

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	MECHANICAL
Name of the Student	MARUTHI, H
USN	15G1HME064

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: Drafting skills required.

Maruthi
Signature

[Signature]
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesarghatta Main Road
Bengaluru - 560 057

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Academic Year	2017-18
Branch	Mechanical
Name of the Student	Mamun B
USN	15CHME063

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: Modelling knowledge is required.

Signature


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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
Branch	MECHANICAL
Name	SHIVASHANKAR J P
Status : Work/Study	WORK
Phone no	

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: More practical Exposure is required on modelling software.

Shivashankar J P
Signature


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Year of Passing	2017
Branch	Mechanical
Name	Rohith K.S
Status : Work/Study	Study
Phone no	8892733078

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excel ent	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: Software Knowledge is required

Signature

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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	Mechanical Engineering
Name of the Faculty	Dr. TULSIDAS D
Designation	Associate Professor
Subject/Sub. code	DME-I / 15MES4

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: Few topics related to practical knowledge can be incorporated.


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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	17-18
Branch	Mechanical Engg.
Name of the Faculty	SIVA MURALI MOHAN REDDY A
Designation	Asst. professor
Subject/Sub. code	Automobile Engg. (15ME655)

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:

Need to add Design aspects for Automobile parts

Signature

Mohun Kumar

[Signature]

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Department of Mechanical 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 2017-18. The meeting is scheduled on 22/05/2018 at 10.00 am in HOD's chamber.

Sl No.	Faculty Name	Designation	Signature
1	Dr. P. Mahadeva Swamy	HOD	
2	Dr. Tulsidas	Associate Professor	
3	Prof. Chethan B P	Assistant Professor	
4	Prof. Ramesh. N,G	Assistant Professor	
5	Prof. Basavaraj.G	Assistant Professor	

HOD
H.O.D. Dept. of Mech. Engg
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Department of Mechanical Engineering

Date: 22/05/2018

MINUTES OF MEETING

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 for 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
1	Dr. P. Mahadeva swamy	HOD
2	Dr. Tulsidas	Associate Professor
3	Prof. Chethan B P	Assistant Professor
4	Prof. Ramesh. N,G	Assistant Professor
5	Prof. Basavaraj.G	Assistant Professor

The following points were discussed in the meeting

1. The committee members reviewed the analysis of department curriculum syllabus.
2. The committee members discussed about the feedback of department curriculum syllabus.
3. The members identified the gaps based on the analysis.


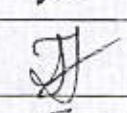

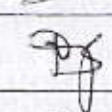
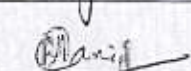
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SL.NO	SEM	Course Title	Identified Gap
1	3 rd and 5 th Semester	IC Engines	Practical Knowledge of Engines
2	6 th Semester	3D Printing	Recent development in manufacturing technology


Action Taken:

Based on the feedback obtained from Students, Faculties and Alumni and analysis of syllabus by department academic committee members, it was decided to conduct certification course on "IC Engines" and "3D printing" to overcome the gaps identified in the curriculum / syllabus.

Sl No.	Faculty Name	Designation	Signature
1	Dr. P. Mahadeva swamy	HOD	
2	Dr. Tulsidas	Associate Professor	
3	Prof. Chethan B P	Assistant Professor	
4	Prof. Ramesh. N,G	Assistant Professor	
5	Prof. Basavaraj.G	Assistant Professor	


HOD

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Department of Mechanical Engineering

Date: 25/05/2018

To

IQAC Coordinator
Sapthagiri College of Engineering
Bengaluru-560 057

Respected sir/madam,

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

With respect to the Academic committee members meeting was held for analyzing department curriculum / syllabus for the academic year 2017-18. 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 course on IC Engines from 23- July 2018 to 27-July 2018 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,

*Forwarded to the
G.C. approval & certification
Jenur*


HOD

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S.C.E. Bangalore-560 057



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Department of Mechanical Engineering

Date: 10-07-2018

To,

IQAC Coordinator
Sapthagiri College of Engineering
Bangalore - 560057.

Respected Sir,

Subject: Budget Proposal for conduction of certification program on "IC Engines".

The Budget Proposal for conduction a certification program on IC Engines 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	114	2000
3	Others	1	1000
Total			3200

*Forwarded to the IQAC
approval & satisfaction*
[Signature]

[Signature]
HOD

H.O.D. Dept. of Mech. Engg
S.C.E., Bangalore-560 057

[Signature]
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Department of Mechanical Engineering

Date: 12-07-2018

CIRCULAR

This is to inform that the following Academic Committee members are requested to attend the meeting on 13/07/2018 at 10.30 am in the HODs chamber to decide the syllabus and the lesson plan for the certification program on "IC Engines".

Sl No.	Faculty Name	Designation	Signature
1	Dr. P. Vanadeva swamy	HOD	
2	Dr. Tulasicas	Associate Professor	
3	Prof. Chethan B P	Assistant Professor	
4	Prof. Famesh. N. G	Assistant Professor	
5	Prof. Basavaraj.G	Assistant Professor	

HOD

H.O.D. Dept. of Mech. Engg
S.G.E., Bangalore-560 057

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Department of Mechanical Engineering

Date: 12-07-2018

To,

Mr. Harish Kumar. S
CEO, Resree's R&E
Bengaluru

Respected Sir,

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

Department of Mechanical Engineering has planned to conduct a certification program titled "IC Engines" for 3rd and 5th semester students 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 13/07/2018 at 10.30 am in Mechanical HODs Chamber. We look forward to welcome you at SCE.

Thanking you

Yours faithfully


HOD

H.O.D. Dept. of Mech. Engg
S.C.E., Bangalore-560 057


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Department of Mechanical Engineering

Minutes of Meeting

A meeting was conducted on 13-Jul-2018 in Mechanical HODs Chamber to discuss and approve the following about the 5 days Certification Course for 3rd and 5th semester ME Students.

- **Course Title** : IC Engines
- **Program Coordinator** : Prof. Chethan B P
- **Resource Person**: Mr. Harish Kumar. S, Resree's R&E, Bengaluru
- **Course Duration & Date**: 5 Days from 23-Jul-2018 to 27-Jul-2018
- **Syllabus** : Working & Demonstration of Four Strokes and Two Strokes SI and CI Engines.

Lesson Plan of the certification program

Dates	SESSION 1 (9.00 am-12.00 pm)	SESSION 2 (1.00 pm- 4.00 pm)	No. of Hours
23-7-2018 Monday	Introduction to IC Engines	Parts of IC Engines	6
24-7-2018 Tuesday	Working & Demonstration of four Stroke petrol Engine	Working & Demonstration of four Stroke Diesel Engine	6
25-7-2018 Wednesday	Working & Demonstration of two Stroke petrol Engine	Working & Demonstration of two Stroke Diesel Engine	6
26-7-2018 Thursday	Hands on training of assembling the Parts	Hands on training of assembling the Parts	6
27-7-2018 Friday	IC Engine Performance Calculations	IC Engine Performance Calculations	6


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Department of Mechanical 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. P. Mahadeva swamy	HOD	
2	Dr. Tulsidas	Associate Professor	
3	Prof. Chethan B P	Assistant Professor	
4	Prof. Ramesh. N,G	Assistant Professor	
5	Prof. Basavaraj.G	Assistant Professor	
6	Mr. Harish Kumar. S	Guest Speaker	

HOD

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Department of Mechanical Engineering

NOTICE

As a part of programming skill development, Department of Mechanical Engineering is conducting five days Certification Course on "IC Engines" from 23-July-2018 to 27-July-2018 for 3rd and 5th Semester mechanical students. The Students enroll your names with Mr. Chethan B P.


HOD

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Department of Mechanical Engineering

Five Days Certification Program On “IC Engines”

Students Enrollment

Sl.No.	USN	Student Name
1	1SG17ME001	ABHILESH D
2	1SG17ME003	ADARSH KUMAR RAI
3	1SG17ME004	AJAY KUMAR V
4	1SG17ME005	ANIL P GOUDA
5	1SG17ME007	ANKUSH U P
6	1SG17ME008	ANUP P
7	1SG17ME012	BHARATH G
8	1SG17ME013	BHARATH D.M
9	1SG17ME014	CHATURTH E
10	1SG17ME016	CETHAN GOWDA N
11	1SG17ME018	CETHAN M
12	1SG17ME019	CHIRAG P.HEDGE
13	1SG17ME020	CHANDAN P
14	1SG17ME021	DHANUSH S
15	1SG17ME026	HARSHITH S
16	1SG17ME027	HEMA M
17	1SG17ME028	HEMANTH BHAT
18	1SG17ME029	HEMANTH U
19	1SG17ME031	JAIRAJ B
20	1SG17ME034	KARTHIK KUMAR A
21	1SG17ME035	KIRAN S
22	1SG17ME040	MANOJ L V
23	1SG17ME041	MANOJ M
24	1SG17ME042	MARUTHI A S
25	1SG17ME044	MOHAMMED AZEEM
26	1SG17ME045	MOHAN S
27	1SG17ME046	NANDAN B N
28	1SG17ME052	PAVAN B M
29	1SG17ME053	C PAVAN KUMAR
30	1SG16ME098	SHREMAI N S

