M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: - www.miet.edu

Ph: 0431 – 2660 303

1.2.2 Number of Add on /Certificate programs offered during the last five years (10)

2019-2020		
Sl. No	**Name of Add on /Certificate programs offered**	**Pg. No**
	ME19201- Non-Destructive Testing Techniques to Minimize Weld Defects	
	Batch-I	
	Permission	3
	Circular	4
	Syllabus	5-6
	Willing Student List	7-20
	Course Delivery	21-22
	Resource Person Details	23-24
	Attendance	25-27
	Question Paper	28
	One Page Report	29
	Certificates	30-31
1.	**Batch-II**	
	Course Delivery	32-33
	Resource Person Details	34-35
	Attendance	36-39
	Question Paper	40
	One Page Report	41
	Certificates	42-43
	Batch-III	
	Course Delivery	44-45
	Resource Person Details	46-47
	Attendance	48-51
	Question Paper	52
	One Page Report	53
	Certificates	54-55
	ME19202 - Modeling of an Engine Assembly by Using FUSION 360°	
	Batch-I	
	Permission	56
	Circular	57
2.	Syllabus	58
	Willing Student List	59-72
	Course Delivery	73-74
	Resource Person Details	75-76
	Attendance	77-79

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Website: - www.miet.edu

Ph: 0431 – 2660 303

Date: 10.06.2019

To

The Principal

M.I.E.T Engineering College,

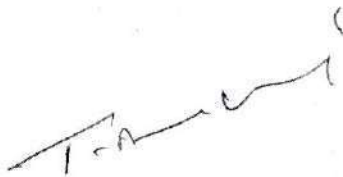Trichy – 620007

Respected Sir,

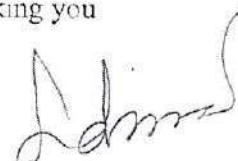Sub: Permission to conduct Certificate Program – Reg.

We have planned to conduct the Certificate Program for our final year students of Mechanical Engineering after the class hours (from 17.06.2019 to 21.08.2019)
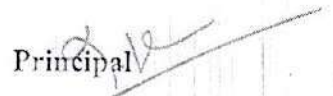
Name of the Certificate Program	Course Coordinators
Non-Destructive Testing techniques to minimize weld defects	M.Kirubakaran, L S Narendhira, D.Manikandan, S.Kumaradevan, T.Ramkumar and A.Jeyanthan

So kindly give us permission to conduct the course and to utilize the Manufacturing laboratory after class hours (05:15 P.M. to 07:15 P.M).

Thanking you

Course Coordinator   HoD/Mech   Principal

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CIRCULAR

Date: 13.06.2019

Sub: Certificate Program

It is planned to conduct the Certificate Program for the Final year Mechanical Engineering students after the class hours.

The Certificate Program are short term certificate courses which are designed and offered by our department for the benefit of our students. Certificate Program will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their name to the course coordinator.

Name of the Certificate Program	Course Coordinators
Non-Destructive Testing techniques to minimize weld defects	M.Kirubakaran, L S Narendhira, D.Manikandan, S.Kumaradevan, T.Ramkumar and A.Jeyanthan
Commencement of course from 17.06.2019 to 21.08.2019 Time: 05.15 PM to 07.15 PM	

Course Coordinator   IQAC Coordinator   HoD/Mech   Principal

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M.I.E.T ENGINEERING COLLEGE, TRICHY – 7.

DEPARTMENT OF MECHANICALENGINEERING

Certificate Program (IV Year – VII Semester)

Course Syllabus

Name of the course: Non-Destructive Testing techniques to minimize weld defects

Course Code: ME19201

Course Coordinators: Mr. Kirubakaran M, ASP/Mech and Mr. L S Narandhira, AP/ Mech

Total Hours:30 Hrs   **Academic Year: 2019-20**

Objective

To introduce all types of NDT and their applications in Engineering. Using Mechatronics Laboratory

Unit I – INTRODUCTION   6

Introduction to various non-destructive methods, Comparison of Destructive and Non destructive Tests, Visual Inspection, Optical aids used for visual inspection, Applications.Physical principles, procedure for penetrant testing, Penetrant testing materials, Penetrant testing methods-water washable, Post – Emulsification methods, Applications

Unit II – Magnetic Particle Testing & Thermography   6

Principle of MPT, procedure used for testing a component, Equipment used for MPT, Magnetizing techniques, Applications. Principle of Thermography, Infrared Radiometry, Active thermography measurements, Applications –Imaging entrapped water under an epoxy coating, Detection of carbon fiber contaminants..

Unit III – Radiography   6

Principle of Radiography, x-ray and gamma ray sources- safety procedures and standards, Effect of radiation on Film, Radiographic imaging, Inspection Techniques – Single wall single image, Double wall Penetration, Multiwall Penetration technique, Real Time Radiography - Codes, standards, specification and procedures and case studies in Radiography test. Case studies on defects in cast, rolled, extruded, welded and heat treated components - Comparison and selection of various NDT techniques

Unit IV – Thermography   6

hermography- Principles, Contact and non contact inspection methods, Techniques for applying liquid crystals, Advantages and limitation – infrared radiation and infrared detectors, Instrumentations and methods, applications.

Unit V – Eddy Current Testing   6

Eddy Current Testing-Generation of eddy currents, Properties of eddy currents, Eddy current sensing elements, Probes, Instrumentation, Types of arrangement, Applications, advantages, Limitations, Interpretation/Evaluation.
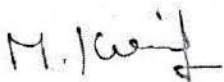
Course Outcome

The students will be able to

1. Upon completion of the course, The students will understand the basic perception of non destructive evaluation techniques and their application in the engineering field.
2. The students will understand various issues, industrial standards, testing methods in engineering field.
3. The students will be aware for quality, safety and risk involved in the testing process

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References

1. Baldev Raj, Jeyakumar,T., Thavasimuthu,M., ―Practical Non Destructive Testingǁ Narosa publishing house, New Delhi, 2002
2. Peter J. Shull ―Non Destructive Evaluation: Theory, Techniques and Applicationǁ Marcel Dekker,Inc., New York, 2002

Course Coordinator   IQAC Coordinator   HoD/Mech   Principal

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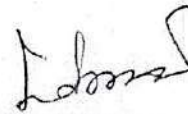TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
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Ph: 0431 – 2660 303

Willing Student list

CP-1 Coordinators: K Panneer Selvam, Prince Jerome Christopher, V. Nagarajan, K.Lakshmana babu

CP-2 Coordinators: M.Kirubakaran, L S Narendhira, E.Manikandan, S.Kumaradevan, T.Ramkumar and A.Jeyanthan

Academic Year: 2019-20

SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
1.	E1182001	Abdul Rahman. S	✓	
2.	E1182002	Adhilahamed. Y	✓	
3.	E1182003	Ahamed Rifa. A	✓	
4.	E1182004	Ajay Kishore. B	✓	
5.	E1182005	Ajay Prakash. B	✓	
6.	E1182007	Akash. S	✓	
7.	E1182008	Akash. T	✓	
8.	E1182010	Ameerdeen. S	✓	
9.	E1182011	Arun. M	✓	
10.	E1182012	Arun. N	✓	
11.	E1182013	Arun Raj. S	✓	
12.	E1182014	Ashfaq Ahamed. M	✓	
13.	E1182015	Ashok. K	✓	
14.	E1182016	Azaraf Ali. A	✓	
15.	E1182017	Bava Bagurudeen. S	✓	

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
16.	E1182019	Dawood Sherif. M	✓	
17.	E1182020	Delsin Raj. A	✓	
18.	E1182021	Duraiprasath. K	✓	
19.	E1182023	Fasith Ali. B	✓	
20.	E1182024	Fazil Ahamed. S	✓	
21.	E1182025	Guhan. J	✓	
22.	E1182026	Guhan. M	✓	
23.	E1182027	Gunalan. M	✓	
24.	E1182028	Halideen. B	✓	
25.	E1182029	Hariharan. K	✓	
26.	E1182030	Harinam. P	✓	
27.	E1182031	Imrankhan. A	✓	
28.	E1182033	Livin Kumar. B	✓	
29.	E1182034	Manjeeth. M	✓	
30.	E1182035	Manoj Kumar. M	✓	
31.	E1182036	Mathavan. P	✓	
32.	E1182037	Meera Mohamed. A	✓	
33.	E2192075	Arshath Khan. J	✓	
34.	E2192076	Balachandar. N	✓	
35.	E2192078	Cyprien Paul Clament. S		
36.	E2192080	Elamvazhuthi. S	✓	
37.	E2192081	Hariprakash. G	✓	

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
38.	E2192085	Karthick. R	✓	
39.	E2192086	Marvin. K	✓	
40.	E2192087	Mohamed Muzammil. M	✓	
41.	E2192095	Sajid Ahamed. AZ	✓	
42.	E2192096	Sakthivel. P	✓	
43.	E2192097	Sam. S	✓	
44.	E2192098	Santhosh Kumar. B	✓	
45.	E2192099	Sathish. K	✓	
46.	E2192100	Sivaprakash. T	✓	
47.	E1182038	Mohamed Absar. M	✓	
48.	E1182039	Mohamed Anas Aliyar Abdulla. A	✓	
49.	E1182040	Mohamed Ashik. S	✓	
50.	E1182041	Mohamed Azharudeen. S	✓	
51.	E1182042	Mohamed Idris. S	✓	
52.	E1182043	Mohamed Ismail. J	✓	
53.	E1182044	Mohamed Ismail. MH	✓	
54.	E1182045	Mohamed Jameel. R	✓	
55.	E1182046	Mohamed Risvan. N	✓	
56.	E1182047	Mohamed Sharief. Z	✓	
57.	E1182048	Mohamed Sharuk. Z	✓	
58.	E1182049	Mohammed Thoufik. HM	✓	
59.	E1182050	Mufeeth Ahamed. M	✓	

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
60.	E1182051	Naina Mohamed. J	✓	
61.	E1182052	Nanthakumar. K	✓	
62.	E1182053	Naveen Kumar. M	✓	
63.	E1182054	Noor Ibrahim. J	✓	
64.	E1182055	Pravinraj. R	✓	
65.	E1182056	Rajadurai. V	✓	
66.	E1182057	Riyas Mohamed. S	✓	
67.	E1182058	Santhosh. E	✓	
68.	E1182059	Sathish. M	✓	
69.	E1182060	Sathish Kumar. J	✓	
70.	E1182061	Sethuraman. K	✓	
71.	E1182062	Shanavash. A	✓	
72.	E1182063	Shanawas. S	✓	
73.	E1182064	Sheik Abdullah. K		
74.	E1182065	Sivaganesh. M	✓	
75.	E1182066	Tamil Pandiyan. P	✓	
76.	E1182067	Thanzeel Ali. H	✓	
77.	E1182068	Umar Batcha. S	✓	
78.	E1182069	Umar Faruk Hussain. J	✓	
79.	E1182070	Vasanthan. K	✓	
80.	E1182071	Vimalraj. R	✓	
81.	E1182072	Vincent Pudhumai Raj. C	✓	

