can check in their IoT system

Approved by Academic Committee Members & Guest Speaker

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Prof. Prerana Chaithra	Associate Professor	
3	Prof. Ravichandra M.	Assistant Professor	
4	Prof. Gayathri R	Assistant Professor	
5	Prof. Ramya R	Assistant Professor	
6	Dr. Praveen Kumar K V	Guest Speaker	

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

  
HOD  
Dr. H. R Ranganatha  
Associate Professor  
Dept. of Information Science & Engineering  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

## 5 days Certification Course on “IOT Implementation using Raspberry Pi”

### Participant Feedback

1. How was the overall organization of the Certification Course ?  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
2. How appropriate were the facilities provided ?  
a) Poor b) Satisfactory ☒ c) Good d) Excellent
3. Opportunity to ask questions for clarification and interaction with presenters  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
4. Effectiveness of the Hands-on Sessions  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
5. Topic and contents of the Certification Course  
☒ a) Poor b) Satisfactory c) Good ☒ d) Excellent
6. How do you rate the Certification Course compared to other workshops that you have attended ?  
a) Poor b) Satisfactory c) Good ☒ d) Excellent
7. Generally how was your overall experience during the Certification Course  
a) Poor ☒ b) Satisfactory c) Good d) Excellent

8. Any Suggestions:

Very Good. Could have include Latest trends

Megha. G.  
Student Name

Megha. G.  
Student Signature:

[Signature]  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

## 5 days Certification Course on “IOT Implementation using Raspberry Pi”

### Participant Feedback

1. How was the overall organization of the Certification Course ?  
a) Poor   b) Satisfactory   c) Good   ~~d) Excellent~~
2. How appropriate were the facilities provided ?  
a) Poor   b) Satisfactory   c) Good   ~~d) Excellent~~
3. Opportunity to ask questions for clarification and interaction with presenters  
a) Poor   b) Satisfactory   ~~c) Good~~   d) Excellent
4. Effectiveness of the Hands-on Sessions  
a) Poor   ~~b) Satisfactory~~   c) Good   d) Excellent
5. Topic and contents of the Certification Course  
a) Poor   b) Satisfactory   ~~c) Good~~   d) Excellent
6. How do you rate the Certification Course compared to other workshops that you have attended ?  
a) Poor   b) Satisfactory   c) Good   ~~d) Excellent~~
7. Generally how was your overall experience during the Certification Course  
a) Poor   b) Satisfactory   c) Good   ~~d) Excellent~~
8. Any Suggestions:

No suggestion

Student Name : Sushma . N.

[Signature]  
Student Signature:

[Signature]  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

## 5 days Certification Course on “IOT Implementation using Raspberry Pi”

### Participant Feedback

1. How was the overall organization of the Certification Course ?  
a) Poor   b) Satisfactory   ~~c) Good~~   d) Excellent
2. How appropriate were the facilities provided ?  
a) Poor   b) Satisfactory   c) Good   ~~d) Excellent~~
3. Opportunity to ask questions for clarification and interaction with presenters  
a) Poor   b) Satisfactory   ~~c) Good~~   d) Excellent
4. Effectiveness of the Hands-on Sessions  
a) Poor   b) Satisfactory   c) Good   ~~d) Excellent~~
5. Topic and contents of the Certification Course  
a) Poor   b) Satisfactory   c) Good   ~~d) Excellent~~
6. How do you rate the Certification Course compared to other workshops that you have attended ?  
a) Poor   b) Satisfactory   c) Good   ~~d) Excellent~~
7. Generally how was your overall experience during the Certification Course  
a) Poor   b) Satisfactory   ~~c) Good~~   d) Excellent
8. Any Suggestions:

No suggestions. It was good.

Student Name : Radha. G.