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31	1SG17ME055	PRADEEP S SUREBAN
32	1SG17ME056	PRAJWAL BHARADWAJ A
33	1SG17ME059	PRAJWAL S
34	1SG17ME060	PRANAV S V
35	1SG17ME061	PRASHANTH
36	1SG17ME062	PRAVEEN KUMAR
37	1SG17ME063	PUNEETH S
38	1SG17ME067	RAKESH G KULKARNI
39	1SG17ME068	RAKSHITH R
40	1SG17ME069	RANJAN KUMAR
41	1SG17ME072	RUDRESH G
42	1SG17ME073	S M JAGANNATH
43	1SG17ME077	SANTHOSH KUMAR S
44	1SG17ME078	SHARATH NAIK
45	1SG17ME080	SHETTY VARUN C
46	1SG17ME084	SRIKANTH Y S
47	1SG17ME086	SUBRAMANYA C
48	1SG17ME090	SUMANTH S
49	1SG17ME091	TEJAS M N
50	1SG17ME094	VARUN KUMAR B R
51	1SG16ME001	ABHISHEK R
52	1SG16ME003	AISHWARYA B S
53	1SG16ME004	AJAY
54	1SG16ME005	AKSHATHA J PRAKASH
55	1SG16ME006	AKSHAY CHANNAPPA K
56	1SG16ME007	AKSHAY P S
57	1SG16ME008	AMBAPRASAD G HEGDE
58	1SG16ME009	AMOGH G
59	1SG16ME010	AMRUTH S
60	1SG16ME011	ARJUN V GOWDA
61	1SG16ME013	BALAJI J
62	1SG16ME014	CHAITHRA G S
63	1SG16ME016	CHARAN H K
64	1SG16ME017	CHARAN S.
65	1SG16ME019	CHETHAN B R
66	1SG16ME020	CHETHAN K
67	1SG16ME021	DEEKSHITH GOWDA V U
68	1SG16ME024	DEEPAK V
69	1SG16ME025	DEVANTH G

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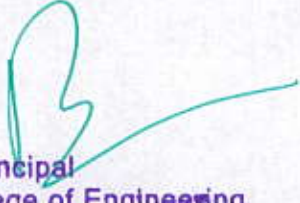
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71	1SG16ME035	HEMANTH KUMAR S
72	1SG16ME036	INDRASHEKAR B C
73	1SG16ME037	JHENKAR B
74	1SG16ME038	JOEPETER FRANCIS
75	1SG16ME039	K AKASH HEBBAR
76	1SG16ME040	KAILASH KUMAR
77	1SG16ME041	KARAN KUMAR S
78	1SG16ME043	KARTIKEYA SHAMBHU BHAT
79	1SG16ME044	KESHAV A
80	1SG16ME045	KISHOR R
81	1SG16ME046	LEKHA M
82	1SG16ME047	LOKESH KUMAR C
83	1SG16ME048	M AMRITHA NAIR
84	1SG16ME051	MANASA K S
85	1SG16ME052	MANOJ T R
86	1SG16ME056	NAVEEN KUMAR P
87	1SG16ME057	NISARGA KARNAM
88	1SG16ME058	NISHANTH A N
89	1SG16ME060	PALLAVI K N
90	1SG16ME061	PARINITH K M
91	1SG16ME064	PAVAN Y
92	1SG16ME065	PRAJWAL B GOWDA
93	1SG16ME066	PRAJWAL CHANDRA
94	1SG16ME067	PRAVEEN KUMAR A N
95	1SG16ME071	RAGHAV P S
96	1SG16ME073	RAHUL YALLAPPA H
97	1SG16ME074	RAJAT JANARDHAN A
98	1SG16ME078	RAMYASHREE M
99	1SG16ME079	RAVIKUMAR
100	1SG16ME093	SHASHANK R
101	1SG16ME094	SHIVASHISH BCRAH
102	1SG16ME095	SHIVSHANKAR
103	1SG16ME097	SHREESH
104	1SG16ME100	SHYLESH GOWDA S
105	1SG16ME102	SUHAS SHETTY
106	1SG16ME103	SUNIL KUMAR R
107	1SG16ME105	VARUN M
108	1SG16ME106	VARUN V


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109	15G16ME107	VINAY H P
110	15G16ME108	VINAYAKA M
111	15G17ME401	ABHISHEK M K
112	15G17ME404	BHARATH TV
113	15G17ME405	C MUKESH
114	15G17ME406	CHANDRASHEKAR M

HOD
Professor & Head
 Department of Mechanical Engineering
 Sapthagiri College of Engineering
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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 MECHNAICAL ENGINEERING

Five days Certification Program on "IC Engine"

Attendance

Sl No.	USN	Student Name	23/7/18		24/7/18		25/7/18		26/7/18		27/7/19	
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS
1	1SG17ME001	ABHILESH D	1	2	3	4	5	6	7	8	9	10
2	1SG17ME003	ADARSH KUMAR RAI	1	2	3	4	5	6	6	8	9	10
3	1SG17ME004	AJAY KUMAR V	1	2	3	4	5	6	7	8	9	10
4	1SG17ME005	ANIL P GOUDA	1	2	3	4	5	6	7	8	9	10
5	1SG17ME007	ANKUSH U P	1	2	3	4	5	6	7	8	9	10
6	1SG17ME008	ANUP P	1	2	3	4	5	6	7	8	9	10
7	1SG17ME012	BHARATH G	1	2	3	4	5	6	7	8	9	10
8	1SG17ME013	BHARATH D.M	1	2	3	4	5	6	7	8	9	10
9	1SG17ME014	CHATURTH E	1	2	3	4	5	6	7	8	9	10
10	1SG17ME016	CHEETHAN GOWDA N	1	2	3	4	5	6	7	8	9	10
11	1SG17ME018	CHEETHAN M	1	2	3	4	5	6	7	8	9	10
12	1SG17ME019	CHIRAG P.HEDGE	1	2	3	4	5	6	7	8	9	10
13	1SG17ME020	CHANDAN P	1	2	3	4	5	6	7	8	9	10
14	1SG17ME021	DHANUSH S	1	2	3	4	4	6	7	8	9	10
15	1SG17ME026	HARSHITH S	1	2	3	4	5	6	7	8	9	10
16	1SG17ME027	HEMA M	1	2	3	4	5	6	7	8	9	10
17	1SG17ME028	HEMANTH BHAT	1	2	3	4	5	6	7	8	9	10
18	1SG17ME029	HEMANTH U	1	2	3	4	5	6	7	8	9	10
19	1SG17ME031	JAIRAJ B	1	2	3	4	5	6	7	8	9	10
20	1SG17ME034	KARTHIK KUMAR A	1	2	3	4	5	6	7	8	9	10
21	1SG17ME035	KIRAN S	1	2	3	4	5	6	7	8	9	10
22	1SG17ME040	MANOJ L V	1	2	3	4	5	6	7	8	9	10
23	1SG17ME041	MANOJ M	1	2	3	4	5	5	7	8	9	10
24	1SG17ME042	MARUTHI A S	1	2	3	4	5	6	7	8	9	10
25	1SG17ME044	MOHAMMED AZEEM	1	2	3	4	5	6	7	8	9	10

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26	1SG17ME045	MOHAN S	1	2	3	4	5	6	7	8	9	10
27	1SG17ME046	NANDAN B N	1	2	3	3	5	6	7	8	9	10
28	1SG17ME052	PAVAN B M	1	2	3	4	5	6	7	8	9	10
29	1SG17ME053	C PAVAN KUMAR	1	2	3	4	5	6	7	8	9	10
30	1SG17ME098	SHREMAI N S	1	2	3	4	5	6	7	8	9	10
31	1SG17ME055	PRADEEP S SUREBAN	1	2	3	4	5	6	7	8	9	10
32	1SG17ME056	PRAJWAL BHARADWAJ A	1	2	3	4	5	6	7	8	9	10
33	1SG17ME059	PRAJWAL S	1	2	3	4	5	6	7	8	9	10
34	1SG17ME060	PRANAV S V	1	2	3	4	5	6	7	8	9	10
35	1SG17ME061	PRASHANTH	1	2	3	4	5	6	7	8	9	10
36	1SG17ME062	PRAVEEN KUMAR	1	2	3	4	5	6	7	8	9	10
37	1SG17ME063	PUNEETH S	1	2	3	4	5	6	7	8	8	10
38	1SG17ME067	RAKESH G KULKARNI	1	2	3	4	5	6	7	8	9	10
39	1SG17ME068	RAKSHITH R	1	2	3	4	5	6	7	8	9	10
40	1SG17ME069	RANJAN KUMAR	1	2	3	4	5	6	7	8	9	10
41	1SG17ME072	RUDRESH G	1	2	3	4	5	6	7	8	9	10
42	1SG17ME073	S M JAGANNATH	1	2	3	4	5	6	7	8	9	10
43	1SG17ME077	SANTHOSH KUMAR S	1	2	3	4	5	6	7	8	9	10
44	1SG17ME078	SHARATH NAIK	1	2	3	4	5	6	7	8	9	10
45	1SG17ME080	SHETTY VARUN C	1	2	3	4	5	6	7	8	9	10
46	1SG17ME084	SRIKANTH Y S	1	2	3	4	5	6	7	8	9	10
47	1SG17ME086	SUBRAMANYA C	1	2	3	4	5	6	7	8	9	10
48	1SG17ME090	SUMANTH S	1	2	3	4	5	6	7	8	9	9
49	1SG17ME091	TEJAS M N	1	2	3	4	5	6	7	8	9	10
50	1SG17ME094	VARUN KUMAR B R	1	2	3	4	5	6	7	8	9	10
51	1SG16ME001	ABHISHEK R	1	2	3	4	5	6	7	8	9	10
52	1SG16ME003	AISHWARYA B S	1	2	3	4	5	6	7	8	9	10
53	1SG16ME004	AJAY	1	2	3	4	5	6	7	8	9	10
54	1SG16ME005	AKSHATHA J PRAKASH	1	2	3	4	5	6	7	8	9	10
55	1SG16ME006	AKSHAY CHANNAPPA K	1	2	3	4	5	6	7	8	9	10