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
82.	E1182073	Vishnu. R	✓	
83.	E2192074	Abinesh. S	✓	
84.	E2192077	Balamurugan. N	✓	
85.	E2192079	Dinesh Babu. D		
86.	E2192082	Harish. K	✓	
87.	E2192083	Jayakumar. S	✓	
88.	E2192084	Kalil. U	✓	
89.	E2192088	Mohamed Yaazar. A	✓	
90.	E2192089	Mohanraj. TG	✓	
91.	E2192090	Nevinraj. A	✓	
92.	E2192091	Noyel. A	✓	
93.	E2192092	Praveen. R	✓	
94.	E2192093	Ranjith. U	✓	
95.	E2192094	Rexpatrick. B	✓	
96.	E2192101	Syed Faizal. S	✓	
97.	E2192102	Vijay Kaviyarasan. V	✓	
98.	E3182103	Balaji. M	✓	
99.	T19MEC23	Suryaprakash. T		
100.	E1162001	Abdul Basith. S		✓
101.	E1162002	Abdul Rahuman Fahath. U		✓
102.	E1162003	Abdul Riyaz. J		✓
103.	E1162004	Abdullah Haja Mydeen		✓

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
104.	E1162007	Ajmal. S		✓
105.	E1162008	Akash. K		
106.	E1162009	Akash. M		✓
107.	E1162010	Akashvarma. S		✓
108.	E1162011	Antony David. T		✓
109.	E1162012	Aravindhan. E		✓
110.	E1162013	Anwar Kaleem. S		✓
111.	E1162014	Arun. A		✓
112.	E1162016	Arunkumar. M		✓
113.	E1162017	Ashik Salman. N		✓
114.	E1162018	Ashiq Basha. R		✓
115.	E1162019	Askar Hussian. A		✓
116.	E1162020	Asrar Ahamed. S		
117.	E1162021	Athief. S		✓
118.	E1162022	Azarutheen. K		✓
119.	E1162023	Babu. P		✓
120.	E1162024	Balaji. G		✓
121.	E1162025	Balakumar. P		✓
122.	E1162026	Balakumaran. M		✓
123.	E1162027	Balamurugan. Y		✓
124.	E1162028	Baseer Ahamed. A		

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
125.	E1162029	Chandra Kumar. M		✓
126.	E1162030	Chandru. M		✓
127.	E1162031	Enayathulla. R		✓
128.	E1162032	Eswaran. S		✓
129.	E1162033	Fahadaameer. R		✓
130.	E1162036	Fizal. A		✓
131.	E1162037	George Andrews. M		
132.	E1162039	Hari Haran. R		✓
133.	E1162040	Ilangeshswaran. R		✓
134.	E1162041	Jafar Sathik. M		✓
135.	E1162042	Jeevankumar. S		✓
136.	E1162043	Kajini Mohamed. N		
137.	E1162044	Kalaivendhan. G		✓
138.	E1162045	Kamaludeen. I		✓
139.	E1162046	Kamaraj. K		
140.	E1162047	Karthikeyan. D		✓
141.	E1162049	Kaviyarasan. P		✓
142.	E2172160	Gowtham. M		✓
143.	E2172161	Hari Haran. S		✓
144.	E2172162	Jaferhussian. R		✓
145.	E2172163	Jaya Eswar. S.A		✓

SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
146.	E2172168	Manikandan. M		✓
147.	E2172172	Mohamed Ajithkhan. R		✓
148.	E2172176	Mohamed Khalith. J		✓
149.	E2172177	Mohamed Mukthar. M		✓
150.	E2172190	Pavithra Kumar. S		✓
151.	E2172192	Sabarish Kumar. P		✓
152.	E2172193	Siva. S		✓
153.	E2172195	Siavanesan. M		✓
154.	E2172199	Vignesh. P		
155.	E2172200	Vijay. R		✓
156.	E3162148	Arun. K		✓
157.	E1162048	Karunamoorthy. P		✓
158.	E1162050	Mahadheer Mohamed. A		✓
159.	E1162051	Mahesh. T		✓
160.	E1162052	Mangaiyarkarasi. R		✓
161.	E1162053	Manikandan. M		✓
162.	E1162054	Manoj. C		✓
163.	E1162055	Manojkumar. S		✓
164.	E1162056	Mariselvam. K		✓
165.	E1162057	Mohamad Marjuk. A		✓
166.	E1162058	Mohamed Ali Jinna. R		✓

SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
167.	E1162059	Mohamed Anas. N		✓
168.	E1162061	Mohamed Aslam. J		✓
169.	E1162062	Mohamed Azarudeen. M		✓
170.	E1162065	Mohamed Bagath. M		✓
171.	E1162066	Mohamed Basshar. J		✓
172.	E1162067	Mohamed Bilal. S		✓
173.	E1162068	Mohamed Farhan. K		✓
174.	E1162069	Mohamed Gousi. A		✓
175.	E1162070	Mohamed Ibrahim. K		✓
176.	E1162071	Mohamed Ibrahim. S		✓
177.	E1162072	Mohamed Irfan. J		✓
178.	E1162073	Mohamed Jawahir. Y		✓
179.	E1162074	Mohamed Jifri. A		✓
180.	E1162075	Mohamed Kather Sherif. P		✓
181.	E1162076	Mohamed Muneer. P		✓
182.	E1162077	Mohamed Murshied. M.A		✓
183.	E1162078	Mohamed Reskallah. US		✓
184.	E1162079	Mohamed Riaz. S		✓
185.	E1162080	Mohamed Rifath Ali. T.A		✓
186.	E1162081	Mohamed Safeek. S		✓
187.	E1162082	Mohamed Salman. S		✓

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
188.	E1162083	Mohamed Sheik Dawood. S		✓
189.	E1162084	Mohamed Sirajudeen. M.A		✓
190.	E1162086	Mohammed Annas. M.A		
191.	E1162087	Mohammed Rashik. M		✓
192.	E1162088	Mohammed Sulthan. H		✓
193.	E1162089	Mugeshkanna. V		✓
194.	E1162090	Mugilan. M		✓
195.	E1162091	Mukilan. U		✓
196.	E1162092	Muralikrishnan. B		✓
197.	E1162093	Naga Srinivasan. R		✓
198.	E3152260	Mohamed Wasim. M		✓
199.	E2172152	Abdul Basith. J		✓
200.	E2172154	Akthar Ali. Z		✓
201.	E2172155	Augustin Pon Joshua. A		✓
202.	E2172156	Bhuvaneshwaran. K		✓
203.	E2172158	Dinesh Raj. M		✓
204.	E2172159	Gokula Priyan. A		✓
205.	E2172166	Karthikraja. K		✓
206.	E2172171	Mohamed Abdul Irfan. I		✓

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
207.	E2172174	Mohamed Azeethu. N		✓
208.	E2172175	Mohamed Azwan. M		✓
209.	E2172180	Mohamed Thariq. M		✓
210.	E2172182	Mohammed Sukar. K		✓
211.	E2172185	Mohd Asif Rahamathullah Labbai		✓
212.	E2172186	Mounika. M		✓
213.	E2172188	Muthuramalingam. M		✓
214.	E2172189	Nagarajan. S		✓
215.	E2172191	Prakash. P		✓
216.	E2172202	Yusuf Sheriff. G		✓
217.	E3152146	Naveen. D		✓
218.	E3162149	Jayasurya. R		✓
219.	E3162150	Subash. M		✓
220.	E1162094	Nantha Kumar. S		✓
221.	E1162095	Narasiman. V.S		✓
222.	E1162096	Nasirudeen. N		
223.	E1162097	Navaneethan. K.V		✓
224.	E1162098	Niyaz Ahamed. A		✓
225.	E1162099	Pagathsingh. P		✓
226.	E1162100	Pandi. M		✓

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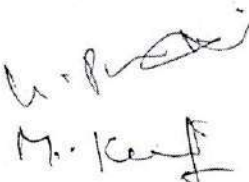GUNDUR, TIRUCHIRAPPALLI-620 007.

SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
227.	E1162101	Parthiban. R		✓
228.	E1162102	Ponkumar. M		✓
229.	E1162103	Pramoth. S		✓
230.	E1162104	Prasanth. A		✓
231.	E1162105	Prasanth (13.12.1999). K		✓
232.	E1162106	Prasanth (26.05.1999). K		✓
233.	E1162111	Rajesh. M		
234.	E1162112	Rameez Ali Raja. M		✓
235.	E1162114	Rishvanth. S		✓
236.	E1162115	Robin Mano. B		✓
237.	E1162116	Saiad Aamir Souhail. N		✓
238.	E1162117	Sam Kalwin. S		✓
239.	E1162118	Samuel. S		✓
240.	E1162123	Sheik Abdul Muthalib. N		✓
241.	E1162124	Sheik Mohaideen. I		✓
242.	E1162125	Shri Hari Shandhanu. K		✓
243.	E1162126	Sivaraman. S		✓
244.	E1162128	Sriram. S		✓
245.	E1162130	Sukumaran. R		
246.	E1162131	Sundhar. S		
247.	E1162132	Syed Ali. R		✓

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
248.	E1162133	Syed Anwar Azeez. P		✓
249.	E1162134	Syed Peer Javed. S.N		✓
250.	E1162137	Uvaisur Rahman. H		✓
251.	E1162138	Vaasim Ahamed. B.A		✓
252.	E1162139	Varnaraj. P		✓
253.	E1162140	Vaseem Rahman. A		✓
254.	E1162141	Vignesh (26.04.1998). R		✓
255.	E1162142	Vignesh (08.04.1999). R		
256.	E1162143	Vijayaraj. D		✓
257.	E1162145	Yokesh. P		✓
258.	E3152204	Ragul Raj. C		
259.	E3152205	Ranjith. S		✓
260.	E2172153	Abdul Rahim. A		✓
261.	E2172157	Deepan Chakkaravarthy. P.S		✓
262.	E2172164	Jayaraj. Y		✓
263.	E2172165	Kabilan. G		
264.	E2172167	Manigandan. B		✓
265.	E2172169	Manojkumar. M		✓
266.	E2172170	Mohamed Aathil. S		✓
267.	E2172178	Mohamed Sajid. S		✓

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
268.	E2172179	Mohamed Sharif. I		
269.	E2172181	Mohamed Yahya. M		✓
270.	E2172183	Mohanasundaram. A		✓
271.	E2172184	Mohanraj. K		✓
272.	E2172187	Muruganantham. S		
273.	E2172196	Sriram. M.S		✓
274.	E2172197	Suren. S		✓
275.	E2172198	Surieya. M		✓
276.	E3152147	Thowfeek Raja. N		
277.	E3162151	Peer Sulthan Rawther. N		✓

Course Coordinator

HoD/Mech

Principal

M.I.E.T. ENGINEERING COLLEGE

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Email: principalengg@miet.edu, contact@miet.edu
Website: - www.miet.edu

Ph: 0431 – 2660 303

Certificate Program (IV Year - VII Semester)
Course Delivery

Name of the Course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19201
Course Coordinator: Mr. M.Kirubakaran, AP/Mech, Mr. L S Narendhira, AP/Mech
Total Hours: 31 Hrs
Academic Year: 2019-20

Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Introduction to various non- destructive methods		17.06.19
2.	Comparison of Destructive and Non-destructive Tests Purpose of destructive tests		17.06.19
3.	Optical aids used for visual inspection	6	20.06.19
4.	Procedure for DPT and Penetrant testing methods		20.06.19
5.	Principles and Instrumentations of ECT		25.06.19
6.	Post – Emulsification methods		25.06.19
7.	Principle of MPT, procedure used for testing a component		28.06.19
8.	Equipment used for MPT, Magnetizing technique Applications		28.06.19
9.	Principle of Thermography, Infrared Radiometry	6	02.07.19
10.	Active thermography measurements		02.07.19
11.	Imaging entrapped water under an epoxy coating		05.07.19
12.	Detection of carbon fiber contaminants		05.07.19
13.	Principle of Radiography, x-ray and gamma ray sources- safety procedures and standards		10.07.19
14.	Effect of radiation on Film, Radiographic imaging		10.07.19
15.	Inspection Techniques – Single wall single image, Double wall Penetration	6	13.07.19
16.	Multiwall Penetration technique, Real Time Radiography - Codes, standards		13.07.19
17.	Case studies on defects in cast, rolled, extruded, welded		17.07.19

