



# NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

T. M. Palayam, Coimbatore-641 105

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Accredited by NAAC, Recognized by UGC with Section 2(f) and 12(B)

NBA Accredited Department: AERONAUTICAL, CSE, MECHANICAL



## 6.5.1 SIGNIFICANT CONTRIBUTIONS OF IQAC

S.No.	Description
6.5.1.1	Outcome Based Education
6.5.1.2	Mentor-Mentee



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## OUTCOME BASED EDUCATION

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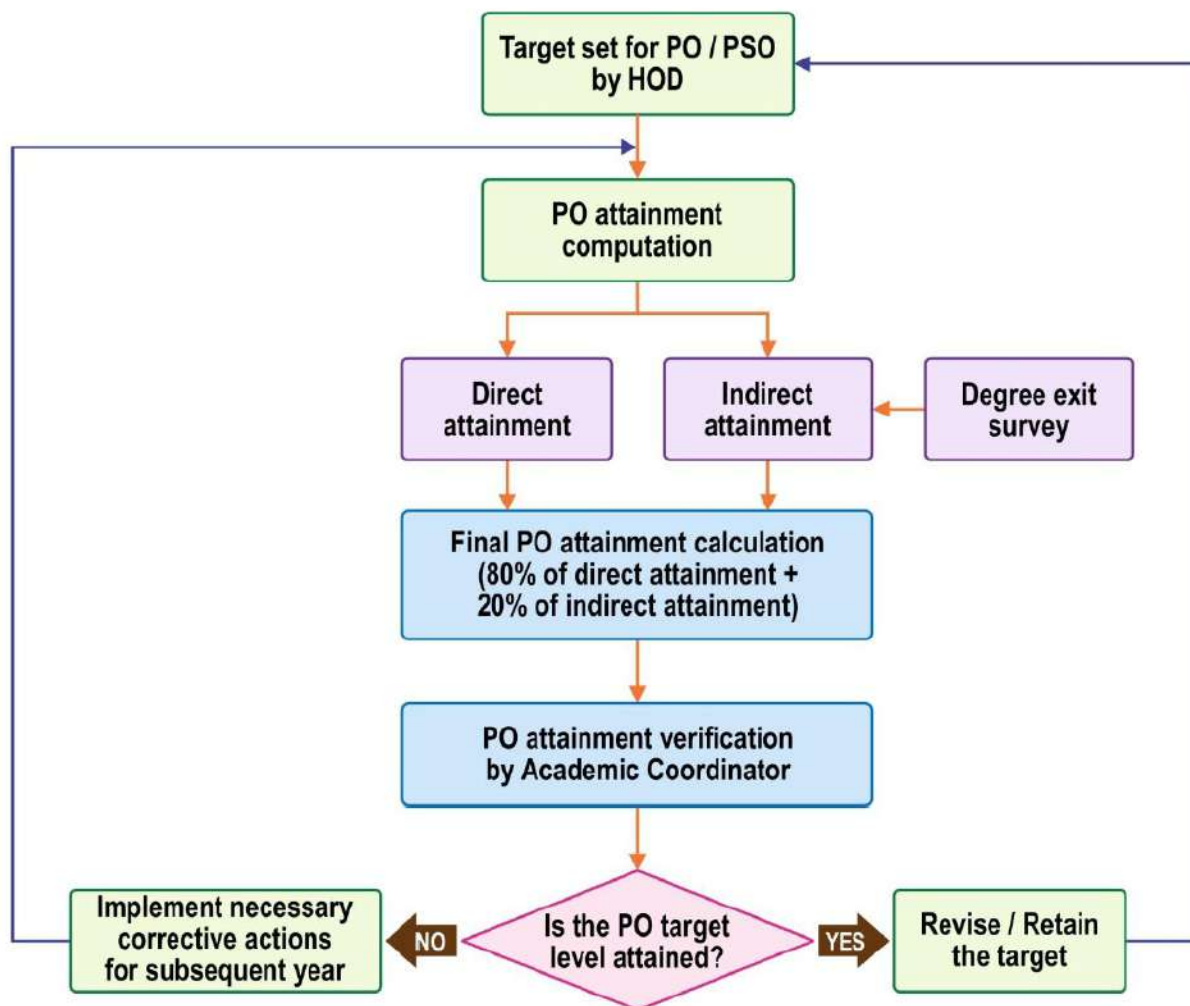
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### Attainment of Program Outcomes and Program Specific Outcomes

**Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes**

The process for calculating the PO/PSO attainment is as given in the figure as mentioned below



Process flow diagram for PO/PSO Attainment calculation

***A. Process involved in setting the course target:***

- For the first time the Department Advisory Committee (DAC) fixes PO/PSO attainment target based on the Program's past experience and performance which is fixed at minimal level.
- In the subsequent year, the actual attainment of Pos and PSOs of the previous year is fixed as the target. If the previous year's estimated target is hugely higher, the DAC as an exception carries out a downward revision of PO/PSO target.
- Wherever the attainment is falling short but closer to the first year's target, the target is retained. However it needs to be supported by an action plan to achieve the target in the subsequent year.
- In subsequent years the attainment target for Pos and PSOs are to be revised upward or can be retained at the same level.
- The target can be revised downward if there is a change in the curriculum and its impact is significant in attaining the Pos/PSOs.
- The targets determined by the DAC is reviewed and approved by the HOD.

***B. List of Assessment tools and Processes***

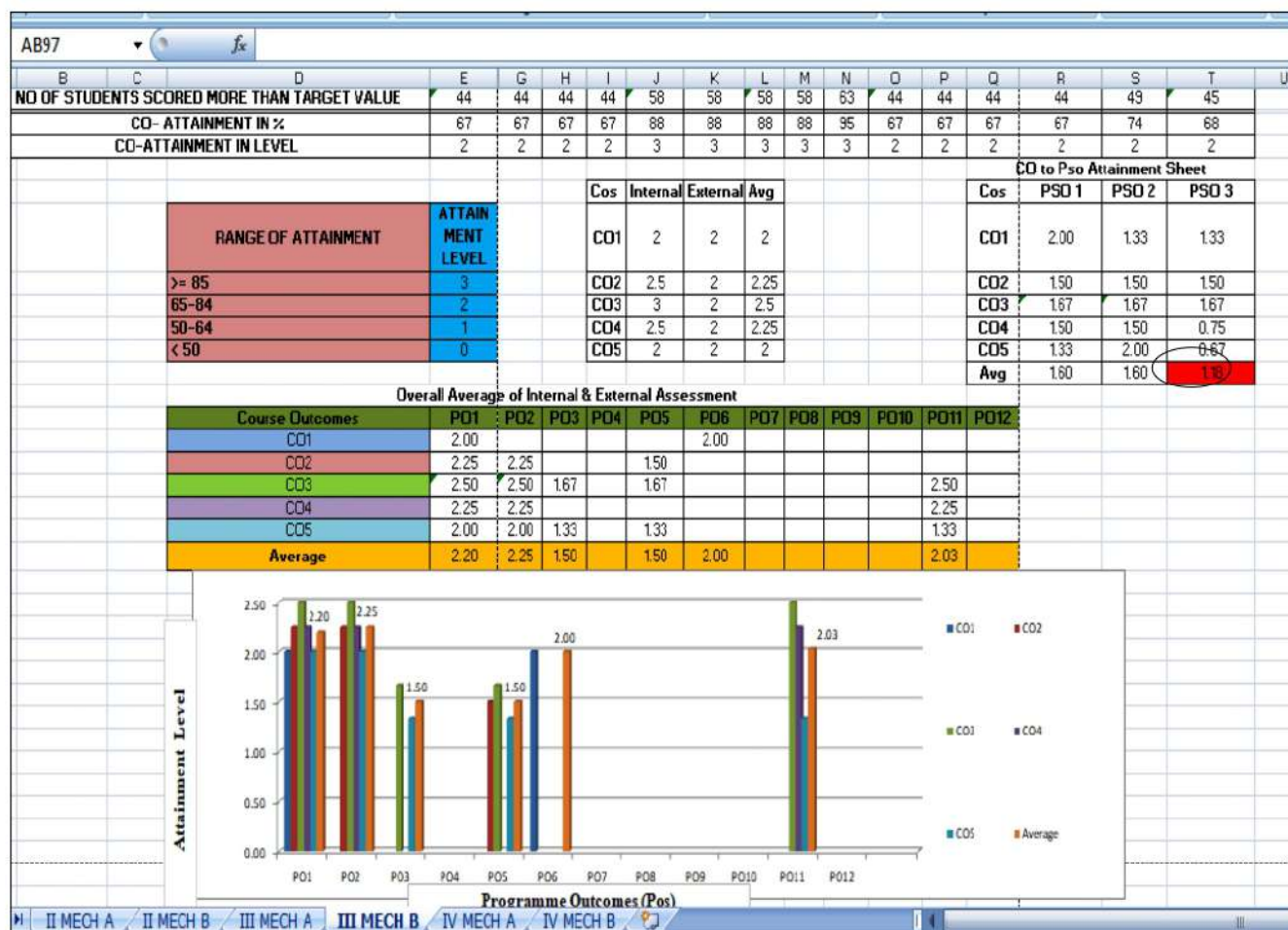
- Course to PO index is calculated as an average index value of all the 5 Cos assigned for a course to respective Pos. Cos having no correlation are ignored in computing the course to PO index computation.
- PO attainment is computed as product of collective percentage of all Cos attainment of the course and the course CO index to the respective Pos
- Overall PO attainment of the program is computed as average of respective PO attainment of all the courses.
- Direct attainment, which is the aggregated PO attainment of all the courses is considered to the extent of 80% and the indirect assessment through Degree Exit Survey is considered to the extent of 20% and together they sum up to the overall attainment level of a PO/PSO.