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56	1SG16ME007	AKSHAY P S	1	2	3	4	5	6	7	8	8	10	
57	1SG16ME008	AMBAPRASAD G HEGDE	1	2	3	4	5	6	7	8	9	10	
58	1SG16ME009	AMOGH G	1	2	3	4	5	6	7	8	9	10	
59	1SG16ME010	AMRUTH S	1	2	3	4	5	6	7	8	9	10	
60	1SG16ME011	ARJUN V GOWDA	1	2	3	4	5	6	7	8	9	10	
61	1SG16ME013	BALAJI J	1	2	3	4	5	6	7	8	9	10	
62	1SG16ME014	CHAITHRA G S	1	2	3	4	5	6	7	8	9	10	
63	1SG16ME016	CHARAN H K	1	2	3	4	5	6	7	8	9	10	
64	1SG16ME017	CHARAN S.	1	2	3	4	5	6	7	8	9	10	
65	1SG16ME019	CETHAN B R	1	2	3	4	5	6	7	8	9	10	
66	1SG16ME020	CETHAN K	1	2	3	4	5	6	7	8	9	10	
67	1SG16ME021	DEEKSHITH GOWDA V U	1	2	3	4	5	5	7	8	9	10	
68	1SG16ME024	DEEPAK V	1	2	3	4	5	6	7	8	9	10	
69	1SG16ME025	DEVANTH G	1	2	3	4	5	6	7	8	9	10	
70	1SG16ME034	HEMANTH KUMAR G	1	2	3	4	5	6	7	8	9	10	
71	1SG16ME035	HEMANTH KUMAR S	1	2	3	4	5	6	7	8	9	10	
72	1SG16ME036	INDRASHEKAR B G	1	2	3	4	5	6	7	8	9	10	
73	1SG16ME037	JHENKAR B	1	2	3	4	5	6	7	8	9	10	
74	1SG16ME038	JOEPETER FRANCIS	1	2	3	4	5	6	7	8	9	10	
75	1SG16ME039	K AKASH HEBBAR	1	2	3	4	5	6	7	8	9	10	
76	1SG16ME040	KAILASH KUMAR	1	2	3	3	5	6	7	8	9	10	
77	1SG16ME041	KARAN KUMAR S	1	2	3	4	5	6	7	8	9	10	
78	1SG16ME043	KARTIKEYA SHAMBHU BHAT	1	2	3	4	5	6	7	8	9	10	
79	1SG16ME044	KESHAV A	1	2	3	4	5	6	7	8	9	10	
80	1SG16ME045	KISHOR R	1	2	3	4	5	6	7	8	9	10	
81	1SG16ME046	LEKHA M	1	2	3	4	5	6	7	8	9	10	
82	1SG16ME047	LOKESH KUMAR C	1	2	3	4	5	6	7	8	9	10	
83	1SG16ME048	M AMRITHA NAIR	1	2	2	4	5	6	7	8	9	10	
84	1SG16ME051	MANASA K S	1	2	3	4	5	6	7	8	9	10	
85	1SG16ME052	MANOJ T R	1	2	3	4	5	6	7	8	9	10	


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86	1SG16MEC53	NAVEEN KUMAR P	1	2	3	4	5	6	7	8	9	10	
87	1SG16MEC57	NISARGA KARNAM	1	2	3	4	5	6	7	8	9	10	
88	1SG16MEC53	NISHANTH A N	1	2	3	4	5	6	7	8	9	10	
89	1SG16MEC62	PALLAVI K N	1	2	3	4	4	5	6	7	8	9	10
90	1SG16ME061	PARINITH K M	1	2	3	4	5	6	7	8	9	10	
91	1SG16ME064	PAVAN Y	1	2	3	4	5	6	7	8	9	10	
92	1SG16ME065	PRAJWAL B GOWDA	1	2	3	4	5	6	7	8	9	10	
93	1SG16ME066	PRAJWAL CHANDRA	1	2	3	4	5	6	7	8	9	10	
94	1SG16ME067	PRAVEEN KUMAR A N	1	2	3	4	5	6	7	8	9	10	
95	1SG16ME071	RAGHAV P S	1	2	3	4	5	6	6	8	9	10	
96	1SG16ME072	RAHUL YALLAPPA H	1	2	3	4	5	6	7	8	9	10	
97	1SG16ME074	RAJAT JANARDHAN A	1	2	3	4	5	6	7	8	9	10	
98	1SG16ME078	RAMYASHREE M	1	2	3	4	5	6	7	8	9	10	
99	1SG16ME079	RAVIKUMAR	1	2	3	4	5	6	7	8	9	10	
100	1SG16ME053	SHASHANK R	1	2	3	4	5	6	7	8	9	10	
101	1SG16ME054	SHIVASHISH BORAH	1	2	2	4	5	6	7	8	9	10	
102	1SG16ME055	SHIVSHANKAR	1	2	3	4	5	6	7	8	9	10	
103	1SG16ME057	SHREESH	1	2	3	4	5	6	7	8	9	10	
104	1SG16ME100	SHYLESH GOWDA S	1	2	3	4	5	6	7	8	9	10	
105	1SG16ME102	SUHAS SHETTY	1	2	3	4	5	6	7	8	9	10	
106	1SG16ME103	SUNIL KUMAR R	1	2	3	4	5	6	7	8	9	10	
107	1SG16ME105	VARUN M	1	2	3	4	5	6	7	8	9	10	
108	1SG16ME105	VARUN V	1	2	3	4	5	6	7	8	9	10	
109	1SG16ME107	VINAY H P	1	2	3	4	5	6	7	8	9	10	
110	1SG16ME108	VINAYAKA M	1	2	3	4	5	6	7	8	9	10	
111	1SG17ME431	ABHISHEK M K	1	2	3	4	5	6	7	8	9	10	
112	1SG17ME434	BHARATH TV	1	2	3	4	5	6	7	8	9	10	
113	1SG17ME435	C MUKESH	1	2	3	4	5	6	7	8	9	10	
114	1SG17ME436	CHANDRASHEKAR M	1	1	3	4	5	6	7	8	9	10	
Signature of Resource Personnel			1	2	3	4	5	6	7	8	9	10	


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A.O.D. Engg
S.C.E., Bangalore-560 057



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Department of Mechanical Engineering

Five days Certification Program on "IC Engine"

Test Time Table

Sl. No.	DATE	DAY	TIMINGS
1	28-07-2018	Saturday	10.00 am-11.00 am


HOD

H.O.D. Dept. of Mech. Engg
#14/5, Bangalore-560 057



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Department of Mechanical Engineering

Five days Certification Program on "IC Engine"

Question Paper





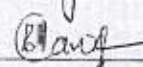

1. The working cycle in case of four stroke engine is completed in following number of revolutions of crankshaft.
(a) 1/2 (b) 1 (c) 2 (d) 4
2. In a diesel engine, the fuel is ignited by
(a) Spark (b) injected fuel (c) heat resulting from compressing air that is supplied for combustion (d) Ignition
3. Scavenging air in diesel engine means
(a) Air used for combustion sent under pressure
(b) Forced air for cooling cylinder
(c) Burnt air containing products of combustion
(d) Air used for forcing burnt gases out of engine's cylinder during the exhaust period.
4. Supercharging is the process of
(a) Supplying the intake of an engine with air at a density greater than the density of the surrounding atmosphere
(b) Providing forced cooling air
(c) Injecting excess fuel for raising more load
(d) Supplying compressed air to remove combustion products fully
5. Does the supply of scavenging air at a density greater than that of atmosphere mean engine is supercharged?
(a) yes (b) no (c) to some extent (d) unpredictable
6. The ratio of indicated thermal efficiency to the corresponding air standard cycle efficiency is called
(a) net efficiency (b) efficiency ratio (c) relative efficiency (d) overall efficiency
7. Compression ratio of IC engines is
(a) The ratio of volumes of air in cylinder before compression stroke and after compression stroke
(b) Volume displaced by piston per stroke and clearance volume in cylinder
(c) Ratio of pressure after compression and before compression
(d) Swept volume/cylinder volume
8. The air standard efficiency of an Otto cycle compared to diesel cycle for the given compression ratio is
(a) Same (b) less (c) more (d) more or less depending on power rating
9. The calorific value of gaseous fuels is expressed in terms of
(a) kcal (b) kcal/kg (c) kcal/m³ (d) kcal/n
10. If the intake air temperature of I.C. engine increases, its efficiency will
(a) Increase (b) Decrease (c) Remain same
(d) unpredictable


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- (a) Low heat value of oil (b) High heat value of oil
(c) Net calorific value of oil (d) Calorific value of fuel
12. An engine indicator is used to determine the following
(a) Speed (b) Temperature (c) Volume of cylinder (d) m.e.p. and I.H.P
13. Fuel oil consumption guarantees for I.C. engine are usually based on
(a) Low heat value of oil (b) High heat value of oil (c) Net calorific value of oil
(d) Calorific value of fuel
14. If the compression ratio of an engine working on Otto cycle is increased from 5 to 7, the %age increase in efficiency will be
(a) 2% (b) 4% (c) 8% (d) 14%
15. In case of gas turbines, the gaseous fuel consumption guarantees are based on
(a) High heat value (b) Low heat value
(c) Net calorific value (d) Middle heat value
16. The temperature of interior surface of cylinder wall in normal operation is not allowed to exceed
(a) 80°C (b) 120°C (c) 180°C (d) 240°C
17. The inlet valve of a four stroke cycle I.C engine remains open for nearly
(a) 180° (b) 125° (c) 235° (d) 200°
18. The air-fuel ratio of the petrol engine is controlled by
(a) Fuel pump (b) governor (c) injector (d) carburetor
19. Scavenging is usually done to increase
(a) Thermal efficiency (b) speed (c) power output (d) fuel consumption
20. A stoichiometric air-fuel ratio is
(a) Chemically correct mixture (b) lean mixture (c) rich mixture for idling (d) rich mixture for over loads

Approved by Academic Committee Members & HOD

Sl No.	Faculty Name	Designation	Signature
1	Dr. P. Mahadeva swamy	HOD	
2	Dr. Tulsidas	Associate Professor	
3	Prof. Chethan B P	Assistant Professor	
4	Prof. Ramesh. N,G	Assistant Professor	
5	Prof. Basavaraj.G	Assistant Professor	
6	Mr. Harish Kumar. S	Guest Speaker	


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Department of Mechanical Engineering