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Sl.No	Topics to be Covered	Hours	Date of Delivery
	and heat treated components		
18.	Comparison and selection of various NDT techniques		17.07.19
19.	Thermography- Principles Contactinspection methods		22.07.19
20.	Thermography- Principles and non contact inspectio methods		22.07.19
21.	Techniques for applying liquid crystals	6	25..07.19
22.	Techniques for applying liquid crystals		25..07.19
23.	infrared radiation and infrared detectors		29.07.19
24.	Instrumentations and methods, applications		29.07.19
25.	Eddy Current Testing		01.08.19
26.	Generation of eddy currents		01.08.19
27.	Properties of eddy currents,		06.08.19
28.	Eddy current sensing elements, Probes, Instrumentation	6	06.08.19
29.	Types of arrangement and Applications		09.08.19
30.	Interpretation/Evaluation of Eddy current method		09.08.19
31.	Test and Evaluation	1	19.08.19

Course Coordinator

HoD

Principal

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Website: - www.miet.edu

Ph: 0431 – 2660 303

Resource Person Details

Title of the program	Non-Destructive Testing techniques to minimize weld defects
Course Code	ME19201
Duration and timing of the program	31 Hrs, 5:15 PM to 7:15 PM
Name of the resource person	Mr. L.S.NARENDHIRA
Photo of the resource person	
Email address	l.s.narendhira@gmail.com
Contact number	9443236670
Designation	Assistant Professor
Educational qualification	➢ Completed B.E., Mechanical Engineering from Annamalai University 1994. ➢ Completed M.E Manufacture Engineering from BIT Campus 2014.
Experience	➢ Industrial experience – 24 Years. ➢ Teaching Experience – 8.3 Years.

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Resource Person Details

Title of the program	Non-Destructive Testing techniques to minimize weld defects
Course Code	ME19201
Duration and timing of the program	31 Hrs, 5:15 PM to 7:15 PM
Name of the resource person	Mr. M. KIRUBAKARAN
Photo of the resource person	
Email address	mjohnkiruba@gmail.com
Contact number	9894680062
Designation	Assistant Professor
Educational qualification	➢ Completed B.E., Mechanical Engineering from Anajalal Ammal Mahalingam Engg. College 2004. ➢ Completed M.E., Engineering Design from Government College of Tech. 2007.
Experience	➢ Industrial experience – 2 Years ➢ Teaching Experience – 8.7 Years.

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Certificate Program (IV Year – VII Semester)
Attendance Sheet

Name of the course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19201
Course Coordinators: M.Kirubakaran, AP/Mech and L S Narendhira, AP/Mech
Academic Year: 2019-20

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.	E1162001	Abdul Basith. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	E1162002	Abdul Rahuman Fahath. U	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	E1162003	Abdul Riyaz. J	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
4.	E1162004	Abdullah Haja Mydeen	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	E1162007	Ajmal. S	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
6.	E1162009	Akash. M	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
7.	E1162010	Akashvarma. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1162011	Antony David. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	E1162012	Aravindhan. E	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1162013	Anwar Kaleem. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1162014	Arun. A	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/
12.	E1162016	Arunkumar. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	E1162017	Ashik Salman. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	E1162018	Ashiq Basha. R	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
15.	E1162019	Askar Hussian. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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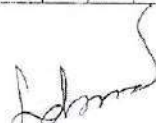
SL.NO	ROLL NO	STUDENT NAME	1 17/06	2 20/06	3 25/06	4 28/06	5 02/07	6 05/07	7 10/07	8 13/07	9 17/07	10 22/07	11 25/07	12 29/08	13 01/08	14 06/08	15 07/08	16 13/08
16.	E1162021	Athief. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1162022	Azarutheen. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	E1162023	Babu. P	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
19.	E1162024	Balaji. G	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/
20.	E1162025	Balakumar. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21.	E1162026	Balakumaran. M	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
22.	E1162027	Balamurugan. Y	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23.	E1162029	Chandra Kumar. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24.	E1162030	Chandru. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	E1162031	Enayathulla. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26.	E1162032	Eswaran. S	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
27.	E1162033	Fahadaameer. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28.	E1162036	Fizal. A	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
29.	E1162039	Hari Haran. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	E1162040	Ilangeshswaran. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31.	E1162041	Jafar Sathik. M	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
32.	E1162042	Jeevankumar. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33.	E1162044	Kalaivendhan. G	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
34.	E1162045	Kamaludeen. I	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35.	E1162047	Karthikeyan. D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36.	E1162049	Kaviyarasan. P	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/
37.	E2172160	Gowtham. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38.	E2172161	Hari Haran. S	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/

SL.NO	ROLL NO	STUDENT NAME	1 17/06	2 20/06	3 25/06	4 29/06	5 02/07	6 05/07	7 10/07	8 12/07	9 17/07	10 22/07	11 25/07	12 29/07	13 01/08	14 05/08	15 09/08	16 12/08
39.	E2172162	Jaferhussian. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40.	E2172163	Jaya Eswar. S.A	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
41.	E2172168	Manikandan. M	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
42.	E2172172	Mohamed Ajithkhan. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43.	E2172176	Mohamed Khalith. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44.	E2172177	Mohamed Mukthar. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45.	E2172190	Pavithra Kumar. S	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
46.	E2172192	Sabarish Kumar. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47.	E2172193	Siva. S	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
48.	E2172195	Siavanesan. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49.	E2172200	Vijay. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50.	E3162148	Arun. K	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
51.	E1162048	Karunamoorthy. P	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
52.	E1162050	Mahadheer Mohamed. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
53.	E1162051	Mahesh. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		Total No Students Presents	50	50	43	50	45	50	50	49	50	50	50	47	50	1 50	50	50
		Total No Students Absent	3	3	7	3	5	3	3	4	3	3	3	3	3	9	3	3
		Signature Course Coordinator	Niy	Niy	Niy	Niy	Niy	Niy	Niy	Niy	Niy	Niy	Niy	Niy	Niy	Niy	Niy	Niy

M. Ka...
Course Coordinator

HoD

Principal

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Certificate Program Assessment Test

Name of the course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19202

Date: 19.08.19

Academic Year: 2019-12

Time: 01:00 hrs

Answer All the Questions (5*2=10)
PART-A

1. Write the physical principle of liquid penetration test.
2. Draw any two eddy current testing probes.
3. Define the term Emissivity.
4. What is film ionization?
5. What is the function of Image Quality Indicator?

Answer All the Questions (4*10=40)

PART – B

6. Explain the Instrumentation of acoustic emission.

7. Explain the various equipment's used for MPT.

8. Explain the Liquid penetration Method.

9. Explain various modes of display of ultrasonic testing.

Course Coordinator

HoD/Mech

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One Page Report

Name of the course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19201
Course Coordinator: M.Kirubakaran, AP/Mech and L S Narendhira, AP/Mech
Total Hours: 31 Hrs   Academic Year: 2019-20120

We hereby affirm that the entire course contents in the certificate program "Non-Destructive Testing techniques to minimize weld defects" listed in the certificate program syllabus have been performed by the students as the part of the prescribed co – curricular activities through add on course by NAAC and NBA.

We confirmed that the certificate program title as "Non-Destructive Testing techniques to minimize weld defects" was done by me in the beginning of the semester and course delivery with attendance of the students were recorded.

We confirmed that all the students for this add on course were actively attended and performed well throughout the duration and eligible students received the participation certificate.

Course Coordinator   HoD/Mech   Principal

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M.I.E.T. ENGINEERING COLLEGE

Trichy, Pudukkottai Road, Trichy - 620 007.

MIET INSTITUTIONS Since 1984

Course Completion Certificate

This is to Certify that Mr/Ms. Fizal. A

of final Year Mechanical Engg has Completed the Course on Non-Destructive Testing Technique To Minimize Weld Defects from 17/06/2015 to 14/08/2015

Course Coordinator

Hod

Principal

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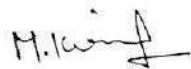GUNDUR, TIRUCHIRAPPALLI-620 007.

M.I.E.T. ENGINEERING COLLEGE

Trichy, Pudukkottai Road, Trichy - 620 007.

Course Completion Certificate

This is to Certify that Mr/Ms. _Ajmal S_

of _Final Year Mechanical Engg_ has Completed the Course on

Non-Destructive Testing from _19/06/2019_ to _15/08/2019_

Techniques To Minimise Weld Defects

Course Coordinator

Hod

Principal

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Certificate Program (IV Year - VII Semester)

Course Delivery

Name of the Course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19201
Course Coordinator: Mr. D.Manikandan, AP/Mech, Mr. S.Kumaradevan, AP/Mech
Total Hours: 31Hrs
Academic Year: 2019-20

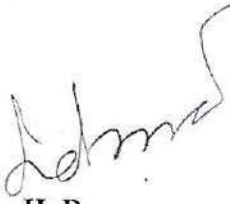| Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Introduction to various non- destructive methods	6	18.06.19
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8.	Equipment used for MPT, Magnetizing technique Applications		29.06.19
9.	Principle of Thermography, Infrared Radiometry		03.07.19
10.	Active thermography measurements		03.07.19
11.	Imaging entrapped water under an epoxy coating		08.07.19
12.	Detection of carbon fiber contaminants		08.07.19
13.	Principle of Radiography, x-ray and gamma ray sources- safety procedures and standards	6	11.07.19
14.	Effect of radiation on Film, Radiographic imaging		11.07.19
15.	Inspection Techniques – Single wall single image, Double wall Penetration		15.07.19
16.	Multiwall Penetration technique, Real Time Radiography - Codes, standards		15.07.19
17.	Case studies on defects in cast, rolled, extruded, welded		18.07.19

PRINCIPAL
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GUNDUR, TIRUCHIRAPPALLI-620 007.

Sl.No	Topics to be Covered	Hours	Date of Delivery
	and heat treated components		
18.	Comparison and selection of various NDT techniques		18.07.19
19.	Thermography- Principles Contact inspection methods		23.07.19
20.	Thermography- Principles and non contact inspection methods		23.07.19
21.	Techniques for applying liquid crystals	6	26.07.19
22.	Techniques for applying liquid crystals		26.07.19
23.	infrared radiation and infrared detectors		30.07.19
24.	Instrumentations and methods, applications		30.07.19
25.	Eddy Current Testing		02.08.19
26.	Generation of eddy currents		02.08.19
27.	Properties of eddy currents,		07.08.19
28.	Eddy current sensing elements, Probes, Instrumentation	6	07.08.19
29.	Types of arrangement and Applications		13.08.19
30.	Interpretation/Evaluation of Eddy current method		13.08.19
31.	Test and Evaluation	1	20.08.19

Course Coordinator

HoD

Principal

M.I.E.T. ENGINEERING COLLEGE

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Website: - www.miet.edu

Ph: 0431 – 2660 303

Resource Person Details

Title of the program	Non-Destructive Testing techniques to minimize weld defects
Course Code	ME19201
Duration and timing of the program	31 Hrs, 4:45 PM to 6:45 PM
Name of the resource person	Mr. D. MANIKANDAN
Photo of the resource person	
Email address	mechmani1809@gmail.com
Contact number	9750043235
Designation	Assistant Professor
Educational qualification	➤ Completed B.E., Mechanical Engineering from Shanmuganathan Engg.College - 2008. ➤ Completed M.E., Manufacturing Engineering from Mookambigai college of Engg. - 2015.
Experience	➤ Industrial experience – 00 Years ➤ Teaching Experience – 5.6 Years.