***For Degree Exit Survey:***

- Attainment Level =1; if the average survey score is below 2.5, a score of 1 will be awarded
- Attainment Level = 2, if the average survey score is between 2.5 and 3.5, a score of 2 will be awarded



- Attainment Level = 3, if the average survey score is above 3.5, a score of 3 will be awarded



**PO/PSO Attainment calculation Sheet**

The work sheet for calculating the PO/PSO attainment process is as given in the above figure

- Failed PO & PSOs are highlighted in circle and scores are in "red"
- If failed, the root cause is analyzed and relevant actions are taken to achieve the defined target in the subsequent year.

### **C. The quality/relevance of assessment tools/processes used**

To ensure reliable computation of CO / PO / PSO the institution has developed a tool. Every CO attainment is assessed at individual CO level for every individual student. The

aggregated attainment of CO of all courses is considered for PO attainment computation. Hence, the performance of the students is directly co-relatable to CO attainment and to PO Attainment.

## Results of evaluation of each PO and PSO

*Program shall set Program Outcome attainment levels for all Pos & PSOs.*

PO and PSO attainment for all courses of (2014-18) batches are listed in the following table as mentioned below.

### PO attainment for – (2014-2018) Batch

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
C101					2.14	2.27	1.98	2.27	2.51	2.34		2.27
C102	1.65	1.71	1.55	1.58							1.29	1.57
C103	1.81	1.67	1.58	1.50							1.51	1.63
C104	1.58	1.51	1.48	1.62		1.68	1.68				1.59	1.77
C105	1.91	1.82	1.92	1.89	1.81				1.60	1.60		1.49
C106	1.62	1.57	1.66	1.51	1.50				1.50			1.37
C107	2.01	2.07	2.30	2.29	2.17				2.01	2.01		2.07
C108	2.07		2.11	2.01	1.97	1.69	1.69			2.12	1.80	1.69
C109	2.01	2.01	2.34	2.01		1.97	1.69				2.02	1.57
C110					2.20	2.02	2.11	2.15	2.28	1.90		1.65
C111	0.89	1.17	1.05	1.02							1.07	1.01
C112	2.11	1.98	1.62	1.58							2.01	2.09
C113	2.01	1.88	1.90	1.61		1.58	1.58				1.68	1.51
C114	1.87	1.62		1.60	1.60	1.81	1.71				1.49	1.39
C115	1.50	1.48	1.41	1.38	1.52						1.30	1.30
C116	2.13	2.18	2.22	2.01	2.01				1.67			1.68

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
C117	2.11	2.08	2.32	2.31		2.21	2.26				1.97	1.62
C201	1.01	1.06	1.06	1.12							0.90	0.81
C202	1.32	1.30	1.30	1.47							1.27	1.39
C203	1.40	1.41	1.55	1.48		1.50	1.66				1.27	1.10
C204	1.50	1.56	1.66	1.66			1.51				1.31	
C205	1.60		1.51	1.71	1.80				1.44		1.59	1.50
C206	1.68	1.66	1.60	1.84	1.84	1.84						1.02
C207	2.08		2.01	2.06	2.18				2.44		2.05	1.47
C208	2.08	2.41	2.44	2.42			2.14		2.12		2.09	2.01
C209	2.29	2.24	2.61	2.62	2.61	2.58						2.42
C210	1.18	1.09	1.02	1.01							0.95	0.90
C211	0.98	1.02	0.91	0.97	1.17						1.19	0.99
C212	1.58		1.98	1.78	1.78				1.61		1.61	1.44
C213	1.62		2.03	2.08			2.11				2.27	1.59
C214	2.09		2.18	2.18		2.07	2.07	2.07			1.87	1.91
C215	1.95	1.98	1.96	1.59		1.57	1.66				1.61	1.62
C216	2.33		2.21	2.01	2.30				2.30		1.98	1.89
C217	2.18	2.20	2.20	2.27		2.27	2.03				1.39	1.34
C218	2.31	2.36	2.31	2.31							2.41	2.41
C301	1.63	1.51	1.51	1.68	1.68				1.62		1.29	1.40
C302	1.78	1.66	1.58	1.52		1.62	1.68				1.38	1.22
C303	1.88	1.90	1.91	1.66	1.68						0.87	0.82
C304	1.90		1.58	1.69	1.68	1.51					1.37	1.12
C305	1.58	1.52	1.32	1.68	1.22						0.98	0.99
C306	1.78		1.78			2.01	2.01	2.01		2.00	0.98	1.48
C307	2.03	2.13	2.03			2.16						