Five days Certification Program on "IC Engine"

Solution

1. The working cycle in case of four stroke engine is completed in following number of revolutions of crankshaft.
(a) $1/2$ (b) 1 (c) 2 (d) 4
2. In a diesel engine, the fuel is ignited by
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4. Supercharging is the process of
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5. Does the supply of scavenging air at a density greater than that of atmosphere mean engine is supercharged?
(a) **yes** (b) no (c) to some extent (d) unpredictable

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Department of Mechanical Engineering

6. The ratio of indicated thermal efficiency to the corresponding air standard cycle efficiency is called

- (a) net efficiency (b) efficiency ratio (c) **relative efficiency** (d) overall efficiency

7. Compression ratio of IC engines is

- (a) The ratio of volumes of air in cylinder before compression stroke and after compression stroke
(b) Volume displaced by piston per stroke and clearance volume in cylinder
(c) Ratio of pressure after compression and before compression
(d) **Swept volume/cylinder volume**

8. The air standard efficiency of an Otto cycle compared to diesel cycle for the given compression ratio is

- (a) Same (b) less (c) **more** (d) more or less depending on power rating

9. The calorific value of gaseous fuels is expressed in terms of

- (a) kcal (b) **kcal/kg** (c) kcal/m² (d) kcal/n

10. If the intake air temperature of I.C. engine increases, its efficiency will

- (a) **Increase** (b) Decrease (c) Remain same (d) unpredictable

11. All heat engines utilize

- (a) **Low heat value of oil** (b) High heat value of oil
(c) Net calorific value of oil (d) Calorific value of fuel

12. An engine indicator is used to determine the following

- (a) Speed (b) Temperature (c) Volume of cylinder (d) **M.E.P. and I.H.P**

13. Fuel oil consumption guarantees for I.C. engine are usually based on

- (a) Low heat value of oil (b) **High heat value of oil**
(c) Net calorific value of oil (d) Calorific value of fuel

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14. If the compression ratio of an engine working on Otto cycle is increased from 5 to 7, the %age increase in efficiency will be
(a) 2% (b) 4% (c) 8% (d) 14%
15. In case of gas turbines, the gaseous fuel consumption guarantees are based on
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2	Dr. Tulsidas	Associate Professor	
3	Prof. Chethan B P	Assistant Professor	
4	Prof. Ramesh. N.G	Assistant Professor	
5	Prof. Basavaraj G	Assistant Professor	

HOD

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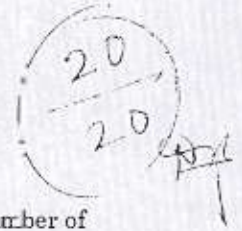
Department of Mechanical Engineering

Chandan. P

15G17ME020

Five days Certification Program on "IC Engine"

Question Paper



1. The working cycle in case of four stroke engine is completed in following number of revolutions of crankshaft.
(a) $1/2$ (b) 1 ~~(c) 2~~ (d) 4
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(a) Spark (b) injected fuel ~~(c) heat~~ resulting from compressing air that is supplied for combustion (d) Ignition
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(c) Burnt air containing products of combustion
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(c) Injecting excess fuel for raising more load
(d) Supplying compressed air to remove combustion products fully
5. Does the supply of scavenging air at a density greater than that of atmosphere mean engine is supercharged?
~~(a) yes~~ (b) no (c) to some extent (d) unpredictable
6. The ratio of indicated thermal efficiency to the corresponding air standard cycle efficiency is called
(a) net efficiency (b) efficiency ratio ~~(c) relative efficiency~~ (d) overall efficiency
7. Compression ratio of IC engines is
(a) The ratio of volumes of air in cylinder before compression stroke and after compression stroke
(b) Volume displaced by piston per stroke and clearance volume in cylinder
(c) Ratio of pressure after compression and before compression
~~(d) Swept volume/cylinder volume~~
8. The air standard efficiency of an Otto cycle compared to diesel cycle for the given compression ratio is
(a) Same (b) less ~~(c) more~~ (d) more or less depending on power rating
9. The calorific value of gaseous fuels is expressed in terms of
(a) kcal (b) ~~kcal/kg~~ (c) kcal/m³ (d) kcal/n
10. If the intake air temperature of I.C. engine increases, its efficiency will
(a) ~~Increase~~ (b) Decrease (c) Remain same
(d) unpredictable

Principal

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Department of Mechanical Engineering

- (a) Low heat value of oil (b) High heat value of oil
(c) Net calorific value of oil (d) Calorific value of fuel
12. An engine indicator is used to determine the following
(a) Speed (b) Temperature (c) Volume of cylinder (d) n.e.p. and I.H.P
13. Fuel oil consumption guarantees for I.C. engine are usually based on
(a) Low heat value of oil (b) High heat value of oil (c) Net calorific value of oil
(d) Calorific value of fuel
14. If the compression ratio of an engine working on Otto cycle is increased from 5 to 7, the %age increase in efficiency will be
(a) 2% (b) 4% (c) 8% (d) 14%
15. In case of gas turbines, the gaseous fuel consumption guarantees are based on
(a) High heat value (b) Low heat value
(c) Net calorific value (d) Middle heat value
16. The temperature of interior surface of cylinder wall in normal operation is not allowed to exceed
(a) 80°C (b) 120°C (c) 180°C (d) 240°C
17. The inlet valve of a four stroke cycle I.C engine remains open for nearly
(a) 180° (b) 125° (c) 235° (d) 200°
18. The air-fuel ratio of the petrol engine is controlled by
(a) Fuel pump (b) governor (c) injector (d) carburetor
19. Scavenging is usually done to increase
(a) Thermal efficiency (b) speed (c) power output (d) fuel consumption
20. A stoichiometric air-fuel ratio is
(a) Chemically correct mixture (b) lean mixture (c) rich mixture for idling (d) rich mixture for over loads

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Five days Certification Program on "IC Engine"

Question Paper

- 18
20
Pg
1. The working cycle in case of four stroke engine is completed in following number of revolutions of crankshaft.
(a) 1/2 (b) 1 (c) 2 (d) 4
 2. In a diesel engine, the fuel is ignited by
(a) Spark (b) injected fuel (c) heat resulting from compressing air that is supplied for combustion (d) Ignition
 3. Scavenging air in diesel engine means
(a) Air used for combustion sent under pressure
(b) Forced air for cooling cylinder
(c) Burnt air containing products of combustion
(d) Air used for forcing burnt gases out of engine's cylinder during the exhaust period.
 4. Supercharging is the process of
(a) Supplying the intake of an engine with air at a density greater than the density of the surrounding atmosphere
(b) Providing forced cooling air
(c) Injecting excess fuel for raising more load
(d) Supplying compressed air to remove combustion products fully
 5. Does the supply of scavenging air at a density greater than that of atmosphere mean engine is supercharged?
(a) yes (b) no (c) to some extent (d) unpredictable
 6. The ratio of indicated thermal efficiency to the corresponding air standard cycle efficiency is called
(a) net efficiency (b) efficiency ratio (c) relative efficiency (d) overall efficiency
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 9. The calorific value of gaseous fuels is expressed in terms of
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 10. If the intake air temperature of I.C. engine increases, its efficiency will
(a) Increase (b) Decrease (c) Remain same
(d) unpredictable

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15. In case of gas turbines, the gaseous fuel consumption guarantees are based on
(a) High heat value ~~(b) Low heat value~~
(c) Net calorific value (d) Middle heat value
16. The temperature of interior surface of cylinder wall in normal operation is not allowed to exceed
(a) 80°C (b) 120°C ~~(c) 180°C~~ (d) 240°C
17. The inlet valve of a four stroke cycle I.C engine remains open for nearly
(a) 180° (b) 125° (c) 235° ~~(d) 200°~~
18. The air-fuel ratio of the petrol engine is controlled by
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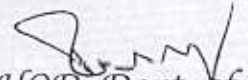


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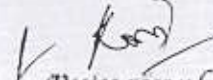
Bangalore-560057

Certificate

This is to Certify that Mr./Ms. Hema M
of Mechanical Engineering has participated
and successfully completed Five days Certification Course on
"IC Engines" from 23 July, 2018 to 27 July, 2018 organized by the
Department of mechanical Engineering, Sapthagiri College of
Engineering.


HOD, Dept of ME


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Certificate

This is to Certify that Mr./Ms. Chetan M
of Mechanical Engineering has participated
and successfully completed Five days Certification Course on
"IC Engines" from 23 July, 2018 to 27 July, 2018 organized by the
Department of mechanical Engineering, Sapthagiri College of
Engineering.


HOD, Dept of ME


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Bangalore-560057

Certificate

This is to Certify that Mr./Ms. _____

of _____ has participated
and successfully completed Five days Certification Course on
"IC Engines" from 23 July, 2018 to 27 July, 2018 organized by the
Department of mechanical Engineering, Sapthagiri College of
Engineering.

