Self-Assessment Report for Accreditation of B.E - Electrical and Electronics Engineering (TIER-I)

Volume 2

Report (SAR)

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Criterion - 8

First Year Academics





	CRITERION 8	First Year Academics	50
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8.1: First Year Student-Faculty Ratio (FYSFR, 5)

Data for first year courses to calculate the FYSFR:

Year	Number of Students (Approved intake strength)	**Number of Faculty Members (Considering fractional load)	FYSR	* Assessment = (5x20) / FYSFR (Limited to max. 5)
CAY (2022-23)	1140	79	15	5
CAYm1(2021-22)	1140	76	15	5
CAYm2 (2020-21)	1260	79	16	5
Average	1180	78	15	5

Table B.8.1.

** All faculties are dedicated to first year only

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Assessment of qualification = (5x + 3y)/RF, x = Number of Regular Faculty with Ph.D, y = Number of Regular Faculty with Post-graduate qualification, RF = Number of faculty members required as per SFR of 20:1, Faculty definition as defined in 5.1

Year	X (Number Of Regular Faculty with Ph.D)	Y (Number of Regular Faculty with Post graduate Qualification)	RF (Number of Faculty Members required as per SFR of 20:1)	* Assessment of Faculty qualification (5x+3y) / RF
CAY (2022-23)	21	40	57	3.00
CAYm1(2021-22)	20	32	57	3.00
CAYm2 (2020- 21)	25	43	63	4.00
Average			3.33	

Table B.8.2.



8.3 First Year Academic Performance (10)

Academic Performance	Information Science & Engineering			
	CAYm1 (2021-22)	CAYm2 (2020-21)	CAYm3 (2019-20)	
Mean of CGPA of all Successful students(x)	7.90	8.28	8.14	
Total no. of successful students(y)	116	118	117	
Total students appeared in the examination(Z)	126	123	125	
API=x*(y/Z)	7.27	7.94	7.62	
Average		7.61		

Academic Performance = ((Mean of 1^{st} Year Grade Point Grade Point Average of all successful students on a 10 point scale) or (Mean of the percentage of marks in first year of all successful students/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the second year.

8.4 Attainment of Course Outcome of First Year Courses

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Assessment Tool Type	Assessment Tool Title	Tool Description
Direct Assessment	Continuous Internal Evaluation (CIE)	This is used as an assessment tool to evaluate the attainment of course outcomes, through Assignments, Quizzes, Internal Assessment (Average of 3 Exams) which are conducted throughout the semester and designed in such a way that the evaluation of complete syllabus is covered. This is done for all courses of the semester.
	Laboratory Examinations	The performance in laboratory is evaluated through appropriate rubrics. The students are tested for their Confidence in terms of design of a system and experimentation. Ability of the students to analyze and interpret the results of experiments is continuously evaluated by the faculty during laboratory classes. The Strength of the students in using their skills and tools in the laboratory is also evaluated in external laboratory examinations.
	Semester End Examinations (SEE)	This tool examines at all cognitive levels the ability and understanding of the students with respect to the concepts taught and their applicability in solving complex Engineering problems. The ability of the students to understand and apply knowledge of



	mathematics,	science	and	engineering	concepts	in	solving
	engineering pr	oblems is	keenly	y evaluated.			

Table 8.4.1.a Tools used in measuring CO

CO Attainment	Weightage	Assessment Tools	
Overall CO Attainment	100%	Continuous Internal Evaluation CIE (50%)	
Direct Attainment		Semester End Examinations (SEE) (50%)	

Table 8.4.1.b Calculation of CO attainment

The individual COs of the courses is mapped with Correlation level and is being evaluated by prescribed assessment tools. The attainment of individual CO is calculated by assigning separate weightage to the continuous Internal Evaluation, Semester End examination, assignments and quizzes. The attainment of COs is compared with the target level. The CO is said to be attained if its attainment value is greater than or equal to target attainment level.

8.4.1.1. Theory Course Evaluation

Assignments, Quizzes, Internal assessment test, semester end examinations are conducted and evaluated

for (both theory and lab) integrated courses.

The distribution of marks for theory& Lab courses (Sample) is as given in table below.

Assessment Tool	Maximum	Marks Scaled	Weightage
7455C55mcnt 1001	Marks	to	
Assignments	15	15	
Quizzes	10	10	50%
Internal Assessment Exam (Avg of 3 Exams)	25	25	
Semester End Examination - Theory	100	50	50%
Everyday Lab session (Each Expt. 10 marks)	10	10	50%
Lab Internal Exam	15	15	
Semester End Examination - Lab	50	25	50%

Table 8.4.1.1. Distribution of marks for theory & Lab courses evaluation.



The Process for Assessment and Attainment of COs is described in the flowchart as shown in Flow Chart



Fig 8.4.1. Process of assessment and attainment of CO

8.4.2 Record the attainment of Course Outcomes of all First Year Courses (5)

Program shall have set attainment levels for all first-year courses. (The attainment levels shall be set considering average performance levels in the institution level examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect the COs of a subject plus the performance in the institution level examination)

Course	Attainm	CAYm2 (2017-18)	CAYm1 (2018-19)	CAY (2019-20)
course	ent	(2017-10)	(2010 1))	0.11 (2013 20)
	Level			
ics	0	less than 40% scored	less than 45% scored	less than 45% scored
nat		>=28	>=28	>=30
hen	1	40% to 49% scored	45% to 54% scored	45% to 54% scored
I		>=28	>=28	>=30
M pa	2	50% to 59% scored >=28	55% to 64% scored >=28	55% to 64% scored >=30
plie	3	60% and more	65% and more	65% and more
Ap		scored >=28	scored >=28	scored >=30
	0	less than 45% scored	less than 45% scored	less than 45% scored
50		>=38	>=28	>=30
cs sin	1	45% to 54% scored	45% to54% scored	45% to 54% scored
nee ysi		>=38	>=28	>=30
ligi Ph	2	55% to 64% scored >=38	55% to 64% scored >=28	55% to 64% scored >=30
E	3	65% and more	65% and more	65% and more
		scored >=38	scored >=28	scored >=30
	0	less than 42%	less than 44%	less than 45% scored
		scored>=25	scored>=25	>=30
f C ring	1	42% to 51%	44% to 53%	45% to 54% scored
ts o leel		scored>=25	scored>=25	>=30
lent	2	52% to 61% scored>=25	54% to 63% scored>=25	55% to 64% scored >=30
Er	3	62% and more	64% and more	65% and more
E		scored>=25	scored>=25	scored >=30
	0	less than 40% scored	less than 40% scored	less than 40% scored
-		>=36	>=25	>=28
ts ing	1	40% to49% scored	40% to 49% scored	40% to 49% scored
har		>=36	>=25	>=28
len Iec gin	2	50% to $59%$ scored >=36	50% to $59%$ scored >=25	50% to $59%$ scored >=28
En E	3	60% and more	60% and more	60% and more
•		scored >=36	scored >=25	scored >=28
	0	less than 45% scored	less than 50% scored	less than 51% scored
la r		>=23	>=25	>=28
ing	1	45% to54% scored	50% to 59% scored	51% to 61% scored
lect		>=23	>=25	>=28
sic E ngin	2	55% to 64% scored >=23	60% to 69% scored >=25	62% to 71% scored >=28
E	3	65% and more	70% and more	72% and more
	-	scored $\geq =23$	scored $\geq =25$	scored $\geq =28$
0	0		less than 50% scored	less than 50% scored
sic			>=15	>=18
hy	1		50% to59% scored	50% to59% scored
l g q		Included with Theory	>=15	>=18
erii La	2	as it is an integrated	60% to $69%$ scored >=15	60% to $69%$ scored >=18
ine		subject		
ng.	3		70% and more	70% and more
E	-		scored $\geq =15$	scored $>=18$

Attainment Levels: Internal Assessment



	0	No Lab Course	less than 40% scored >-15	less than 45% scored >-18
ectrical ing Lal	1		40% to49% scored	<pre>>=18</pre>
asic Ele gineeri	2		50% to 59% scored >=15	55% to 64% scored >=18
B: En	3		60% and more scored >=15	65% and more scored >=18
natics	0	less than 40% scored >=28	less than 45% scored >=28	less than 45% scored >=30
lathen II	1	40% to 49% scored >=28	45% to 54% scored >=28	45% to 54% scored >=30
ied M	2	50% to 59% scored >=28	55% to 64% scored >=28	55% to 64% scored >=30
Appli	3	60% and more scored >=28	65% and more scored >=28	65% and more scored >=30
nistry	0	less than 45% scored >=38	less than 45% scored >=28	less than 50% scored >=28
g Chei	1	45% to54% scored >=38	45% to54% scored >=28	50% to59% scored >=28
leering	2	55% to 64% scored >=38	55% to 64% scored >=28	60% to 69% scored >=28
Engin	3	65% and more scored >=38	65% and more scored >=28	70% and more scored >=28
to ith C	0	less than 40% scored >=38	less than 45% scored >=25	less than 40% scored >=25
iction ling w	1	40% to49% scored >=38	45% to54% scored >=25	40% to 49% scored >=25
amn	2	50% to 59% scored >=38	55% to 64% scored >=25	50% to 59% scored >=25
In Progr	3	60% and more scored >=38	65% and more scored >=25	60% and more scored >=25
ering	0	less than 40% scored>=27	less than 40% scored>=28	less than 40% scored>=29
d Engine ing	1	40% to 49% scored>=27	40% to 49% scored>=28	40% to 49% scored>=29
ter Aide Draw	2	50% to 59% scored>=27	50% to 59% scored>=28	50% to 59% scored>=29
Compu	3	60% and more scored>=27	60% and more scored>=28	60% and more scored>=29
S	0	less than 30% scored >=29	less than 30% scored >=30	less than 30% scored >=31
ctroni	1	30% to 39% scored >=29	30% to 39% scored >=30	30% to 39% scored >=31
ic Ele	2	40% to $49%$ scored >=29	40% to $49%$ scored >=30	40% to 49% scored >=31
Basi	3	50% and more scored >=29	50% and more scored >=30	50% and more scored >=31



U		0		less than 45% scored	less than 40% scored
in				>=13	>=13
ing l	-	1	Included with Theory	45% to54% scored	40% to49% scored
Ĩ	ab		as it is an integrated	>=13	>=13
ran	Η	2	subject	55% to 64% scored >=13	50% to 59% scored >=13
60		3		65% and more	60% and more
Р				scored $\geq =13$	scored $\geq =13$
		0		less than 50% scored	less than 55% scored
50	ab			>=15	>=15
lin	Ţ	1	Included with Theory	50% to59% scored	55% to64% scored
leel	stry		as it is an integrated	>=15	>=15
ngin	iemis	2	subject	60% to 69% scored >=15	65% to 70% scored >=15
H	Ċ	3		70% and more	75% and more
				scored $\geq =15$	scored $\geq =15$
nal		0	less than 32% scored	less than 34% scored	less than 35% scored
sio	uc		>=13	>=13	>=14
fes	atio	1	32% to 41% scored	34% to 43% scored	35% to 44% scored
r0	nic		>=13	>=13	>=14
1	Inu	2	42% to 51% scored	44% to 53% scored	45% to 54% scored
ess	I		>=13	>=13	>=14
lsin	00	3	52% and more	54% and more	55% and more
Bu	74		scored >=13	scored >=13	scored >=14
	les	0	less than 44%	Course removed and	Course removed and
Ital	ren		scored>=30	included in higher	included in higher
nen	wa	1	45% to 54%	semester	semester
und	A	2	scored>= 30		
virc	se &	2	35% to $64%$ scored>=30		
En	ienc	3	65% and more		
	Sc		scored>=30		



Course	Attainment	CAYm2	CAYm1	CAY			
course	Level	2017-18	2018-19	2019-20			
Is	0	less than 40%	less than 45% scored	less than 45% scored			
atic	1	scored >=56	>=56	>=60			
them:	1	40% to 49% scored >=56	45% to 54% scored >=56	45% to $54%$ scored >=60			
d Mat	2	50% to 59% scored >=56	55% to 64% scored >=56	55% to 64% scored >=60			
Applie	3	60% and more scored >=56	65% and more scored >=56	65% and more scored >=60			
sics	0	less than 45% scored >=76	less than 45% scored >=56	less than 45% scored >=60			
g Phys	1	45% to54% scored >=76	45% to54% scored >=56	45% to 54% scored >=60			
leering	2	55% to 64% scored >=76	55% to 64% scored >=56	55% to 64% scored >=60			
Engir	3	65% and more scored >=76	65% and more scored >=56	65% and more scored >=60			
	0	less than 42% scored>=50	less than 44% scored>=50	less than 45% scored >=60			
of Civil ering	1	42% to 51% scored>=50	44% to 53% scored>=50	45% to 54% scored >=60			
lements Engine	2	52% to 61% scored>=50	54% to 63% scored>=50	55% to 64% scored >=60			
	3	62% and more scored>=50	64% and more scored>=50	65% and more scored >=60			
	0	less than 40% scored >=72	less than 40% scored >=50	less than 40% scored >=56			
ıts nical ring	1	40% to49% scored >=72	40% to 49% scored >=50	40% to 49% scored >=56			
Elemer Mecha Ingineer	2	50% to 59% scored >=72	50% to 59% scored >=50	50% to 59% scored >=56			
10	3	60% and more scored >=72	60% and more scored >=50	60% and more scored >=56			
_	0	less than 45% scored >=46	less than 50% scored >=50	less than 51% scored >=56			
ectrica eering	1	45% to54% scored >=46	50% to 59% scored >=50	51% to $61%$ scored >=56			
asic El Engine	2	55% to 64% scored >=46	60% to 69% scored >=50	62% to 71% scored >=56			
ă)	3	65% and more scored >=46	70% and more scored >=50	72% and more scored >=56			

Attainment Levels: External Assessment



	0		less than 40% scored	less than 45% scored
al ab			>=30	>=36
g L	1		40% to49% scored	45% to54% scored >=36
ring		No Lob	>=30	
c E nee	2	INO Lab	50% to 59% scored	55% to $64%$ scored >=36
asi			>=30	
BB	3		60% and more	65% and more scored
	0		scored $\geq=30$	>=36
ics	0		less than 50% scored	less than 50% scored
ıys	1	T 1 1 1 14	>=30	>=36
E .	1	The array of the arr	50% to $59%$ scored	50% to $59%$ scored >=36
ing Lab	2	integrated subject	>=30	(00/4, (00/2,
I	2	integrated subject	50% to $59%$ scored	60% to $69%$ scored >=36
Bin	2	-	>-30	700/ 1 1
En	3		70% and more	10% and more scored $= 36$
Ξ	0	less than 40%	less than 45% scored	less than 45% scored
cs	0	scored $\geq = 56$	>=56	$\geq = 60$
nati	1	40% to 49% scored	45% to 54% scored	45% to 54% scored >=60
nen	-	>=56	>=56	
lat	2	50% to 59% scored	55% to 64% scored	55% to 64% scored >=60
N		>=56	>=56	
lie	2	(00/ 1	(50/	(50/
Vpp	3	scored $\geq = 56$	0.5% and more scored >=56	>=60
x	0	less than 45%	less than 45% scored	less than 50% scored
uist	0	scored $\geq = 76$	>=56	>=56
lem	1	45% to 54% scored	45% to 54% scored	50% to 59% scored >=56
Ċ		>=76	>=56	
ing	2	55% to 64% scored	55% to 64% scored	60% to 69% scored >=56
leer		>=76	>=56	
gi	3	65% and more	65% and more	70% and more scored
En		scored >=76	scored >=56	>=56
U	0	less than 40%	less than 45% scored	less than 40% scored
to Vith		scored >=76	>=50	>=50
ion v	1	40% to49% scored	45% to54% scored	40% to $49%$ scored >=50
nin	2	>=76	>=50	500/ 4 500/ 1 > 50
rod a m	2	50% to 59% scored $>=76$	>=50 to 64% scored	50% to $59%$ scored >= 50
lntı gr:	3	60% and more	5% and more	60% and more scored
Pro	5	scored $\geq =76$	scored >=50	>=50
50	0	less than 40%	less than 40%	less than 40%
iri	0	scored>=54	scored>=56	scored>=58
inee				
in in	1	40% to 49%	40% to 49%	40% to 49%
d E ving		scored>=54	scored>=56	scored>=58
ide raw	2	500/ / 500/	500/ / 500/	500/ / 500/
D	∠ _	50% 10 59%	30% 10 39%	50% 10.59%
ute	3	60% and more	60% and more	60% and more
du		scored>=54	scored>=56	scored>=58
Co				



	0	less than 30%	less than 30% scored	less than 30% scored			
ics		scored >=58	>=60	>=62			
troni	1	30% to 39% scored >=58	30% to 39% scored >=60	30% to 39% scored >=62			
ic Elec	2	40% to 49% scored >=58	40% to 49% scored >=60	40% to $49%$ scored >=62			
Basi	3	50% and more scored >=58	50% and more scored >=60	50% and more scored >=62			
r C &	0		less than 45% scored >=26	less than 40% scored >=26			
ning in Ictures	1	Included with	45% to54% scored >=26	40% to49% scored >=26			
gramn a Stru	2	integrated subject	55% to 64% scored >=26	50% to 59% scored >=26			
Prog Dat	3		65% and more scored >=26	60% and more scored >=26			
eering try Lab	0		less than 50% scored >=30	less than 55% scored >=30			
	1	Included with Theory as it is an	50% to59% scored >=30	55% to64% scored >=30			
Engin	2	integrated subject	60% to 69% scored >=30	65% to 70% scored >=30			
	3		70% and more scored >=30	75% and more scored >=30			
sional on	0	less than 32% scored >=26	less than 34% scored >=26	less than 35% scored >=28			
Profes nicati	1	32% to 41% scored >=26	34% to 43% scored >=26	35% to 44% scored >=28			
less /] mmu	2	42% to 51% scored >=26	44% to 53% scored >=26	45% to 54% scored >=28			
Busir cc	3	52% and more scored >=26	54% and more scored >=26	55% and more scored >=28			
tal reness	0	less than 44% scored>=60	Course removed and included in higher	Course removed and included in higher			
nmen Awai	1	45% to 54% scored>=60	semester	semester			
nviro. Ice &	2	55% to 64% scored>=60					
E	3	65% and more scored>=60					

Table 8.4.2.