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
C308	2.11	2.22	2.22	2.21		2.37	2.21				2.08	2.09
C309	2.09		2.07	2.18	2.18							2.21
C310	1.70	1.70	1.71	1.20	1.21						1.48	1.36
C311	1.59		1.66			2.01	2.07	2.01		2.07	1.98	1.81
C312	2.08		1.78	1.69		1.62	1.44				1.67	1.24
C313	2.20	2.20	1.62	1.51	1.51						2.07	1.77
C314	1.50	1.50	1.57	1.59		1.62	1.53				0.98	0.91
C318	1.98		2.21			2.00	2.20				2.01	1.68
C319	2.01		2.08	2.08	2.11				1.98		1.67	1.57
C320	2.12	2.17	2.30	2.19	2.21				2.10			1.80
C321	2.33	2.31	2.30	2.30	2.19	2.31	2.28	2.29	2.15	2.08	2.08	2.07
C322			2.28		2.61	2.62	2.62	2.62	2.37	2.31	2.31	2.37
C401	1.57	1.59	1.57	1.50		1.57	1.61				1.49	1.32
C402	1.58	1.99	2.08	2.07	2.07				2.01		2.11	1.38
C403	1.57	1.57	1.56	2.02	2.10				2.09		1.39	1.40
C404	1.67		1.67			1.71	1.68	1.61		2.01	2.01	1.50
C405	1.59	1.40	1.40	1.56	1.67					1.67	0.90	0.91
C407	2.11	1.96	1.62	1.62	1.62						1.51	1.51
C411	1.68	2.01	2.00	2.12	2.02						1.69	1.61
C413	1.89		1.51	1.51	1.59				1.50		1.69	1.66
C415	2.22	2.21	2.27	2.25	2.07						2.10	2.10
C416	2.11	2.09	2.30	2.30	2.19				2.27		1.68	1.77
C417	2.17		2.36	2.31	2.31	2.19		2.34	2.34	2.27	2.18	2.18
C418	1.98	2.01	1.69			1.38	1.31	1.29		1.69	1.98	1.91
C419	1.68	1.52	1.61	1.84		0.98				1.63	1.51	1.38
C420	2.20					2.12	1.94	1.89	1.89	1.51	1.42	1.36



Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
<b>C424</b>	1.96	1.98	2.01	1.87		1.69	1.59				1.51	1.31
<b>C48</b>	2.01	1.51	1.67	1.81	1.81				1.51			1.39
<b>C430</b>	2.62	2.68	2.59	2.59	2.67	2.69	2.51	2.58	2.58	2.62	2.62	2.51
<b>Direct Attainment</b>	1.77	1.27	1.73	1.56	1.02	0.89	0.79	0.35	0.67	0.44	1.36	1.53
<b>Indirect Attainment</b>	2.34	2.30	2.37	2.45	2.21	2.01	2.10	2.37	2.19	2.30	2.57	2.29
<b>Overall PO Attainment</b>	2.05	1.78	2.05	2.00	1.61	1.45	1.44	1.36	1.43	1.37	1.96	1.91



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### PSO attainment for - (2014-2018) Batch

Course	PSO1	PSO2	PSO3
C101	2.08	2.27	2.02
C102	1.27	1.09	1.21
C103	1.57	1.67	1.50
C104	1.52	1.20	1.21
C105	1.60	1.50	1.37
C106	1.51	1.61	1.61
C107	2.02	2.08	2.01
C108	2.00	2.07	2.01
C109	2.21	1.90	1.90
C110	2.10	2.10	1.98
C111	1.01	0.91	0.92
C112	1.51	1.58	2.00
C113	1.97	1.97	1.80
C114	1.67	1.68	1.52
C115	1.32	1.36	1.05
C116	2.18	2.07	2.07
C117	1.62	1.68	1.71
C201	1.32	1.09	1.09



<b>C202</b>	1.09	1.07	0.98
<b>C203</b>	1.47	1.51	0.96
<b>C204</b>	1.50	1.50	1.62
<b>C205</b>	1.58	2.07	2.00
<b>C206</b>	1.62	1.62	0.82
<b>C207</b>	2.08	2.08	2.11
<b>C208</b>	2.08	2.08	2.01
<b>C209</b>	2.11	2.08	2.07
<b>C210</b>	1.59	1.37	0.91
<b>C211</b>	1.39	1.25	0.91
<b>C212</b>	1.59	2.00	1.90
<b>C213</b>	1.60	1.62	1.62
<b>C214</b>	1.98	1.98	0.92
<b>C215</b>	1.58	1.52	1.39
<b>C216</b>	2.01	2.08	2.08
<b>C217</b>	2.12	2.10	2.10
<b>C218</b>	2.01	2.01	1.81
<b>C301</b>	1.62	1.58	1.57
<b>C302</b>	1.58	1.22	0.87
<b>C303</b>	1.21	1.21	1.30
<b>C304</b>	0.92	0.88	1.16
<b>C305</b>	1.01	1.30	1.52
<b>C306</b>	1.50	1.82	0.81
<b>C307</b>	2.02	2.10	2.05
<b>C308</b>	2.05	2.10	2.10
<b>C309</b>	2.38	2.38	2.31
<b>C310</b>	1.58	1.57	1.34

<b>C311</b>	2.08	2.06	2.11
<b>C312</b>	1.87	1.62	1.37
<b>C313</b>	1.68	2.00	1.60
<b>C314</b>	1.63	1.68	1.81
<b>C318</b>	2.00	2.02	2.09
<b>C319</b>	2.01	2.09	1.57
<b>C320</b>	2.10	2.07	2.05
<b>C321</b>	2.47	2.42	2.60
<b>C322</b>	2.01	2.05	2.11
<b>C401</b>	1.60	1.60	0.97
<b>C402</b>	1.51	1.80	1.71
<b>C403</b>	1.54	2.00	2.04
<b>C404</b>	2.06	2.06	2.07
<b>C405</b>	1.59	1.71	0.91
<b>C407</b>	1.92	1.50	0.97
<b>C411</b>	1.88	2.01	1.92
<b>C413</b>	1.70	1.70	0.98
<b>C415</b>	2.01	2.01	2.19
<b>C416</b>	2.20	2.21	2.27
<b>C417</b>	2.36	2.31	2.31
<b>C418</b>	1.68	1.61	1.61
<b>C419</b>	1.57	1.52	0.98
<b>C420</b>	1.67	1.68	0.93
<b>C424</b>	1.52	1.62	1.60
<b>C48</b>	1.81	1.62	1.59
<b>C430</b>	2.34	2.32	2.32
<b>Direct Attainment</b>	1.75	1.76	0.98

<b>Indirect Attainment</b>	2.17	2.08	2.01
<b>Overall PO Attainment</b>	1.96	1.92	1.49



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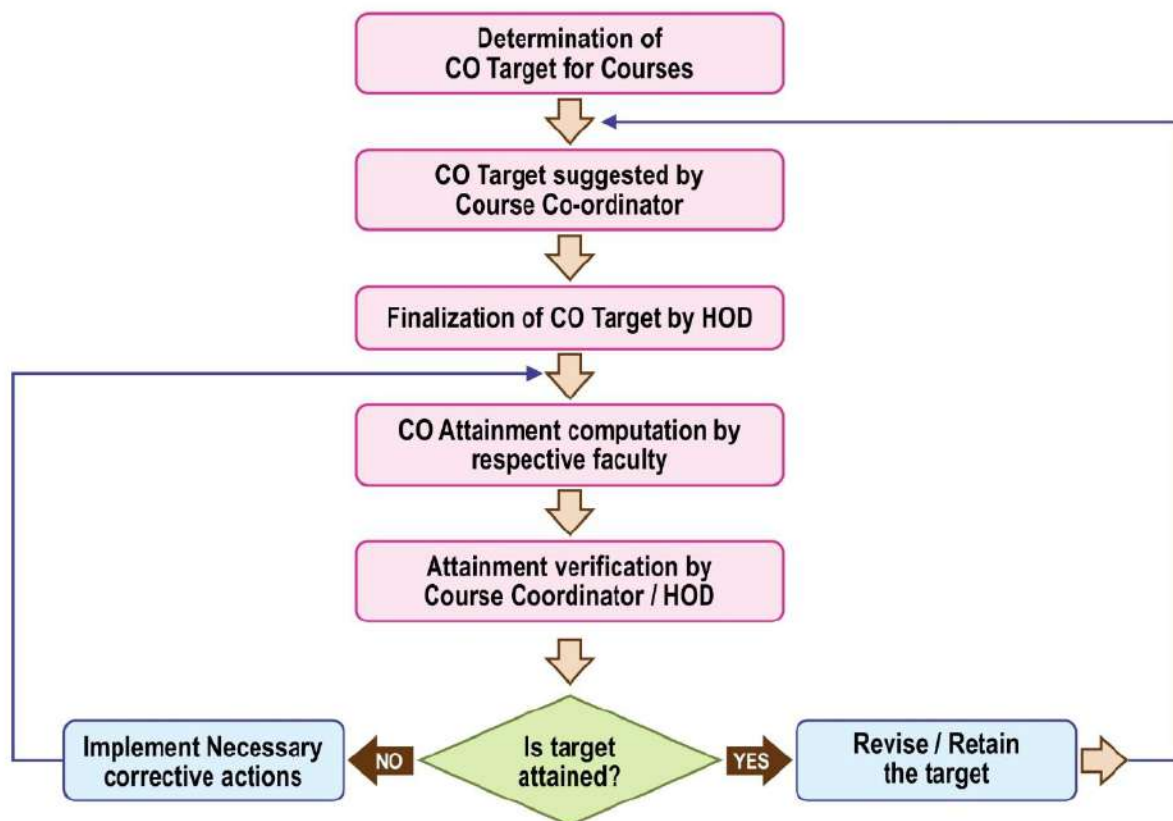