HOD, Dept of ME

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Department of Mechanical Engineering

Five days Certification Program on "IC Engines"

Participant Feedback

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

Student Name: HEMANTH U

Student Signature: HCU


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2018-19



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Department of Mechanical Engineering

Five days Certification Program on "IC Engines"

Participant Feedback

1. How was the overall organization of the Certification Course?
a) Fair ~~b) Good~~ c) Very Good d) Excellent
2. How appropriate were the facilities provided?
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a) Fair ~~b) Good~~ c) Very Good d) Excellent
7. Generally how was your overall experience during the Certification Course
~~a) Fair~~ b) Good c) Very Good d) Excellent
8. Any Suggestions:

Student Name: SHREMAL N. S

Student Signature:

Shree

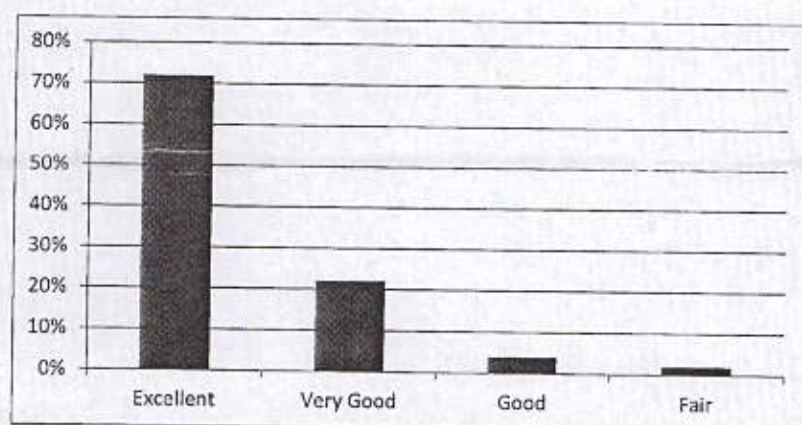
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FEEDBACK ANALYSIS

Certification Programme: "IC Engines"

No. of students participated	Student Feedback			
	Excellent	Very Good	Good	Fair
114	72%	22%	4%	2%




Action Report:


72 % of students were completely happy with the certification program and 22 % of students felt it was a good program and remaining 6 % 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.


Program Coordinator


HOD


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I.O.D. Dept. of Mech. Engg
S.C.E., Bangalore-560 057



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Department of Mechanical Engineering

Certificate Course Report

Department of mechanical Engineering conducted Certificate Course on IC Engine.

Guest Speaker: Mr. Harish Kumar. S, Resree's R&E Bengaluru

Duration of the course: five days from July 23rd 2018 to July 27th 2018

Course detail

Objective of the Course: The five day course made the students to be familiar with the IC Engine Working and Assembling the Parts 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 IC Engines. 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.

Dates	SESSION 1 (9.00 am-12.00 pm)	SESSION 2 (1.00 pm- 4.00 pm)
23-7-2018 Monday	Introduction to IC Engines	Parts of IC Engines
24-7-2018 Tuesday	Working & Demonstration of four Stroke petrol Engine	Working & Demonstration of four Stroke Diesel Engine
25-7-2018 Wednesday	Working & Demonstration of two Stroke petrol Engine	Working & Demonstration of two Stroke Diesel Engine


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26-7-2018 Thursday	Hands on training of assembling the Parts	Hands on training of assembling the Parts
27-7-2018 Friday	IC Engine Performance Calculations	IC Engine Performance Calculations & test

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.

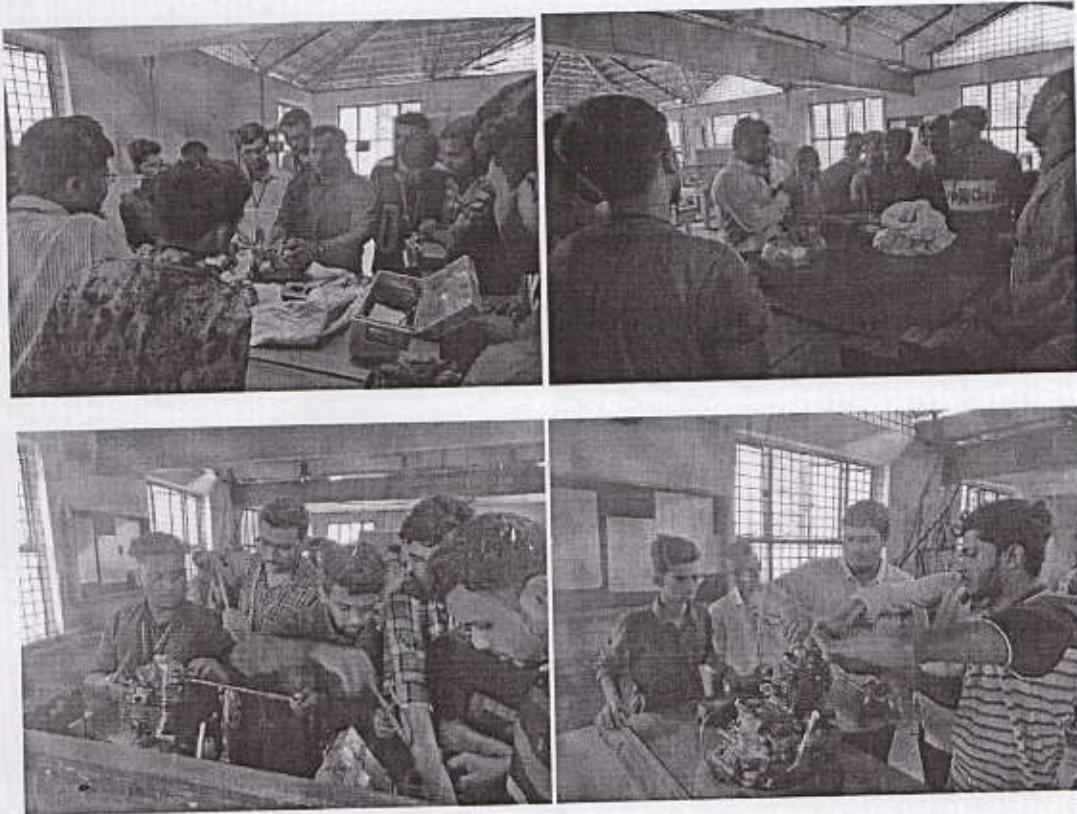


Mr. Harish Kumar S (CEO Resree's R&E) addressing students


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Students in hands-on session


HOD

H.O.D. Dept. of Mech. Engg
S.C.E., Bangalore-560 057


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Department of Mechanical Engineering

Date: 32/01/2019

To

IQAC Coordinator
Sapthagiri College of Engineering
Bengaluru-560 057

Respected sir/madam,

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

With respect to the Academic committee members meeting was held for analyzing department curriculum/syllabus for the academic year 2017-18. 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 course on 3D printing from 18-Jan-2019 to 22-Jan-2019 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,

*Forwarded to the AC
approval & ratification
Jew.*

Professor & Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.

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



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Department of Mechanical Engineering

Date: 02-01-2019

To,

IQAC Coordinator
Sapthagiri College of Engineering
Bangalore - 560057.

Respected Sir,

Subject: Budget Proposal for conduction of certification program on "3D printing"

The Budget Proposal for conduction a certification program on 3D printing from 18-Jan-2019 to 22-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	125	1500
3	Others	1	1000
Total			2700

*Forwarded for the GC
approval & ratification*
[Signature]

[Signature]
HCD

Professor & Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bangalore - 560 057.

[Signature]
Principal

Sapthagiri College of Engineering
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Department of Mechanical Engineering

Date: 03-01-2019

CIRCULAR

This is to inform that the following Academic Committee members are requested to attend the meeting on 05/01/2019 at 10.30AM in the HODs chamber to decide the syllabus and the lesson plan for the certification program on "3D printing".

Sl No.	Faculty Name	Designation	Signature
1	Dr. P. Mahadeva swamy	HOD	
2	Dr. Tulsidas	Associate Professor	
3	Prof. Chethan B P	Assistant Professor	
4	Prof. Ramesh. N,G	Assistant Professor	
5	Prof. Basavaraj.G	Assistant Professor	

HOD
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.

Principal
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Department of Mechanical Engineering

To,

Mr. Anil M P
Director
M/S ASP Designs-
Mysore

Respected Sir,

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

Department of Mechanical Engineering has planned to conduct a certification program titled "3D printing" for 6th semester students from 18-Jan-2019 to 22-Jan-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 course on 05/01/2019 at 10.30 AM in Mechanical HODs Chamber. We look forward to welcome you at SCE.

Thanking you

Yours faithfully

Professor & Head

Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.

Principal

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Minutes of Meeting

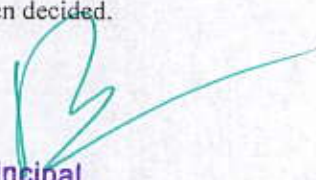
A meeting was conducted on 05-Jan-2019 in Mechanical HCDs Chamber to discuss and approve the following about the 5 days Certification Course for 3rd and 5th semester ME Students.

- **Course Title :** 3D printing
- **Program Coordinator :** Prof. Chethan B P
- **Resource Person:** Mr. Anil P R
- **Course Duration & Date:** 5 Days from 18-Jan-2019 to 22-Jan-2019
- **Syllabus** : 3D Printing manufacturing technology

Lesson Plan of the certification program

Dates	SESSION 1 (9.00 am-12.00 pm)	SESSION 2 (1.00 pm- 4.00 pm)	No. of Hours
18/01/2019	Introduction to 3-D Printing,	3-D Printing Applications	6
19/01/2019	Rapid Prototyping	Generation of G Codes	6
20/01/2019	Uses of 3-D Printer	Uses of 3-D Printer	6
21/01/2019	Demonstration of 3-D Printer	Demonstration of 3-D Printer	6
22/01/2019	Hands on session	Hands on session	6

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


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Department of Mechanical Engineering

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3	Prof. Chethan B P	Assistant Professor	
4	Prof. Ramesh. N,G	Assistant Professor	
5	Prof. Basavaraj.G	Assistant Professor	
6	Mr. Anil P R	Guest Speaker	

HOD
Professor & Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.