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Ph: 0431 – 2660 303

Resource Person Details

Title of the program	Non-Destructive Testing techniques to minimize weld defects
Course Code	ME19201
Duration and timing of the program	31 Hrs, 4:45 PM to 6:45 PM
Name of the resource person	Mr. S. KUMARADEVAN
Photo of the resource person	
Email address	kumar_mek@yahoo.co.in
Contact number	9786377689
Designation	Assistant Professor
Educational qualification	➢ Completed B.E., Mechanical Engineering from Govt.College Of Engg 2008. ➢ Completed M.E., Engineering Design Govt.College Of Tech. 2011.
Experience	➢ Industrial experience – 00 Years. ➢ Teaching Experience – 10.4 Years.

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Website: www.miet.edu

Ph: 0431 – 2660 303

Certificate Program (IV Year – VII Semester)
Attendance Sheet

Name of the course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19201
Course Coordinators: D.Manikandan, AP/Mech and S.Kumaradevan, AP/Mech
Academic Year: 2019-20

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.	E1162052	Mangaiyarkarasi. R	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/
2.	E1162053	Manikandan. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	E1162054	Manoj. C	/	a	/	/	/	/	a	/	/	/	/	/	/	/	a	/
4.	E1162055	Manojkumar. S	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/
5.	E1162056	Mariselvam. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	E1162057	Mohamad Marjuk. A	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/
7.	E1162058	Mohamed Ali Jinna. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1162059	Mohamed Anas. N	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/
9.	E1162061	Mohamed Aslam. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1162062	Mohamed Azarudeen. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1162065	Mohamed Bagath. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			18/06	01/06	25/06	29/06	03/07	08/07	11/07	15/07	18/07	23/07	25/07	30/07	02/08	07/08	13/08	20/08
12.	E1162066	Mohamed Basshar. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	E1162067	Mohamed Bilal. S	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/
14.	E1162068	Mohamed Farhan. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	E1162069	Mohamed Gousi. A	/	/	/	/	/.	/	a	/	/	/	/	/	/	/	/	/
16.	E1162070	Mohamed Ibrahim. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1162071	Mohamed Ibrahim. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	E1162072	Mohamed Irfan. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19.	E1162073	Mohamed Jawahir. Y	/	a	/	/	/	/	/	/	/	/	/	/	/	/	.	/
20.	E1162074	Mohamed Jifri. A	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/
21.	E1162075	Mohamed Kather Sherif. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	E1162076	Mohamed Muneer. P	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/
23.	E1162077	Mohamed Murshied. M.A	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/
24.	E1162078	Mohamed Reskallah. US	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	E1162079	Mohamed Riaz. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26.	E1162080	Mohamed Rifath Ali. T.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27.	E1162081	Mohamed Safeek. S	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
28.	E1162082	Mohamed Salman. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29.	E1162083	Mohamed Sheik Dawood. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	E1162084	Mohamed Sirajudeen. M.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			18/6	9/6	20/6	27/6	28/7	03/07	1/07	15/7	18/7	23/7	26/7	26/7	30/02	07/8	3/8	20/8
31.	E1162087	Mohammed Rashik. M	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/
32.	E1162088	Mohammed Sulthan. H	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33.	E1162089	Mugeshkanna. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34.	E1162090	Mugilan. M	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
35.	E1162091	Mukilan. U	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36.	E1162092	Muralikrishnan. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37.	E1162093	Naga Srinivasan. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38.	E3152260	Mohamed Wasim. M	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/
39.	E2172152	Abdul Basith. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40.	E2172154	Akthar Ali. Z	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41.	E2172155	Augustin Pon Joshua. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42.	E2172156	Bhuvaneshwaran. K	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
43.	E2172158	Dinesh Raj. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44.	E2172159	Gokula Priyan. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45.	E2172166	Karthikraja. K	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/
46.	E2172171	Mohamed Abdul Irfan. I	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/
47.	E2172174	Mohamed Azeethu. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48.	E2172175	Mohamed Azwan. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49.	E2172180	Mohamed Thariq. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			18/6	9/6	26/6	29/6	05/7	08/7	11/7	15/7	18/7	23/7	26/7	30/7	2/0	7/8	13/8	20/8
50.	E2172182	Mohammed Sukar. K	/	/	/	/	/	/	α	/	/	/	/	/	/	/	/	/
51.	E2172185	Mohd Asif Rahamathullah Labbai	/	/	/	/	α	/	/	/	/	/	/	/	/	/	/	/
52.	E2172186	Mounika. M	/	/	/	/	/	/	/	/	/	/	/	/	α	/	/	/
		Total No Students Presents	49	44	49	49	44	49	42	44	49	49	49	49	49	49	48	49
		Total No Students Absent	3	5	3	3	8	3	7	5	3	3	3	3	9	3	4	3
		Signature Course Coordinator																

D. M
Course Coordinator

HoD

Principal

M.I.E.T. ENGINEERING COLLEGE

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Ph: 0431 – 2660 303

Certificate Program Assessment Test

Name of the course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19202
Academic Year: 2015-16

Date: 20.08.19
Time: 01:00 hrs

Answer All the Questions (5*2=10)
PART-A

1. Write the physical principle of liquid penetration test.
2. Draw any two eddy current testing probes.
3. Define the term Emissivity.
4. What is film ionization?
5. What is the function of Image Quality Indicator?

Answer All the Questions (4*10=40)

PART – B

6. Explain the Instrumentation of acoustic emission.

7. Explain the various equipment's used for MPT.

8. Explain the Liquid penetration Method.

9. Explain various modes of display of ultrasonic testing.

Course Coordinator   HoD/Mech   Principal

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Website: - www.miet.edu

Ph: 0431 – 2660 303

One Page Report

Name of the course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19201
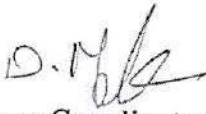Course Coordinator: D.Manikandan, AP/Mech and S.Kumaradevan, AP/Mech
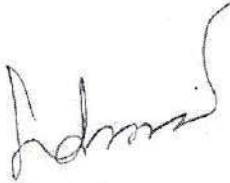Total Hours: 31 Hrs   Academic Year: 2019-20120

We hereby affirm that the entire course contents in the certificate program "Non-Destructive Testing techniques to minimize weld defects" listed in the certificate program syllabus have been performed by the students as the part of the prescribed co – curricular activities through certificate program by NAAC and NBA.

We confirmed that the value added course title as "Non-Destructive Testing techniques to minimize weld defects" was done by me in the beginning of the semester and course delivery with attendance of the students were recorded.

We confirmed that all the students for this add on course were actively attended and performed well throughout the duration and eligible students received the participation certificate.

Course Coordinator   HoD/Mech   Principal

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M.I.E.T. ENGINEERING COLLEGE

Trichy, Pudukkottai Road, Trichy - 620 007.

MIET INSTITUTIONS Since 1984

Course Completion Certificate

This is to Certify that Mr/Ms. _MUKILAN U_

of _FINAL YEAR MECHANICAL ENGG_ has Completed the Course on
Non-TESTRUCTIVE TESTING TECHNIQUE
TO MINIMIZE WELD DEFECTS from _18/04/15_ to _20/04/15_

Course Coordinator   Hod   Principal

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Trichy, Pudukkottai Road, Trichy - 620 007.

MIET
INSTITUTIONS
Since 1984

Course Completion Certificate

This is to Certify that Mr/Ms. __MOUNIKA M__

of __FINAL YEAR MECHANICAL ENGG__ has Completed the Course on

__Non-TESTRUCTIVE TESTING TECHNIQUE__
__TO MINIMIZE THE WELD DEPP__ from __18/06/15__ to __20/8/15__

D.N
Course Coordinator

Hod

Principal

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Ph: 0431 – 2660 303

Certificate Program (IV Year – VII Semester)

Course Delivery

Name of the Course: Non-Destructive Testing techniques to minimize weld defects

Course Code: ME19201

Course Coordinator: Mr. T.Ramkumar, AP/Mech, Mr. A.Jeyanthan, AP/Mech

Total Hours: 31 Hrs

Academic Year: 2019-20

Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Introduction to various non- destructive methods		19.06.19
2.	Comparison of Destructive and Non destructive Tests Purpose of destructive tests		19.06.19
3.	Optical aids used for visual inspection	6	24.06.19
4.	Procedure for DPT and Penetrant testing methods		24.06.19
5.	Principles and Instrumentations of ECT		27.06.19
6.	Post – Emulsification methods		27.06.19
7.	Principle of MPT, procedure used for testing a component		01.07.19
8.	Equipment used for MPT, Magnetizing technique Applications		01.07.19
9.	Principle of Thermography, Infrared Radiometry	6	04.07.19
10.	Active thermography measurements		04.07.19
11.	Imaging entrapped water under an epoxy coating		09.07.19
12.	Detection of carbon fiber contaminants		09.07.19
13.	Principle of Radiography, x-ray and gamma ray sources- safety procedures and standards		12.07.19
14.	Effect of radiation on Film, Radiographic imaging		12.07.19
15.	Inspection Techniques – Single wall single image, Double wall Penetration	6	16.07.19
16.	Multiwall Penetration technique, Real Time Radiography - Codes, standards		16.07.19
17.	Case studies on defects in cast, rolled, extruded,		19.07.19

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Sl.No	Topics to be Covered	Hours	Date of Delivery
	welded and heat treated components		
18.	Comparison and selection of various NDT techniques		19.07.19
19.	Thermography- Principles Contact inspection methods		24.07.19
20.	Thermography- Principles and non contact inspection methods		24.07.19
21.	Techniques for applying liquid crystals	6	27..07.19
22.	Techniques for applying liquid crystals		27..07.19
23.	infrared radiation and infrared detectors		31.07.19
24.	Instrumentations and methods, applications		31.07.19
25.	Eddy Current Testing		05.08.19
26.	Generation of eddy currents		05.08.19
27.	Properties of eddy currents,		08.08.19
28.	Eddy current sensing elements, Probes, Instrumentation	6	08.08.19
29.	Types of arrangement and Applications		14.08.19
30.	Interpretation/Evaluation of Eddy current method		14.08.19
31.	Test and Evaluation	1	21.08.19

Course Coordinator   HoD   Principal

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Ph: 0431 – 2660 303

Resource Person Details

Title of the program	Non-Destructive Testing techniques to minimize weld defects
Course Code	ME19201
Duration and timing of the program	31 Hrs, 4:45 PM to 6:45 PM
Name of the resource person	Mr. T. RAMKUMAR
Photo of the resource person	
Email address	tramkumar260374@gmail.com
Contact number	9715034412
Designation	Assistant Professor
Educational qualification	➢ Completed B.Tech., Mechanical SASTRA - 2005. ➢ Completed M.E., Manufacturing Engineering from M.I.E.T - 2010.
Experience	➢ Industrial experience – 3.3 Years ➢ Teaching Experience – 10.3 Years.

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Website: www.miet.edu

Ph: 0431 – 2660 303

Resource Person Details

Title of the program	Non-Destructive Testing techniques to minimize weld defects
Course Code	ME19201
Duration and timing of the program	31 Hrs, 4:45 PM to 6:45 PM
Name of the resource person	Mr. A. JEYANTHAN
Photo of the resource person	
Email address	jeyanthan.a@miet.edu
Contact number	8056529796
Designation	Assistant Professor
Educational qualification	➤ Completed B.E., Production Engineering from J.J. College of engineering and technology 2011. ➤ Completed M.E., Thermal Engineering from University College of Engineering - 2017.
Experience	➤ Industrial experience – 1.2 Years. ➤ Teaching Experience – 5.3 Years.