Radha. G.  
Student Signature:

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

## 5 days Certification Course on “IOT Implementation using Raspberry Pi”

### Participant Feedback

1. How was the overall organization of the Certification Course ?  
a) Poor   b) Satisfactory   c) Good   d) Excellent
2. How appropriate were the facilities provided ?  
a) Poor   b) Satisfactory   c) Good   d) Excellent
3. Opportunity to ask questions for clarification and interaction with presenters  
a) Poor   b) Satisfactory   c) Good   d) Excellent
4. Effectiveness of the Hands-on Sessions  
a) Poor   b) Satisfactory   c) Good   d) Excellent
5. Topic and contents of the Certification Course  
a) Poor   b) Satisfactory   c) Good   d) Excellent
6. How do you rate the Certification Course compared to other workshops that you have attended ?  
a) Poor   b) Satisfactory   c) Good   d) Excellent
7. Generally how was your overall experience during the Certification Course  
a) Poor   b) Satisfactory   c) Good   d) Excellent
8. Any Suggestions:

Hardware Session was very good.

Student Name : B. Shivalinga Reddy

B. Reddy  
Student Signature:

B  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “IOT Implementation using Raspberry Pi”

#### Participant Feedback

1. How was the overall organization of the Certification Course ?  
a) Poor   b) Satisfactory   c) ☒ Good   d) Excellent
2. How appropriate were the facilities provided ?  
a) Poor   b) Satisfactory   c) Good   d) ☒ Excellent
3. Opportunity to ask questions for clarification and interaction with presenters  
a) Poor   b) Satisfactory   c) Good   d) ☒ Excellent
4. Effectiveness of the Hands-on Sessions  
a) Poor   b) Satisfactory   c) ☒ Good   d) Excellent
5. Topic and contents of the Certification Course  
a) Poor   b) Satisfactory   c) Good   d) ☒ Excellent
6. How do you rate the Certification Course compared to other workshops that you have attended ?  
a) Poor   b) Satisfactory   c) ☒ Good   d) Excellent
7. Generally how was your overall experience during the Certification Course  
a) Poor   b) Satisfactory   c) ☒ Good   d) Excellent
8. Any Suggestions:

Course was helpful & practical session  
helped to understand the concept of IOT.

Student Name : Urinda. A.

  
Student Signature:

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

## 5 days Certification Course on “IOT Implementation using Raspberry Pi”

### Participant Feedback

1. How was the overall organization of the Certification Course ?  
a) Poor   b) Satisfactory   c) Good   d) Excellent
2. How appropriate were the facilities provided ?  
a) Poor   b) Satisfactory   c) Good   d) Excellent
3. Opportunity to ask questions for clarification and interaction with presenters  
a) Poor   b) Satisfactory   c) Good   d) Excellent
4. Effectiveness of the Hands-on Sessions  
a) Poor   b) Satisfactory   c) Good   d) Excellent
5. Topic and contents of the Certification Course  
a) Poor   b) Satisfactory   c) Good   d) Excellent
6. How do you rate the Certification Course compared to other workshops that you have attended ?  
a) Poor   b) Satisfactory   e) Good   d) Excellent
7. Generally how was your overall experience during the Certification Course  
a) Poor   b) Satisfactory   c) Good   d) Excellent
8. Any Suggestions:

Very good and Interactive session.

Student Name : B. H. Sumanth.

Sumanth  
Student Signature:

B  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

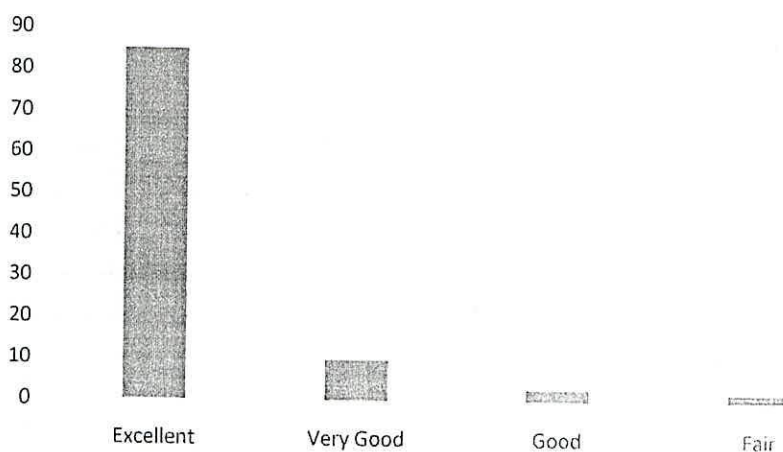
## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### FEEDBACK ANALYSIS