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Department of Mechanical Engineering

NOTICE

As a part of programming skill development, Department of Mechanical Engineering is conducting five days Certification Course on "3D printing" from 18-Jan-2019 to 22-Jan-2019 for 6th Semester mechanical students. The interested Students enroll your names with Mr. Chethan B P


Signature of HOD
Professor & Head

Department of Mechanical Engineering
Sapthagiri College of Engineering
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Department of Mechanical Engineering

Five Days Certification Program On "3D Printing"

Students Enrollment

Sl.No.	USN	Student Name
1	1SG16ME001	ABHISHEK R
2	1SG16ME003	AISHWARYA B S
3	1SG16ME004	AJAY
4	1SG16ME005	AKSHATHA J PRAKASH
5	1SG16ME006	AKSHAY CHANNAPPA K
6	1SG16ME007	AKSHAY P S
7	1SG16ME008	AMBAPRASAD G HEGDE
8	1SG16ME009	AMOGH G
9	1SG16ME010	AMRUTH S
10	1SG16ME011	ARJUN V GOWDA
11	1SG16ME013	BALAJI J
12	1SG16ME014	CHAITHRA G S
13	1SG16ME016	CHARAN H K
14	1SG16ME017	CHARAN S.
15	1SG16ME019	CHETHAN B R
16	1SG16ME020	CHETHAN K
17	1SG16ME021	DEEKSHITH GOWDA V U
18	1SG16ME024	DEEPAK V
19	1SG16ME025	DEVANTH G
20	1SG16ME026	DHANUSH V
21	1SG16ME027	DHARSHAN L
22	1SG16ME028	DILEEP H R
23	1SG16ME029	DILIP KUMAR N
24	1SG16ME030	GANESH NISCHAY S
25	1SG16ME031	GAURAV B
26	1SG16ME033	HEMANTH B S
27	1SG16ME034	HEMANTH KUMAR G
28	1SG16ME035	HEMANTH KUMAR S
29	1SG16ME036	INDRASHEKAR B G
30	1SG16ME037	JHENKAR B


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31	1SG16ME038	JOEPETER FRANCIS
32	1SG16ME039	K AKASH HEBBAR
33	1SG16ME040	KAILASH KUMAR
34	1SG16ME041	KARAN KUMAR S
35	1SG16ME043	KARTIKEYA SHAMBU BHAT
36	1SG16ME044	KESHAV A
37	1SG16ME045	KISHOR R
38	1SG16ME046	LEKHA M
39	1SG16ME047	LOKESH KUMAR C
40	1SG16ME048	M AMRITHA NAIR
41	1SG16ME051	MANASA K S
42	1SG16ME052	MANOJ T R
43	1SG16ME053	MUKUL YADAV
44	1SG16ME054	NAMITHA S BHARADWAJ
45	1SG16ME055	NARASIMHAN S R
46	1SG17ME400	ABHISHEK KM
47	1SG17ME402	AKHILESH K
48	1SG17ME407	CHETHAN K S
49	1SG17ME408	DHANUSH MS
50	1SG17ME409	DEEPAK R
51	1SG17ME411	S DINESH
52	1SG17ME412	GOKUL S
53	1SG17ME418	NANDEESH DG
54	1SG17ME419	NITHIN R
55	1SG17ME421	PAVAN KUMAR S
56	1SG17ME423	PUNEETH R
57	1SG17ME424	RAKESH GOWDA
58	1SG17ME425	RANJAN A
59	1SG17ME426	SABARI S
60	1SG17ME430	SUNIL LS
61	1SG17ME431	UJWAL K
62	1SG17ME432	V M RAKESH
63	1SG17ME433	VENU AV
64	1SG17ME434	YASHWANTH R
65	1SG16ME114	CHETHAN A
66	1SG16ME115	KESHAV N
67	1SG16ME116	BASAVARAJ MELSIME
68	1SG16ME117	RAGHAVENDRA
69	1SG16ME118	PUNITH P


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70	1SG16ME119	MAHANTHESH S
71	1SG16ME056	NAVEEN KUMAR P
72	1SG16ME057	NISARGA KARNAM
73	1SG16ME058	NISHANTH A N
74	1SG16ME060	PALLAVI K N
75	1SG16ME061	PARINITH K M
76	1SG16ME064	PAVAN Y
77	1SG16ME065	PRAJWAL B GOWDA
78	1SG16ME066	PRAJWAL CHANDRA
79	1SG16ME067	PRAVEEN KUMAR A N
80	1SG16ME068	PRAVEEN S
81	1SG16ME069	PRIYANKA K
82	1SG16ME070	PUNEETH KUMAR B M
83	1SG16ME071	RAGHAV P S
84	1SG16ME072	RAHUL PRASANNA
85	1SG16ME073	RAHUL YALLAPPA H
86	1SG16ME074	RAJAT JANARDHAN A
87	1SG16ME078	RAMYASHREE M
88	1SG16ME079	RAVIKUMAR
89	1SG16ME080	RISHABH B SHETTY
90	1SG16ME082	ROSHAN H
91	1SG16ME083	SABARISH B
92	1SG16ME084	SAGAR M L
93	1SG16ME085	SAGAR S T
94	1SG16ME087	SANJAY N
95	1SG16ME088	SATHISHA YADAV
96	1SG16ME090	SHARANABASAVA S
97	1SG16ME093	SHASHANK R
98	1SG16ME094	SHIVASHISH BORAH
99	1SG16ME095	SHIVSHANKAR
100	1SG16ME097	SHREESH
101	1SG16ME099	SHRINIVASA C G
102	1SG16ME100	SHYLESH GOWDA S
103	1SG16ME102	SUHAS SHETTY
104	1SG16ME103	SUNIL KUMAR E
105	1SG16ME105	VARUN M
106	1SG16ME106	VARUN V
107	1SG16ME107	VINAY H P
108	1SG16ME108	VINAYAKA M

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109	1SG16ME109	VINAY KUMAR S
110	1SG16ME111	YASHAS GOWDA K N
111	1SG16ME112	PRAJWAL A NAIK
112	1SG16ME113	RATHAN KUMAR HP
113	1SG17ME401	ABHISHEK M K
114	1SG17ME404	BHARATH TV
115	1SG17ME405	C MUKESH
116	1SG17ME406	CHANDRASHEKAR M
117	1SG17ME410	DHANALAKSHMI HM
118	1SG17ME413	LOKESH M
119	1SG17ME414	MADHU MR
120	1SG17ME415	MAHENDRA YK
121	1SG17ME417	NANDAN TD
122	1SG17ME420	NUTHAN C
123	1SG17ME422	PRAVEEN M
124	1SG17ME427	SATHISHA UT
125	1SG17ME428	SRINIVAS M

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Professor & Head
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DEPARTMENT OF MECHNAICAL ENGINEERING

Five days Certification Program on "3D Printing"

Attendance

Sl No.	USN	Student Name	18/01/19		19/01/19		20/01/19		21/01/19		22/01/19		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	
1	1SG16ME001	ABHISHEK R	1	2	3	4	5	6	7	8	9	10	
2	1SG16ME003	AISHWARYA B S	1	2	3	4	5	6	7	8	9	10	
3	1SG16ME004	AJAY	1	2	3	4	4	5	6	7	8	9	
4	1SG16ME005	AKSHATHA J PRAKASH	1	2	3	4	5	6	7	8	9	10	
5	1SG16ME006	AKSHAY CHANNAPPA K	1	2	3	4	5	6	7	8	9	10	
6	1SG16ME007	AKSHAY P S	1	2	3	4	5	6	7	8	9	10	
7	1SG16ME008	AMBAPRASAD G HEGDE	1	2	3	3	4	5	6	7	8	9	
8	1SG16ME009	AMOGH G	1	2	3	4	5	6	7	8	9	10	
9	1SG16ME010	AMRUTH S	1	2	3	4	5	6	7	8	9	10	
10	1SG16ME011	ARJUN V GOWDA	1	2	3	4	5	6	7	8	9	10	
11	1SG16ME013	BALAJI J	1	2	3	4	5	6	7	8	9	10	
12	1SG16ME014	CHAITHRA G S	1	2	3	4	5	6	7	8	9	10	
13	1SG16ME016	CHARAN H K	1	2	3	4	5	6	7	8	8	9	
14	1SG16ME017	CHARAN S.	1	2	3	4	5	6	7	8	9	10	
15	1SG16ME019	CETHAN B R	1	2	3	4	5	6	7	8	9	10	
16	1SG16ME020	CETHAN K	1	2	3	4	5	6	7	8	9	10	
17	1SG16ME021	DEEKSHITH GOWDA V U	1	1	2	3	4	5	6	6	7	8	
18	1SG16ME024	DEEPAK V	1	2	3	4	5	6	7	8	9	10	
19	1SG16ME025	DEVANTH G	1	2	3	4	5	6	7	8	9	9	
20	1SG16ME025	DHANUSH V	1	2	3	4	5	6	7	8	9	10	
21	1SG16ME027	DHARSHAN L	1	2	3	4	5	6	7	8	9	10	
22	1SG16ME028	DILEEP H R	1	1	2	3	4	5	6	7	8	9	
23	1SG16ME029	DILIP KUMAR N	1	2	3	4	5	6	7	8	9	10	
24	1SG16ME030	GANESH NISCHAY S	1	2	3	4	5	6	7	8	9	10	
25	1SG16ME031	GAURAV B	1	2	3	4	5	6	7	8	9	9	