8.4.2.1 Calculations

Direct Attainment (DA) =

Semester End Examination * 0.5 + Continuous Internal Assessment *

0.5

Total Attainment = DA



8.4.2.2 The following table shows the attainment of course outcome. CO Attainment 2017-18

			Direct Att	ainment		
S. No.	Course Code	Course Name	C IE Evaluations	Semester End Exam	Overall CO attainment	
1	MAT11	Engineering Mathematics I	3	3	3	
2	PHY12/22	Engineering Physics	3	3	3	
3	MEE13/23	Elements of Mechanical Engineering	3	3	3	
4	CIV14/24	Elements of Civil Engineering	3	3	3	
5	EEE15/25	Basic Electrical Engineering	3	3	3	
6	HSS162/262	Professional Communication	3	3	3	
7	MAT21	Engineering Mathematics II	3	3	3	
8	CHE12/22	Engineering Chemistry	3	3	3	
9	CSE13/23	Introduction to Programming with C	3	3	3	
10	MEE14/24	Computer Aided Engineering Drawing	3	3	3	
11	ECE15/25	Basic Electronics	3	2.8	2.9	
12	HSS161/261	Environmental Science & Awareness	3	3	3	

Table 8.4.2.1a CO Attainment CAYm2 (2017-18)

CO Attainment 2018-19



			Direct Atta	inment	
S. No.	Course Code	Course Name	C IE Evaluations	Semester End Exam	Overall CO attainment
1	18MAT11	Applied Mathematics I	3	3	3
2	18PHY12/22	Engineering Physics	3	3	3
3	18MEE13/23	Elements of Mechanical Engineering	3	3	3
4	18CIV14/24	Elements of Civil Engineering	3	3	3
5	18EEE15/25	Basic Electrical Engineering	3	2.6	2.8
6	18PHL16/26	Engineering Physics Lab	3	3	3
8	18EEL17/27	Basic Electrical Engineering Lab	3	3	3
9	18MAT21	Applied Mathematics II	3	3	3
10	18CHE12/22	Engineering Chemistry	3	3	3
11	18CSE13/23	Introduction to Programming with C	3	2.8	2.9
12	18MEE14/24	Computer Aided Engineering Drawing	3	2.8	2.9
13	18ECE15/25	Basic Electronics	3	3	3
14	18CHL17/27	Engineering Chemistry Lab	3	3	3
15	18CSL18/28	Programming with C Lab	3	3	3
16	18HSS16/26	Professional Communication	3	3	3

 Table 8.4.2.1b CO Attainment CAYm1 (2018-19)

CO Attainment 2019-20

			Direct Att	Direct Attainment				
S. No.	Course Code	Course Name	C IE Evaluations	Semester End Exam	Overall CO attainment			

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1	19MAT11	Applied Mathematics I	3	3	3
2	19PHY12/22	Engineering Physics	3	3	3
3	19MEE13/23	Elements of Mechanical Engineering	3	3	3
4	19CIV14/24	Elements of Civil Engineering	3	2.8	2.9
5	19EEE15/25	Basic Electrical Engineering	3	3	3
6	19PHL16/26	Engineering Physics Lab	3	3	3
8	19EEL17/27	Basic Electrical Engineering Lab	3	2.4	2.7
9	19MAT21	Applied Mathematics II	3	3	3
10	19CHE12/22	Engineering Chemistry	3	3	3
11	19CSE13/23	Introduction to Programming with C	3	2.7	2.9
12	19MEE14/24	Computer Aided Engineering Drawing	3	3	3
13	19ECE15/25	Basic Electronics	3	2.8	2.9
14	19CHL17/27	Engineering Chemistry Lab	3	3	3
15	19CSL18/28	Programming with C Lab	3	3	3
16	19HSS271	Professional Communication	3	3	3

Table 8.4.2.1c CO Attainmen	nt CAY	(2019-20)
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8.5. Attainment of Program Outcomes from first year courses (20)

8.5.1. Indicate results of evaluation of each relevant PO and/or PSO if applicable(10)

The relevant program outcomes that are to be addressed at first year need to be identified by the institution Program Outcome attainment levels shall be set for all relevant POs and/or PSOs through first year courses.

(Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained through first year courses and document the attainment levels. Also include



information on assessment processes used to gather the data upon which the evaluation of each Program Outcome is based indicating the frequency with which these processes are carried out)

The process to assess the attainment of the Program Outcomes and Program Specific Outcomes begins with the assessments of course outcomes attainment. The assessment of POs /PSOs during first year involves direct methods of assessment only.

	Assessment method	Assessment Tool	Frequency		
POs/PSOs attainment	Direct Method	Course outcomes attainment	At end of every semester		

DAC collects the data for internal and external assessment of POs and PSOs from the respective source and calculate the attainment. Direct assessment level of POs and PSOs is determined by taking average of course attainment level across all courses addressing that PO and/or PSO.



Course Code	Course Name	P01	P02	PO3	P04	PO5	904	P07	PO8	909	PO 10	PO 11	PO 12
MAT11	Engineering Mathematics I	3	3	3	2	2	-	-	-	-	1	-	3
PHY12/22	Engineering Physics	3	2	2	-	-	-	-	-	2	-	-	1
MEE13/23	Elements of Mechanical Engineering	3	1	3	-	3	2	1	-	-	3	-	1
CIV14/24	Elements of Civil Engineering	3	2	1	1	-	-	-	-	-	-	-	1
EEE15/25	Basic Electrical Engineering	3	3	2	2	-	-	-	-	-	2	1	-
MAT21	Engineering Mathematics II	3	3	3	3	3	-	-	-	1	3	-	3
CHE12/22	Engineering Chemistry	3	3	-	-	-	-	3	-	-	-	-	3
CSE13/23	Introduction to Programming with C	3	3	3	1	3	-	-	-	3	1	-	1
MEE14/24	Computer Aided Engineering Drawing	2	-	2	2	1	-	-	-	-	2	-	2
ECE15/25	Basic Electronics	3	2	2	-	-	-	-	-	-	-	-	-
HSS161/261	Environmental Science and Awareness	3	3	-	3	-	-	3	2	-	-	-	-
HSS162/262	Professional Communication	-	-	-	-	-	-	-	3	2	3	-	3
Avg.		2.9	2.5	2.3	2.0	2.4	2.0	2.3	2.5	2.0	2.1	1.0	2.0

Programme Articulation Matrix 2017-18

 Table 8.5.1.1a Programme Articulation Matrix 2017-18



Course	Course Name	P01	P02	P03	P04	P05	P06	P07	P08	909	PO 10	PO 11	PO 12
18MAT11	Applied Mathematics I	3	3	3	2	2	-		-	-	2	-	3
18PHY12/22	Engineering Physics	3	2	2	-	-	-	-	-	2	-	-	1
18MEE13/23	Elements of Mechanical Engineering	3	1	3	-	3	2	1	-	-	3	-	1
18CIV14/24	Elements of Civil Engineering	3	2	1	1	-	-	-	-	-	-	-	1
18EEE15/25	Basic Electrical Engineering	3	3	2	1	1	-	-	1	-	-	2	-
18PHL16/26	Engineering Physics Lab	3	2	2	-	-	-	-	-	2	-	-	1
18EEL17/27	Basic Electrical Engineering Lab	3	3	2	1	1	-	-	3	-	-	-	2
18MAT21	Applied Mathematics II	3	3	3	3	3	-	-	-	1	3	-	3
18CHE12/22	Engineering Chemistry	3	3	-	-	-	-	3	-	-	-	-	3
18CSE13/23	Introduction to Programming with C	3	3	3	1	3	-	-	-	3	1	-	1
18MEE14/24	Computer Aided Engineering Drawing	2	-	2	2	1	-	-	-	-	2	-	2
18ECE15/25	Basic Electronics	3	2	2	-	-	-	-	-	-	-	-	-
18CHL17/27	Engineering Chemistry Lab	3	3	-	-	-	-	3	-	-	-	-	3
18CSL18/28	Programming with C Lab	3	3	3	3	3	-	-	-	3	-	-	3
18HSS16/26	Professional Communication	-	-	-	-	-	-	-	3	2	3	-	3
Avg.		2.9	2.5	2.3	1.8	2.1	2.0	2.3	3.0	2.2	2.3	2.0	2.1

Programme Articulation Matrix 2018-19

 Table 8.5.1.1b Programme Articulation Matrix 2018-19



Course	Course Name	P01	P02	PO3	P04	PO5	PO6	P07	PO8	909	PO 10	PO 11	PO 12
19MAT11	Applied Mathematics I	3	3	3	3	-	-	-	-	2	3	-	3
19PHY12/22	Engineering Physics	3	2	-	-	2	1	-	-	2	-	-	1
19MEE13/23	Elements of Mechanical Engineering	3	1	3	-	3	2	1	-	-	3	-	1
19CIV14/24	Elements of Civil Engineering	3	2	1	1	-	-	-	-	-	-	-	1
19EEE15/25	Basic Electrical Engineering	3	3	-	2	1	-	-	-	-	-	I	-
19PHL16/26	Engineering Physics Lab	3	2	2	-	2	1	-	-	2	-	-	1
19EEL17/27	Basic Electrical Engineering Lab	3	3	2	2	1	-	-	-	2	2	-	-
19MAT21	Applied Mathematics II	3	3	3	3	3	-	-	-	1	3	-	3
19CHE12/22	Engineering Chemistry	3	2	-	-	-	-	2	-	-	-	-	2
19CSE13/23	Introduction to Programming with C	3	3	3	1	3	-	-	-	3	1	I	1
19MEE14/24	Computer Aided Engineering Drawing	2	-	2	2	1	-	-	-	-	2	-	2
19ECE15/25	Basic Electronics	3	3	3	-	-	-	-	-	-	-	I	-
19CHL17/27	Engineering Chemistry Lab	3	-	-	-	-	-	-	-	-	-	-	3
19CSL18/28	Programming with C Lab	3	3	3	3	3	-	-	-	3	-	-	3
19HSS271	Professional Communication	-	-	-	-	-	-	-	3	3	3	-	3
Avg.		2.93	2.50	2.50	2.13	2.11	1.33	1.50	3.00	2.25	2.43	-	2.00

Programme Articulation Matrix 2019-20

 Table 8.5.1.1c Programme Articulation Matrix 2019-20



Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
MAT11	3	3	3	3	3	-	-	-	-	3	-	3
PHY12/22	3	3	3	-	-	-	-	-	3	-	-	3
MEE13/23	3	3	3	-	3	3	3	-	-	3		3
CIV14/24	3	3	3	-	-	-	-	-	-	-	-	3
EEE15/25	3	3	3	3	-	-	-	-	-	3	3	-
MAT21	3	3	3	3	3	-	-	-	3	3	-	3
CHE12/22	3	3	-	-	-	-	3	-	-	-	-	3
CSE13/23	3	3	3	3	3	-	-	-	3	3	-	3
MEE14/24	3	-	3	3	3	-	-	-	-	3	-	3
ECE15/25	2.86	2.75	2.75	-	-	-	-	-	-	-	-	-
HSS161/261	2.9	3	-	3	-	-	2.9	3	-	-	-	-
HSS162/262	-	-	-	-	-	-	-	3	3	3	-	3
Direct Attainment	2.98	2.97	2.97	3	3	3	2.97	3	3	3	3	3

PO Attainment (2017-18)

Table 8.5.1.2a PO Attainment (2017-18)



PO Attainment	(2018-19)
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Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
18MAT11	3	3	3	3	3	-	-	-	-	3	-	3
18PHY12/22	3	3	3	-	-	-	-	-	3	-	-	3
18MEE13/23	3	3	3	-	3	3	3	-	-	3	-	3
18CIV14/24	3	3	3	3	-	-	-	-	-	-	-	3
18EEE15/25	2.81	2.81	2.81	2.81	2.81	-	-	2.7	-	-	2.92	2.7
18PHL16/26	3	3	3	-	-	-	-	-	3	-	-	3
18EEL17/27	3	3	3	3	3	3	3	3	-	-	-	3
18MAT21	3	3	3	3	3	-	-	-	3	3	-	3
18CHE12/22	3	3	-	-	-	-	3	-	-	-	-	3
18CSE13/23	2.815	2.75	2.75	2.75	2.82	-	-	-	2.82	2.795	-	2.81
18MEE14/24	3	-	2.56	3	3	-	-	-	-	3	-	3
18ECE15/25	2.845	2.87	2.87	-	-	-	-	-	-	-	-	-
18CHL17/27	3	3	-	-	-	-	3	-	-	-	-	3
18CSL18/28	3	3	3	3	3	-	-	-	3	-	-	3
18HSS16/26	-							3	3	3	-	3
Direct Attainment	2.96	2.96	2.91	2.94	2.95	3	3	2.95	2.97	2.96	2.92	2.98

Table 8.5.1.2b PO Attainment (2018-19)



PO Attainment (2019-20)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
19MAT11	3	3	3	3	-	-	-	-	3	3	-	3
19PHY12/22	3	3	-	-	3	3	-	-	3	-	-	3
19MEE13/23	3	3	3	-	3	3	3	-	-	3	-	3
19CIV14/24	3	3	3	3.0								3.0
19EEE15/25	3	3	-	3	3	-	-	-	-	-	-	-
19PHL16/26	3	3	3	-	3	3	-	-	3	-	-	3
19EEL17/27	2.8	2.8	2.8	2.8	2.8				2.84	2.84		
19MAT21	3	3	3	3	3	-	-	-	3	3	-	3
19CHE12/22	3	3	-	-	-	-	3	-	-	-	-	3
19CSE13/23	2.5	2.4	2.5	3.0	2.6	-	-	-	2.55			2.51
19MEE14/24	3.0	-	3.0	3.0	3	-	-	-	-	3	-	3
19ECE15/25	2.9	2.9	2.8	-	-	-	-	-	-	-	-	-
19CHL17/27	3	-	-	-	-	-	-	-	-	-	-	3
19CSL18/28	2.8	2.8	2.8	2.8	2.8				2.8			2.8
19HSS271	-	-	-	-	-	-	-	3	3	3	-	3
Direct Attainment	2.93	2.91	2.89	2.95	2.91	3	3	3	2.9	2.97	-	2.94

Table 8.5.1.2c PO Attainment (2019-20)

Target Attainment Level

Target Attainment	2017-18	2018-19	2019-20
Level	2.4	2.6	2.7

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8.5.2. Actions taken based on the results of evaluation of relevant Pos (5):

PO Attainment Levels and Actions for improvement: 2017-18

РО	Target Level	Attainment Level	Observations						
PO-1: Engineering knowledge : Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.									
PO-1	2.4	2.96	Target Achieved						
Tour of NHCE labs was organized to first year students									
РО	Target Level	Attainment Level	Observations						
PO-2: Problem analysis : Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.									
PO-2	2.4	2.96	Target Achieved						
Organized E (TIFR)Bang Raman Rese	Organized Expert Lectures from leading R & D organizations such as Tata Institute of Fundamental Research (TIFR)Bangalore, International Researchers (USA), National Aerospace Laboratories (NAL) Bangalore, Raman Research institute (RRI) Bangalore								
РО	Target Level	Attainment Level	Observations						
PO-3: Desig system comp health and se	PO-3: Design/development of solutions : Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.								
PO-3	2.4	2.91	Target Achieved						
Students of	the first year atter	nded a "Lecture on PLO	C (Programmable Logic Controller) & SCADA						
РО	Target Level	Attainment Level	Observations						
PO-4: Cond including de provide vali	luct investigation sign of experime d conclusions.	ns of complex problem ents, analysis and interp	ns: Use research-based knowledge and research methods pretation of data, and synthesis of the information to						
PO-4	2.4	2.94	Target Achieved						
The signification	nce of literature s	survey was outlined to	students						
РО	Target Level	Attainment Level	Observations						