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M.I.E.T. ENGINEERING COLLEGE

Certificate Program (IV Year – VII Semester)
Attendance Sheet

Name of the course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19201
Course Coordinators: T.Ramkumar, AP/Mech and A.Jeyanthan, AP/Mech
Academic Year: 2019-20

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			n/06	24/6	2/06	d/7	A/7	a/7	12/7	16/7	19/7	24/7	27/7	3/7	05/8	08/8	14/8	21/08
1.	E1162094	Nantha Kumar. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓
2.	E1162095	Narasiman. V.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	E1162097	Navaneethan. K.V	✓	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.	E1162098	Niyaz Ahamed. A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.	E1162099	Pagathsingh. P	✓	✓	✓	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.	E1162100	Pandi. M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	E1162101	Parthiban. R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓
8.	E1162102	Ponkumar. M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.	E1162103	Pramoth. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10.	E1162104	Prasanth. A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11.	E1162105	Prasanth (13.12.1999). K	✓	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓
12.	E1162106	Prasanth (26.05.1999). K	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓

1

PRINCIPAL
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GUNDUR, TIRUCHIRAPPALLI-620 007.

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			19/6	21/6	27/6	2/7	4/7	9/7	12/7	16/7	19/7	24/7	27/7	31/7	5/8	8/8	14/8	20/8
13.	E1162112	Rameez Ali Raja. M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14.	E1162114	Rishvanth. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓
15.	E1162115	Robin Mano. B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16.	E1162116	Saiad Aamir Souhail. N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17.	E1162117	Sam Kalwin. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18.	E1162118	Samuel. S	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
19.	E1162123	Sheik Abdul Muthalib. N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20.	E1162124	Sheik Mohaideen. I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21.	E1162125	Shri Hari Shandhanu. K	✓	✓	✓	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
22.	E1162126	Sivaraman. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	✓
23.	E1162128	Sriram. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24.	E1162132	Syed Ali. R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25.	E1162133	Syed Anwar Azeez. P	✓	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26.	E1162134	Syed Peer Javed. S.N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓
27.	E1162137	Uvaisur Rahman. H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
28.	E1162138	Vaasim Ahamed. B.A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
29.	E1162139	Varnaraj. P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30.	E1162140	Vaseem Rahman. A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
31.	E1162141	Vignesh (26.04.1998). R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
32.	E1162143	Vijayaraj. D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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PRINCIPAL
M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPPALLI-620 007.

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			19/6	24/6	27/6	0/7	4/7	9/7	12/7	16/7	19/7	24/7	27/7	31/7	5/0	0/8	14/8	21/8
33.	E1162145	Yokesh. P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
34.	E3152205	Ranjith. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
35.	E2172153	Abdul Rahim. A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
36.	E2172157	Deepan Chakkaravarthy. P.S	✓	✓	α	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
37.	E2172164	Jayaraj. Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
38.	E2172167	Manigandan. B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
39.	E2172169	Manojkumar. M	✓	✓	✓	✓	✓	✓	α	✓	✓	✓	✓	✓	✓	✓	✓	✓
40.	E2172170	Mohamed Aathil. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
41.	E2172178	Mohamed Sajid. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
42.	E2172181	Mohamed Yahya. M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
43.	E2172183	Mohanasundaram. A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
44.	E2172184	Mohanraj. K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
45.	E2172196	Sriram. M.S	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
46.	E2172197	Suren. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
47.	E2172198	Surieya. M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
48.	E3162151	Peer Sulthan Rawther. N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	α	✓	✓	✓	✓	✓
49.	E2172188	Muthuramalingam. M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
50.	E2172189	Nagarajan. S	✓	✓	α	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
51.	E2172191	Prakash. P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
52.	E2172202	Yusuf Sheriff. G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			19/6	24/6	27/6	2/7	4/7	9/7	12/7	16/7	19/7	24/7	27/7	31/7	5/8	8/8	14/8	21/8
53.	E3152146	Naveen. D	/	/	a	/	/	/	/	(	/	/	/	/	/	/	/	/
54.	E3162149	Jayasurya. R	/	(	/	/	/	/	(	/	/	(	/	/	/	/	/	/
55.	E3162150	Subash. M	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
		Total No Students Presents	52	52	47	52	50	52	50	52	52	52	45	51	52	52	51	52
		Total No Students Absent	3	3	8	3	5	3	5	3	3	3	7	4	3	3	4	3
		Signature Course Coordinator																

Course Coordinator

HoD

Principal

M.I.E.T. ENGINEERING COLLEGE

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TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: - www.miet.edu

Ph: 0431 – 2660 303

Certificate Program Assessment Test

Name of the course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19202
Academic Year: 2015-16

Date: 21.08.19
Time: 01:00 hrs

Answer All the Questions (5*2=10)
PART-A

1. Write the physical principle of liquid penetration test.
2. Draw any two eddy current testing probes.
3. Define the term Emissivity.
4. What is film ionization?
5. What is the function of Image Quality Indicator?

Answer All the Questions (4*10=40)

PART – B

6. Explain the Instrumentation of acoustic emission.
7. Explain the various equipment's used for MPT.
8. Explain the Liquid penetration Method.
9. Explain various modes of display of ultrasonic testing.

Course Coordinator   HoD/Mech   Principal

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One Page Report

Name of the course: Non-Destructive Testing techniques to minimize weld defects
Course Code: ME19201
Course Coordinator: T.Ramkumar, AP/Mech and A.Jeyanthan, AP/Mech
Total Hours: 31 Hrs   Academic Year: 2019-20120

We hereby affirm that the entire course contents in the certificate program "Non-Destructive Testing techniques to minimize weld defects" listed in the add on course syllabus have been performed by the students as the part of the prescribed co – curricular activities through add on course by NAAC and NBA.

We confirmed that the value added course title as "Non-Destructive Testing techniques to minimize weld defects" was done by me in the beginning of the semester and course delivery with attendance of the students were recorded.

We confirmed that all the students for this add on course were actively attended and performed well throughout the duration and eligible students received the participation certificate.

Course Coordinator   HoD/Mech   Principal

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M.I.E.T. ENGINEERING COLLEGE
Trichy, Pudukkottai Road, Trichy - 620 007.

MIET INSTITUTIONS Since 1984

Course Completion Certificate

This is to Certify that Mr/Ms. **Ranjith S**

of **FINAL YEAR MECHANICAL ENGG** has Completed the Course on

NON-DESTRUCTIVE TESTING TECHNIQUE TO MINIMIZE WELD DEFECTS from **19/6/2019** to **21/8/19**

Course Coordinator   Hod   Principal

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M.I.E.T. ENGINEERING COLLEGE

Trichy, Pudukkottai Road, Trichy - 620 007.

MIET INSTITUTIONS Since 1984

Course Completion Certificate

This is to Certify that Mr/Ms. Mohamed Sajid.s

of Final Year Mechanical Engineering as Completed the Course on
Non-Destructive Testing Technique
to MINIMIZE WELD DEFECTS from 4/6/19 to 21/8/2019

Course Coordinator

Hod

Principal

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Website: - www.miet.edu

Ph: 0431 – 2660 303

Date: 09.12.2019

To

The Principal

M.I.E.T Engineering College,

Trichy – 620007

Respected Sir,

Sub: Permission to conduct Certificate Program – Reg.

We have planned to conduct the Certificate Program for our second year students of

Mechanical Engineering after the class hours (from 23.12.2019 to 18.02.2020)

Name of the certificate program	Course Coordinator
Modeling of an engine assembly by using FUSION 360	K Panneer Selvam, .J.Prince Jerome Christopher, V. Nagarajan, K.Lakshmana babu

So kindly give us permission to conduct the course and to utilize the CAD/CAM

laboratory after class hours (05:15 P.M. to 07:15 P.M).

Thanking you

Course Coordinator   HoD/Mech   Principal

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Website: - www.miet.edu

Ph: 0431 – 2660 303

CIRCULAR

Date: 17.12.2019

Sub: Certificate Program

It is planned to conduct the Certificate Program for the Second year Mechanical Engineering students after the class hours.

The Certificate Program are short term certificate courses which are designed and offered by our department for the benefit of our students. Certificate Program will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their name to the course coordinator.

Name of the Certificate Program	Course Coordinators
Modeling of an engine assembly by using FUSION 360	K Panneer Selvam, .J.Prince Jerome Christopher, V. Nagarajan, K.Lakshmana babu
Commencement of course from 23.12.2019 to 18.02.2020 Time: 05.15 PM to 07.15 PM	

Course Coordinator   IQAC Coordinator   HoD/Mech   Principal

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M.I.E.T ENGINEERING COLLEGE, TRICHY – 7.
DEPARTMENT OF MECHANICALENGINEERING
Certificate Program (II Year – IV Semester)
Course Syllabus

Name of the course: Modeling of an engine assembly by using FUSION 360

Course Code: ME19202

Course Coordinators: K Panneer Selvam, AP/Mech and J. Prince Jerome Christopher, AP/Mech

Total Hours: 30 Hrs   Academic Year: 2019-20

Objective

- To familiarize the students in 3Dmodeling ,Assembly , Generating drawings and CAM by using AutoDesk Fusion 360 software

Unit I – Introduction to part modeling   6

Basics of Fusion 360, Introduction to sketching and 2D constraints, Introduction to 3D modeling.

Unit II – Geometry of Modeling   6

Aesthetic design and solid modeling in Fusion 360, Create, Modify and Fine tune organic forms using t-splines, Create a form based on a reference image, Create solid model from a sketch Create solid model from sculpted body

Unit III – Part Modeling Engine parts   6

Create part model of Cylinder Head, Engine Block, Piston, Cylinder, Cylinder head Cover and Engine Gasket

Unit IV – Assembly modeling of Engine Parts   6

Assembly model of Cylinder Head, Engine Block, Piston, Cylinder, Cylinder head Cover and Engine Gasket

Unit V – Detail of Part and Assembly Modeling   6

Development of Bill of Materials, Section, Detailed drawing of Cylinder Head, Engine Block, Piston, Cylinder, Cylinder head Cover and Engine Gasket and Number of parts

Course Outcome

The students will be able to

1. Navigate through the user interface of Autodesk Fusion 360
2. Understand design process in Autodesk Fusion 360
3. Collaborate with other members of the project and manage the data in the cloud
4. Create drawings and renderings
5. Use CAM module to setup 2.5-axis milling of a part

References:

1. Gopalakrishna K.R., Machine Drawing, Subhas Stores Books Corner, Bangalore, 2013
2. Junnarkar, N.D., Machine Drawing, 1st Edition, Pearson Education, 2004
3. Autodesk Fusion 360, Manual.