### Attainment of Course Outcomes

*Following describe the assessment processes used to gather the data upon which the evaluation of course outcomes based*

#### *A. Process involved in setting the course target:*

The department collects previous year's CO data and arrives at the target for the subsequent year for all the courses mentioned in the curriculum. The flow chart for calculating the CO attainment process is as given in the figure as mentioned below.



**Process Flow Diagram for CO Target Fixation and Attainment Process**

- The assigned course target is reviewed by the course coordinator and approved by the department HOD.
- If the set course target is achieved, target for subsequent academic year is revised to higher level by the department.
- If not, root cause is analyzed and necessary actions are taken to achieve the same in the subsequent academic year.

### ***B. Calculation of Attainment Level:***

#### ***i) Theory Courses:***

- The course outcome evaluation is based on direct assessment and indirect assessment.
- Direct assessment includes both internal and external assessments.
- The internal assessment is based on the performance of the student in internal tests and assignments.
- The external assessment is based on the performance of the student in the university examinations.
- The indirect assessment is based on the course end survey.

#### **Course Outcome Addressed in Assignments**

Assignment Number	1	2	3
Course Outcome Addressed	CO1, CO2	CO2, CO3, CO4	CO4, CO5

#### ***a) Direct/Indirect Attainment Level:***

Criteria for computing attainment and scoring are defined below:

#### ***For internal continuous assessment tests and University Examinations***

- Attainment Level =1; upto 50% of the students scores the set target of 50% of marks and a score of 1 will be awarded if achieved.
- Attainment Level = 2, 50% to 60% of the students scores the set target of 50% of marks and a score of 2 will be awarded if achieved.
- Attainment Level = 3, 70% and above of the students scores the set target of 50% of marks and a score of 3 will be awarded if achieved.

**Note:** *the target mark and percentage of class attaining it for various levels can be set differently for different courses by the respective course coordinators*

#### ***For Assignments***

- Attainment Level =1; upto 50% of the students scores the set target of 6 marks and a score of 1 will be awarded if achieved.
- Attainment Level = 2, 50% to 60% of the students scores the set target of 8 marks and a score of 2 will be awarded if achieved.

- Attainment Level = 3, 70% and above of the students scores the set target of 10 marks and a score of 3 will be awarded if achieved.

**Note:** *the target mark and percentage of class attaining it for various levels can be set differently for different courses by the respective course coordinators*

***For Course End Survey***

- Attainment Level =1; if the average survey score is below 2.5, a score of 1 will be awarded
- Attainment Level = 2, if the average survey score is between 2.5 and 3.5, a score of 2 will be awarded
- Attainment Level = 3, if the average survey score is above 3.5, a score of 3 will be awarded

**Note:** *the target score and percentage of class attaining it for various levels can be set differently for different courses by the respective course coordinators*

***b) Direct/Indirect Assessment Weightage:***

The following weightage is adopted for arriving CO attainment level:

**Assessment Tools with weightage allocation for calculating the CO Attainment**

Assessment Methods / Mode		Theory Courses	Lab Courses	Comprehension	Project	Value Added Courses
Direct Assessment	Internal Assessment	50%	20%	100%	20%	80%
	University Exam/Others	50%	80%	-	80%	20%
Indirect Assessment	Course End Survey	20%	20%	20%	20%	20%



**a) Direct/Indirect Attainment Level:**

Criteria for computing attainment and scoring are defined below:

***For Internal Practical Sessions and University Practical:***

- Attainment Level =1; upto 50% of the students scores the set target of 50% of marks and a score of 1 will be awarded if achieved.
- Attainment Level = 2, 50% to 60% of the students scores the set target of 50% of marks and a score of 2 will be awarded if achieved.
- Attainment Level = 3, 70% and above of the students scores the set target of 50% of marks and a score of 3 will be awarded if achieved.

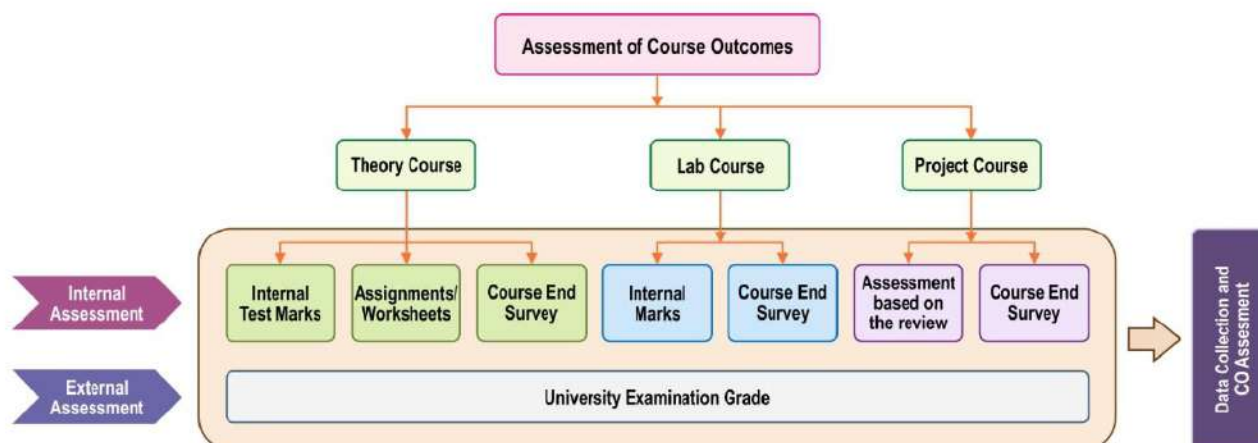
**Note: the target mark and percentage of class attaining it for various levels can be set differently for different courses by the respective course coordinators**

***For Course End Survey:***

- Attainment Level =1; if the average survey score is below 2.5, a score of 1 will be awarded
- Attainment Level = 2, if the average survey score is between 2.5 and 3.5, a score of 2 will be awarded
- Attainment Level = 3, if the average survey score is above 3.5, a score of 3 will be awarded

**Note: the target score and percentage of class attaining it for various levels can be set differently for different courses by the respective course coordinators**

The Method of Data Collection for CO Attainment Calculation is as shown in the figure as mentioned below.



**Data Collection flow Diagram for CO Attainment Calculation**

**Attainments of course outcomes of all courses with respect to set attainment levels. Program shall have set Course Outcome attainment levels for all courses.**

The CO attainment of all courses for the year 2014-2018 are listed in the below mentioned table.