PO-5: Mod engineering understandin	ern tool usage: C and IT tools incl ng of the limitatio	Treate, select, and apply uding prediction and m ons.	appropriate techniques, resources, and modern odeling to complex engineering activities with an						
PO-5	2.4	2.95	Target Achieved						
Students of th	Students of the first year attended a lecture "Demonstration of Cisco Lab and MATLAB"								
РО	Target Level	Attainment Level	Observations						
PO-6: The c health, safet engineering	PO-6: The engineer and society : Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.								
PO-6	2.4	3	Target Achieved						
Engineers p making is v emphasized also outlined	Engineers primary obligation is to protect the safety, health and welfare of the public. Engineers decision making is very important because the ultimate beneficiary is the general public or society at large. This was emphasized through the course Constitution of India and Professional Ethics. Three weeks induction program also outlined the contribution of engineers to the society								
РО	Target Level	Attainment Level	Observations						
PO-7: Envir societal and developmen	ronment and Su environmental co t.	stainability: Understar ontexts, and demonstra	nd the impact of the professional engineering solutions in te the knowledge of, and need for sustainable						
PO-7	2.4	3	Target Achieved						
Students of management?	the first year att	ended "A talk and d	emonstration through videos on waste						
РО	Target Level	Attainment Level	Observations						
PO-8: Ethic the engineer	s: Apply ethical pring practice.	principles and commit	to professional ethics and responsibilities and norms of						
PO-8	2.4	2.95	Target Achieved						
Ethics will gu role in instill This is also re	ide the engineers ing discipline and eemphasized thro	s to mould the personal d facilitating students t ugh the course Constit	ity trait of an individual which will play a key to become a responsible citizen of the nation. ution of India and Professional Ethics						

РО	Target Level	Attainment Level	Observations
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PO-9: Ind diverse tea	ividual and tean ums, and in multio	n work: Function effec disciplinary settings.	tively as an individual, and as a member or leader in						
PO-9	2.4	2.97	Target Achieved						
As part of t in the group	As part of the self-study evaluation, students were assigned the small projects in groups; working in the groups enabled them to understand the intricacies of team work and decision-making process								
РО	Target Level	Attainment Level	Observations						
PO-10: Co community design doc	PO-10: Communication : Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.								
РО- 10	2.4	2.96	Target Achieved						
The "Cente possible cor	The "Center for Soft Skills and Life Long Learning" ensures the students are equipped with all possible communication tools								
РО	Target Level	Attainment Level	Observations						
PO-11: Pr and manag manage pr	oject manageme gement principles ojects and in mul	ent and finance: Demo and apply these to one tidisciplinary environn	nstrate knowledge and understanding of the engineering 's own work, as a member and leader in a team, to nents.						
PO- 11	2.4	2.92	Target Achieved						
Students ge actively in t projects in §	t hands on experi he Curricular, Co groups as part of	ence on managing sma o-curricular and Techni the self-study evaluatio	ll group tasks and associated finances by participating cal clubs. Technically too students were assigned the small n, which teaches the nuances of project management						
РО	Target Level	Attainment Level	Observations						
PO-12: Li independe	fe-long learning nt and life-long le	Recognize the need for earning in the broadest	or, and have the preparation and ability to engage in context of technological change.						
PO- 12	2.4	2.99	Target Achieved						
The "Center	r for Soft Skills a	nd Life Long Learning	" conducts various activities						



Attainment Levels and Actions for improvement: 2018-19

РО	Target Level	Attainment Level	Observations							
PO-1: Engi	PO-1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals,									
and an engir	and an engineering specialization to the solution of complex engineering problems.									
PO-1	2.6	2.96	Target Achieved							
Emphasized the Labs rela	Emphasized the role of fundamental sciences in engineering domain by conducting the virtual tours of the Labs related to Engineering department									
РО	Target Level	Attainment Level	Observations							
PO-2: Prob	lem analysis: Ide	entify, formulate, revie	w research literature, and analyze complex engineering							
problems rea engineering	problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.									
PO-2	2.6	2.96	Target Achieved							
Organized Ex (TIFR)Banga Raman Resea	Drganized Expert Lectures from leading R & D organizations such as Tata Institute of Fundamental Research TIFR)Bangalore, International Researchers (USA), National Aerospace Laboratories (NAL) Bangalore, Raman Research institute (RRI) Bangalore.									
РО	Target Level	Attainment Level	Observations							
PO-3: Desig system comp	n/development of ponents or process	of solutions: Design so sses that meet the speci	lutions for complex engineering problems and design fied needs with appropriate consideration for the public							
health and s	afety, and the cul	tural, societal, and env	ironmental considerations.							
PO-3	2.6	2.91	Target Achieved							
Workshop o	n CAED was cor	nducted to the students.								
Using the In the students of the semes	dustry Institute la were assigned th ster	abs students were demo e small projects as self	onstrated the solution for engineering problems. As well study and the project exhibition was conducted at the end							
РО	Target Level	Attainment Level	Observations							
PO-4: Cond including de provide vali	PO-4: Conduct investigations of complex problems : Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.									
PO-4	2.6	2.94	Target Achieved							
The significat	nce of literature s	survey was outlined to	students							
РО	Target Level	Attainment Level	Observations							



PO-5: Mode engineering	ern tool usage: C and IT tools incl	Create, select, and apply uding prediction and m	appropriate techniques, resources, and modern odeling to complex engineering activities with an					
PO-5	ng of the limitation 2.6	2.95	Target Achieved					
	1.1							
The product a	and design applic	ations were demonstrat	ted using CISCO Lab and MATLAB tool					
РО	Target Level	Attainment Level	Observations					
PO-6: The engineer and society : Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.								
PO-6	2.6	3	Target Achieved					
Engineers pri making is ver emphasized t also outlined	Engineers primary obligation is to protect the safety, health and welfare of the public. Engineers decision naking is very important because the ultimate beneficiary are the general public or society at large. This was emphasized through the course Constitution of India and Professional Ethics. Three weeks induction program also outlined the contribution of engineers to the society							
РО	Target Level	Attainment Level	Observations					
PO-7: Envir societal and developmen	ronment and Sus environmental co t.	stainability: Understar ontexts, and demonstra	nd the impact of the professional engineering solutions in te the knowledge of, and need for sustainable					
PO-7	2.6	3	Target Achieved					
The electroni ecological ba	c waste managen lance was demon	nent and its need in the strated through Videos	current digital world impacting the					
РО	Target Level	Attainment Level	Observations					
PO-8: Ethic the engineer	s: Apply ethical j ing practice.	principles and commit	to professional ethics and responsibilities and norms of					
PO-8	2.6	2.95	Target Achieved					
Ethics will gu role in instill This is also re	iide the engineers ing discipline and eemphasized thro	s to mould the personal d facilitating students t ugh the course Constitu	ity trait of an individual which will play a key o become a responsible citizen of the nation. ution of India and Professional Ethics.					

PO Target Level	Attainment Level	Observations
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PO-9: Individual and team work : Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.								
PO-9	PO-9 2.6 2.97 Target Achieved							
As part of the the groups en	As part of the self study evaluation, students were assigned the small projects in groups ;working in the groups enabled them to understand the intricacies of team work and decision making process							
PO Target Level Attainment Level Observations								
PO-10: Communication : Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.								
PO-10	2.6	2.96	Target Achieved					
The "Center 1 possible com	for Soft Skills and munication tools	d Life Long Learning"	ensures the students are equipped with all					
РО	Target Level	Attainment Level	Observations					
PO-11: Pro and manage projects and	ject managemen ment principles a in multidisciplin	t and finance: Demon nd apply these to one's ary environments.	strate knowledge and understanding of the engineering s own work, as a member and leader in a team, to manage					
PO-11	2.6	2.92	Target Achieved					
Students get hands on experience on managing small group tasks and associated finances by participating actively in the Curricular, Co-curricular and Technical clubs. Technically too students were assigned the small projects in groups as part of the self study evaluation, which teaches the nuances of project management								
РО	Target Level	Attainment Level	Observations					
PO-12: Life-long learning : Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.								
PO-12	2.6	2.99	Target Achieved					
The "Center for Soft Skills and Life Long Learning" conducts various activities								



8.5.2 PO Attainment Levels and Actions for improvement: 2019-20

РО	Target Level	Attainment Level	Observations				
PO-1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals,							
and an engineering specialization to the solution of complex engineering problems.							
PO-1	PO-1 2.7 2.93 Target Achieved						
An online v code-A met	An online virtual tour of the computer lab was conducted for first year students and a Lecture on Pseudo code-A method for designing Software was delivered						
РО	Target Level	Attainment Level	Observations				
PO-2: Prob	PO-2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering						
problems re	aching substantia	ted conclusions using t	first principles of mathematics, natural sciences, and				
engineering	sciences.						
PO-2	2.7	2.91	Target Achieved				
Experts from guest talk for to solve those	n leading research or the students em se problems with	h organizations, indust phasizing on bridging engineering tool	ry and institutes of National importance delivered the the gap of fundamental science with applied science and				
РО	Target Level	Attainment Level	Observations				
PO-3: Desig	gn/development	of solutions: Design so	plutions for complex engineering problems and design				
system com	ponents or proces	sses that meet the speci	fied needs with appropriate consideration for the public				
health and s	afety, and the cul	tural, societal, and env	ironmental considerations.				
PO-3	2.7	2.89	Target Achieved				
Students we Industry Ins	ere delivered an o titute - Big Data	nline Lecture on "Why and Data Analytics Lal	Python is Essential for Data Analysis" in connection with b: HP Vertica Lab				
РО	Target Level	Attainment Level	Observations				
PO-4: Cond	luct investigation	ns of complex problen	ns: Use research-based knowledge and research methods				
including de	esign of experime	ents, analysis and interp	pretation of data, and synthesis of the information to				
provide vali	d conclusions.						
PO-4	2.7	2.95	Target Achieved				
The significa webinars	nce of literature s	survey was outlined to	students and students were invited to join the online				
РО	Target Level	Attainment Level	Observations				
PO-5: Mod	ern tool usage: C	Create, select, and apply	/ appropriate techniques, resources, and modern				
engineering	and IT tools incl	uding prediction and m	nodeling to complex engineering activities with an				
understandi	ng of the limitatio	ons.					
PO-5	2.7	2.91	Target Achieved				
Students of fi modern tool 1	irst year were giv usage	en an online lecture on	"Virtualization Essentials and the				
РО	Target Level	Attainment Level	Observations				
PO-6: The	engineer and soc	iety: Apply reasoning	informed by the contextual knowledge to assess societal,				
health, safet	y, legal and cultu	ral issues and the cons	equent responsibilities relevant to the professional				
engineering	practice.		- *				
PO-6	2.7	3	Target Achieved				
The motivational talks by the industry experts emphasized the value system and the difference engineers could bring in the society. This was also emphasized through the course Constitution of India and Professional Ethics							



РО	Target Level	Attainment Level	Observations			
PO-7: Environment and Sustainability: Understand the impact of the professional engineering solutions in						
societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable						
development.						
PO-7	2.7	3	Target Achieved			
An online aw students of fin	areness lecture o rst year was cond	n "Environmental Impa lucted	acts of Computer Technology" for the			
РО	Target Level	Attainment Level	Observations			
PO-8: Ethic	s: Apply ethical	principles and commit	to professional ethics and responsibilities and norms of			
the engineer	ing practice.					
PO-8	2.7	3	Target Achieved			
This is also re	eemphasized thro	ugh the course Constit	ution of India and Professional Ethics.			
РО	Target Level	Attainment Level	Observations			
PO-9: Indiv	idual and team	work: Function effecti	vely as an individual, and as a member or leader in			
diverse team	ns, and in multidi	sciplinary settings.				
PO-9	2.7	2.9	Target Achieved			
In order to ga the groups en the team spiri	In order to gain the activity points, students choose the tasks to be performed in groups ;working in the groups enabled them to understand the functioning of team and facilitated them to inculcate the team spirit					
PO	Target Level	Attainment Level	Observations			
PO-10: Con	nmunication: Co	mmunicate effectively	on complex engineering activities with the engineering			
community	and with society	at large, such as, being	able to comprehend and write effective reports and			
design docu	mentation, make	effective presentations	, and give and receive clear instructions.			
PO-10	2.7	2.97	Target Achieved			
At frequent in programmes	ntervals the the "(to ensure the stud	Center for Soft Skills at lents are equipped with	nd Life Long Learning" will conduct various all possible communication tools			
РО	Target Level	Attainment Level	Observations			
PO-11: Pro	iect managemen	t and finance: Demon	strate knowledge and understanding of the engineering			
and manage	ment principles a	and apply these to one's	s own work, as a member and leader in a team, to manage			
projects and	in multidisciplin	ary environments.				
PO-11	-	-	Target Achieved			
Students get hands on experience on managing small group tasks and associated finances by participating actively in the Curricular, Co-curricular and Technical clubs. Students activity points initiative will enable them hands on experience of managing finances						
РО	Target Level	Attainment Level	Observations			
PO-12: Life	-long learning: 1	Recognize the need for	, and have the preparation and ability to engage in			
independent	and life-long lea	rning in the broadest c	ontext of technological change.			
PO-12 2.7 2.94 Target Achieved						
The "Center f	The "Center for Soft Skills and Life Long Learning" conducts various activities					



Criterion-8 First Year Academics



CRITERION 8	First Year Academics	50
		•

8.1: First Year Student-Faculty Ratio (FYSFR, 5)

Data for first year courses to calculate the FYSFR:

Year	Number of Students (Approved intake strength)	**Number of Faculty Members (Considering fractional load)	FYSR	* Assessment = (5x20) / FYSFR (Limited to max. 5)
CAY (2022-23)	1140	79	14	5
CAYm1(2021-22)	1140	76	15	5
CAYm2 (2020-21)	1260	79	16	5
Average	1180	78	15	5

Table B.8.1.

** All faculties are dedicated to first year only

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Assessment of qualification = (5x + 3y)/RF, x = Number of Regular Faculty with Ph.D, y = Number of Regular Faculty with Post-graduate qualification, RF = Number of faculty members required as per SFR of 20:1, Faculty definition as defined in 5.1

Year	X (Number Of Regular Faculty with Ph.D)	Y (Number of Regular Faculty with Post graduate Qualification)	RF (Number of Faculty Members required as per SFR of 20:1)	* Assessment of Faculty qualification (5x+3y) / RF
CAY (2022-23)	21	40	57	3.00
CAYm1(2021-22)	20	32	57	3.00
CAYm2 (2020- 21)	25	43	63	4.00
Average			3.33	

Table B.8.2.



8.3 First Year Academic Performance (10)

Academic Performance	Information Science & Engineering			
	CAYm1 (2021-22)	CAYm2 (2020-21)	CAYm3 (2019-20)	
Mean of CGPA of all Successful students(x)	8.13	8.40	8.27	
Total no. of successful students(y)	118	122	129	
Total students appeared in the examination(Z)	128	136	139	
API=x*(y/Z)	7.49	7.54	7.68	
Average		7.57		

Academic Performance = ((Mean of 1^{st} Year Grade Point Grade Point Average of all successful students on a 10 point scale) or (Mean of the percentage of marks in first year of all successful students/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the second year.

8.4 Attainment of Course Outcome of First Year Courses

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Assessment Tool Type	Assessment Tool Title	Tool Description
Direct Assessment	Continuous Internal Evaluation (CIE)	This is used as an assessment tool to evaluate the attainment of course outcomes, through Assignments, Quizzes, Internal Assessment (Average of 3 Exams) which are conducted throughout the semester and designed in such a way that the evaluation of complete syllabus is covered. This is done for all courses of the semester.
	Laboratory Examinations	The performance in laboratory is evaluated through appropriate rubrics. The students are tested for their Confidence in terms of design of a system and experimentation. Ability of the students to analyze and interpret the results of experiments is continuously evaluated by the faculty during laboratory classes. The Strength of the students in using their skills and tools in the laboratory is also evaluated in external laboratory examinations.
	Semester End Examinations (SEE)	This tool examines at all cognitive levels the ability and understanding of the students with respect to the concepts taught and their applicability in solving complex Engineering problems. The ability of the students to understand and apply knowledge of

Criterion-8 First Year Academics



1	mathematics,	science	and	engineering	concepts	in	solving
	engineering pr	oblems is	keenly	y evaluated.			

