



# Indra Ganesan

## COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

# NAAC DOCUMENTS

## QUALITY INDICATOR FRAME WORK

### CRITERION – 2

## TEACHING-LEARNING AND EVALUATION

SUBMITTED BY

# IQAC

INTERNAL QUALITY ASSURANCE CELL  
INDRA GANESAN COLLEGE OF ENGINEERING





<b>Criteria 2</b>	<b>Teaching-Learning and Evaluation</b>	<b>350</b>
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## Key Indicator- 2.3. Teaching- Learning Process (40)

**2018-2019**

# **MECHANICAL ENGINEERING PROBLEM SOLVING**

<b>Activity</b>	<b>Number of Students Attended</b>	<b>Page No</b>
<b>Tutorial</b>	<b>39</b>	<b>3</b>
<b>TOTAL STUDENTS ATTENDED</b>	<b>39</b>	



**Indra Ganesan**  
**COLLEGE OF ENGINEERING**  
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012  
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NAAC Accredited, 2(0) Status Institution by UGC



Criteria 2	Teaching-Learning and Evaluation	350
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**Key Indicator- 2.3. Teaching- Learning Process (40)**

**2018-2019**

**MECHANICAL ENGINEERING**  
**PROBLEM SOLVING**  
**TUTORIAL**



**INDRA GANESAN COLLEGE OF ENGINEERING**  
**IG VALLEY, MANIDANDAM, TIRUCHIRAPPALLI – 620 012**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**ACADEMIC YEAR 2018 – 2019 (EVEN SEMESTER)**

**STUDENT NAME**

**YEAR/SEM: II/IV**

S.NO	REG NO	STUDENT NAME
1	811217114001	S.Abdul Yasin
2	811217114002	R.Ajithkumar
3	811217114003	S.Anandha Kumar
4	811217114004	M.Ananth
5	811217114005	R.Chellaiah
6	811217114006	C.Devarajan
7	811217114007	S.Dhamotharan
8	811217114008	A.Dhanussh
9	811217114009	C.Dharanidharan
10	811217114010	N.Dharman
11	811217114013	M.Hariharasudhan
12	811217114014	A.Jawagar
13	811217114015	Karthick S
14	811217114016	D.Madhan
15	811217114018	M.Mohammed Faizal
16	811217114019	S.Mohanraj
17	811217114020	R.Munishwaran
18	811217114021	P.Murugan
19	811217114022	P.Ponnar
20	811217114023	M.Prakash
21	811217114025	M.Rajamuni
22	811217114026	La.Ramanathan
23	811217114027	G.Sairam
24	811217114028	R.Sankaralingam

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

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

25	811217114030	M.Selvakumar
26	811217114031	A.Shameer
27	811217114032	D.Sivakumar
28	811217114033	A.Sriram
29	811217114034	S.Thirumurugan
30	811217114035	A.Vengatesh
31	811217114036	M.Venkatesh
32	811217114037	P.Vinayagamoorthy
33	811217114038	B.Vinothraja
34	811217114039	D.Yugesh
35	811217114301	K.Arun
36	811217114302	K.Santhosh Kumar
37	811217114303	R.Thirumoorthi
38	811217114012	R.Hariharan
39	811217114029	C.Sarathkumar

  
STAFF IN CHARGE

  
Hd/MECH

  
PRINCIPAL

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

**INDRA GANESAN COLLEGE OF ENGINEERING**  
 IG Valley, Manikandam, Tiruchirappalli, Tamil Nadu – 620 012, India  
 (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

**DEPARTMENT MECHANICAL ENGINEERING**

**Tutorial Answer Sheet**

Name of the Student : *Ajith kumar. d*

AU Register Number: *811217114002*

Tutorial - 01		Date of Issue: <i>18.12.18</i>	Marks	<i>10</i>
Course code	<i>ME8493</i>	Course Title	<i>Thermal Engineering - I</i>	
Year	<i>II</i>	Semester/Section	<i>III</i>	Date of Submission: <i>20.12.18</i>

Q.No	Questions	CO
<i>1</i>	<i>A diesel engine operating on air standard diesel cycle has 20cm bore and 80 cm stroke, the clearance volume is 420 cm<sup>3</sup>. if the fuel is injected at 8% of the stroke. Find the air standard efficiency</i>	<i>C215.1</i>

**Mark Allocation**

Rubrics	Marks Allocated	Marks obtained
Problem solving approach	<i>6</i>	<i>5</i>
Correctness of Answer	<i>2</i>	<i>1</i>
Timely submission	<i>2</i>	<i>2</i>
Total marks	<i>10</i>	<i>8</i>

*D. Babu*  
 Name and Signature of the Faculty Incharge

*P. R.*  
 HoD/Mech

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