**Attainment of Course Outcomes – (2014-2018) Batch**

S.No	Course	Course Name	CO Target Index	Course Outcomes	Attainment Level
1	C101	Technical English - I	1.5	C101.1	2.77
				C101.2	2.69
				C101.3	2.72
2	C102	Mathematics – I	1.5	C102.1	1.67
				C102.2	1.73
				C102.3	1.82
3	C103	Engineering Physics – I	1.5	C103.1	2.12
				C103.2	2.08
				C103.3	2.17
4	C104	Engineering Chemistry – I	1.5	C104.1	2.08
				C104.2	2.21
				C104.3	2.11
5	C105	Fundamentals of Computing and Programming	1.5	C105.1	1.98
				C105.2	2.08
				C105.3	2.22
6	C106	Engineering Graphics	1.5	C106.1	1.78
				C106.2	1.82
				C106.3	1.81
7	C107	Computer Practice Laboratory-I	2	C107.1	2.62
				C107.2	2.30
				C107.3	2.41
8	C108	Engineering Practices Laboratory	2	C108.1	2.48
				C108.2	2.28
				C108.3	2.31
9	C109	Physics and Chemistry Laboratory - I	2	C109.1	2.13
				C109.2	2.11
				C109.3	2.24
10	C110	Technical English – II	1.5	C110.1	2.72
				C110.2	2.74
				C110.3	2.71

S.No	Course	Course Name	CO Target Index	Course Outcomes	Attainment Level
11	C111	Mathematics – II	1.5	C111.1	2.10
				C111.2	1.92
				C111.3	1.58
12	C112	Engineering Physics – II	1.5	C112.1	2.32
				C112.2	2.20
				C112.3	2.18
13	C113	Engineering Chemistry – II	1.5	C113.1	2.62
				C113.2	2.70
				C113.3	2.50
14	C114	Basic Electrical and Electronics Engineering	1.5	C114.1	2.10
				C114.2	2.02
				C114.3	2.10
15	C115	Engineering Mechanics	1.5	C115.1	1.52
				C115.2	1.54
				C115.3	1.39
16	C116	Computer Aided Drafting and Modeling Laboratory	2	C116.1	2.81
				C116.2	2.72
				C116.3	2.80
17	C117	Physics and Chemistry Laboratory - II	2	C117.1	2.77
				C117.2	2.91
				C117.3	2.84
18	C201	Transforms and Partial Differential Equations	1.5	C201.1	1.54
				C201.2	1.51
				C201.3	1.60
				C201.4	1.52
				C201.5	1.54
19	C202	Strength of Materials	1.5	C202.1	1.52
				C202.2	1.57
				C202.3	1.60
				C202.4	1.53
				C202.5	1.68
20	C203	Engineering Thermodynamics	1.5	C203.1	1.57
				C203.2	1.59
				C203.3	1.52
				C203.4	1.72
				C203.5	1.53
21	C204	Fluid Mechanics and Machinery	1.5	C204.1	1.79
				C204.2	1.57
				C204.3	1.91
				C204.4	1.52
				C204.5	1.57
				C205.1	1.68

S.No	Course	Course Name	CO Target Index	Course Outcomes	Attainment Level
22	C205	Manufacturing Technology -I	1.5	C205.2	1.59
				C205.3	1.87
				C205.4	1.62
				C205.5	1.82
23	C206	Electrical Drives and Controls	1.5	C206.1	2.01
				C206.2	1.89
				C206.3	1.94
				C206.4	1.89
				C206.5	1.94
24	C207	Manufacturing Technology Laboratory - I	2	C207.1	2.68
				C207.2	2.59
				C207.3	2.50
				C207.4	2.59
				C207.5	2.50
25	C208	Fluid Mechanics and Machinery Laboratory	2	C208.1	2.68
				C208.2	2.60
				C208.3	2.68
				C208.4	2.60
				C208.5	2.64
26	C209	Electrical Engineering Laboratory	2	C209.1	2.84
				C209.2	2.68
				C209.3	2.84
				C209.4	2.68
				C209.5	2.64
27	C210	Statistical and Numerical Methods	1.5	C210.1	1.80
				C210.2	1.92
				C210.3	1.92
				C210.4	1.77
				C210.5	1.69
28	C211	Kinematics of Machinery	1.5	C211.1	1.50
				C211.2	1.56
				C211.3	1.51
				C211.4	1.29
				C211.5	1.57
29	C212	Manufacturing Technology– II	1.5	C212.1	1.59
				C212.2	1.68
				C212.3	1.66
				C212.4	1.61
				C212.5	1.79
30	C213	Engineering Materials and Metallurgy	1.5	C213.1	1.88
				C213.2	2.03
				C213.3	2.11



S.No	Course	Course Name	CO Target Index	Course Outcomes	Attainment Level
				C213.4	1.68
				C213.5	1.63
31	C214	Environmental Science and Engineering	1.5	C214.1	2.03
				C214.2	2.00
				C214.3	1.92
				C214.4	1.88
				C214.5	2.03
32	C215	Thermal Engineering	1.5	C215.1	1.57
				C215.2	1.50
				C215.3	1.62
				C215.4	1.48
				C215.5	1.53
33	C216	Manufacturing Technology Laboratory-II	2	C216.1	2.59
				C216.2	2.68
				C216.3	2.59
				C216.4	2.68
				C216.5	2.79
34	C217	Thermal Engineering Laboratory - I	2	C217.1	2.74
				C217.2	2.76
				C217.3	2.74
				C217.4	2.76
				C217.5	2.94
35	C218	Strength of Materials Laboratory	2	C218.1	2.88
				C218.2	2.68
				C218.3	2.88
				C218.4	2.68
				C218.5	2.52
36	C301	Computer Aided Design	1.5	C301.1	1.74
				C301.2	1.76
				C301.3	1.83
				C301.4	1.55
				C301.5	1.56
37	C302	Heat and Mass Transfer	1.5	C302.1	1.60
				C302.2	1.57
				C302.3	1.57
				C302.4	1.62
				C302.5	1.80
38	C303	Design of Machine Elements	1.5	C303.1	1.54
				C303.2	1.52
				C303.3	1.57
				C303.4	1.51

S.No	Course	Course Name	CO Target Index	Course Outcomes	Attainment Level
				C303.5	1.58
39	C304	Metrology and Measurements	1.5	C304.1	1.50
				C304.2	1.54
				C304.3	1.64
				C304.4	1.61
				C304.5	1.57
40	C305	Dynamics of Machines	1.5	C305.1	2.08
				C305.2	2.11
				C305.3	1.50
				C305.4	1.51
				C305.5	2.04
41	C306	Professional Ethics in Engineering	1.5	C306.1	2.07
				C306.2	2.14
				C306.3	2.20
				C306.4	2.22
				C306.5	2.20
42	C307	Dynamics Laboratory	2	C307.1	2.10
				C307.2	2.24
				C307.3	2.20
				C307.4	2.22
				C307.5	2.41
43	C308	Thermal Engineering Laboratory-II	2	C308.1	2.64
				C308.2	2.54
				C308.3	2.52
				C308.4	2.19
				C308.5	2.27
44	C309	Metrology and Measurements Laboratory	2	C309.1	2.44
				C309.2	2.41
				C309.3	2.42
				C309.4	2.46
				C309.5	2.55
45	C310	Design of Transmission Systems	1.5	C310.1	1.68
				C310.2	1.57
				C310.3	1.52
				C310.4	1.77
				C310.5	1.70
46	C311	Principles of Management	1.5	C311.1	2.10
				C311.2	2.02
				C311.3	2.12
				C311.4	2.07
				C311.5	2.20
				C312.1	1.96