Table 8.4.1.a Tools used in measuring CO

CO Attainment	Weightage	Assessment Tools
Overall CO Attainment	100%	Continuous Internal Evaluation CIE (50%)
Direct Attainment		Semester End Examinations (SEE) (50%)

Table 8.4.1.b Calculation of CO attainment

The individual COs of the courses is mapped with Correlation level and is being evaluated by prescribed assessment tools. The attainment of individual CO is calculated by assigning separate weightage to the continuous Internal Evaluation, Semester End examination, assignments and quizzes. The attainment of COs is compared with the target level. The CO is said to be attained if its attainment value is greater than or equal to target attainment level.

8.4.1.1. Theory Course Evaluation

Assignments, Quizzes, Internal assessment test, semester end examinations are conducted and evaluated

for (both theory and lab) integrated courses.

The distribution of marks for theory& Lab courses (Sample) is as given in table below.

Assessment Tool	Maximum	Marks Scaled	Weightage
	Marks	to	
Assignments	15	15	
Quizzes	10	10	50%
Internal Assessment Exam (Avg of 3 Exams)	25	25	
Semester End Examination - Theory	100	50	50%
Everyday Lab session (Each Expt. 10 marks)	10	10	50%
Lab Internal Exam	15	15	
Semester End Examination - Lab	50	25	50%

Table 8.4.1.1. Distribution of marks for theory & Lab courses evaluation.


The Process for Assessment and Attainment of COs is described in the flowchart as shown in Flow Chart



Fig 8.4.1. Process of assessment and attainment of CO

8.4.2 Record the attainment of Course Outcomes of all First Year Courses (5)

Program shall have set attainment levels for all first-year courses. (The attainment levels shall be set considering average performance levels in the institution level examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect the COs of a subject plus the performance in the institution level examination)



	Course	Attainm	CAYm2 (2017-18)	CAYm1 (2018-19)	CAY (2019-20)
		ent	- ()	()	()
		Level			
50.14		0	less than 40% scored	less than 45% scored	less than 45% scored
0	8	1	>=28	>=28	>=30
the		1	40% to 49% scored	45% to 54% scored	45% to 54% scored
N N	I	2	>=28	>=28	>=30
, pa	3	2	50% to $59%$ scored >=28	55% to $64%$ scored >=28	55% to $64%$ scored >=30
i i		3	60% and more	65% and more	65% and more
, v			scored >=28	scored >=28	scored >=30
		0	less than 45% scored	less than 45% scored	less than 45% scored
	A0		>=38	>=28	>=30
	sics	1	45% to 54% scored	45% to54% scored	45% to 54% scored
ine	hys	2	>=38	>=28	>=30
L L L		2	55% to $64%$ scored >=38	55% to 64% scored >=28	55% to 64% scored >=30
	-	3	65% and more	65% and more	65% and more
		0	$\frac{1}{2}$ less than $\frac{42\%}{2}$	$\frac{1}{1}$ less than $\frac{44\%}{1}$	$\frac{1}{10000000000000000000000000000000000$
		Ū	scored>=25	scored>=25	>=30
č	ing	1	42% to 51%	44% to 53%	45% to 54% scored
5	eer	-	scored>=25	scored>=25	>=30
ant	ent	2	52% to 61% scored>=25	54% to 63% scored>=25	55% to 64% scored >=30
u o	E	3	62% and more	64% and more	65% and more
Ē			scored>=25	scored>=25	scored >=30
		0	less than 40% scored	less than 40% scored	less than 40% scored
	a al		>=36	>=25	>=28
at c	ring	1	40% to49% scored	40% to 49% scored	40% to 49% scored
1911	cha nee	2	>=36	>=25	>=28
E loi	Me	2	50% to 59% scored >-50	30% to 39% scored >=23	30% to 39% scored >-28
	Of	3	60% and more	60% and more	60% and more
		0	less than 45% scored	less than 50% scored	less than 51% scored
П		Ŭ	>=23	>=25	>=28
rica	ng	1	45% to54% scored	50% to 59% scored	51% to 61% scored
ecti	eeri		>=23	>=25	>=28
ic El	ıgine	2	55% to 64% scored >=23	60% to 69% scored >=25	62% to 71% scored >=28
Bas	Ы	2	650/ and mana	700/ and mana	720/ and man
		3	scored $\geq = 23$	$rac{10\%}{10\%}$ and more scored >=25	$\frac{72\%}{3}$ and more scored >=28
		0	boolou 20	less than 50% scored	less than 50% scored
sics		-		>=15	>=18
hy		1		50% to59% scored	50% to59% scored
e F	q		Included with Theory	>=15	>=18
erin	La	2	as it is an integrated	60% to $69%$ scored >=15	60% to $69%$ scored >=18
ine			subject		
ng		3		70% and more	70% and more
H				scored >=15	scored >=18

Attainment Levels: Internal Assessment



	0	No Lab Course	less than 40% scored	less than 45% scored
al ab			>=15	>=18
g L	1		40% to49% scored	45% to54% scored
llec			>=15	>=18
sic E cinee	2		50% to $59%$ scored >=15	55% to 64% scored $>=18$
Bat	3		60% and more	65% and more
	5		scored $\geq =15$	scored >=18
S	0	less than 40% scored	less than 45% scored	less than 45% scored
nati		>=28	>=28	>=30
nen	1	40% to 49% scored	45% to 54% scored	45% to 54% scored
latl		>=28	>=28	>=30
N P	2	50% to 59% scored >=28	55% to 64% scored >=28	55% to 64% scored >=30
plic	3	60% and more	65% and more	65% and more
Ap		scored >=28	scored $\geq =28$	scored $\geq =30$
try	0	less than 45% scored	less than 45% scored	less than 50% scored
nisı		>=38	>=28	>=28
her	1	45% to54% scored	45% to54% scored	50% to59% scored
C a		>=38	>=28	>=28
eerin	2	55% to $64%$ scored >=38	55% to 64% scored >=28	60% to 69% scored >=28
gine	3	65% and more	65% and more	70% and more
Eng		scored >=38	scored >=28	scored >=28
C	0	less than 40% scored	less than 45% scored	less than 40% scored
to vith		>=38	>=25	>=25
ion v	1	40% to49% scored	45% to54% scored	40% to 49% scored
nin		>=38	>=25	>=25
ami	2	50% to $59%$ scored >=38	55% to 64% scored ≥ 25	50% to $59%$ scored >=25
Int	3	60% and more	65% and more	60% and more
Pr		scored >=38	scored >=25	scored >=25
ы В	0	less than 40%	less than 40%	less than 40%
eri		scored>=27	scored>=28	scored>=29
jine	1	40% to 49%	40% to 49%	40% to 49%
Eng		scored>=27	scored>=28	scored>=29
win	2	500/	500/ - 500/	500/ - 500/
Aid Dra	2	50% to $59%$	50% to $59%$	50% to $59%$
er. I		scored>=27	scored=28	scored>=29
put	3	60% and more	60% and more	60% and more
O		scored>=27	scored>=28	scored>=29
C				
	0	less than 30% scored	less than 30% scored	less than 30% scored
ics	1	>=29	>=30	>=31
ron		30% to 39% scored	30% to 39% scored	30% to 39% scored
lect	2	2 = 29	>-30	>-31
c El	L _	4070 to 4970 scored >=29	4070 to 49% scored >=30	4070 to 49% scored >=31
asi	3	50% and more	50% and more	50% and more
В		scored >=29	scored >=30	scored >=31



U		0		less than 45% scored	less than 40% scored
in				>=13	>=13
ing	-	1	Included with Theory	45% to54% scored	40% to49% scored
Ĩ	.ab		as it is an integrated	>=13	>=13
ran	Π	2	subject	55% to 64% scored >=13	50% to 59% scored >=13
50 0		3		65% and more	60% and more
Ρ				scored >=13	scored >=13
		0		less than 50% scored	less than 55% scored
50	ab			>=15	>=15
rin	y L	1	Included with Theory	50% to59% scored	55% to64% scored
lee	str		as it is an integrated	>=15	>=15
ngir	iemi	2	subject	60% to 69% scored >=15	65% to 70% scored >=15
H	C	3		70% and more	75% and more
				scored >=15	scored >=15
nal		0	less than 32% scored	less than 34% scored	less than 35% scored
sio	on		>=13	>=13	>=14
fes	ati	1	32% to 41% scored	34% to 43% scored	35% to 44% scored
\Pr	nic		>=13	>=13	>=14
[/ 9	nu	2	42% to 51% scored	44% to 53% scored	45% to 54% scored
lest	m		>=13	>=13	>=14
ısir	ວັ	3	52% and more	54% and more	55% and more
Bu			scored >=13	scored >=13	scored >=14
	less	0	less than 44%	Course removed and	Course removed and
ta	rer		scored>=30	included in higher	included in higher
ner	wa	I	45% to 54%	semester	semester
uu	¢ A	2	scored>= 30		
virc	se &	2	33% to $64%$ scored>=30		
En	enc	3	65% and more		
	Sci		scored>=30		



Course	Attainment	CAYm2	CAYm1	САУ
	Level	2017-18	2018-19	2019-20
tics I	0	less than 40% scored >=56	less than 45% scored >=56	less than 45% scored >=60
hema	1	40% to 49% scored >=56	45% to 54% scored >=56	45% to 54% scored >=60
d Mat	2	50% to 59% scored >=56	55% to 64% scored >=56	55% to 64% scored >=60
Applie	3	60% and more scored >=56	65% and more scored >=56	65% and more scored >=60
ics	0	less than 45% scored >=76	less than 45% scored >=56	less than 45% scored >=60
g Phys	1	45% to54% scored >=76	45% to54% scored >=56	45% to 54% scored >=60
leering	2	55% to 64% scored >=76	55% to 64% scored >=56	55% to 64% scored >=60
Engin	3	65% and more scored >=76	65% and more scored >=56	65% and more scored >=60
	0	less than 42% scored>=50	less than 44% scored>=50	less than 45% scored >=60
of Civil ering	1	42% to 51% scored>=50	44% to 53% scored>=50	45% to 54% scored >=60
lements Engine	2	52% to 61% scored>=50	54% to 63% scored>=50	55% to 64% scored >=60
Ĩ	3	62% and more scored>=50	64% and more scored>=50	65% and more scored >=60
	0	less than 40% scored >=72	less than 40% scored >=50	less than 40% scored >=56
its nical ing	1	40% to49% scored >=72	40% to 49% scored >=50	40% to 49% scored >=56
Elemen Mechai 'ngineei	2	50% to 59% scored >=72	50% to 59% scored >=50	50% to 59% scored >=56
of	3	60% and more scored >=72	60% and more scored >=50	60% and more scored >=56
_	0	less than 45% scored >=46	less than 50% scored >=50	less than 51% scored >=56
ectrica eering	1	45% to54% scored >=46	50% to 59% scored >=50	51% to 61% scored >=56
asic El Engine	2	55% to 64% scored >=46	60% to 69% scored >=50	62% to 71% scored >=56
ä –	3	65% and more scored >=46	70% and more scored >=50	72% and more scored >=56

Attainment Levels: External Assessment



	0		less than 40% scored	less than 45% scored
Cal		-	>=30	>=36
ctri ng]	1		40% to49% scored	45% to $54%$ scored >= 36
Ele		No Lab	>=30	550/ - 640/ 1- 26
sic J	2		50% to 59% scored	55% to $64%$ scored >=36
Bas	3	-	-30	65% and more scored
	5		scored $\geq =30$	>=36
s	0		less than 50% scored	less than 50% scored
'sic			>=30	>=36
Phy	1	Included with	50% to59% scored	50% to59% scored >=36
lg d		Theory as it is an	>=30	
erii La	2	integrated subject	60% to 69% scored	60% to 69% scored >=36
ine			>=30	
jng L	3		70% and more	70% and more scored
×			scored >=30	>=36
	0	less than 40%	less than 45% scored	less than 45% scored
itic		scored >=56	>=56	>=60
Sm2	1	40% to 49% scored	45% to 54% scored	45% to $54%$ scored >=60
ithe		>=56	>=56	550/
Ma	2	50% to $59%$ scored	55% to $64%$ scored	55% to $64%$ scored >=60
ied		>-30	>-30	
ilqq	3	60% and more	65% and more	65% and more scored
Ā		scored >=56	scored >=56	>=60
stry	0	less than 45%	less than 45% scored	less than 50% scored
, mi		scored >=76	>=56	>=56
Che	1	45% to54% scored	45% to 54% scored	50% to 59% scored $\geq=56$
) g(2	>=/6	>=56	
erii	2	55% to 64% scored	55% to 64% scored	60% to $69%$ scored >=56
ine	2	<pre>>=/0</pre>	2-30	700/ and mana sagend
ug	5	scored $\geq =76$	scored $\geq = 56$	>=56
	0	less than 40%	less than 45% scored	less than 40% scored
e ti		scored $\geq =76$	>=50	>=50
wi	1	40% to49% scored	45% to54% scored	40% to 49% scored >=50
ctic		>=76	>=50	
npo	2	50% to 59% scored	55% to 64% scored	50% to 59% scored >=50
rai		>=76	>=50	
Ir rog	3	60% and more	65% and more	60% and more scored
A		scored $\geq = /6$	scored >=50	>=50
ing	0	less than 40%	less than 40%	less than 40%
eer		scored>=54	scored>=56	scored>=58
lgin	1	40% to 49%	40% to 49%	40% to 49%
En ng	1	$scored \ge 54$	$scored \ge 56$	$scored \ge 58$
ded awi				
Aid Dr£	2	50% to 59%	50% to 59%	50% to 59%
ter		scored>=54	scored>=56	scored>=58
nd	3	60% and more	60% and more	60% and more
om		scored>=54	scored>=56	scored>=58
\sim	1	1	1	