Course Coordinator   IQAC Coordinator   HoD/Mech   Principal

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Ph: 0431 – 2660 303

Willing Student list
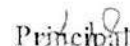
CP-1 Coordinators: K Panneer Selvam, Prince Jerome Christopher, V. Nagarajan, K.Lakshmana babu

CP-2 Coordinators: M.Kirubakaran, L S Narendhira, E.Manikandan, S.Kumaradevan, T.Ramkumar and A.Jeyanthan

Academic Year: 2019-20

SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
1.	E1182001	Abdul Rahman. S	✓	
2.	E1182002	Adhilahamed. Y	✓	
3.	E1182003	Ahamed Rifa. A	✓	
4.	E1182004	Ajay Kishore. B	✓	
5.	E1182005	Ajay Prakash. B	✓	
6.	E1182007	Akash. S	✓	
7.	E1182008	Akash. T	✓	
8.	E1182010	Ameerdeen. S	✓	
9.	E1182011	Arun. M	✓	
10.	E1182012	Arun. N	✓	
11.	E1182013	Arun Raj. S	✓	
12.	E1182014	Ashfaq Ahamed. M	✓	
13.	E1182015	Ashok. K	✓	
14.	E1182016	Azaraf Ali. A	✓	
15.	E1182017	Bava Bagurudeen. S	✓	

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
16.	E1182019	Dawood Sherif. M	✓	
17.	E1182020	Delsin Raj. A	✓	
18.	E1182021	Duraiprasath. K	✓	
19.	E1182023	Fasith Ali. B	✓	
20.	E1182024	Fazil Ahamed. S	✓	
21.	E1182025	Guhan. J	✓	
22.	E1182026	Guhan. M	✓	
23.	E1182027	Gunalan. M	✓	
24.	E1182028	Halideen. B	✓	
25.	E1182029	Hariharan. K	✓	
26.	E1182030	Harinam. P	✓	
27.	E1182031	Imrankhan. A	✓	
28.	E1182033	Livin Kumar. B	✓	
29.	E1182034	Manjeeth. M	✓	
30.	E1182035	Manoj Kumar. M	✓	
31.	E1182036	Mathavan. P	✓	
32.	E1182037	Meera Mohamed. A	✓	
33.	E2192075	Arshath Khan. J	✓	
34.	E2192076	Balachandar. N	✓	
35.	E2192078	Cyprien Paul Clament. S		
36.	E2192080	Elamvazhuthi. S	✓	
37.	E2192081	Hariprakash. G	✓	

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
38.	E2192085	Karthick. R	✓	
39.	E2192086	Marvin. K	✓	
40.	E2192087	Mohamed Muzammil. M	✓	
41.	E2192095	Sajid Ahamed. AZ	✓	
42.	E2192096	Sakthivel. P	✓	
43.	E2192097	Sam. S	✓	
44.	E2192098	Santhosh Kumar. B	✓	
45.	E2192099	Sathish. K	✓	
46.	E2192100	Sivaprakash. T	✓	
47.	E1182038	Mohamed Absar. M	✓	
48.	E1182039	Mohamed Anas Aliyar Abdulla. A	✓	
49.	E1182040	Mohamed Ashik. S	✓	
50.	E1182041	Mohamed Azharudeen. S	✓	
51.	E1182042	Mohamed Idris. S	✓	
52.	E1182043	Mohamed Ismail. J	✓	
53.	E1182044	Mohamed Ismail. MH	✓	
54.	E1182045	Mohamed Jameel. R	✓	
55.	E1182046	Mohamed Risvan. N	✓	
56.	E1182047	Mohamed Sharief. Z	✓	
57.	E1182048	Mohamed Sharuk. Z	✓	
58.	E1182049	Mohammed Thoufik. HM	✓	
59.	E1182050	Mufeeth Ahamed. M	✓	

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
60.	E1182051	Naina Mohamed. J	✓	
61.	E1182052	Nanthakumar. K	✓	
62.	E1182053	Naveen Kumar. M	✓	
63.	E1182054	Noor Ibrahim. J	✓	
64.	E1182055	Pravinraj. R	✓	
65.	E1182056	Rajadurai. V	✓	
66.	E1182057	Riyas Mohamed. S	✓	
67.	E1182058	Santhosh. E	✓	
68.	E1182059	Sathish. M	✓	
69.	E1182060	Sathish Kumar. J	✓	
70.	E1182061	Sethuraman. K	✓	
71.	E1182062	Shanavash. A	✓	
72.	E1182063	Shanawas. S	✓	
73.	E1182064	Sheik Abdullah. K		
74.	E1182065	Sivaganesh. M	✓	
75.	E1182066	Tamil Pandiyan. P	✓	
76.	E1182067	Thanzeel Ali. H	✓	
77.	E1182068	Umar Batcha. S	✓	
78.	E1182069	Umar Faruk Hussain. J	✓	
79.	E1182070	Vasanthan. K	✓	
80.	E1182071	Vimalraj. R	✓	
81.	E1182072	Vincent Pudhumai Raj. C	✓	

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
82.	E1182073	Vishnu. R	✓	
83.	E2192074	Abinesh. S	✓	
84.	E2192077	Balamurugan. N	✓	
85.	E2192079	Dinesh Babu. D		
86.	E2192082	Harish. K	✓	
87.	E2192083	Jayakumar. S	✓	
88.	E2192084	Kalil. U	✓	
89.	E2192088	Mohamed Yaazar. A	✓	
90.	E2192089	Mohanraj. TG	✓	
91.	E2192090	Nevinraj. A	✓	
92.	E2192091	Noyel. A	✓	
93.	E2192092	Praveen. R	✓	
94.	E2192093	Ranjith. U	✓	
95.	E2192094	Rexpatrick. B	✓	
96.	E2192101	Syed Faizal. S	✓	
97.	E2192102	Vijay Kaviyarasan. V	✓	
98.	E3182103	Balaji. M	✓	
99.	T19MEC23	Suryaprakash. T		
100.	E1162001	Abdul Basith. S		✓
101.	E1162002	Abdul Rahuman Fahath. U		✓
102.	E1162003	Abdul Riyaz. J		✓
103.	E1162004	Abdullah Haja Mydeen		✓

SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
104.	E1162007	Ajmal. S		✓
105.	E1162008	Akash. K		
106.	E1162009	Akash. M		✓
107.	E1162010	Akashvarma. S		✓
108.	E1162011	Antony David. T		✓
109.	E1162012	Aravindhan. E		✓
110.	E1162013	Anwar Kaleem. S		✓
111.	E1162014	Arun. A		✓
112.	E1162016	Arunkumar. M		✓
113.	E1162017	Ashik Salman. N		✓
114.	E1162018	Ashiq Basha. R		✓
115.	E1162019	Askar Hussian. A		✓
116.	E1162020	Asrar Ahamed. S		
117.	E1162021	Athief. S		✓
118.	E1162022	Azarutheen. K		✓
119.	E1162023	Babu. P		✓
120.	E1162024	Balaji. G		✓
121.	E1162025	Balakumar. P		✓
122.	E1162026	Balakumaran. M		✓
123.	E1162027	Balamurugan. Y		✓
124.	E1162028	Baseer Ahamed. A		

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
125.	E1162029	Chandra Kumar. M		✓
126.	E1162030	Chandru. M		✓
127.	E1162031	Enayathulla. R		✓
128.	E1162032	Eswaran. S		✓
129.	E1162033	Fahadaameer. R		✓
130.	E1162036	Fizal. A		✓
131.	E1162037	George Andrews. M		
132.	E1162039	Hari Haran. R		✓
133.	E1162040	Ilangeshswaran. R		✓
134.	E1162041	Jafar Sathik. M		✓
135.	E1162042	Jeevankumar. S		✓
136.	E1162043	Kajini Mohamed. N		
137.	E1162044	Kalaivendhan. G		✓
138.	E1162045	Kamaludeen. I		✓
139.	E1162046	Kamaraj. K		
140.	E1162047	Karthikeyan. D		✓
141.	E1162049	Kaviyarasan. P		✓
142.	E2172160	Gowtham. M		✓
143.	E2172161	Hari Haran. S		✓
144.	E2172162	Jaferhussian. R		✓
145.	E2172163	Jaya Eswar. S.A		✓

SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
146.	E2172168	Manikandan. M		✓
147.	E2172172	Mohamed Ajithkhan. R		✓
148.	E2172176	Mohamed Khalith. J		✓
149.	E2172177	Mohamed Mukthar. M		✓
150.	E2172190	Pavithra Kumar. S		✓
151.	E2172192	Sabarish Kumar. P		✓
152.	E2172193	Siva. S		✓
153.	E2172195	Siavanesan. M		✓
154.	E2172199	Vignesh. P		
155.	E2172200	Vijay. R		✓
156.	E3162148	Arun. K		✓
157.	E1162048	Karunamoorthy. P		✓
158.	E1162050	Mahadheer Mohamed. A		✓
159.	E1162051	Mahesh. T		✓
160.	E1162052	Mangaiyarkarasi. R		✓
161.	E1162053	Manikandan. M		✓
162.	E1162054	Manoj. C		✓
163.	E1162055	Manojkumar. S		✓
164.	E1162056	Mariselvam. K		✓
165.	E1162057	Mohamad Marjuk. A		✓
166.	E1162058	Mohamed Ali Jinna. R		✓

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
167.	E1162059	Mohamed Anas. N		✓
168.	E1162061	Mohamed Aslam. J		✓
169.	E1162062	Mohamed Azarudeen. M		✓
170.	E1162065	Mohamed Bagath. M		✓
171.	E1162066	Mohamed Basshar. J		✓
172.	E1162067	Mohamed Bilal. S		✓
173.	E1162068	Mohamed Farhan. K		✓
174.	E1162069	Mohamed Gousi. A		✓
175.	E1162070	Mohamed Ibrahim. K		✓
176.	E1162071	Mohamed Ibrahim. S		✓
177.	E1162072	Mohamed Irfan. J		✓
178.	E1162073	Mohamed Jawahir. Y		✓
179.	E1162074	Mohamed Jifri. A		✓
180.	E1162075	Mohamed Kather Sherif. P		✓
181.	E1162076	Mohamed Muneer. P		✓
182.	E1162077	Mohamed Murshied. M.A		✓
183.	E1162078	Mohamed Reskallah. US		✓
184.	E1162079	Mohamed Riaz. S		✓
185.	E1162080	Mohamed Rifath Ali. T.A		✓
186.	E1162081	Mohamed Safeek. S		✓
187.	E1162082	Mohamed Salman. S		✓

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
188.	E1162083	Mohamed Sheik Dawood. S		✓
189.	E1162084	Mohamed Sirajudeen. M.A		✓
190.	E1162086	Mohammed Annas. M.A		
191.	E1162087	Mohammed Rashik. M		✓
192.	E1162088	Mohammed Sulthan. H		✓
193.	E1162089	Mugeshkanna. V		✓
194.	E1162090	Mugilan. M		✓
195.	E1162091	Mukilan. U		✓
196.	E1162092	Muralikrishnan. B		✓
197.	E1162093	Naga Srinivasan. R		✓
198.	E3152260	Mohamed Wasim. M		✓
199.	E2172152	Abdul Basith. J		✓
200.	E2172154	Akthar Ali. Z		✓
201.	E2172155	Augustin Pon Joshua. A		✓
202.	E2172156	Bhuvaneshwaran. K		✓
203.	E2172158	Dinesh Raj. M		✓
204.	E2172159	Gokula Priyan. A		✓
205.	E2172166	Karthikraja. K		✓
206.	E2172171	Mohamed Abdul Irfan. I		✓

SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
207.	E2172174	Mohamed Azeethu. N		✓
208.	E2172175	Mohamed Azwan. M		✓
209.	E2172180	Mohamed Thariq. M		✓
210.	E2172182	Mohammed Sukar. K		✓
211.	E2172185	Mohd Asif Rahamathullah Labbai		✓
212.	E2172186	Mounika. M		✓
213.	E2172188	Muthuramalingam. M		✓
214.	E2172189	Nagarajan. S		✓
215.	E2172191	Prakash. P		✓
216.	E2172202	Yusuf Sheriff. G		✓
217.	E3152146	Naveen. D		✓
218.	E3162149	Jayasurya. R		✓
219.	E3162150	Subash. M		✓
220.	E1162094	Nantha Kumar. S		✓
221.	E1162095	Narasiman. V.S		✓
222.	E1162096	Nasirudeen. N	.	
223.	E1162097	Navaneethan. K.V		✓
224.	E1162098	Niyaz Ahamed. A		✓
225.	E1162099	Pagathsingh. P		✓
226.	E1162100	Pandi. M		✓