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26	1SG16ME033	HEMANTH B S	1	2	3	4	5	6	7	8	9	10	
27	1SG16ME034	HEMANTH KUMAR G	1	1	2	3	4	5	6	7	8	9	
28	1SG16ME035	HEMANTH KUMAR S	1	2	3	4	5	6	7	8	9	10	
29	1SG16ME036	INDRASHEKAR B G	1	2	3	4	5	6	7	8	9	9	
30	1SG16ME037	JHENKAR B	1	2	3	4	5	6	7	8	9	10	
31	1SG16ME038	JOEPETER FRANCIS	1	2	3	4	5	6	7	8	9	10	
32	1SG16ME039	K AKASH HEBBAR	1	2	3	4	5	6	7	8	9	10	
33	1SG16ME040	KAILASH KUMAR	1	2	3	4	5	6	7	8	9	9	
34	1SG16ME041	KARAN KUMAR S	1	2	3	4	5	6	7	8	9	10	
35	1SG16ME043	KARTIKEYA SHAMBHU	1	2	3	4	5	6	7	8	9	10	
36	1SG16ME044	KESHAV A	1	2	3	4	5	6	7	8	9	10	
37	1SG16ME045	KISHOR R	1	2	3	4	5	5	6	7	8	9	
38	1SG16ME046	LEKHA M	1	2	3	4	5	6	7	8	9	10	
39	1SG16ME047	LOKESH KUMAR C	1	2	2	3	4	5	6	7	7	8	
40	1SG16ME048	M AMRITHA NAIR	1	2	3	4	5	6	7	8	9	10	
41	1SG16ME051	MANASA K S	1	2	3	4	5	6	7	8	9	10	
42	1SG16ME052	MANOJ T R	1	2	3	4	5	6	7	8	9	10	
43	1SG16ME053	MUKUL YADAV	1	2	3	4	5	6	7	8	9	10	
44	1SG16ME054	NAMITHA S BHARADWAJ	1	1	2	3	4	5	6	7	8	9	
45	1SG16ME055	NARASIMHAN S R	1	2	3	4	5	6	7	8	9	10	
46	1SG17ME400	ABHISHEK KM	1	2	3	4	5	6	7	8	9	10	
47	1SG17ME402	AKHILESH K	1	2	3	4	5	6	7	8	9	10	
48	1SG17ME407	CHETHAN K S	1	2	3	4	5	5	6	7	8	9	
49	1SG17ME408	DHANUSH MS	1	2	3	4	5	6	7	8	9	10	
50	1SG17ME409	DEEPAK R	1	2	3	4	5	6	7	8	9	10	
51	1SG17ME411	S DINESH	1	2	3	4	5	6	7	8	9	10	
52	1SG17ME412	GOKUL S	1	2	3	4	5	6	7	8	9	9	
53	1SG17ME418	NANDEESH DG	1	2	3	4	5	6	7	8	9	10	
54	1SG17ME419	NITHIN R	1	2	3	4	5	6	7	8	9	10	
55	1SG17ME421	PAVAN KUMAR S	1	2	3	4	4	5	6	7	7	8	

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56	1SG17ME425	PUNEETH R	1	2	3	4	4	5	6	7	8	9	
57	1SG17ME424	RAKESH GOWDA	1	2	3	4	5	6	7	8	9	10	
58	1SG17ME425	RANJAN A	1	2	3	4	5	6	7	8	9	10	
59	1SG17ME426	SABARI S	1	2	3	4	5	6	7	8	9	10	
60	1SG17ME430	SUNIL LS	1	2	2	3	4	5	6	7	8	9	
61	1SG17ME431	UJWAL K	1	1	2	3	4	4	5	6	7	8	
62	1SG17ME432	V M RAKESH	1	2	3	4	5	6	7	8	9	10	
63	1SG17ME433	VENU AV	1	2	3	4	5	6	7	8	9	10	
64	1SG17ME434	YASHWANTH R	1	2	3	4	5	6	7	8	9	10	
65	1SG16ME114	CHETHAN A	1	2	3	4	5	6	7	8	9	10	
66	1SG16ME115	KESHAV N	1	2	3	4	5	6	7	8	9	10	
67	1SG16ME115	BASAVARAJ MELSIME	1	2	3	4	5	6	7	7	8	9	
68	1SG16ME117	RAGHAVENDRA	1	2	3	4	5	6	7	8	9	10	
69	1SG16ME113	PUNITH P	1	2	3	4	5	6	7	8	9	10	
70	1SG16ME113	MAHANTHESH S	1	2	3	4	5	6	7	8	9	10	
71	1SG16ME056	NAVEEN KUMAR P	1	2	3	4	5	6	7	8	9	9	
72	1SG16ME057	NISARGA KARNAM	1	2	3	4	5	6	7	8	9	10	
73	1SG16ME058	NISHANTH A N	1	2	3	4	5	6	7	8	9	10	
74	1SG16ME060	PALLAVI K N	1	2	3	4	5	6	7	8	9	10	
75	1SG16ME061	PARINITH K M	1	2	3	4	5	6	7	8	9	10	
76	1SG16ME064	PAVAN Y	1	2	3	4	5	6	7	8	9	10	
77	1SG16ME065	PRAJWAL B GOWDA	1	2	3	4	5	6	7	8	9	10	
78	1SG16ME066	PRAJWAL CHANDRA	1	2	3	4	5	6	7	8	9	10	
79	1SG16ME067	PRAVEEN KUMAR A N	1	2	2	3	4	5	6	7	8	9	
80	1SG16ME068	PRAVEEN S	1	2	3	4	5	6	7	8	9	10	
81	1SG16ME069	PRIYANKA K	1	2	3	4	5	6	7	8	9	10	
82	1SG16ME070	PUNEETH KUMAR B M	1	2	3	4	5	6	7	8	9	10	
83	1SG16ME071	RAGHAV P S	1	2	2	3	4	5	6	7	8	9	
84	1SG16ME072	RAHUL PRASANNA	1	2	3	4	5	6	7	8	9	10	
85	1SG16ME073	RAHUL YALLAPPA H	1	2	3	4	5	6	7	8	9	10	


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86	1SG16ME074	RAJAT JANARDHAN A	1	2	3	4	5	6	7	8	9	10
87	1SG16ME078	RAMYASHREE M	1	2	3	4	5	6	7	8	9	10
88	1SG16ME079	RAVIKUMAR	1	2	3	4	5	6	7	8	9	10
89	1SG16ME080	RISHABH B SHETTY	1	2	3	4	5	6	7	8	9	10
90	1SG16ME082	ROSHAN H	1	2	3	4	5	6	7	8	9	10
91	1SG16ME083	SABARISH B	1	2	3	4	5	6	7	8	9	10
92	1SG16ME084	SAGAR M L	1	2	3	4	5	6	6	7	8	9
93	1SG16ME085	SAGAR S T	1	2	3	4	5	6	7	8	9	
94	1SG16ME087	SANJAY N	1	2	3	4	5	6	7	8	9	10
95	1SG16ME088	SATHISHA YADAV	1	1	2	3	4	5	6	7	8	9
96	1SG16ME090	SHARANABASAVA S	1	2	3	4	5	6	7	8	9	10
97	1SG16ME093	SHASHANK R	1	2	3	4	5	6	7	8	9	10
98	1SG16ME094	SHIVASHISH BORAH	1	2	3	4	5	6	7	8	9	10
99	1SG16ME095	SHIVSHANKAR	1	2	3	4	5	6	7	8	9	10
100	1SG16ME097	SHREESH	1	1	2	3	4	5	6	7	8	9
101	1SG16ME099	SHRINIVASA C G	1	2	3	4	5	6	7	8	9	10
102	1SG16ME100	SHYLESH GOWDA S	1	2	3	4	5	6	7	8	9	10
103	1SG16ME102	SUHAS SHETTY	1	2	3	4	5	6	7	8	9	10
104	1SG16ME103	SUNIL KUMAR R	1	2	3	4	5	6	7	8	9	10
105	1SG16ME105	VARUN M	1	2	3	4	5	6	7	8	9	
106	1SG16ME106	VARUN V	1	2	3	4	5	6	7	8	9	10
107	1SG16ME107	VINAY H P	1	1	2	3	4	5	6	7	8	9
108	1SG16ME108	VINAYAKA M	1	2	3	4	5	6	7	8	9	10
109	1SG16ME109	VINAY KUMAR S	1	2	3	4	5	6	7	8	9	10
110	1SG16ME111	YASHAS GOWDA K N	1	1	2	3	4	5	6	7	8	9
111	1SG16ME112	PRAJWAL A NAIK	1	2	3	4	5	6	7	8	9	10
112	1SG16ME113	RATHAN KUMAR HP	1	2	3	4	5	6	7	8	9	10
113	1SG17ME401	ABHISHEK M K	1	2	3	4	5	6	7	8	9	10
114	1SG17ME404	BHARATH TV	1	2	3	4	5	6	7	8	9	9
115	1SG17ME405	C MUKESH	1	2	3	4	5	6	7	8	9	10

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116	15G17ME406	CHANDRASHEKAR M	1	2	3	4	5	6	7	8	9	9	
117	15G17ME410	DHANALAKSHMI HM	1	2	3	4	5	6	7	8	9	10	
118	15G17ME413	LOKESH M	1	2	3	4	5	6	7	8	9	10	
119	15G17ME414	MADHU MR	1	2	3	4	5	6	7	8	9	10	
120	15G17ME415	MAHENDRA YK	1	1	2	3	4	5	6	7	8	9	
121	15G17ME417	NANDAN TD	1	2	3	4	5	6	7	8	9	10	
122	15G17ME420	NUTHAN C	1	2	3	4	5	6	7	8	9	10	
123	15G17ME422	PRAVEEN M	1	2	3	4	4	5	6	7	8	9	
124	15G17ME427	SATHISHA UT	1	2	3	4	5	6	7	8	9	10	
125	15G17ME428	SRINIVAS M	1	1	2	2	3	4	5	6	7	8	
Signature of Resource Personnel			1	2	3	4	5	6	7	8	9	10	


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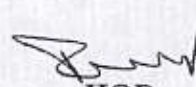
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Department of Mechanical Engineering

Five days Certification Program on "3D Printing"

Test Time Table

Sl. No.	DATE	DAY	TIMINGS
1	23-01-2019	Saturday	9.00 AM - 10.00 AM


HOD

Professor & Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bengaluru - 560 057.