Store 0 less than 30% scored >=58 less than 30% scored >=60 less than 30% scored >=62 1 30% to 39% scored >=58 30% to 39% scored >=60 30% to 39% scored >=60 30% to 39% scored >=60 2 40% to 49% scored >=58 40% to 49% scored >=60 40% to 49% scored >=60 3 50% and more scored >=58 50% and more scored >=60 50% and more scored >=60 3 50% and more scored >=58 50% and more scored >=60 >=62 3 50% and more scored >=60 >=62 >=26 3 1 Included with Theory as it is an integrated subject less than 45% scored >=26 less than 50% scored >=26 3 0 Included with Theory as it is an integrated subject less than 50% scored >=26 50% to 59% scored >=26 3 0 less than 32% scored >=30 50% to 64% scored >=30 >=30 3 0 less than 32% scored >=26 >=26 >=30 3 32% to 41% scored >=26 >=26 >=30 >=30 1 32% to 41% scored >=26 >=26 >=28 >=28 2 42% to 51%					
Structure scored >=58 >=60 >=62 1 30% to 39% scored 30% to 39% scored 30% to 39% scored 20% to 39% scored >=62 2 40% to 49% scored 40% to 49% scored 40% to 49% scored >=62 3 50% and more scored >=58 scored >=60 50% and more scored >=62 >=62 3 50% and more scored >=58 scored >=60 >=62 >=26 1 Included with Theory as it is an integrated subject less than 45% scored 20 >=26 >=26 3 0 Included with Theory as it is an integrated subject less than 45% scored 20 >=26 >=26 3 0 Included with Theory as it is an integrated subject less than 50% scored 20 >=26 65% to 64% scored >=26 >=26 >=30 >=30 1 Included with Theory as it is an integrated subject 60% to 59% scored >=30 >=30 3 0 less than 32% scored >=30 >=30 3 0 less than 32% scored >=30 >=30 3 52% to 14% scored >=26 >=28 >=26 <th></th> <th>0</th> <th>less than 30%</th> <th>less than 30% scored</th> <th>less than 30% scored</th>		0	less than 30%	less than 30% scored	less than 30% scored
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$\begin{tabular}{ c c c c c } \hline 1 & \hline \\ 2 & \hline \\ 2 & \hline \\ 2 & \hline \\ 1 & \hline \\ 2 & \hline \\ 2 & \hline \\ 1 & \hline \\ 2 & \hline \\ 2 & \hline \\ 1 & \hline \\ 2 & \hline \\ 2 & \hline \\ 1 & \hline \\ 2 & \hline \\ 2 & \hline \\ 1 & \hline \\ 2 & \hline \\ 2 & \hline \\ 1 & \hline \\ 2 & \hline \\ 2 & \hline \\ 2 & \hline \\ 1 & \hline \\ 2 & \hline \\ 2 & \hline \\ 2 & \hline \\ 1 & \hline \\ 2 & 1$	Ile	2	40% to 49% scored	40% to 49% scored	40% to $49%$ scored >=62
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$ \begin{array}{ c c c c c c } \hline \mathbf{x} & \mathbf$	Jas	3	50% and more	50% and more	50% and more scored
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			scored >=58	scored >=60	>=62
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
United with fiber as the sense of the se	& q	0		less than 45% scored	less than 40% scored
$ \begin{array}{ c c c c c } \hline 1 & Included with Theory as it is an integrated subject \\ \hline 2 & Included with Theory as it is an integrated subject \\ \hline 3 & Included with Theory as it is an integrated subject \\ \hline 3 & Included with Theory as it is an integrated subject \\ \hline 1 & Included with Theory as it is an integrated subject \\ \hline 2 & Included with Theory as it is an integrated subject \\ \hline 3 & Included with Theory as it is an integrated subject \\ \hline 3 & Included with Theory as it is an integrated subject \\ \hline 3 & Included with Theory as it is an integrated subject \\ \hline 3 & Included with Theory as it is an integrated subject \\ \hline 3 & Included with Theory as it is an integrated subject \\ \hline 1 & Included with Scored >=30 \\ \hline 1 & Included with Theory as it is an integrated subject \\ \hline 3 & Included with Theory as it is an integrated subject \\ \hline 3 & Included with Theory as it is an integrated subject \\ \hline 3 & Included with Theory as it is an integrated subject \\ \hline 4 & Scored >=26 \\ \hline 1 & 32\% to 41\% scored \\ \hline 2 & 42\% to 51\% scored >=26 \\ \hline 2 & 42\% to 51\% scored >=26 \\ \hline 2 & 42\% to 51\% scored >=26 \\ \hline 2 & 42\% to 51\% scored >=26 \\ \hline 2 & 42\% to 51\% scored >=26 \\ \hline 3 & 52\% and more scored >=26 \\ \hline 1 & 45\% to 54\% scored >=26 \\ \hline 2 & 52\% to 64\% scored >=26 \\ \hline 3 & 52\% and more scored >=26 \\ \hline 1 & 45\% to 54\% scored >=26 \\ \hline 2 & 55\% to 64\% scored >=26 \\ \hline 3 & 52\% and more scored >=26 \\ \hline 1 & 45\% to 54\% scored >=26 \\ \hline 1 & 45\% to 54\% scored >=26 \\ \hline 2 & 55\% to 64\% scored >=26 \\ \hline 3 & 52\% and more scored >=26 \\ \hline 1 & 45\% to 54\% scored >=26 \\ \hline 2 & 55\% to 64\% scored >=26 \\ \hline 3 & 65\% and more scored >=26 \\ \hline 3 & 65\% and more scored >=26 \\ \hline 3 & 65\% and more scored >=26 \\ \hline 3 & 65\% and more scored >=26 \\ \hline 3 & 65\% and more scored >=26 \\ \hline 3 & 65\% and more scored >=26 \\ \hline 3 & 65\% and more scored >=26 \\ \hline 4 & 55\% to 64\% scored >=28 \\ \hline 4 & 55\% to 64\% scored >=28 \\ \hline 5 & 55\% to 64\% scored >=28 \\ \hline 5 & 55\% to 64\% scored >=28 \\ \hline 5 & 55\% to 64\% scored >=28 \\ \hline 5 & 55\% to 64\% scored >=28 \\ \hline 5 & 55\% to 64\% scored >=28 \\ \hline 5 & 55\% to 64\% scored >=28 \\ \hline 5$	n C S ls		-	>=26	>=26
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ire ure	1	Included with	45% to54% scored	40% to49% scored >=26
$ \begin{array}{ c c c c c c c } \hline 1 & 11001 \text{ with is an integrated subject} \\ \hline 3 & 11001 \text{ with is an integrated subject} \\ \hline 3 & 1 & 11001 \text{ with is an integrated subject} \\ \hline 3 & 1 & 11001 \text{ with is an integrated subject} \\ \hline 1 & 11001 \text{ with is an integrated subject} \\ \hline 1 & 11001 \text{ with is an integrated subject} \\ \hline 2 & 11001 \text{ with is an integrated subject} \\ \hline 3 & 10000000000000000000000000000000000$	ict i		Theory as it is an	>=26	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	tru mu	2	integrated subject	55% to 64% scored	50% to 59% scored >=26
Solution365% and more scored >=2660% and more scored >=2611Included with Theory as it is an integrated subjectless than 50% scored >=30less than 55% scored >=3032Included with Theory as it is an integrated subject 55% to 64% scored >=3030less than 32% scored >=26 55% to 64% scored >=3030less than 32% scored >=26less than 35% scored >=3070% and more scored >=2675% and more scored >=30132% to 41% scored >=26>=28132% to 51% scored >=2634% to 53% scored >=26242% to 51% scored >=26>=28352% and more scored >=60Course removed and included in higher semesterCourse removed and included in higher semester145% to 54% scored>=60255% to 64% semesterCourse removed and included in higher semester	a S		integrated subject	>=26	
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$\begin{array}{c c} \mathbf{x} & scored \geq = 60 \\ \hline 2 & 55\% \text{ to } 64\% \\ scored \geq = 60 \\ \hline 3 & 65\% \text{ and more} \\ \hline \end{array}$	ner wa		45% to 54%	semester	semester
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$\begin{array}{c} \mathbf{\tilde{s}} \\ \mathbf{\tilde{s}} \\$	/irc e &	2	33% to $64%$		
	Env	3	65% and more	-	
$scored \ge 60$	I cie	5	$s_{cored} \ge 60$		

Table 8.4.2.

8.4.2.1 Calculations

Direct Attainment (DA) =

Semester End Examination * 0.5 + Continuous Internal Assessment *

0.5

Total Attainment = DA



8.4.2.2 The following table shows the attainment of course outcome. CO Attainment 2017-18

			Direct Att	_		
S. No.	Course Code	Course Name	C IE Semester Evaluations End Exam		CO attainment	
1	MAT11	Engineering Mathematics I	3	3	3	
2	PHY12/22	Engineering Physics	3	3	3	
3	MEE13/23	Elements of Mechanical Engineering	3	3	3	
4	CIV14/24	Elements of Civil Engineering 3 3		3	3	
5	EEE15/25	Basic Electrical Engineering 3 3		3		
6	HSS162/262	Professional Communication	3	3	3	
7	MAT21	Engineering Mathematics II	3	3	3	
8	CHE12/22	Engineering Chemistry	3	3	3	
9	CSE13/23	Introduction to Programming with C	3	3	3	
10	MEE14/24	Computer Aided Engineering Drawing	3	3	3	
11	ECE15/25	Basic Electronics	3	2.8	2.9	
12	HSS161/261	Environmental Science & Awareness	3	3	3	

Table 8.4.2.1a CO Attainment CAYm2 (2017-18)





			Direct Attainment			
S. No.	Course Code	Course Name	C IE Evaluations	Semester End Exam	Overall CO attainment	
1	18MAT11	Applied Mathematics I	3	3	3	
2	18PHY12/22	Engineering Physics	3	3	3	
3	18MEE13/23	Elements of Mechanical Engineering	3	3	3	
4	18CIV14/24	Elements of Civil Engineering	3	3	3	
5	18EEE15/25	Basic Electrical Engineering	3	2.6	2.8	
6	18PHL16/26	Engineering Physics Lab	3	3	3	
8	18EEL17/27	Basic Electrical Engineering Lab	3	3	3	
9	18MAT21	Applied Mathematics II	3	3	3	
10	18CHE12/22	Engineering Chemistry	3	3	3	
11	18CSE13/23	Introduction to Programming with C	3	2.8	2.9	
12	18MEE14/24	Computer Aided Engineering Drawing	3	2.8	2.9	
13	18ECE15/25	Basic Electronics	3	3	3	
14	18CHL17/27	Engineering Chemistry Lab	3	3	3	
15	18CSL18/28	Programming with C Lab	3	3	3	
16	18HSS16/26	Professional Communication	3	3	3	

CO Attainment 2018-19

Table 8.4.2.1b CO Attainment CAYm1 (2018-19)

CO Attainment 2019-20

			Direct Attainm	ent
S. No.	Course Code	Course Name	C IE Ser Evaluations	OverallmesterCOI Examattainment



1	19MAT11	Applied Mathematics I	3	3	3
2	19PHY12/22	Engineering Physics	3	3	3
3	19MEE13/23	Elements of Mechanical Engineering	3	3	3
4	19CIV14/24	Elements of Civil Engineering	3	2.8	2.9
5	19EEE15/25	Basic Electrical Engineering	3	3	3
6	19PHL16/26	Engineering Physics Lab	3	3	3
8	19EEL17/27	Basic Electrical Engineering Lab	3	2.4	2.7
9	19MAT21	Applied Mathematics II	3	3	3
10	19CHE12/22	Engineering Chemistry	3	3	3
11	19CSE13/23	Introduction to Programming with C	3	2.7	2.9
12	19MEE14/24	Computer Aided Engineering Drawing	3	3	3
13	19ECE15/25	Basic Electronics	3	2.8	2.9
14	19CHL17/27	Engineering Chemistry Lab	3	3	3
15	19CSL18/28	Programming with C Lab	3	3	3
16	19HSS271	Professional Communication	3	3	3

Table 8.4.2.	.1c CO	Attainment	CAY	(2019-20)
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8.5. Attainment of Program Outcomes from first year courses (20)

8.5.1. Indicate results of evaluation of each relevant PO and/or PSO if applicable(10)

The relevant program outcomes that are to be addressed at first year need to be identified by the institution Program Outcome attainment levels shall be set for all relevant POs and/or PSOs through first year courses.

(Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained through first year courses and document the attainment levels. Also include



information on assessment processes used to gather the data upon which the evaluation of each Program Outcome is based indicating the frequency with which these processes are carried out)

The process to assess the attainment of the Program Outcomes and Program Specific Outcomes begins with the assessments of course outcomes attainment. The assessment of POs /PSOs during first year involves direct methods of assessment only.

	Assessment method	Assessment Tool	Frequency
POs/PSOs attainment	Direct Method	Course outcomes attainment	At end of every semester

DAC collects the data for internal and external assessment of POs and PSOs from the respective source and calculate the attainment. Direct assessment level of POs and PSOs is determined by taking average of course attainment level across all courses addressing that PO and/or PSO.



Course Code	Course Name	P01	P02	PO3	P04	P05	P06	P07	PO8	909	PO 10	PO 11	PO 12
MAT11	Engineering Mathematics I	3	3	3	2	2	-	-	-	-	1	-	3
PHY12/22	Engineering Physics	3	2	2	-	-	-	-	-	2	-	-	1
MEE13/23	Elements of Mechanical Engineering	3	1	3	-	3	2	1	-	-	3	-	1
CIV14/24	Elements of Civil Engineering	3	2	1	1	-	-	-	-	-	-	-	1
EEE15/25	Basic Electrical Engineering	3	3	2	2	-	-	-	-	-	2	1	-
MAT21	Engineering Mathematics II	3	3	3	3	3	-	-	-	1	3	-	3
CHE12/22	Engineering Chemistry	3	3	-	-	-	-	3	-	-	-	-	3
CSE13/23	Introduction to Programming with C	3	3	3	1	3	-	-	-	3	1	-	1
MEE14/24	Computer Aided Engineering Drawing	2	-	2	2	1	-	-	-	-	2	-	2
ECE15/25	Basic Electronics	3	2	2	-	-	-	-	-	-	-	-	-
HSS161/261	Environmental Science and Awareness	3	3	-	3	-	-	3	2	-	-	-	-
HSS162/262	Professional Communication	-	-	-	-	-	-	-	3	2	3	-	3
Avg.		2.9	2.5	2.3	2.0	2.4	2.0	2.3	2.5	2.0	2.1	1.0	2.0

Programme Articulation Matrix 2017-18

 Table 8.5.1.1a Programme Articulation Matrix 2017-18



Course	Course Name	P01	P02	P03	P04	P05	P06	P07	PO8	909	PO 10	PO 11	PO 12
18MAT11	Applied Mathematics I	3	3	3	2	2	-		-	-	2	-	3
18PHY12/22	Engineering Physics	3	2	2	-	-	-	-	-	2	-	-	1
18MEE13/23	Elements of Mechanical Engineering	3	1	3	-	3	2	1	-	-	3	-	1
18CIV14/24	Elements of Civil Engineering	3	2	1	1	-	-	-	-	-	-	-	1
18EEE15/25	Basic Electrical Engineering	3	3	2	1	1	-	-	1	-	-	2	-
18PHL16/26	Engineering Physics Lab	3	2	2	-	-	-	-	-	2	-	-	1
18EEL17/27	Basic Electrical Engineering Lab	3	3	2	1	1	-	-	3	-	-	-	2
18MAT21	Applied Mathematics II	3	3	3	3	3	-	-	-	1	3	-	3
18CHE12/22	Engineering Chemistry	3	3	-	-	-	-	3	-	-	-	-	3
18CSE13/23	Introduction to Programming with C	3	3	3	1	3	-	-	-	3	1	-	1
18MEE14/24	Computer Aided Engineering Drawing	2	-	2	2	1	-	-	-	-	2	-	2
18ECE15/25	Basic Electronics	3	2	2	-	-	-	-	-	-	-	-	-
18CHL17/27	Engineering Chemistry Lab	3	3	-	-	-	-	3	-	-	-	-	3
18CSL18/28	Programming with C Lab	3	3	3	3	3	-	-	I	3	-	-	3
18HSS16/26	Professional Communication	-	-	-	-	-	-	-	3	2	3	-	3
Avg.		2.9	2.5	2.3	1.8	2.1	2.0	2.3	3.0	2.2	2.3	2.0	2.1

Programme Articulation Matrix 2018-19

 Table 8.5.1.1b Programme Articulation Matrix 2018-19



Course	Course Name	P01	P02	PO3	P04	P05	904	P07	PO8	P09	PO 10	PO 11	PO 12
19MAT11	Applied Mathematics I	3	3	3	3	-	-	-	-	2	3	-	3
19PHY12/22	Engineering Physics	3	2	-	-	2	1	-	-	2	-	-	1
19MEE13/23	Elements of Mechanical Engineering	3	1	3	-	3	2	1	-	-	3	-	1
19CIV14/24	Elements of Civil Engineering	3	2	1	1	-	-	-	-	-	-	-	1
19EEE15/25	Basic Electrical Engineering	3	3	-	2	1	-	-	I	-	-	-	-
19PHL16/26	Engineering Physics Lab	3	2	2	-	2	1	-	-	2	-	-	1
19EEL17/27	Basic Electrical Engineering Lab	3	3	2	2	1	-	-	-	2	2	-	-
19MAT21	Applied Mathematics II	3	3	3	3	3	-	-	-	1	3	-	3
19CHE12/22	Engineering Chemistry	3	2	-	-	-	-	2	-	-	-	-	2
19CSE13/23	Introduction to Programming with C	3	3	3	1	3	-	-	I	3	1	-	1
19MEE14/24	Computer Aided Engineering Drawing	2	-	2	2	1	-	-	-	-	2	-	2
19ECE15/25	Basic Electronics	3	3	3	I	-	-	-	-	-	-	-	-
19CHL17/27	Engineering Chemistry Lab	3	-	-	-	-	-	-	-	-	-	-	3
19CSL18/28	Programming with C Lab	3	3	3	3	3	-	-	-	3	-	-	3
19HSS271	Professional Communication	-	-	-	-	-	-	-	3	3	3	-	3
Avg.		2.93	2.50	2.50	2.13	2.11	1.33	1.50	3.00	2.25	2.43	-	2.00

Programme Articulation Matrix 2019-20

 Table 8.5.1.1c Programme Articulation Matrix 2019-20



Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
MAT11	3	3	3	3	3	-	-	-	-	3	-	3
PHY12/22	3	3	3	-	-	-	-	-	3	-	-	3
MEE13/23	3	3	3	-	3	3	3	-	-	3		3
CIV14/24	3	3	3	-	-	-	-	-	-	-	-	3
EEE15/25	3	3	3	3	-	-	-	-	-	3	3	-
MAT21	3	3	3	3	3	-	-	-	3	3	-	3
CHE12/22	3	3	-	-	-	-	3	-	-	-	-	3
CSE13/23	3	3	3	3	3	-	-	-	3	3	-	3
MEE14/24	3	-	3	3	3	-	-	-	-	3	-	3
ECE15/25	2.86	2.75	2.75	-	-	-	-	-	-	-	-	-
HSS161/261	2.9	3	-	3	-	-	2.9	3	-	-	-	-
HSS162/262	-	-	-	-	-	-	-	3	3	3	-	3
Direct Attainment	2.98	2.97	2.97	3	3	3	2.97	3	3	3	3	3