Certification Course: “IOT Implementation using Raspberry Pi”

No. of students	Student Feedback			
	Excellent	Very Good	Good	Fair
55	85	10	3	2

### Feedback Report Analysis



#### Action Report:

85 % of students were completely happy with the certification program and 10 % of students felt it was a good program and remaining 5 % students were satisfied with the program.

#### Action Taken:

The Feedback report which was collected from the students were sent to the principal and he would take necessary actions based on the comments and conduct more programs for the benefit of students.

Principal

**Sapthagiri College of Engineering**  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

HOD

Dr. H. R. Hanumanth  
Dept. of Information Science & Engineering  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BANGALORE-560 057



# Sapthagiri College of Engineering

Bengaluru-560057

## Certificate

This is to Certify that Mr./Ms. ABHINAV

of ISE, SCE has participated  
and successfully completed Five days Certification Course on  
"IOT Implementation using Raspberry Pi" from 21 January, 2019  
to 25 January, 2019 organized by the Department of Information Science  
& Engineering, Sapthagiri College of Engineering.

  
HOD, Dept of ISE

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

  
Principal



# Sapthagiri College of Engineering

Bengaluru-560057

## Certificate

This is to Certify that Mr./Ms. AADYA JHA  
of ISE, SCE has participated  
and successfully completed Five days Certification Course on  
"IOT Implementation using Raspberry Pi" from 21 January, 2019  
to 25 January, 2019 organized by the Department of Information Science  
& Engineering, Sapthagiri College of Engineering.

  
HOD, Dept of ISE

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

  
Principal



# Sapthagiri College of Engineering

Bengaluru-560057

## Certificate

This is to Certify that Mr./Ms. \_\_\_\_\_

of \_\_\_\_\_ has participated  
and successfully completed Five days Certification Course on  
*"IOT Implementation using Raspberry Pi"* from 21 January, 2019  
to 25 January, 2019 organized by the Department of Information Science  
& Engineering, Sapthagiri College of Engineering.

HOD, Dept of ISE

Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesarghatta Road  
Bangalore-560 057

Principal

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “IOT Implementation using Raspberry Pi” Report

Department of ISE conducted Certification Course on IOT Implementation using Raspberry Pi.

**Guest Speaker:** Dr. Praveen Kumar K V, Associate Professor, Sambhram Institute of technology, Bengaluru.

**Duration of the course:** Five days from Jan 21<sup>st</sup> 2019 to Jan 25<sup>th</sup> 2019

**Objective of the Course:** The five day course made the students to be familiar with the major concepts in IOT and Raspberry Pi which is a main platform for their career. Certification Course became the vital step to improve the knowledge of students

Certification course made them comfortable with the IOT and Raspberry Pi. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Speaker took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side

### Schedule of Certification Course

Dates	SESSION 1 (8.30am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.00pm)	No. Of Hours
21-1-2019 Monday	Introduction to Raspberry Pi <ul style="list-style-type: none"> <li>• Different Models of Raspberry Pi</li> <li>• Why Raspberry Pi.</li> <li>• Peripherals of Raspberry Pi.</li> <li>• Applications of Raspberry Pi.</li> <li>• Future of Micro Computing.</li> </ul>	Preparing Your Raspberry Pi for First Use <ul style="list-style-type: none"> <li>• Different Operating Systems for Raspberry pi.</li> <li>• Getting Started With NOOBS</li> <li>• Getting things ready for first use</li> <li>• NOOBS OS inside out</li> <li>• Booting for the First time.</li> </ul>	Hands on Setting up Raspberry Pi	6