S.No	Course	Course Name	CO Target Index	Course Outcomes	Attainment Level
47	C312	Automobile Engineering	1.5	C312.2	1.92
				C312.3	1.88
				C312.4	2.04
				C312.5	2.00
48	C313	Finite Element Analysis	1.5	C313.1	1.56
				C313.2	2.00
				C313.3	1.24
				C313.4	2.04
49	C314	Gas Dynamics and Jet Propulsion	1.5	C313.5	1.62
				C314.1	1.68
				C314.2	2.04
				C314.3	2.04
50	C318	Renewable Source of Energy	1.5	C314.4	1.96
				C314.5	1.87
				C318.1	2.14
				C318.2	2.02
51	C319	Unconventional machining process	1.5	C318.3	2.11
				C318.4	2.19
				C319.5	2.12
				C319.1	2.08
52	C320	CAD / CAM Laboratory	2	C319.2	2.21
				C319.3	2.07
				C319.4	2.16
				C319.5	2.16
53	C321	Design and Fabrication Project	2	C320.1	2.78
				C320.2	2.81
				C320.3	2.73
				C320.4	2.02
54	C322	Communication Skills- Laboratory	2	C320.5	2.09
				C321.1	2.24
				C321.2	2.02
				C321.3	2.09
				C321.4	2.14
				C321.5	2.47
				C322.1	2.36
				C322.2	2.30
				C322.3	2.62
				C322.4	2.30
				C322.5	2.62

S.No	Course	Course Name	CO Target Index	Course Outcomes	Attainment Level
55	C401	Power Plant Engineering	2	C401.1	2.14
				C401.2	2.02
				C401.3	1.87
				C401.4	1.84
				C401.5	2.01
56	C402	Mechatronics	1.5	C402.1	1.74
				C402.2	1.44
				C402.3	1.71
				C402.4	1.54
				C402.5	1.56
57	C403	Computer Integrated Manufacturing Systems	1.5	C403.1	1.87
				C403.2	2.00
				C403.3	2.00
				C403.4	2.11
				C403.5	2.12
58	C404	Total Quality Management	1.5	C404.1	1.68
				C404.2	1.66
				C404.3	1.57
				C404.4	1.69
				C404.5	1.75
59	C405	Process Planning and Cost Estimation	1.5	C405.1	2.04
				C405.2	2.02
				C405.3	2.01
				C405.4	2.12
				C405.5	2.12
60	C407	Design of Jigs, Fixtures and Press Tools	1.5	C407.1	2.01
				C407.2	2.09
				C407.3	2.11
				C407.4	2.20
				C407.5	1.99
61	C411	Robotics	1.5	C411.1	2.04
				C411.2	1.68
				C411.3	1.74
				C411.4	1.71
				C411.5	1.87
62	C413	Maintenance Engineering	1.5	C413.1	2.11
				C413.2	2.06
				C413.3	2.10
				C413.4	2.10
				C413.5	1.78

S.No	Course	Course Name	CO Target Index	Course Outcomes	Attainment Level
63	C415	Simulation and Analysis Laboratory	2	C415.1	2.24
				C415.2	2.45
				C415.3	2.47
				C415.4	2.68
				C415.5	2.21
64	C416	Mechatronics Laboratory	2	C416.1	2.32
				C416.2	2.17
				C416.3	2.27
				C416.4	2.27
				C416.5	2.11
65	C417	Comprehension	2	C417.1	2.57
				C417.2	2.36
				C417.3	2.34
				C417.4	2.36
				C417.5	2.42
66	C418	Engineering Economics	1.5	C418.1	2.08
				C418.2	2.18
				C418.3	2.27
				C418.4	2.09
				C418.5	1.87
67	C419	Production Planning and Control	1.5	C419.1	2.00
				C419.2	2.01
				C419.3	2.01
				C419.4	1.98
				C419.5	1.86
68	C420	Entrepreneurship Development	1.5	C420.1	2.15
				C420.2	2.21
				C420.3	2.08
				C420.4	2.03
				C420.5	2.11
69	C424	Advanced I.C Engines	1.5	C424.1	1.98
				C424.2	1.96
				C424.3	2.04
				C424.4	1.27
				C424.5	1.32
70	C428	Non Destructive testing of Materials	1.5	C428.1	2.08
				C428.2	2.01
				C428.3	2.09
				C428.4	2.12
				C428.5	1.87

S.No	Course	Course Name	CO Target Index	Course Outcomes	Attainment Level
71	C430	Project work	2	C430.1	2.68
				C430.2	2.87
				C430.3	2.86
				C430.4	2.62
				C430.5	2.87



**Dr. P. MANIARASAN**  
Principal  
Nehru Institute of Engg. & Technology  
T.M.Palayam, Coimbatore - 641 166

**Principal**





# NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

T. M. Palayam, Coimbatore-641 105

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Accredited by NAAC, Recognized by UGC with Section 2(f) and 12(B)

NBA Accredited Department: AERONAUTICAL, CSE, MECHANICAL

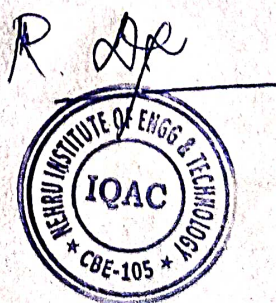


## MENTOR-MENTEE SYSTEM

**ACADEMIC YEAR: 2020-2021**

Version 1

No. of students enrolled	No. of fulltime teachers	Mentor-Mentee ratio
1333	147	1:9





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## INTRODUCTION

Nehru Institute of Engineering and Technology admits students through

- (i) Affiliating University counseling and
- (ii) Direct admissions to College based on merit in qualifying examination

Therefore, the admitted students represent a combination of bright students and average students. To help them cope with new learning environment, a number of measures are taken by the Institute

Once the admission process is over, an orientation program is planned for the newly admitted students. It includes several induction programs such as; Yoga, Meditation, Music, Physical training, Communication Skills, Personality Development and Time Management, Art and Culture etc

Library facility is initiated and all students borrow the books for preparation. Parents are invited in the middle of semester to interact with concerned faculty advisors and subject teachers to discuss about the progress of their wards

### **Mentor-Mentee System:**

Mentor-mentee relationship is followed in NIET. The Head of the Department allots the students of the programme to the faculty (tutor) in groups. The tutor in charge takes the role of a mentor.

**Allotment Policy:** The College is to follow the UGC Guidelines. The Mentor-Mentee ratio is decided on the basis of the strength of the students and faculty in the department. It is expected not to exceed 1:30. The mentor maintains a Mentor's Diary (Annexure), to keep track of the records of the mentees. This also helps to identify the slow learners and the advanced learners from each batch of each year and every course.

Each type of students has different learning attitudes and learning habits. The objective of such assessment process of the learning levels of the students is

- i. To identify the factors affecting the student's performance.



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ii. To analyze them with respect to the institutional framework.

iii. After identification and analysis, to provide a proper solution for improving their performance and build a successful career.

## Student Information Form

Every faculty advisor maintains a Mentor's diary (Annexure). The mentor's diary consists of record of the students of a particular batch assigned to them.

Following records are to be maintained by Class Advisor of each class:

- (i) Student Information Handbook
- (ii) Marks Statement (Internal Assessment and University Exams)
- (iii) List of slow and advanced learners of their batch.
- (iv) Remedial measures taken and details (circulars and notices)
- (v) Records of activities for both types of learners

All faculty advisors are required to maintain the student detail of each and every student of their respective batches in the student information form as attached as Annexure. This record is helpful in maintaining the student data and his/her personal information and to connect faculty advisor to parents/guardians.

All the above details are provided by the concerned course teachers to the concerned faculty advisor. These details are maintained in the Mentors Diary.



**NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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# **STUDENTS HANDBOOK**

## **SAMPLE**

## PERSONAL DETAILS



STUDENT NAME	KAJAL RAO
DATE OF BIRTH	24-01-1998
BLOOD GROUP	O +ve
SEX	MALE / FEMALE
FATHER'S/GUARDIAN NAME	Mr. CHANDRIKA PRASAD
FATHER'S OCUPATION	CENTRAL GOVT. EMPLOYEE
MOTHER'S NAME	Mrs. MEENA
MOTHER'S OCUPATION	HOUSE MAKER
MOTHER TONGUE	HINDI
RELIGION	HINDU
CASTE	OC / BC / BCM / MBC / SC / ST
ADDRESS FOR COMMUNICATION	Dr. no 149/1 TYPE I QTRS, CFESTATE, ARUVAN KADU, THE NILGIRIS-643202
PERMANENT ADDRESS	Sri. Minath Ram (Fb) Chandrika Prasad, Village - Baugawan, Post: Naidhi Dist. Chandauli (Varanasi) PIN: 2232101 (D.P)
FATHER'S PHONE NUMBER	9486656628
MOTHERS PHONE NUMBER	8940063844
STUDENT PHONE NUMBER	8489229029
MAIL ID	Kajal_star.kajalrao@gmail.com


  
**Dr. V. JAYARAJ**  
 Professor & Head  
 Department of ECE  
 Nehru Inst. of Engg. & Technology  
 T.M. Palayam, Coimbatore - 641 119

## ACADEMIC DETAILS

STUDENT NAME	KAJAL RAO
ROLL NUMBER	
REGISTER NUMBER	121416106019
QUOTA	GOVERNMENT / MANAGEMENT
DAY SCHOLAR	YES / NO
HOSTELLER	YES / NO
MEDIUM OF INSTRUCTION	TAMIL / ENGLISH

## EDUCATIONAL DETAILS

MEDIUM	NAME OF THE SCHOOL / INSTITUTIONS	YEAR OF PASSING	PASS % With CLASS
X STD	KENDRIYA VIDYALAYA ARUVANKADU	2014	8.6 CGPA
XII STD	CORDITE FACTORY HIGHER SECONDARY, ARUVANKADU	2016	16.41 %
DIPLOMA	-	-	

  
**Dr. V. JAYARAJ**  
 Professor & Head  
 Department of ECE  
 Nehru Inst. of Engg. & Technology  
 T.M. Palayam, Coimbatore - 641 105



## SECOND YEAR (III SEMESTER)

Internal assessment test Performance:

Year / Semester: III Sem / II year

Academic year : 2017-18

S. No	Sub.Code	Sub.Title	Test1 Mark	Retest Mark	Test2 Mark	Retest Mark	Test3 Mark	Retest Mark	Model Exam	Retest Mark
1	EC6301	OOPS	95		90		98			
2	EC6302	AE	92		90		98			
3	EC6303	SS	80		98		98			
4	EC6304	EC-1	96		99		98			
5	EE6305	EE & I	100		98		98			
6	MA6351	TPAE	94		94		98			

University Mark Details

Year / Semester: II / B

Academic year : 2017-18

S.No.	Sub Code	Sub. Name	Attempt 1 Mark	Attempt 2 with year and month of passing	Attempt 3 with year and month of passing	Attempt 4 with year and month of passing
1.	EC6301	OOPS	B			
2.	EC6302	AE	C			
3.	EC6303	SS	E			
4.	EC6304	EC-1	E			
5.	EE6352	EE & I	U			
6.	MA6351	TPAE	C			
7.	PH6251	Engineering Physics - II	E	E-2017 (Nov-Dec)		
8.	EC6311	ADC LAB	S			
9.	EC6352	OOPS LAB	S			

SGPA:

CGPA: 6.95

Dr. V. JAYARA

Professor & Head  
Department of T  
Neeru Inst. of Engg. & Tech  
T.M. Paayandi, Coimbatore

## SECOND YEAR (IV SEMESTER)

Internal assessment test Performance:

Year / Semester: II / 04

Academic year : 2017-18

S. No	Sub.Code	Sub.Title	Test1 Mark	Retest Mark	Test2 Mark	Retest Mark	Test3 Mark	Retest Mark	Model Exam	Retest Mark
1	EC6401	EC-II	92		96		99			
2	EC6402	CT	90		84		96			
3	EC6403	EMF	96		94		98			
4	EC6404	LIC	96		98		96			
5	EC6405	CSE	80		88		94			
6	MA6451	PRP	98		90		98			

University Mark Details

Year / Semester: II / IV

Academic year : 2017-18

S.No.	Sub Code	Sub. Name	Attempt 1 Mark	Attempt 2 with year and month of passing	Attempt 3 with year and month of passing	Attempt 4 with year and month of passing
1.	EC6401	EC-II	E			
2.	EC6402	CT	E			
3.	EC6403	EMF	A			
4.	EC6404	EC =	E			
5.	EC6405	CSE	C			
6.	MA6451	PRP	D			
7.	EE6352	FEED	-	E Apr/may 2018		
8.	EC6411	LAB	S			
9.	EC6412	LAB	S			
10	EE6461	LAB	S			

SGPA:

CGPA:

  
**Dr. V. JAYAPATHI**  
 Professor & H.  
 Department of  
 Nehru Inst. of Engg.  
 T.M. Palayam, Coimbatore.

## THIRD YEAR (V SEMESTER)

Internal assessment test Performance:

Year / Semester: 3<sup>rd</sup> Year / V

Academic year : 2018-19

S. No	Sub.Code	Sub.Title	Test1 Mark	Retest Mark	Test2 Mark	Retest Mark	Test3 Mark	Retest Mark	Model Exam	Retest Mark
1	EC6501	DC	96		80		99			
2	EC6502	PDSP	82		98		96			
3	EC6503	TLW	82		98		98			
4	EC6504	MM	95		92		94			
5	EC6505	ERS	94		92		99			
6										

University Mark Details


Year / Semester: 3<sup>rd</sup> / V

Academic year : 2018-19

S.No.	Sub Code	Sub. Name	Attempt 1 Mark	Attempt 2 with year and month of passing	Attempt 3 with year and month of passing	Attempt 4 with year and month of passing
1.	EC6501	DC	U	<sup>May</sup> C-2018-19		
2.	EC6502	PDSP	C			
3.	EC6503	TLW	E			
4.	EC6504	MM	D			
5.	EC6505	ERS	C			
6.	EC6511	CS Lab	S			
7.	EC6512	DSP Lab	S			
8.	EC6513	MM Lab	S			

SGPA:

CGPA:

  
**DR. V. JAYARAM**  
 Professor & Head  
 Department of E.C.T  
 Nehru Inst. of Engg. & Technology  
 T.M. Palayam, Coimbatore - 641 055

## THIRD YEAR (VI SEMESTER)

Internal assessment test Performance:

Year / Semester: III year / VI

Academic year : 2018-19

S. No	Sub.Code	Sub.Title	Test1 Mark	Retest Mark	Test2 Mark	Retest Mark	Test3 Mark	Retest Mark	Model Exam	Retest Mark
1	CS6303	CA	90		90		98			
2	CS6551	CN	84		90		98			
3	EC6001	M.E	80		100		98			
4	EC6601	VLSI	92		96		98			
5	EC6602	AWP	84		100		98			
6	MG6851	POM	80		99		98			

University Mark Details

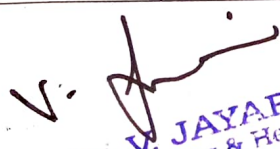
Year / Semester: III year / VI

Academic year : 2018-19

S.No.	Sub Code	Sub. Name	Attempt 1 Mark	Attempt 2 with year and month of passing	Attempt 3 with year and month of passing	Attempt 4 with year and month of passing
1.	EC6611	CN Lab	B S			
2	CS6303	CA	E			
3	CS6551	M.E CN	E			
4	EC6601	VLSI Design	E			
5	EC6602	AWP	E			
6	EC6001	M E	C			
7	EC6612	VLSI Lab	S			
8	GE6674	Communication Lab	B			
9	MG6851	POM	E			