PO Attainment (2017-18)

Table 8.5.1.2a PO Attainment (2017-18)



Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
18MAT11	3	3	3	3	3	-	-	-	-	3	-	3
18PHY12/22	3	3	3	-	-	-	-	-	3	-	-	3
18MEE13/23	3	3	3	-	3	3	3	-	-	3	-	3
18CIV14/24	3	3	3	3	-	-	-	-	-	-	-	3
18EEE15/25	2.81	2.81	2.81	2.81	2.81	-	-	2.7	-	-	2.92	2.7
18PHL16/26	3	3	3	-	-	-	-	-	3	-	-	3
18EEL17/27	3	3	3	3	3	3	3	3	-	-	-	3
18MAT21	3	3	3	3	3	-	-	-	3	3	-	3
18CHE12/22	3	3	-	-	-	-	3	-	-	-	-	3
18CSE13/23	2.815	2.75	2.75	2.75	2.82	-	-	-	2.82	2.795	-	2.81
18MEE14/24	3	-	2.56	3	3	-	-	-	-	3	-	3
18ECE15/25	2.845	2.87	2.87	-	-	-	-	-	-	-	-	-
18CHL17/27	3	3	-	-	-	-	3	-	-	-	-	3
18CSL18/28	3	3	3	3	3	-	-	-	3	-	-	3
18HSS16/26	-							3	3	3	-	3
Direct Attainment	2.96	2.96	2.91	2.94	2.95	3	3	2.95	2.97	2.96	2.92	2.98

PO Attainment (2018-19)

Table 8.5.1.2b PO Attainment (2018-19)



PO Attainment (2019-20)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
19MAT11	3	3	3	3	-	-	-	-	3	3	-	3
19PHY12/22	3	3	-	-	3	3	-	-	3	-	-	3
19MEE13/23	3	3	3	-	3	3	3	-	-	3	-	3
19CIV14/24	3	3	3	3.0								3.0
19EEE15/25	3	3	-	3	3	-	-	-	-	-	-	-
19PHL16/26	3	3	3	-	3	3	-	-	3	-	-	3
19EEL17/27	2.8	2.8	2.8	2.8	2.8				2.84	2.84		
19MAT21	3	3	3	3	3	-	-	-	3	3	-	3
19CHE12/22	3	3	-	-	-	-	3	-	-	-	-	3
19CSE13/23	2.5	2.4	2.5	3.0	2.6	-	-	-	2.55			2.51
19MEE14/24	3.0	-	3.0	3.0	3	-	-	-	-	3	-	3
19ECE15/25	2.9	2.9	2.8	-	-	-	-	-	-	-	-	-
19CHL17/27	3	-	-	-	-	-	-	-	-	-	-	3
19CSL18/28	2.8	2.8	2.8	2.8	2.8				2.8			2.8
19HSS271	-	-	-	-	-	-	-	3	3	3	-	3
Direct Attainment	2.93	2.91	2.89	2.95	2.91	3	3	3	2.9	2.97	-	2.94

Table	8.5.	1.2c	PO	Attainment	(2019-20)
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Target Attainment Level

Target Attainment	2017-18	2018-19	2019-20
Level	2.4	2.6	2.7



8.5.2. Actions taken based on the results of evaluation of relevant Pos (5):

PO Attainment Levels and Actions for improvement: 2017-18

РО	Target Level	Attainment Level	Observations						
PO-1: Engin and an engin	neering knowled	ge: Apply the knowled	ge of mathematics, science, engineering fundamentals, complex engineering problems.						
PO-1	2.4	2.96	Target Achieved						
Tour of NH	CE labs was orga	nized to first year stude	ents						
РО	Target Level	Attainment Level	Observations						
PO-2: Problem analysis : Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.									
PO-2	2.4	2.96	Target Achieved						
Organized Expert Lectures from leading R & D organizations such as Tata Institute of Fundamental Research (TIFR)Bangalore, International Researchers (USA), National Aerospace Laboratories (NAL) Bangalore, Raman Research institute (RRI) Bangalore									
РО	Target Level	Attainment Level	Observations						
PO-3: Desig system com health and s	n/development of ponents or process afety, and the cul	of solutions: Design so sses that meet the speci tural, societal, and env	lutions for complex engineering problems and design fied needs with appropriate consideration for the public ironmental considerations.						
PO-3	2.4	2.91	Target Achieved						
Students of	the first year atte	nded a "Lecture on PLO	C (Programmable Logic Controller) & SCADA						
РО	Target Level	Attainment Level	Observations						
PO-4: Conduct investigations of complex problems : Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.									
PO-4	2.4	2.94	Target Achieved						
The significa	nce of literature s	survey was outlined to	students						
РО	Target Level	Attainment Level	Observations						



PO-5: Modern tool usage : Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.								
PO-5	2.4	2.95	Target Achieved					
Students of tl	ne first year atten	ded a lecture "Demons	tration of Cisco Lab and MATLAB"					
РО	Target Level	Attainment Level	Observations					
PO-6: The engineer and society : Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.								
PO-6	2.4	3	Target Achieved					
Engineers primary obligation is to protect the safety, health and welfare of the public. Engineers decision making is very important because the ultimate beneficiary is the general public or society at large. This was emphasized through the course Constitution of India and Professional Ethics. Three weeks induction program also outlined the contribution of engineers to the society								
РО	Target Level	Attainment Level	Observations					
PO-7: Envi societal and developmen	ronment and Su environmental co t.	stainability: Understar ontexts, and demonstra	nd the impact of the professional engineering solutions in te the knowledge of, and need for sustainable					
PO-7	2.4	3	Target Achieved					
Students of management	the first year att "	ended "A talk and d	emonstration through videos on waste					
РО	Target Level	Attainment Level	Observations					
PO-8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.								
PO-8	2.4	2.95	Target Achieved					
Ethics will guide the engineers to mould the personality trait of an individual which will play a key role in instilling discipline and facilitating students to become a responsible citizen of the nation. This is also reemphasized through the course Constitution of India and Professional Ethics								



РО	Target Level	Attainment Level	Observations						
PO-9: Ind diverse tea	ividual and tean ms, and in multio	n work: Function effec disciplinary settings.	tively as an individual, and as a member or leader in						
PO-9	2.4	2.97	Target Achieved						
As part of t in the group	he self-study eva s enabled them to	luation, students were o understand the intrica	assigned the small projects in groups; working cies of team work and decision-making process						
РО	Target Level	Attainment Level	Observations						
PO-10: Communication : Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.									
РО- 10	2.4	2.96	Target Achieved						
The "Center for Soft Skills and Life Long Learning" ensures the students are equipped with all possible communication tools									
РО	Target Level	Attainment Level	Observations						
PO-11: Pr and manag manage pr	oject manageme ement principles ojects and in mul	ent and finance: Demo and apply these to one tidisciplinary environn	onstrate knowledge and understanding of the engineering s's own work, as a member and leader in a team, to nents.						
PO- 11	2.4	2.92	Target Achieved						
Students ge actively in t projects in g	t hands on experi he Curricular, Co groups as part of	ence on managing sma o-curricular and Techni the self-study evaluation	Il group tasks and associated finances by participating cal clubs. Technically too students were assigned the small on, which teaches the nuances of project management						
PO Target Level Attainment Level Observations									
PO-12: Li independe	PO-12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.								
PO- 12	2.4	2.99	Target Achieved						
The "Center	The "Center for Soft Skills and Life Long Learning" conducts various activities								



Attainment Levels and Actions for improvement: 2018-19

РО	Target Level	Attainment Level	Observations					
PO-1: Engi	neering knowled	ge: Apply the knowled	ge of mathematics, science, engineering fundamentals,					
and an engir	neering specializa	ation to the solution of	complex engineering problems.					
PO-1	2.6	2.96	Target Achieved					
Emphasized the Labs rela	the role of fun ated to Engineeri	damental sciences in ng department	engineering domain by conducting the virtual tours of					
РО	Target Level	Attainment Level	Observations					
PO-2: Prob	lem analysis: Ide	entify, formulate, revie	w research literature, and analyze complex engineering					
problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.								
PO-2	PO-2 2.6 2.96 Target Achieved							
Organized Ex (TIFR)Banga Raman Resea	rganized Expert Lectures from leading R & D organizations such as Tata Institute of Fundamental Research FIFR)Bangalore, International Researchers (USA), National Aerospace Laboratories (NAL) Bangalore, Laman Research institute (RRI) Bangalore.							
РО	PO Target Level Attainment Level Observations							
PO-3: Desig system comp	n/development of process	of solutions: Design so sses that meet the speci	lutions for complex engineering problems and design fied needs with appropriate consideration for the public					
health and s	afety, and the cul	tural, societal, and env	ironmental considerations.					
PO-3	2.6	2.91	Target Achieved					
Workshop o	n CAED was cor	nducted to the students.						
Using the In the students of the semes	dustry Institute la were assigned th ster	abs students were demo e small projects as self	onstrated the solution for engineering problems. As well study and the project exhibition was conducted at the end					
РО	Target Level	Attainment Level	Observations					
PO-4: Conduct investigations of complex problems : Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.								
PO-4	2.6	2.94	Target Achieved					
The significat	nce of literature s	survey was outlined to	students					
РО	Target Level Attainment Level Observations							



PO-5: Modern tool usage : Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.					
PO-5	2.6	2.95	Target Achieved		
The product a	The product and design applications were demonstrated using CISCO Lab and MATLAB tool				
РО	Target Level	Attainment Level	Observations		
PO-6: The 6 health, safet engineering	PO-6: The engineer and society : Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				
PO-6	2.6	3	Target Achieved		
Engineers pri making is ver emphasized t also outlined	Engineers primary obligation is to protect the safety, health and welfare of the public. Engineers decision naking is very important because the ultimate beneficiary are the general public or society at large. This was emphasized through the course Constitution of India and Professional Ethics. Three weeks induction program also outlined the contribution of engineers to the society				
РО	Target Level	Attainment Level	Observations		
PO-7: Envir societal and developmen	PO-7: Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.				
PO-7	2.6	3	Target Achieved		
The electroni ecological ba	The electronic waste management and its need in the current digital world impacting the ecological balance was demonstrated through Videos				
РО	Target Level	Attainment Level	Observations		
PO-8: Ethic the engineer	PO-8: Ethics : Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				
PO-8	PO-8 2.6 2.95 Target Achieved				
Ethics will guide the engineers to mould the personality trait of an individual which will play a key ole in instilling discipline and facilitating students to become a responsible citizen of the nation. This is also reemphasized through the course Constitution of India and Professional Ethics.					



РО	Target Level	Attainment Level	Observations		
PO-9: Individual and team work : Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.					
PO-9	2.6	2.97	Target Achieved		
As part of the the groups en	As part of the self study evaluation, students were assigned the small projects in groups ;working in he groups enabled them to understand the intricacies of team work and decision making process				
РО	Target Level	Attainment Level	Observations		
PO-10: Communication : Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.					
PO-10	2.6	2.96	Target Achieved		
The "Center f possible com	for Soft Skills and munication tools	d Life Long Learning"	ensures the students are equipped with all		
РО	Target Level	Attainment Level	Observations		
PO-11: Proj and manages projects and	PO-11: Project management and finance : Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				
PO-11	2.6	2.92	Target Achieved		
Students get h in the Curricu groups as par	The set of the self study evaluation, which teaches the nuances of project management				
РО	Target Level	Attainment Level	Observations		
PO-12: Life independent	-long learning : I and life-long lea	Recognize the need for, rning in the broadest co	and have the preparation and ability to engage in ontext of technological change.		
PO-12	2.6	2.99	Target Achieved		
The "Center f	The "Center for Soft Skills and Life Long Learning" conducts various activities				



8.5.2 PO Attainment Levels and Actions for improvement: 2019-20

РО	Target Level	Attainment Level	Observations		
PO-1: Engi	neering knowled	ge: Apply the knowled	lge of mathematics, science, engineering fundamentals,		
and an engineering specialization to the solution of complex engineering problems.					
PO-1	PO-1 2.7 2.93 Target Achieved				
An online va code-A met	An online virtual tour of the computer lab was conducted for first year students and a Lecture on Pseudo code-A method for designing Software was delivered				
РО	Target Level	Attainment Level	Observations		
PO-2: Prob	lem analysis: Ide	entify, formulate, revie	w research literature, and analyze complex engineering		
problems re-	aching substantia	ted conclusions using t	first principles of mathematics, natural sciences, and		
engineering	sciences.				
PO-2	2.7	2.91	Target Achieved		
Experts from guest talk for to solve those	n leading research or the students em se problems with	h organizations, indust phasizing on bridging engineering tool	ry and institutes of National importance delivered the the gap of fundamental science with applied science and		
РО	Target Level	Attainment Level	Observations		
PO-3: Desig	n/development	of solutions: Design so	olutions for complex engineering problems and design		
system com	ponents or proces	sses that meet the speci	fied needs with appropriate consideration for the public		
health and s	afety, and the cul	tural, societal, and env	ironmental considerations.		
PO-3	2.7	2.89	Target Achieved		
Students we	ere delivered an o Industry	nline Lecture on "Why Institute - Big Data an	Python is Essential for Data Analysis" in connection with d Data Analytics Lab: HP Vertica Lab		
РО	Target Level	Attainment Level	Observations		
PO-4: Conduct investigations of complex problems: Use research-based knowledge and research methods					
including de provide vali	esign of experime d conclusions.	nts, analysis and interp	pretation of data, and synthesis of the information to		
PO-4	2.7	2.95	Target Achieved		
The significat webinars	nce of literature s	survey was outlined to	students and students were invited to join the online		
РО	Target Level	Attainment Level	Observations		
PO-5: Mode	ern tool usage: C	Freate, select, and apply	/ appropriate techniques, resources, and modern		
engineering	and IT tools incl	uding prediction and m	nodeling to complex engineering activities with an		
understandi	ng of the limitatio	ons.			
PO-5	2.7	2.91	Target Achieved		
Students of fi modern tool u	rst year were giv 1sage	en an online lecture on	"Virtualization Essentials and the		
РО	Target Level	Attainment Level	Observations		
PO-6: The e	engineer and soc	iety: Apply reasoning	informed by the contextual knowledge to assess societal,		
health, safet	y, legal and cultu	ral issues and the cons	equent responsibilities relevant to the professional		
engineering	practice.				
PO-6	2.7	3	Target Achieved		
The motivation bring in the s	The motivational talks by the industry experts emphasized the value system and the difference engineers could bring in the society. This was also emphasized through the course Constitution of India and Professional Ethics				