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bengaluru- 560 057

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

22-1-2019 Tuesday	Introduction to Microcontroller <ul style="list-style-type: none"> <li>• Diff B/w Microcontroller and Microprocessor</li> <li>• Introduction to Raspberry Pi</li> <li>• Architecture and Hardware specifications</li> <li>• Introduction to ARM</li> <li>• GPIOs</li> </ul>	Introduction to Programming: <ul style="list-style-type: none"> <li>• Introduction to Scratch Programming</li> <li>• History and basic of Scratch</li> <li>• My first program on scratch</li> <li>• Led Blinking using Scratch</li> </ul>	Hands on Flashing the loading the SD card with the OS	6
23-1-2019 Wednesday	Introduction to Python programming Language <ul style="list-style-type: none"> <li>• History and Basic of Python</li> <li>• My first program on scratch</li> <li>• Led Blinking using Scratch</li> </ul>	Setting Up for a Perfect Pi <ul style="list-style-type: none"> <li>• Experience Operation Procedures.</li> <li>• Updating Pi to Latest software's.</li> <li>• Setting various Options and Personalizing.</li> <li>• First introduction to the LINUX terminal</li> <li>• Introduction to the Open Source Software Library</li> </ul>	Hands on Booting the OS	6
24-1-2019 Thursday	<ul style="list-style-type: none"> <li>• Introduction to LINUX Environment</li> <li>• The Linux Organization Structure.</li> <li>• LINUX Shell.</li> <li>• SHELL Scripting.</li> </ul>	Getting Familiar with the GPIO Pins of your Pi <ul style="list-style-type: none"> <li>• Pin numbering Formats</li> <li>• The Voltage hazard Information.</li> <li>• The LED Interfacing.</li> </ul>	Hands on Intro of items on the desktop (Debian Linux/ Wheezy)	6
25-1-2019 Friday	<ul style="list-style-type: none"> <li>• The First Button Interface with Raspberry Pi.</li> <li>• General information on other pins and their functionality</li> </ul>	<ul style="list-style-type: none"> <li>• Hands on Enabling GPIO pins</li> <li>• LED interfacing using the GPIO</li> <li>• Whether monitoring system</li> </ul>	Hands on Data Store on cloud Test Conduction	6
Total				30

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057

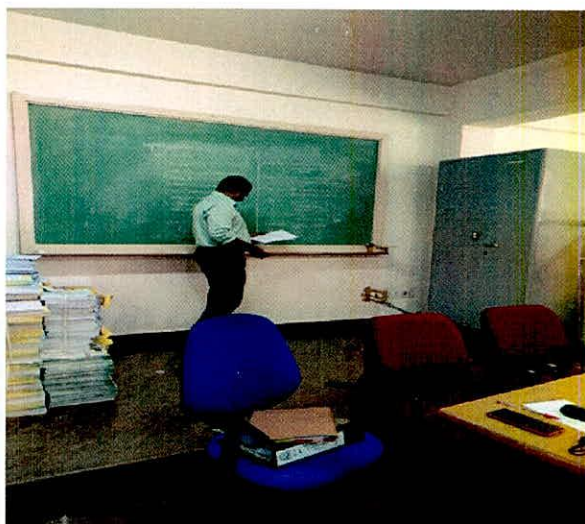
# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

**Conclusion:** The optimistic learning environment prompted motivation in the learning of the students. They felt bonhomie after the course they took. A sense of satisfaction was also seen. Faculty members were also equally benefited with the course. They felt more expedient while delivering the lectures as the margin was erased between these students and others. A structured environment was created. This helped in the smooth flow of academic lesson plan by adhering to the timelines. This Course helped the student to improve their knowledge in IOT and Raspberry Pi.



Certification Course on IOT Implementation using Raspberry Pi Dr. Praveen Kumar K V,  
Associate Professor, Sambhram Institute of Technology, Bengaluru from Jan 21 2019 to Jan 25 2019

*H.R. Ranganatha*

HOD

Dr H.R. Ranganatha  
Prof. & H.O.D

Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057

*B*  
Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057