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
227.	E1162101	Parthiban. R		✓
228.	E1162102	Ponkumar. M		✓
229.	E1162103	Pramoth. S		✓
230.	E1162104	Prasanth. A		✓
231.	E1162105	Prasanth (13.12.1999). K		✓
232.	E1162106	Prasanth (26.05.1999). K		✓
233.	E1162111	Rajesh. M		
234.	E1162112	Rameez Ali Raja. M		✓
235.	E1162114	Rishvanth. S		✓
236.	E1162115	Robin Mano. B		✓
237.	E1162116	Saiad Aamir Souhail. N		✓
238.	E1162117	Sam Kalwin. S		✓
239.	E1162118	Samuel. S		✓
240.	E1162123	Sheik Abdul Muthalib. N		✓
241.	E1162124	Sheik Mohaideen. I		✓
242.	E1162125	Shri Hari Shandhanu. K		✓
243.	E1162126	Sivaraman. S		✓
244.	E1162128	Sriram. S		✓
245.	E1162130	Sukumaran. R		
246.	E1162131	Sundhar. S		
247.	E1162132	Syed Ali. R		✓

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
248.	E1162133	Syed Anwar Azeez. P		✓
249.	E1162134	Syed Peer Javed. S.N		✓
250.	E1162137	Uvaisur Rahman. H		✓
251.	E1162138	Vaasim Ahamed. B.A		✓
252.	E1162139	Varnaraj. P		✓
253.	E1162140	Vaseem Rahman. A		✓
254.	E1162141	Vignesh (26.04.1998). R		✓
255.	E1162142	Vignesh (08.04.1999). R		
256.	E1162143	Vijayaraj. D		✓
257.	E1162145	Yokesh. P		✓
258.	E3152204	Ragul Raj. C		
259.	E3152205	Ranjith. S		✓
260.	E2172153	Abdul Rahim. A		✓
261.	E2172157	Deepan Chakkaravarthy. P.S		✓
262.	E2172164	Jayaraj. Y		✓
263.	E2172165	Kabilan. G		
264.	E2172167	Manigandan. B		✓
265.	E2172169	Manojkumar. M		✓
266.	E2172170	Mohamed Aathil. S		✓
267.	E2172178	Mohamed Sajid. S		✓

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SL.NO	ROLL NO	STUDENT NAME	CP-1: Modeling of an engine assembly by using FUSION 360	CP-2:Non-Destructive Testing techniques to minimize weld defects
268.	E2172179	Mohamed Sharif. I		
269.	E2172181	Mohamed Yahya. M		✓
270.	E2172183	Mohanasundaram. A		✓
271.	E2172184	Mohanraj. K		✓
272.	E2172187	Muruganantham. S		
273.	E2172196	Sriram. M.S		✓
274.	E2172197	Suren. S		✓
275.	E2172198	Surieya. M		✓
276.	E3152147	Thowfeek Raja. N		
277.	E3162151	Peer Sulthan Rawther. N		✓

Course Coordinator

HoD/Mech

Principal

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TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: - www.miet.edu

PH: 0431 – 2660 303

Certificate Program (II Year – IV Semester)

Course Delivery

Name of the Course: Modeling of an engine assembly by using FUSION 360
Course Code:ME19202
Course Coordinator: K Panneer Selvam, AP/Mech and J. Prince Jerome Christopher, AP/Mech
Total Hours: 31Hrs
Academic Year: 2019-20

Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Basics of Fusion 360 and other modeling software's		23.12.19
2.	Introduction to sketching by Fusion 360		23.12.19
3.	2D constraints and Sketching	6	26.12.19
4.	2D constraints and Sketching		26.12.19
5.	3D modeling		28.12.19
6.	3D modeling.		28.12.19
7.	Aesthetic design and solid modeling in Fusion360		04.01.20
8.	Modify and Fine tune t-splines		04.01.20
9.	Create a form based on a reference image	6	07.01.20
10.	Create solid model from a sketch		07.01.20
11.	Create solid model from sculpted body		09.01.20
12.	Create solid model from sculpted body		09.01.20
13.	Create part model of Cylinder Head		11.01.20
14.	Create part model of Cylinder Head		11.01.20
15.	Create part model of Engine Block	6	20.01.20
16.	Create part model of Engine Block		20.01.20
17.	Create part model of Piston, Cylinder		25.01.20
18.	Create part model of Cylinder head Cover and Engine Gasket		25.01.20
19.	Create assembly model of Cylinder Head	6	28.01.20

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Sl.No	Topics to be Covered	Hours	Date of Delivery
20.	Create assembly model of Cylinder Head		28.01.20
21.	Create assembly model of Engine Block		30.01.20
22.	Create assembly model of Engine Block		30.01.20
23.	Create assembly model of Piston, Cylinder		03.02.20
24.	Create assembly model of Cylinder head Cover and Engine Gasket		03.02.20
25.	Development of Bill of Materials for Engine parts		05.02.20
26.	Develop detailed drawing of cylinder head		05.02.20
27.	Develop detailed drawing of Engine Block		11.02.20
28.	Develop detailed drawing of Piston, Cylinder	6	11.02.20
29.	Develop detailed drawing of Cylinder head Cover and Engine Gasket		13.02.20
30.	Assigning Part numbers for Engine Parts		13.02.20
31.	Test and Evaluation	1	17.02.20

Course Coordinator

HoD

Principal

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Email: principalengg@miet.edu, contact@miet.edu
Website: - www.miet.edu

Ph: 0431 – 2660 303

Resource Person Details

Title of the program	Modeling of an engine assembly by using Fusion 360°
Course Code	ME19202
Duration and timing of the program	31 Hrs, 5:15 PM to 7:15 PM
Name of the resource person	Mr. K. PANNEER SELVAM
Photo of the resource person	
Email address	kpselvam@miet.edu
Contact number	7667525777
Designation	Assistant Professor
Educational qualification	➢ Completed B.E., Mechanical Engineering, Kurinji College of Engg And Tech. – 2006. ➢ Completed M.E., Engineering Design from Kongu Engineering College - 2008.
Experience	➢ Industrial experience – 00 Years ➢ Teaching Experience – 10.5 Years.

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Website: www.miet.edu

Ph: 0431 – 2660 303

Resource Person Details

Title of the program	Modeling of an engine assembly by using Fusion 360°
Course Code	ME19202
Duration and timing of the program	31 Hrs, 5:15 PM to 7:15 PM
Name of the resource person	Mr. J. Prince jerome christopher
Photo of the resource person	
Email address	pjcmech@gmail.com
Contact number	9952846516
Designation	Assistant Professor
Educational qualification	➢ Completed B.E., Mechanical Engineering from PSNA College of Engg and Tech. - 2012. ➢ Completed M.E., CAD/CAM from J.J. College of Engi and Tech. - 2012.
Experience	➢ Industrial experience – 00 Years. ➢ Teaching Experience – 6.2 Years.

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Ph: 0431 – 2660 303

Certificate Program (II Year – IV Semester)
Attendance Sheet

Name of the course: Modeling of an engine assembly by using FUSION 360
Course Code: ME19202
Course Coordinators: K Panneer Selvam, AP/Mech and J. Prince Jerome Christopher, AP/Mech
Academic Year: 2019-20

SL.NO	ROLL NO	STUDENT NAME	1 23/12	2 24/12	3 28/12	4 04/01	5 05/01	6 09/01	7 11/6	8 20/1	9 7/1	10 28/1	11 30/1	12 3/2	13 5/2	14 11/2	15 13/2	16 13/2
1.	E1182001	Abdul Rahman. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	E1182002	Adhilahamed. Y	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	E1182003	Ahamed Rifa. A	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
4.	E1182004	Ajay Kishore. B	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	E1182005	Ajay Prakash. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	E1182007	Akash. S	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/
7.	E1182008	Akash. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1182010	Ameerdeen. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	E1182011	Arun. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1182012	Arun. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1182013	Arun Raj. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	E1182014	Ashfaq Ahamed. M	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	E1182015	Ashok. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	E1182016	Azaraf Ali. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	E1182017	Bava Bagurudeen. S	/	/	/	/	/	/	/	/	/	7	7	/	/	/	/	/

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SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
16.	E1182019	Dawood Sherif. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1182020	Delsin Raj. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	E1182021	Duraiprasath. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19.	E1182023	Fasith Ali. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	E1182024	Fazil Ahamed. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21.	E1182025	Guhan. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	E1182026	Guhan. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23.	E1182027	Gunalan. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24.	E1182028	Halideen. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	E1182029	Hariharan. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26.	E1182030	Harinam. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27.	E1182031	Imrankhan. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28.	E1182033	Livin Kumar. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29.	E1182034	Manjeeth. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	E1182035	Manoj Kumar. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31.	E1182036	Mathavan. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32.	E1182037	Meera Mohamed. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33.	E2192075	Arshath Khan. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34.	E2192076	Balachandar. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35.	E2192078	Cyprien Paul Clament. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36.	E2192080	Elamvazhuthi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37.	E2192081	Hariprakash. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38.	E2192085	Karthick. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			²/₁₂	²/₁₂	²/₁₂	⁰/₁₀	⁰/₁₀	⁰⁵/₁₀	⁷/₁₀	²⁹/₁	25¹¹	28¹¹	30¹¹	3/2	5/2	11/2	12/2	12/2
39.	E2192086	Marvin. K	/	/	/	/	/	/	/	/	/	/	/	/	/	(	/	a
40.	E2192087	Mohamed Muzammil. M	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
41.	E2192095	Sajid Ahamed. AZ	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/
42.	E2192096	Sakthivel. P	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/
43.	E2192097	Sam. S	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
44.	E2192098	Santhosh Kumar. B	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/
45.	E2192099	Sathish. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46.	E2192100	Sivaprakash. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		Total No Students Presents	44	45	44	44	45	45	45	45	44	44	44	44	45	44	45	44
		Total No Students Absent	2	1	2	2	1	1	1	1	2	2	2	2	1	2	1	2
		Signature Course Coordinator	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ

Course Coordinator   HoD   Principal

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Website: - www.miet.edu

Ph: 0431 – 2660 303

Certificate Program Assessment Test

Name of the course: Modeling of an engine assembly by using FUSION 360
Course Code: ME19202
Academic Year: 2019-20

Date: 17.02.20
Time: 01:00 hrs

Answer All the Questions (5*2=10)
PART-A

1. Define the different modules used in Inventor Software.
2. What is sculpted body?
3. Give comments on Extrude modeling.
4. Define about assembly modeling of in Inventor 2016.
5. Differentiate Polar and Cartesian coordinate.

Answer All the Questions (2*20=40)
PART – B

6. Create the Part model of Piston as per the given dimension.

7. Create the Part model of Cylinder head cover as per the given dimension.

Course Coordinator   HoD/Mech   Principal

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Website: - www.miet.edu

Ph: 0431 – 2660 303

One Page Report

Name of the Course: Modeling of an engine assembly by using FUSION 360
Course Code: ME19202
Course Coordinator: K Panneer Selvam, AP/Mech and J. Prince Jerome Christopher, AP/Mech
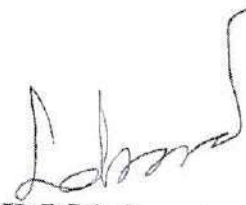Total Hours: 31 Hrs   Academic Year: 2019-20120

We hereby affirm that the entire course contents in the certificate program "Modeling of an engine assembly by using FUSION 360" listed in the certificate program syllabus have been performed by the students as the part of the prescribed co – curricular activities through certificate program by NAAC and NBA.