РО	Target Level	Attainment Level	Observations		
PO-7: Envi	ronment and Su	stainability: Understar	nd the impact of the professional engineering solutions in		
societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable					
developmen	development.				
PO-7	2.7	3	Target Achieved		
An online aw students of fin	areness lecture o rst year was cond	n "Environmental Impa ucted	acts of Computer Technology" for the		
РО	Target Level	Attainment Level	Observations		
PO-8: Ethic	s: Apply ethical	principles and commit	to professional ethics and responsibilities and norms of		
the engineer	ring practice.				
PO-8	2.7	3	Target Achieved		
This is also re	eemphasized thro	ugh the course Constit	ution of India and Professional Ethics.		
РО	Target Level	Attainment Level	Observations		
PO-9: Indiv	idual and team	work: Function effecti	vely as an individual, and as a member or leader in		
diverse team	ns, and in multidi	sciplinary settings.			
PO-9	2.7	2.9	Target Achieved		
In order to ga the groups en the team spiri	in the activity po nabled them to u it.	ints, students choose th nderstand the function	e tasks to be performed in groups ;working in ing of team and facilitated them to inculcate		
PO	Target Level	Attainment Level	Observations		
PO-10: Con	nmunication: Co	mmunicate effectively	on complex engineering activities with the engineering		
community	and with society	at large, such as, being	able to comprehend and write effective reports and		
design documentation, make effective presentations, and give and receive clear instructions.					
8	mentation, make	effective presentations	, and give and receive creat instructions.		
PO-10	2.7	2.97	Target Achieved		
PO-10 At frequent in programmes	2.7 ntervals the the "(to ensure the stud	2.97 Center for Soft Skills an lents are equipped with	Target Achieved nd Life Long Learning" will conduct various all possible communication tools		
PO-10 At frequent in programmes PO	2.7 ntervals the the "(to ensure the stud Target Level	2.97 Center for Soft Skills an lents are equipped with Attainment Level	Target Achieved Target Schieved Ad Life Long Learning" will conduct various all possible communication tools Observations		
PO-10 At frequent in programmes PO PO-11: Pro	2.7 ntervals the the "(to ensure the stuc Target Level ject managemen	2.97 Center for Soft Skills at lents are equipped with Attainment Level t and finance: Demon	Target Achieved nd Life Long Learning" will conduct various all possible communication tools Observations strate knowledge and understanding of the engineering		
PO-10 At frequent in programmes PO PO-11: Proj and manage	2.7 ntervals the the "O to ensure the stud Target Level ject managemen ment principles a	2.97 Center for Soft Skills an lents are equipped with Attainment Level t and finance: Demon nd apply these to one's	Target Achieved Ind Life Long Learning" will conduct various all possible communication tools Observations Strate knowledge and understanding of the engineering sown work, as a member and leader in a team, to manage		
PO-10 At frequent in programmes PO PO-11: Proj and manage projects and	2.7 tervals the the "o to ensure the stuc Target Level ject managemen ment principles a in multidisciplin	2.97 Center for Soft Skills at lents are equipped with Attainment Level t and finance: Demon nd apply these to one's ary environments.	Target Achieved nd Life Long Learning" will conduct various all possible communication tools Observations Strate knowledge and understanding of the engineering sown work, as a member and leader in a team, to manage		
PO-10 At frequent in programmes PO PO-11: Proj and manage projects and PO-11	2.7 tervals the the "O to ensure the stud Target Level ject managemen ment principles a in multidisciplin	2.97 Center for Soft Skills an lents are equipped with Attainment Level t and finance: Demon nd apply these to one's ary environments.	Target Achieved Ind Life Long Learning" will conduct various all possible communication tools Observations Strate knowledge and understanding of the engineering sown work, as a member and leader in a team, to manage Target Achieved		
PO-10 At frequent in programmes PO PO-11: Proj and manage projects and PO-11 Students get I actively in the them hands o	2.7 tervals the the "(to ensure the stuce Target Level ject management ment principles a in multidisciplin - hands on experient e Curricular, Co- n experience of r	2.97 Center for Soft Skills at lents are equipped with Attainment Level t and finance: Demon nd apply these to one's ary environments. - nce on managing small curricular and Technica nanaging finances	Target Achieved Ind Life Long Learning" will conduct various all possible communication tools Observations Strate knowledge and understanding of the engineering sown work, as a member and leader in a team, to manage Target Achieved group tasks and associated finances by participating all clubs. Students activity points initiative will enable		
PO-10 At frequent in programmes PO PO-11: Proj and manage projects and PO-11 Students get I actively in the them hands o PO	2.7 tervals the the "O to ensure the stuce Target Level ject managemen ment principles a in multidisciplin - hands on experience e Curricular, Co- n experience of r Target Level	2.97 Center for Soft Skills at lents are equipped with Attainment Level t and finance: Demon nd apply these to one's ary environments. - nce on managing small curricular and Technica nanaging finances Attainment Level	Target Achieved Ind Life Long Learning" will conduct various all possible communication tools Observations Strate knowledge and understanding of the engineering own work, as a member and leader in a team, to manage Target Achieved group tasks and associated finances by participating all clubs. Students activity points initiative will enable Observations		
PO-10 At frequent in programmes PO PO-11: Proj and manage projects and PO-11 Students get I actively in the them hands o PO PO-12: Life	2.7 tervals the the "(to ensure the stuck Target Level ject management ment principles a in multidisciplin - hands on experient e Curricular, Co- n experience of r Target Level long learning: 1	2.97 Center for Soft Skills at lents are equipped with Attainment Level t and finance: Demon nd apply these to one's ary environments. - nce on managing small curricular and Technica nanaging finances Attainment Level Recognize the need for,	Target Achieved nd Life Long Learning" will conduct various all possible communication tools Observations Strate knowledge and understanding of the engineering own work, as a member and leader in a team, to manage Target Achieved group tasks and associated finances by participating al clubs. Students activity points initiative will enable Observations and have the preparation and ability to engage in		
PO-10 At frequent in programmes PO PO-11: Proj and manage projects and PO-11 Students get I actively in the them hands o PO PO-12: Life independent	2.7 tervals the the "O to ensure the stuce Target Level ject managemen ment principles a in multidisciplin - hands on experience e Curricular, Co- n experience of r Target Level -long learning: I t and life-long lear	2.97 Center for Soft Skills an lents are equipped with Attainment Level t and finance: Demon nd apply these to one's ary environments. - nce on managing small curricular and Technica nanaging finances Attainment Level Recognize the need for, rning in the broadest co	Target Achieved Ind Life Long Learning" will conduct various all possible communication tools Observations Strate knowledge and understanding of the engineering to own work, as a member and leader in a team, to manage Target Achieved group tasks and associated finances by participating all clubs. Students activity points initiative will enable Observations Observations and have the preparation and ability to engage in ontext of technological change.		
PO-10 At frequent in programmes PO PO-11: Proj and manage projects and PO-11 Students get I actively in the them hands o PO PO-12: Life independent PO-12	2.7 ntervals the the "C to ensure the stuck Target Level ject management ment principles and in multidisciplin - hands on experient e Curricular, Co- n experience of r Target Level -long learning: I and life-long lear 2.7	2.97 Center for Soft Skills at lents are equipped with Attainment Level t and finance: Demon nd apply these to one's ary environments. - nce on managing small curricular and Technica nanaging finances Attainment Level Recognize the need for, rning in the broadest co 2.94	Target Achieved Ind Life Long Learning" will conduct various all possible communication tools Observations Observations Strate knowledge and understanding of the engineering own work, as a member and leader in a team, to manage Target Achieved group tasks and associated finances by participating al clubs. Students activity points initiative will enable Observations and have the preparation and ability to engage in ontext of technological change. Target Achieved		

Criterion - 9

Student Support Systems



CRITERION 9 STUDENT SUPPORT SYSTEMS

50

9.1 Mentoring system to help at individual level (5)

(Type of mentoring: Professional guidance/career advancement/coursework specific/ laboratory specific/all-round development, number of faculty mentors, number of students per mentor, Frequency of meeting. The institution may report the details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system)

1. Mentoring System

The role of the faculty as a mentor is one of nurturing and providing support for a student during the transition period in academic, professional as well as personal augmentation. In all departments of the Institution, mentoring is a continuous process where faculty mentors serve as a resource who will respond to many questions, trivial or complex, that the student might pose; support students in choosing course work that meets their needs and interests; encourage students to actively participate in seminars and laboratory work that are realistic in scope; and counsel the students on any other academic, professional, personal growth, etc., for necessary advice/guidance/help.

Role of a Mentor

- Keeps the records of student's profile in the prescribed format
- Maintains the records of absentees, problems/issues
- Explains to students the academic rules and regulation.
- Collects or downloads the attendance of each student for all courses either on monthly basis (if done manually) or fortnightly
- Examines the results of the students and counsel for poor results within a week after the results is published.
- Communicates with parents of students to discuss students' performance, any attendance issues and future plan at least twice in a semester.
- Gives specific guidance to students in selecting elective courses for registration.
- Gives guidance and information to plan for industry internship.
- · Ensures to provide study material for advanced courses or advance study
- · Gives guidance to students for selecting project topic, project guide, counsel them



on back papers and debarred courses.

• Reports Unresolved cases of students to Dean / HOD and if Dean / HOD require further attention to resolve the issue, the un resolved cases can be brought to the attention of higher authorities'/ student counselors.

I. Types of mentoring activities done towards students

• Academic Growth

- First, mentors educate their mentees in a particular course, serving as masters to the developing learners by analyzing their performance in continuous internal evaluation tests (CIE).
- Based on academic record, students with good performance are encouraged to achieve next higher level of performance and slow learners are motivated and guided to improve the performance.
- The mentors counsel the students for their low attendance, low performance in examination (with the emphasis on the reason(s) of low attendance and performance).
- Information of academic planners, academic schedules and e-learning resources are shared to enhance their knowledge.
- Students are given training for taking up competitive exam GATE, IES, UPSC etc.
- Faculty members encourage students to do poster presentation on the mini-projects and PBL based project learning.

• Professional Guidance

- The students are encouraged and guided to register themselves in the professional bodies like IEEE, CSI, and ISTE etc. to create awareness and enhance the knowledge about the various activities including research in their area of specialization.
- Mentors support their learning and enhance their laboratory and research skills through technical workshops/symposiums.
- Industry based training is offered to students to improve their chances of employability.
- Students are encouraged to develop their oral and written communication skills by writing research papers /articles and presenting in national and international conferences.
- The projects are designed based on real time scenarios to apprise students about the working culture of industry and industry expectations.



• Career Advancement

- Students are supported to take up online certification courses offered by MOOC/NPTEL/SWAYAM to strengthen the qualification for their academic progression. This also helps them to achieve higher career paths in the applied areas of their specializations.
- Career guidance and counseling is provided by senior faculty members and placement Co-coordinators
- Value added training programs are arranged to enhance their placement opportunities as well as to support their research in industry. Students are also encouraged to take up international professional certification for example in CISCO, Microsoft, Java, etc. This helps the students to improve their profiles for future.

• Laboratory Specific

- Counsel irregular students to laboratory classes to attend regularly and complete backlog experiments during specified extra hours.
- Arrange special lab coaching for Students with backlogs in external lab exams.

• All-round Development

• Encourage and support students towards all round development through participation in literary, cultural and sports activities which helps to develop leadership qualities, decision making abilities, team spirit, socio-psychological awareness, and shapes the student into an intellectually integrated person.

• Student Personality development

- Empower and enable inner adjustments by individual students to counter and cope with physical, emotional, mental, social and environmental challenges through student-counselor interaction/ through meditation workshops/ through other specialized workshops / activities.
- Use of therapeutic interventions by counselors where necessary; such as Cognitive Behavior Therapy(CBT), Rational Emotive Behavior Therapy (REBT), Desensitization Therapy, Psychodynamic therapy, Group therapy and so on.
- Engage in family /peer counseling by Counselor/ Mentor /HOD to strengthen student's interpersonal relationships thereby improving their grades.

II. List of Training activities

- Orientation of the students prior to Placement season.
- Aptitude Training.
- Mock online aptitude practice test.



- Technical training through labs.
- Mock online technical practice test.
- One to one career counseling and guidance to all the students.
- Mock Group Discussion practice.
- Personality development activities.
- Life skill trainings.
- Verbal and written communication trainings.
- Company specific trainings.
- Mock face to face interviews.
- Industry visits.
- Internship opportunities.
- Participation in Hackathon and other coding challenge contests.

Parameter	Description
Types of mentoring activities	Academic growth / Professional guidance / career advancement / laboratory specific / All – round development / Student personality development
Number of faculty mentors	30
Number of students per	14-16
mentor	
Frequency of meeting	Once in a month
Types of mentoring activities	Academic growth / Professional guidance / career advancement / laboratory specific / All – round development / Student personality development

Table 9.1.1.A: Summary of Mentoring System for EEE

Table 9.1.1	R٠	Summary	of	Mentoring	System	for	ISE
1 abic 7.1.1	·.D.	Summary	U1	Mentoring	system	101	1917

Parameter	Description
Types of mentoring	Academic growth / Professional guidance / career
activities	advancement / laboratory specific / All – round development / Student personality development
Number of faculty mentors	28
Number of students per mentor	20-25
Frequency of meeting	Once in a month
Counselor available for specific number of students	One per branch





The student mentoring process flow is shown below

Figure 9.1.1: The structure of mentoring report

III. Counseling System

Department of Counseling offers individual, group and family counseling in the campus. The Department is equipped with 6 professionally qualified counselors who are easily approachable to the students and help them to deal with their daily life challenges and develop an insight for making right choices and decisions in their lives. In the department, each counselor allows an individual to have an opportunity to improve upon their understanding of themselves, including their pattern of thoughts, behavior, feelings and the ways in which these may have been problematic in their lives. It also helps to examine how to tap into existing resources or develop new ones that enhance their academic and personal lives.

Procedure to be followed by counselors at NHCE:

- Department of counseling always focuses on mental health as well as academic achievement of students.
- Counselors are easily approachable to the students in two ways either through referral or self -walk in.
- Counselor helps them to deal with their daily life challenges and develop an insight for making right choices and decisions in their lives.
- After first session of counselling, counselor always follows up the students.
- If requires counselor uses paper pencil tests to find out the exact issue of students.
- Counselor always maintains soft copy report of the students. Department of counseling conducts awareness program for the students.
- In this pandemic situation it's difficult to meet the students in person but department



of counseling always ready to help students online or offline.

Sl. No.	Name	Designation
1	Ms Rajina R	Student Counselor
2	Ms Manasa T J	Student Counselor
3	Ms Prachi Bhavsar	Student Counselor
4	Ms Pallavi	Student Counselor

 Table 9.1.2: Details of Counselors committee members

<form>

Figure 9.1.2: Format of the counseling form used by counselor

IV. Efficacy of mentoring/counseling system:

The mentoring/counseling system developed by the college is very effective as defined by different parameters as listed.

Fable 9.1.3: Efficacy of Mentoring System	n
---	---

Parameters	Outcome
Student's Attendance:	Enhanced / improved
The Involvement of Students in the	
Academics, Co-Curricular and Extra-	Has improved
Curricular:	
Individual Student's Talents/ Skills	Excellence (the mentor/counselor/student ratio
Identified and Nurtured towards:	being optimum for supported growth).
Students' Self-Confidence/ Self- Esteem:	Improved over time, thus making inner adjustments easier and coping with and tackling successfully external challenges like facing job interviews/ speaking in public /giving presentations/ even mentoring peers.



9.1 (A) Sample Format of Mentoring System for EEE

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Figure 9.1.3: A snap shot of the mentoring system

Semester	Course Codes	Subject Name New	
Ι	21MA11	Engineering Mathematics I	
I	21CH12	Engineering Chemistry	
Ш	21EEE31A	Applied Mathematics -III	
ш	21HSS331A	Entrepreneurship Development-2	
Ш	21EEE37A	DC Machines and Transformers	
III	21HSS342A	Environmental Science	
IV	21HSS421A	Life skills for Engineers	
IV	21HSS441A	Constitution of India and Professional Ethics	
IV	21EEE41A	Applied Mathematics – IV	
IV	21EEE45A	Control Systems	
IV	21EEE46A	Synchronous and Induction Machines	
IV	21EEE47A	Microcontroller and Embedded Systems	
V	EEE52	Control Systems	
V	EEE53	Synchronous and Induction Machines	
V	EEE54	Signals and Systems	
V	EEE55	Industrial Automation	
VI	EEE61	Power system Analysis	
VI	EEE63	Power system Protection	
VII	EEE71A	Special Electrical Machines	
VII	EEE754A	Neural network and Fuzzy logic in Electrical Engineering	
VII	EEL78A	Project Phase-I	
VIII	EEE83A	Internship	
VIII	EEE84A	Project Phase- II	

Criterion-9 Self Assessment Report (SAR)



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Figure 9.1.4: Sample Student mentoring in Contineo

01 N	Mama	LIPAL	D-II	Comentar	Mature of	InsuelDataila	Punnestian (Asting	Date Of Passalan
51. NO	Name	USN	No	Semester	Counselling	Issue/Details	Plan	Date Of Session
1	SHRAVANI S	1NH21EE108		SEM03	Periodic counseling	Noissues	none	12-01-2023
2	SPOORTHI R	1NH21EE110		SEM03	Periodic counseling	NO ISSUES	none	12-01-2023
3	SREEJESH S	1NH21EE111		SEM03	Periodic counseling	NO ISSUES	none	12-01-2023
4	SRINIVAS ABHINAY GANDLA	1NH21EE112		SEM03	Periodic counseling	NO ISSUES	none	12-01-2023
5	SUCHITHRA	1NH21EE113		SEM03	Periodic counseling	NO ISSUES	none	12-01-2023
6	SUPRITH U	1NH21EE115		SEM03	Periodic counseling	NO ISSUES	none	12-01-2023
7	SURYA KIRAN KANAGALA	1NH21EE116		SEM03	Periodic counseling	Not given CIE-2 Because of health	none	12-01-2023
8	SYEDA MEHAK FATHIMA	1NH21EE118		SEM03	Periodic counseling	No issues	none	12-01-2023
9	TANNU PRIYA	1NH21EE119		SEM03	Periodic counseling	CIE-2 all exams absent, participated in activity	none	12-01-2023
10	THANUJAK	1NH21EE120		SEM03	Periodic counseling	NO ISSUES	none	12-01-2023
11	UDAY A KAMMAR	1NH21EE122		SEM03	Periodic counseling	No issues	none	12-01-2023
12	VAISHNAVI D	1NH21EE123		SEM03	Periodic counseling	NO ISSUES	none	12-01-2023

Figure 9.1.5 Sample Student mentoring report



Criterion-9 Self Assessment Report (SAR)