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Five days Certification Program on "3D Printing"

Question Paper

1. What is the most important thing you should consider when making something in 3d?
a) Size b) Gravity c) Functionality d) Quality
2. What is the first thing you should consider when making something in 3d?
a) quality b) functionality c) quality d) size
3. What is the file format we export to print?
a) obj b) stl c) stl d) slt
4. What does 3d mean?
a) Movies b) 3 dimensions c) stereoscopic d) computer graphics
5. What can be 3d?
a) Computer graphics b) movies c) sculptures d) all of the above
6. Who creates 123D Design?
a) Alias b) Maker ware c) Autodesk d) Shape ways
7. What menu do I go to merge objects together?
a) Group b) Combine c) Translate d) Scale
8. What button on the keyboard do we hold to move the camera?
a) Shift b) command c) control d) alt/option
9. What program did we draw in and import into 123D Design?
a) Google Draw b) Google c) Google Drive d) Sketchup
10. The inner flat planes of a model are called:
a) Faces b) planes c) shapes d) banana
11. The lines of a model are called:
a) Lines b) points c) edges d) spaces
12. What is one tool we use to fix sharp edges?
a) Chamfer b) smooth c) part c) fix
13. If I have a model with hands that stand out for the sides what do I have to turn on to print it?
a) Raft b) Structure c) Supports d) Fixtures
14. What tool do we use to cut a hole into a shape?
a) Combine b) Scale c) Extrude d) Translate

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15. What is the shortcut to re-size a model?
a) Command r b) command s c) r d) s
16. The view cube always rotates things in 3D excepts when I turn on
a) Orthographic views b) flat views c) camera views d) architect views
17. What is the file format we would save from google drawing?
a) stl b) s3e c) jpg d) gif
18. What makes 3D printing superior to other crafting techniques?
a) Efficiency b) Speed c) Quality d) Customization
19. Which axis determines if the object is 3D?
a) X b) Y c) z d) O
20. What is it called when I need to move an object in 3D?
a) Move b) Push c) Translate d) Grab





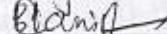

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Five days Certification Program on "3D Printing"

Solution

1. a) Size
2. d) Size
3. b) stl
4. b) 3 dimensions
5. d) All of the above
6. c) Autodesk
7. b) Combine
8. c) Control
9. d) Google draw
10. b) planes
11. c) Edges
12. a) Chamfer
13. d) Fixtures
14. c) Extrude
15. d) s
16. a) Orthographic views
17. d) gif
18. d) Customization
19. d) O
20. a) Move

Approved by Academic Committee Members & HOD

Sl No.	Faculty Name	Designation	Signature
1	Dr. P. Mahadeva swamy	HOD	
2	Dr. Tulsidas	Associate Professor	
3	Prof. Chethan B P	Assistant Professor	
4	Prof. Ramesh. N.G	Assistant Professor	
5	Prof. Basavaraj G	Assistant Professor	

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HOD
1.D.D. Dept. of Mech. Engg
S.C.E., Bangalore-560 057



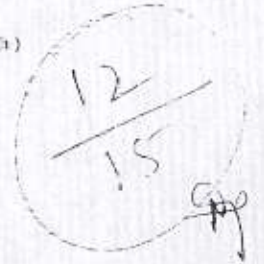
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Amrutha S

15G16ME010

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Question Paper

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☐ a) quality ☐ b) functionality ☐ c) quality ☒ d) size
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☐ a) obj ☒ b) stl ☐ c) stl ☒ d) stl
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☒ a) Movies ☐ b) 3 dimensions ☐ c) stereoscopic ☐ d) computer graphics
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☐ a) Shift ☐ b) command ☒ c) control ☐ d) alt/option
9. What program did we draw in and import into 123D Design?
☒ a) Google Draw ☐ b) Google ☐ c) Google Drive ☐ d) Sketchup
10. The inner flat planes of a model are called:
☐ a) Faces ☒ b) planes ☐ c) shapes ☐ d) banana
11. The lines of a model are called:
☒ a) Lines ☐ b) points ☐ c) edges ☐ d) spaces
12. What is one tool we use to fix sharp edges?
☒ a) Chamfer ☐ b) smooth ☐ c) part ☐ d) fix
13. If I have a model with hands that stand out for the sides what do I have to turn on to print it?
☐ a) Raft ☐ b) Structure ☐ c) Supports ☒ d) Fixtures
14. What tool do we use to cut a hole into a shape?
☐ a) Combine ☐ b) Scale ☒ c) Extrude ☐ d) Translate

Principal

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Bangalore-560 057



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15. What is the shortcut to re-size a model?
a) Command r b) command ~~sv~~ r d) s
16. The view cube always rotates things in 3D excepts when I turn on
✓ a) Orthographic views b) flat views c) camera views d) architect views
17. What is the file format we would save from google drawing?
✓ a) stl b) svg c) jpg ~~d) gif~~
18. What makes 3D printing superior to other crafting techniques?
✓ a) Efficiency b) Speed c) Quality ~~d) Customization~~
19. Which axis determines if the object is 3D?
✓ a) X b) Y c) z ~~d) 0~~
20. What is it called when I need to move an object in 3D?
✓ a) Move b) Push c) Translate d) Grab

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CHETHAN A
1SG16ME114

Five days Certification Program on "3D Printing"

Question Paper

13
15
PT

1. What is the most important thing you should consider when making something in 3d?
a) Size b) Gravity c) Functionality d) Quality
2. What is the first thing you should consider when making something in 3d?
a) quality b) functionality c) quality d) size
3. What is the file format we export to print?
a) cbj b) stj c) stl d) slt
4. What does 3d mean?
a) Movies b) 3 dimensions c) stereoscopic d) computer graphics
5. What can be 3d?
a) Computer graphics b) movies c) sculptures d) all of the above
6. Who creates 123D Design?
a) Alias b) Maker ware c) Autodesk d) Shape ways
7. What menu do I go to merge objects together?
a) Group b) Combine c) Translate d) Scale
8. What button on the keyboard do we hold to move the camera?
a) Shift b) command c) control d) alt/option
9. What program did we draw in and import into 123D Design?
a) Google Draw b) Google c) Google Drive d) Sketchup
10. The inner flat planes of a model are called:
a) Faces b) planes c) shapes d) banana
11. The lines of a model are called:
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15. What is the shortcut to re-size a model?

- a) Command b) commands c) ~~re-size~~

16. The view cube always rotates things in 3D excepts when I turn on

- ~~a)~~ Orthographic views b) flat views c) camera views d) architect views

17. What is the file format we would save from google drawing?

- a) stl b) ~~svg~~ c) jpg ~~d) gif~~

18. What makes 3D printing superior to other crafting techniques?

- a) Efficiency b) Speed c) Quality ~~d) Customization~~

19. Which axis determines if the object is 3D?

- a) X b) Y c) z ~~d) D~~

20. What is it called when I need to move an object in 3D?

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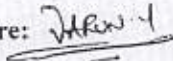
Department of Mechanical Engineering

Five days Certification Program on "3D printing"

Participant Feedback

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

Student Name: VARUN V

Student Signature: 


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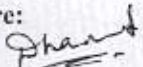
Department of Mechanical Engineering

Five days Certification Program on "3D printing"

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a) Fair b) Good ☒ c) Very Good d) Excellent
8. Any Suggestions:

Student Name: DHANALAKSHMI .H.M

Student Signature: 


Principal

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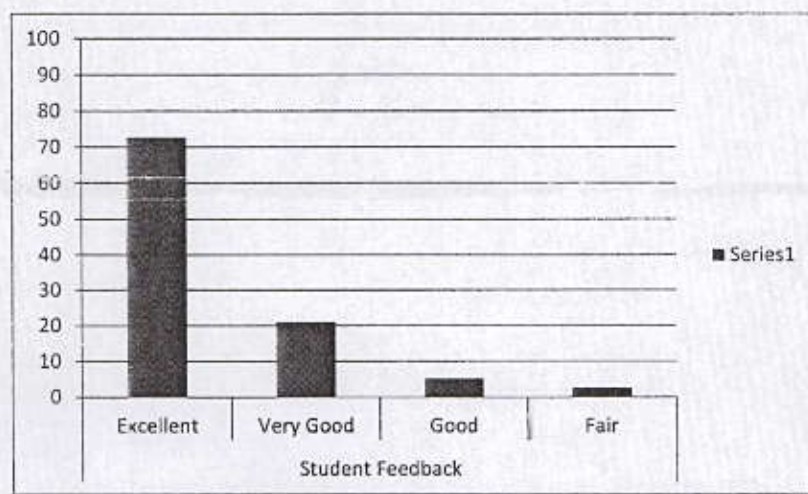
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Department of Mechanical Engineering

FEEDBACK ANALYSIS

Certification Programme: "3D printing"

No. of students participated	Student Feedback			
	Excellent	Very Good	Good	Fair
114	70	15	5	10



Action Report:


70 % of students were completely happy with the certification program and 20 % of students felt it was a good program and remaining 10 % 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.


Program Coordinator


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


HOD
Professor & Head
Department of Mechanical Engineering
Sapthagiri College of Engineering
Bangalore - 560 057


Certificate Course Report

Aiming to provide an intense training on **3-D Printing** at undergraduate level for 6th Semester students of Department of Mechanical Engineering, Sapthagiri College of held during 18th Jan. 2019 to 22nd Jan 2019 at Sapthagiri college of Engineering Campus. Overall the students felt that the session was informative & gained knowledge about **3-D Printing**.

Glimpse of Course Programme




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Bengaluru - 560 057


HOD
V.O.D. Dept. of Mech. Engg.
S.C.E., Bangalore-560 057



Sapthagiri College of Engineering


Bangalore-560057

Certificate

This is to Certify that Mr./Ms. Keshava A
of Mechanical Engineering has participated
and successfully completed Five days Certification Course on
"3D Printing" from 18 January, 2019 to 22 January, 2019 organized
by the Department of mechanical Engineering, Sapthagiri College of
Engineering.


HOD, Dept of ME


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Principal

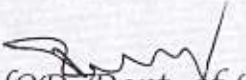


Sapthagiri College of Engineering

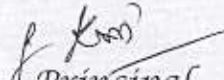
Bangalore-560057

Certificate

This is to Certify that Mr./Ms. S. Dinesh
of Mechanical Engineering has participated
and successfully completed Five days Certification Course on
"3D Printing" from 18 January, 2019 to 22 January, 2019 organized
by the Department of mechanical Engineering, Sapthagiri College of
Engineering.


HOD, Dept of ME


Principal
Sapthagiri College of Engineering
14/6, Chikkasandra, Hosareghatta Main Road
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Principal