We confirmed that the certificate program title as "Modeling of an engine assembly by using FUSION 360" was done by me in the beginning of the semester and course delivery with attendance of the students were recorded.

We confirmed that all the students for this certificate program were actively attended and performed well throughout the duration and eligible students received the participation certificate.

Course Coordinator   HoD/Mech   Principal

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M.I.E.T. ENGINEERING COLLEGE
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M.I.E.T. ENGINEERING COLLEGE

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Course Completion Certificate

This is to Certify that Mr/Ms. AMEERDEEN. S

of II YEAR - MECHANICAL has Completed the Course on
MODELING OF AN ENGINE
ASSEMBLY BY USING FUSION 360 from 23|12|19 to 17|02|20

Course Coordinator

Hod

Principal

M.I.E.T. ENGINEERING COLLEGE

Trichy, Pudukkottai Road, Trichy - 620 007.

Course Completion Certificate

MIET INSTITUTIONS Since 1994

This is to Certify that Mr/Ms. __ASHOK . K__

of __II YEAR - MECHANICAL__ has Completed the Course on
__MODELING OF AN ENGINE__
__ASSEMBLY BY USING FUSION 360__ from __23/12/19__ to __17/02/20__

Course Coordinator   Hod   Principal

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Ph: 0431 – 2660 303

Certificate Program (II Year – IV Semester)

Course Delivery

Name of the Course: Modeling of an engine assembly by using FUSION 360
Course Code: ME19202
Course Coordinator: V. Nagarajan, AP/Mech and K.Lakshmanababu, ASP/Mech
Total Hours: 31 Hrs
Academic Year: 2019-20

Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Basics of Fusion 360 and other modeling software's		24.12.19
2.	Introduction to sketching by Fusion 360		24.12.19
3.	2D constraints and Sketching	6	27.12.19
4.	2D constraints and Sketching		27.12.19
5.	3D modeling		03.01.19
6.	3D modeling.		03.01.19
7.	Aesthetic design and solid modeling in Fusion360		06.01.20
8.	Modify and Fine tune t-splines		06.01.20
9.	Create a form based on a reference image	6	08.01.20
10.	Create solid model from a sketch		08.01.20
11.	Create solid model from sculpted body		10.01.20
12.	Create solid model from sculpted body		10.01.20
13.	Create part model of Cylinder Head		13.01.20
14.	Create part model of Cylinder Head		13.01.20
15.	Create part model of Engine Block	6	21.01.20
16.	Create part model of Engine Block		21.01.20
17.	Create part model of Piston, Cylinder		27.01.20
18.	Create part model of Cylinder head Cover and Engin Gasket		27.01.20
19.	Create assembly model of Cylinder Head	6	29.01.20

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Page 84 of 94

Sl.No	Topics to be Covered	Hours	Date of Delivery
20.	Create assembly model of Cylinder Head		29.01.20
21.	Create assembly model of Engine Block		31.01.20
22.	Create assembly model of Engine Block		31.01.20
23.	Create assembly model of Piston, Cylinder		04.02.20
24.	Create assembly model of Cylinder head Cover an Engine Gasket		04.02.20
25.	Development of Bill of Materials for Engine parts		06.02.20
26.	Develop detailed drawing of cylinder head		06.02.20
27.	Develop detailed drawing of Engine Block		12.02.20
28.	Develop detailed drawing of Piston, Cylinder	6	12.02.20
29.	Develop detailed drawing of Cylinder head Cover an Engine Gasket		14.02.20
30.	Assigning Part numbers for Engine Parts		14.02.20
31.	Test and Evaluation	1	18.02.20

Course Coordinator

HoD

Principal

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Resource Person Details

Title of the program	Modeling of an engine assembly by using Fusion 360°
Course Code	ME19202
Duration and timing of the program	31 Hrs, 4:45 PM to 6:45 PM
Name of the resource person	Mr. V. NAGARAJAN
Photo of the resource person	
Email address	nagarajan.21892@gmail.com
Contact number	7502825520
Designation	Assistant Professor
Educational qualification	➤ Completed B.E., Mechanical Engineering from Oxford Engineering College– 2014. ➤ Completed M.E., Manufacturing Engineering from ST Joseph's College Of Engineering- 2017.
Experience	➤ Industrial experience – 00 Years ➤ Teaching Experience – 1.9 Years.

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Website: - www.miet.edu

Ph: 0431 – 2660 303

Resource Person Details

Title of the program	Modeling of an engine assembly by using Fusion 360°
Course Code	ME19202
Duration and timing of the program	31 Hrs, 4:45 PM to 6:45 PM
Name of the resource person	Mr. K. LAKSHMANA BABU
Photo of the resource person	
Email address	profklb@gmail.com
Contact number	9788974735
Designation	Associate Professor
Educational qualification	➤ Completed B.E., Mechanical Engineering from Alagappachettiar Government College of Engi and Tech. - 1987. ➤ Completed M.TECH., Others-Energy Engineering from NIT - 2003.
Experience	➤ Industrial experience – 7.10 Years. ➤ Teaching Experience – 24 Years.

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Certificate Program (II Year – IV Semester)
Attendance Sheet

Name of the course: Modeling of an engine assembly by using FUSION 360
Course Code: ME19202
Course Coordinators: V. Nagarajan, AP/Mech and K.Lakshmanababu, ASP/Mech
Academic Year: 2019-20

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			24/12	20/12	3/1	6/1	8/1	10/1	13/1	24/1	20/1	29/1	31/1	4/2	6/2	12/2	4/2	8/2
1.	E1182038	Mohamed Absar. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	E1182039	Mohamed Anas Aliyar Abdulla. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	E1182040	Mohamed Ashik. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	E1182041	Mohamed Azharudeen. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	E1182042	Mohamed Idris. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	E1182043	Mohamed Ismail. J	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
7.	E1182044	Mohamed Ismail. MH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1182045	Mohamed Jameel. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	E1182046	Mohamed Risvan. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1182047	Mohamed Sharief. Z	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1182048	Mohamed Sharuk. Z	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	E1182049	Mohammed Thoufik. HM	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	E1182050	Mufeeth Ahamed. M	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
14.	E1182051	Naina Mohamed. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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SL.NO	ROLL NO	STUDENT NAME	1 24/12	2 27/12	3 3/1	4 6/1	5 8/1	6 10/1	7 13/1	8 21/1	9 27/1	10 29/1	11 31/1	12 4/2	13 6/2	14 12/2	15 14/2	16 18/2
15.	E1182052	Nanthakumar. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	E1182053	Naveen Kumar. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1182054	Noor Ibrahim. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	E1182055	Pravinraj. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19.	E1182056	Rajadurai. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	E1182057	Riyas Mohamed. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21.	E1182058	Santhosh. E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	E1182059	Sathish. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23.	E1182060	Sathish Kumar. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24.	E1182061	Sethuraman. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	E1182062	Shanavash. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26.	E1182063	Shanawas. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27.	E1182065	Sivaganesh. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28.	E1182066	Tamil Pandiyan. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29.	E1182067	Thanzeel Ali. H	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	E1182068	Umar Batcha. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31.	E1182069	Umar Faruk Hussain. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32.	E1182070	Vasanthan. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33.	E1182071	Vimalraj. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34.	E1182072	Vincent Pudhumai Raj. C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35.	E1182073	Vishnu. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL.NO	ROLL NO	STUDENT NAME	1 24/12	2 27/12	3 3/1	4 6/1	5 8/1	6 10/1	7 13/1	8 24/1	9 23/1	10 29/1	11 3/1	12 4/2	13 6/2	14 12/2	15 19/2	16 18/2
36.	E2192074	Abinesh. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
37.	E2192077	Balamurugan. N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	✓	✓
38.	E2192082	Harish. K	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
39.	E2192083	Jayakumar. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a
40.	E2192084	Kalil. U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
41.	E2192088	Mohamed Yaazar. A	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
42.	E2192089	Mohanraj. TG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓
43.	E2192090	Nevinraj. A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
44.	E2192091	Noyel. A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
45.	E2192092	Praveen. R	✓	✓	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
46.	E2192093	Ranjith. U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	✓	✓
47.	E2192094	Rexpatrick. B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
48.	E2192101	Syed Faizal. S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
49.	E2192102	Vijay Kaviyarasan. V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
50.	E3182103	Balaji. M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Total No Students Presents	48	47	48	47	48	47	48	48	48	48	47	48	48	46	48	47
		Total No Students Absent	2	3	2	3	2	3	2	2	2	3	2	2	4	2	3	
		Signature Course Coordinator																

Course Coordinator   HoD   Principal

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Ph: 0431 – 2660 303

Certificate Program Assessment Test

Name of the course: Modeling of an engine assembly by using FUSION 360
Course Code: ME19202
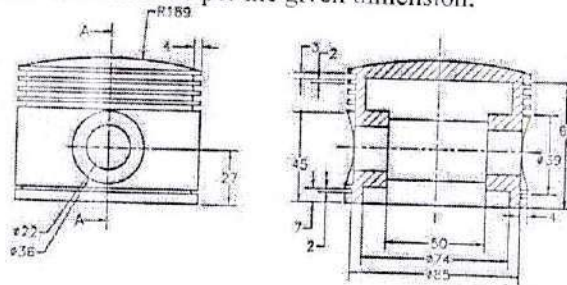Academic Year: 2019-20

Date: 18.02.20
Time: 01:00 hrs

Answer All the Questions (5*2=10)

PART-A

1. Define the different modules used in Inventor Software.
2. What is sculpted body?
3. Give comments on Extrude modeling.
4. Define about assembly modeling of in Inventor 2016.
5. Differentiate Polar and Cartesian coordinate.

Answer All the Questions (2*20=40)

PART – B

6. Create the Part model of Piston as per the given dimension.

7. Create the Part model of Cylinder head cover as per the given dimension.

Course Coordinator

HoD/Mech

Principal

M.I.E.T. ENGINEERING COLLEGE

One Page Report

Name of the Course: Modeling of an engine assembly by using FUSION 360
Course Code: ME19202
Course Coordinator: V. Nagarajan, AP/Mech and K.Lakshmanababu, ASP/Mech
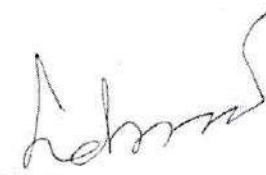Total Hours: 31 Hrs

Academic Year: 2019-20120

We hereby affirm that the entire course contents in the certificate program "Modeling of an engine assembly by using FUSION 360" listed in the certificate program syllabus have been performed by the students as the part of the prescribed co – curricular activities through certificate program by NAAC and NBA.

We confirmed that the certificate program title as "Modeling of an engine assembly by using FUSION 360" was done by me in the beginning of the semester and course delivery with attendance of the students were recorded.

We confirmed that all the students for this add on course were actively attended and performed well throughout the duration and eligible students received the participation certificate.

Course Coordinator

HoD/Mech

Principal

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Course Completion Certificate

This is to Certify that Mr/Ms. _VISHNU·R_

of _II YEAR - MECHANICAL_ has Completed the Course on
MODELING OF ENGINE ASSEMBLE BY USING FUSION 360 from _24/12/19_ to _18/02/20_

Course Coordinator

Hod

Principal

M.I.E.T. ENGINEERING COLLEGE

Trichy, Pudukkottai Road, Trichy - 620 007.

Course Completion Certificate

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This is to Certify that Mr/Ms. _NAINA MOHAMED-J_

of _II YEAR - MECHANICAL_ has Completed the Course on

MODELING OF AN ENGINE ASSEMBLE BY USING FUSION 360 from _24|12|19_ to _18|02|20_

Course Coordinator

Hod

Principal

PRINCIPAL
M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPPALLI-620 007.