SGPA:

CGPA: 6.78

  
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## FOURTH YEAR (VII SEMESTER)

Internal assessment test Performance:

Academic year : 2019-20

Year / Semester: IV / VII

S. No	Sub.Code	Sub.Title	Test1 Mark	Retest Mark	Test2 Mark	Retest Mark	Test3 Mark	Retest Mark	Model Exam	Retest Mark
1	EC6004	SC	88		81		94			
2	EC6009	ACA	98		100		100			
3	EC6013	AMM	70		92		98			
4	EC6701	RF	64		88		98			
5	EC6702	OCN	94		100		100			
6	EC6703	ERTS	82		92		96			

University Mark Details

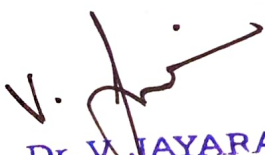
Year / Semester:

Academic year :

S.No.	Sub Code	Sub. Name	Attempt 1 Mark	Attempt 2 with year and month of passing	Attempt 3 with year and month of passing	Attempt with year and month of passing

SGPA:

CGPA:

  
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### Students Leave form

Academic Year: 2017-18

**Semester:** 03

[illegible]

  
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## Students Leave form

Semester: 04

**Academic Year:** 2017-18

[illegible]

**DR. V. JAYARAJ**  
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# OD Form

Semester: 04

Academic Year: 2017-18

[illegible]

V. J. S. Raj  
Professor & Head  
Department of ECE  
Neeru Inst. of Engg. & Technology  
T.M. Palayam, Coimbatore - 641 105

## Students Leave form

Semester: 05

**Academic Year:**

[illegible]

DR. V. JAYARAM  
Professor & Head  
Department of ECE  
Nehru Inst. of Engg. & Technology  
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# OD Form

Semester: 06

Academic Year: 2018-19.

[illegible]

**DR. V. JAYARAJ**  
Professor & Head  
Department of ECE  
Nehru Inst. of Engg. & Technology  
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## Students' Leave form

Semester: 06

**Academic Year:** 2018-19

[illegible]

**Dr. V. JAYARAJ**  
Professor & Head  
Department of ECE  
Nehru Inst. of Engg. & Technology  
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# OD Form

Semester: 06

Academic Year: 2018-19.

[illegible]

**DR. V. JAYARAJ**  
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Department of ECE  
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## Students Leave form

Semester: 07

Academic Year: 2018-20

[illegible]

**D. V. JAYARAJ**  
Professor & Head  
Department of ECE  
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### Student Achievements and Awards

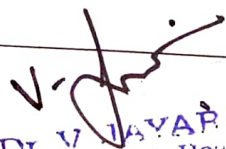
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Dr. V. JAYARAJ  
Professor & Head  
Department of ECF  
Nehru Inst. of Engg. & Technology  
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## TUTOR WARD MEETING DETAILS

Semester: 3



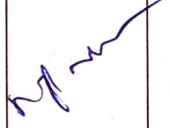

Date	Comments by students	Follow-up activities	Remarks by tutor	Tutor signature	HOD signature
29/6/17	class are going slow	informed advisor	* try to set first round		
3/8/17	Maths class are too fast	Informed the concerned teacher	* Enquire more activities		
19/8/17	Not able to understand apps	Informed to the teacher	* Study & communicate with faculty		

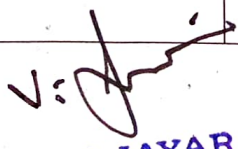
  
**DR. V. JAYARAJ**  
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## TUTOR WARD MEETING DETAILS

Semester: 4


Date	Comments by students	Follow-up activities	Remarks by tutor	Tutor signature	HOD signature
21/2/17	CSE class is new to understand	Informed the teacher	& met primary CSE man		
19/2/18	Maths class are too slow.	Informed the maths teacher	& met by near CSE man		

  
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## TUTOR WARD MEETING DETAILS

Semester: 5

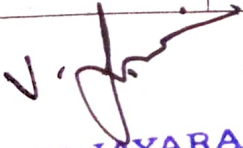
Date	Comments by students	Follow-up activities	Remarks by tutor	Tutor signature	H.O. signature
12/1/18	Difficulties in understanding the subject, because of not <sup>able to</sup> attend the classes	Informed the advisor, and faculties	Informed to the concerned Staff members	M. Zulfar	
10/8/18	Not able to understand the lab	Informed the concerned faculty			
22/9/18	Difficulty in understanding the pdsp. subject	Informed the concerned faculty	Informed to the concerned Staff members to solve more problem	M. Zulfar	
4/10/18 7/10/18	Exs classes are too slow	Informed the concerned faculty			

  
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## TUTOR WARD MEETING DETAILS


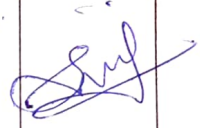

Semester: 6


Date	Comments by students	Follow-up activities	Remarks by tutor	Tutor signature	HOD signature
3/1/19	POM classes are interesting	Informed faculty	Informed to Eo faculty.	N. Jeyu Paul	
4/2/19	Difficult to understand VLSI	Informed the concerned faculty.	Informed to Eo Eo concern BRCJ members	N. Jeyu Paul	
3/3/19	CN is difficult to understand	informed the faculty	Informed to Eo Eo faculty	N. Jeyu Paul	
4/4/19	ACD derivations are difficult to understand	Informed the concerned faculty.	Informed to Eo concerned faculty.	N. Jeyu Paul	

  
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## TUTOR WARD MEETING DETAILS

Semester: 07





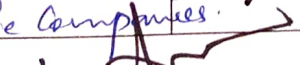
Date	Comments by students	Follow-up activities	Remarks by tutor	Tutor signature	HOD signature
5/7/19	<p>Attended the interview at core company &amp; discussed about the shortcomings &amp; difficulties, and felt the need to learn the basic concepts of electronics</p>	<p>informed the faculty &amp; revised the basic concepts of electronics</p>	<p>Advised to prepare &amp; solve more aptitude questions.</p>		
2/8/19	<p>Needed more training in programming concepts &amp; debugging in C, C++ for IT companies.</p> <p>And required specialised training from experts on advanced programming to crack placements.</p>	<p>discussed with HOD regarding extra training for C, C++ etc.</p> <p>Planned for conducting more training programs.</p>	<p>gave tips for attending interview in core companies.</p>		

  
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## TUTOR WARD MEETING DETAILS

Semester: 07

Date	Comments by students	Follow-up activities	Remarks by tutor	Tutor signature	HOD signature
22/8/19	<ul style="list-style-type: none"> <li>Felt the need for more number of core companies than IT, with decent salary package.</li> </ul>	<p>Discussed with overall placement coordinator regarding importance of Core Companies &amp; Expectations to students.</p>	<p>Advised to attend interviews of core companies in other college also.</p>		
16/9/19	<ul style="list-style-type: none"> <li>Required more specialised training on electronics equal to programming for good performance in placements.</li> <li>Needed training for competitive exams like, GATE, AMCAT etc.</li> </ul>	<p>Discussed with HOD &amp; Planning to conduct Gate Coaching in the class itself.</p>	<p>Tips given for preparing GATE, AMCAT etc.</p>		
17/10/19	<ul style="list-style-type: none"> <li>Not placed in CSS corp, discussed about the interview process &amp; felt the need for communication skill training.</li> </ul>	<p>Informed to HOD/S&amp;H for nominating faculty from English dept for giving Communication skill development.</p>	<p>Advised to attend further core companies.</p>		

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