Figure 9.1.6: Sample Student Counselling Report - EEE

Table 0.1.5. Im	pact of efficacy	a of mentoring	counseling system
1 aoic 7.1.5. mi	Jact of efficacy	y of memoring/	counsening system

2022-23				2021-22	2020-21		
Type of Mentoring/ Counseling	No. of students counseled	No. of students improved	No. of students counseled	No. of students improved	No. of students counseled	No. of students improved	
Academic guidance	28	20	25	17	26	15	

9.1 (B) Sample Format of Mentoring System for ISE

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Figure 9.1.7: A snap shot of the mentoring system – ISE



Semester	Course Code	Subject Name			
Course Specific					
III	ISE36A	Operating System			
III	ISE37A	Data Base Management Systems			
IV	ISE45A	Data Structures with C			
IV	ISE46A	Object Oriented Programming using Java			
IV	ISE47A	Internet Of Things			
V	ISE51A	Web Internet Programming			
V	ISE52A	Design and Analysis of Algorithms			
V	ISE54A	Software Engineering & Project Management			
V	ISE53A	Data Science			
VI	ISE61A	Mobile Application Development			
VI	ISE62A	Advanced Java			
VI	ISE651A	User Interface Design			
VI	ISE653A	C# & .Net			
VI	ISE654A	Computer Graphics using Open GL			
VI	ISE655A	Soft Computing			
VII	ISE71A	Software Testing & Automation			
VII	ISE72A	Computer Networks			
VII	ISE73A	Cryptography and Information Security			
VII	ISE741A	Computer Forensics			
VII	ISE742A	Cloud Computing			
VII	ISE744A	Information Theory & Coding			
VIII	ISE753A	DevOps			
VIII	ISE755A	Deep Learning			
Laboratory Specific					
III	ISL36A	Operating System Lab			
III	ISL37A	Database Management Systems Lab			
IV	ISL45A	Data Structures with C Lab			
IV	ISL46A	Object Oriented Programming using Java			
IV	ISL47A	Internet of things Lab			

Table 9.1.6 List of Courses offered for Life Long Learning -ISE

Department of Electrical and Electronics Engineering | NHCE


V	ISL57A	Design and Analysis of Algorithms Lab
V	ISL56A	Web Internet Programming Lab
V	ISL58A	Data Science Lab
VI	ISL67A	Advanced Java Lab
VI	ISL66A	Mobile Application Development
VI	ISL68A	Machine Learning Lab
VII	ISL76A	Software Testing & Automation Lab
VII	ISL77A	Computer Networks Lab
		All-round Development
III	HSS321	Life skills for Engineers
III	HSS331	Entrepreneurship Development
III	HSS341	Constitution of India and Professional Ethics
IV	HSS442	Environmental Science
	Studer	nt personality development activity
III	ISE38A	Mini Project in C
V	ISE59B	Mini Project in Web Internet Programming
VI	ISE69B	Mini Project in Java
VII	ISE78A	Project Phase -1
VIII	ISE82A	Internship
VIII	ISE83A	Project Phase-2



Figure 9.1.8: Sample Format of Mentoring System for ISE



Information Science and Engineering Student Mentoring Report										
SI. No	Name	USN	Roll No	Semester	Nature of Counselling	Issue/Details	Suggestion/Action Plan	Date Of Session		
1	ZEBA SYED FAROOQ	1NH21IS192		SEM03	Periodic counseling	No issues	She have secured well in CIE1	09-12-2022		
2	AHANA THAKUR	1NH20IS206		SEM03	Periodic counseling	She is having issue OS Lab	More concentration on DLCO subject.	09-12-2022		
3	YELLATURU HARSHITH	1NH21IS190		SEM03	Periodic counseling	No issues	nil	09-12-2022		
1	GAJJELA REDDY VIDYA SHANKAR	1NH21IS202		SEM03	Periodic counseling	No issues	nil	09-12-2022		
5	YENGISETTI BHARATH KUMAR	1NH21IS191		SEM03	Periodic counseling	No issues	nil	09-12-2022		
6	VOGGU PARTHIV VALLABH	1NH21IS195		SEM03	Periodic counseling	No issues	nil	09-12-2022		

Figure 9.1.9 : Sample Student Mentoring Report -ISE



Figure 9.1.9: Sample Counseling Report -ISE

Table 9.7: Impact of efficacy of mentoring/counseling system -ISE

Type of	201	9-20	202	0-21	2021-22					
Mentoring/ Counseling	No. of students counseled	No. of students improved	No. of students counseled	No. of students improved	No. of students counseled	No. of students improved				
Academic guidance	19	15	52	42	30	16				



9.2. Feedback analysis and reward /corrective measures taken, if any (10)

(Feedback collected for all courses Specify the feedback collection process Average Percentage of students who participate Basis of reward/ corrective measures, if any; Indices used for measuring quality of teaching& learning and summary of the index values for all courses/teachers; Number of corrective actions taken).

Feedback on Teaching-Learning by Students

The entire process is executed in following three stages

- Feedback collection
- Feedback analysis
- Reward / corrective measures

Feedback Collection Process

- Feedback mechanism is well organized system in the college for all courses.
- All the students are allowed to give feedback.
- Computerized feedback is collected from students for all the courses. The feedback collection process is discussed in Table 9.8

Title	Description
Feedback collection process	Online feedback from all students on
recubilen concerton process	respective courses
Process	Online on CONTINEO
Frequency of feedback	Twice in a semester
Collection	
	5-Excellent 4-Very good 3-Good
Metrics used for calculation	2-Satisfactory
	1-Below average

Table 9.2.1: Feedback collection process

Feedback Analysis Process

Summary of the feedback reports pertaining to course, program and teaching- learning is prepared, usually on the scale of 1 to 5. The minimum expected feedback for a faculty member from the students is 3.5 on 5-point scale rating system. The feedback is shared with heads of the respective departments. Informal feedback is also taken directly by the heads from time to time during the ongoing semester. A special emphasis is paid on transparency and impact of the feedback system. A broad range of parameters that are used for collecting the feedback data is as given below.



- Particular on timely coverage of syllabus
- Ability to integrate content with other courses
- Depth of the course content including project work, if any
- Learning value (in terms of knowledge, concepts, manual skills, analytical abilities and broadening perspectives)
- Lectures are interesting
- · Logical structuring & sequencing of course content into modules
- Promptness & adequacy of feedback provided by teacher on academic performance
- Promptness in Evaluation of Tests, Assignments and Quizzes
- Punctuality (starting time & ending time for lectures, Lab classes and Tutorials Classes)
- Recap of last lecture, assignments, quizzes, projects, discussion, case studies etc.
- · Teacher comes well prepared to teach in the class
- Teacher encourages students to ask questions and are satisfied with answers
- Teacher encourages students to think independently
- · Teacher gives real life examples/ uses videos
- Teacher is approachable to students for Academic/ personal advice
- Teacher is clear with course concepts
- Teacher is enthusiastic about teaching the course
- Teacher provides course and lecture outline at the semester beginning
- · Teacher suggests web-links related to the topics taught
- Teacher takes extra care to ensure learning
- Teacher uploads the teaching material well before the class
- The course materials (e.g. text, case studies, readings etc.) are helpful in learning the course. The evaluation process is well designed during the course
- There is clarity in presentation, considering language, voice and black board writing





A format of student feedback on teaching -learning is given in figure

	FORMAT of Student Feedback or	n Teaching – Learning
<u>C</u>	<u>Duestionnaire</u>	
1	. Clarity in explaining the subject	
2	. Subject explained was easy to unde	rstand
3	. Content quality is relevant and usef	ìul
4	. Faculty answers to your queries/que	estions
5	Coverage of topic/subject is on time	e
6	. The concepts were explained with e	examples
7	. Faculty preparation for the class	
8	. Faculty guidance for preparation of	seminar, conference and
	exam	
9	Punctuality of the faculty for the cla	ass
1	0. Communicates distinctly and effect	ively
1	1. Treats students with respect and eff	<i>Tectively</i>
1	2. Control of the classroom by faculty	
1	3. Relevance of assignments to the sul	bject
1	4. Overall satisfaction	
1	5. Discussion of any interesting topic relevant to the field.	beyond the syllabus but
1	6. Usefulness of the question papers o	f internal tests in your
	preparation for the examination.	
1	7. Helpfulness of the online course ma	aterial (question bank, etc.)
	and assignments for you to understa	and and prepare and for tests
1	8 Accessibility availability after the c	lass hours in the college
I I	8. Accessionity availability after the c Rating of Scale	hass nours in the conege.
<u> </u>	5- Excellent 2-	Fair
-	4- Very Good 1-	Poor
	3- Good	

Figure 9.2.1: Format of student feedback on Teaching – Learning

Reward / corrective measures

Methodology being followed for corrective measures taken:

Based on the consolidated feedback and faculty self-appraisal reports, the faculty members are appraised about their performance. Some of the faculty members are appreciated and awarded monetarily, in recognition of their exemplary efforts of

- Resourcefulness
- Innovations in bringing about the change
- Dependability in their work
- Expertise used and developed in academics, research and patenting

Necessary corrective actions taken for the faculty members whose feedback score is less than the institution standard, are as given below.



Head of the Department chairing the senior faculty members advise the faculty member suitably with regard to

- Clarity in explanation, effective communication, syllabus coverage
- Participating in Faculty Development Programs (FDPs).
- Enhancing their academic skill set with the peer support within a stipulated time period.

The performance is reviewed regularly.

9.2 Sample Feedback analysis

A broad range of parameters that are used for collecting the feedback data is as given below.

- Particular on timely coverage of syllabus
- Ability to integrate content with other courses
- Depth of the course content including project work, if any
- Learning value (in terms of knowledge, concepts, manual skills, analytical abilities and broadening perspectives)
- Lectures are interesting
- Logical structuring & sequencing of course content into modules
- Promptness & adequacy of feedback provided by teacher on academic performance
- Promptness in Evaluation of Tests, Assignments and Quizzes
- Punctuality (starting time & ending time for lectures, Lab classes and Tutorials Classes)
- Recap of last lecture, assignments, quizzes, projects, discussion, case studies etc.
- Teacher comes well prepared to teach in the class
- Teacher encourages students to ask questions and are satisfied with answers
- Teacher encourages students to think independently
- Teacher gives real life examples/ uses videos
- Teacher is approachable to students for Academic/ personal advice
- Teacher is clear with course concepts
- Teacher is enthusiastic about teaching the course
- Teacher provides course and lecture outline at the semester beginning
- Teacher suggests web-links related to the topics taught
- Teacher takes extra care to ensure learning
- Teacher uploads the teaching material well before the class





- The course materials (e.g. text, case studies, readings etc.) are helpful in learning the course
- The evaluation process is well designed during the course
- There is clarity in presentation, considering language, voice and blackboard writing

NOY DOUBLED	Home Took .	
VE/Samo		
	STUDENT FEEDBACK - IVEN TERM 2020	
storm is givent	to you to analyze the effectiveness of the service offered at NHCE. Please answer the quest	ons below to the best of your ability to
each one of yo	ing about the course so far, and not those of your collective group. This would help us in acc u individually, and the level of interaction between you, faculty and the institution. Please	be honest and candid in your (eedback
	Sector Research (STRESS)	
	FEEDBACK ON FACULTY	
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Pla.		Dullate B H
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2	Content guality is relevant and useful.	Select V
4	Faculty answers to your queries/questions.	Eelest ~
5	Coverage of topic/subject is on time.	Salect w
	The concepts were explained with examples.	Select V
7	Faculty preparation for the class.	Select 🗸
8	Faculty guidance for preparation of seminar, conference and exam.	Select ~
9	Punctuality of the faculty for the class.	Select 🗸
10	Communicates distinctly and effectively.	Select 🗸
11	Treats students with respect and courtesy.	Select 🛩
12	Control of the classroom by faculty.	Select 🗸
13	Relevance of assignments to the subject.	Select 🗸
14	Overall satisfaction.	Select ~
15	Discussion of any interesting topic beyond the syllabus but relevant to the field.	Select ~
16	Usefulness of the question papers of internal tests in your preparation for the examination.	Select 🗸
17	Helpfulness of the online course material (question bank, etc.) and assignments for you to understand and prepare and for tests and examination.	Select 🗸
1.0	Accessibility availability after the class hours in the college.	Select V

Figure 9.2.2: Sample Students feedback on Teaching -Learning

Rewards/Corrective Measures

Based on the consolidated feedback reports and faculty self-appraisal reports, the faculty members are apprised about their performance.



Figure 9.2.3: Sample Corrective Measure on teaching-learning



9.2 (A) Sample Feedback analysis for EEE

	New Horizon College of Engineering																						
	Department of EEE																						
SR. No.	Name of the faculty	CLASS	No of Students	Subjects	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q 10	Q11	Q 12	Q13	Q14	Q 15	Q 16	Q 17	Q 18	Avg.
		EE SEM III SEC A	14	21EEL35A	4.64	4.57	4.86	4.64	4.79	4.86	4.79	4.93	4.77	4.71	4.86	4.79	4.71	4.71	4.8	4.79	4.86	4.71	4.77
1	Mr Satishkumar D	EE SEM III SEC A	13	21EEL35A	4.15	4.08	4.08	4.31	4.38	4.15	4.38	4.31	4.23	4.31	4.23	4.15	4.08	4.15	4.3	4.33	4.25	4.15	4.22
1	WI.Satistikumar.D	EE SEM III SEC A	11	21EEL35A	3.73	3.64	3.73	3.55	3.82	3.73	3.64	3.73	3.64	3.55	3.64	3.73	3.73	3.64	3.5	3.36	3.55	3.55	3.63
			Overall avg		4.17	4.1	4.22	4.17	4.33	4.25	4.27	4.32	4.21	4.19	4.24	4.22	4.17	4.17	4.2	4.16	4.22	4.14	4.21

Figure 9.2.4: Sample Students feedback on Teaching - Learning - EEE

A consolidation of feedback analysis on teaching -learning department wise is given in table 9.2.4

Table 9.2.1.A	. :	Feedback	Analysis	-EEE
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	NEW HORIZON COLLEGE OF ENGINEERING										
	DEF	PARTMENT OF ELECTRICAL AND ELECTRONIC ENGI	NEERING								
]	Faculty feedback anal <u>ysis - 2022-23 - EVEN SEM</u>									
Sl.No	Feedback Range	Faculty Name	Score								
1		Dr. K.Vinoth Kumar	4.67								
2		Mrs. A. Anitha	4.61								
3		Ms. Sangeetha C N	4.6								
4		Dr. S. Sujitha	4.58								
5		Prof. Anand K	4.58								
6	455	Dr. N.Prabhakaran	4.58								
7	4.5-5	Ms. Soumya K V	4.52								
8		R MOHAN DAS	4.51								
9		Mr. SUNIL	4.51								
10		Mr. Joshua Daniel Raj	4.5								
11		Ms. Manochitra G	4.49								
12		Ms. Pooja Jose	4.45								
13		Mr. Kodandapani D	4.44								
14		Dr.Revathi R P	4.44								
15		Mrs. Kavitha Chenna Reddy Chenna Reddy	4.38								
16	4.4.5	Ms.Geetha Varma	4.38								
17	4-4.3	Mr. Kartheek Vankadara	4.36								
18		Dr.V.Agalya	4.36								
19		Mr.Satishkumar.D	4.21								
20		Ms.Surat Pyari Atti	4.14								

Table 9.2.2 : Faculty Feedback Analysis for EVEN Semester 2023

Total nur	EEE 20	
Feedback	4.5-5	10
Feedback	4-4.5	10
Feedback	3.5-3.99	0
Feedback	less than 3.5	0

Department of Electrical and Electronics Engineering | NHCE





Figure 9.2.5: Sample Feedback Analysis on Teaching- Learning

- List of faculties with student feedback <3.5 Nil
- Activity followed for faculty having student feedback <3.5 Nil
- FDP attended by faculty having student feedback<3.5 Nil
- NPTEL courses attended by faculties having student feedback <3.5 Nil

	New Horizon College of Engineering																						
	Department of ISE																						
SR. No.	Name of the faculty	CLASS	No of Students	Subjects	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q 10	Q 11	Q 12	Q13	Q 14	Q 15	Q 16	Q17	Q 18	Avg.
		IS SEM III SEC B	62	211SE37A	4.24	4.35	4.32	4.52	4.32	4.56	4.26	4.34	4.55	4.44	4.37	4.48	4.58	4.27	4.4	4.37	4.37	4.52	4.4
		IS SEM III SEC B	31	211SL37A	4.55	4.48	4.55	4.42	4.58	4.32	4.32	4.35	4.52	4.42	4.55	4.52	4.42	4.29	4.4	4.45	4.42	4.4	4.44
1	Arvind Kapse	IS SEM III SEC B	31	211SL37A	4.52	4.55	4.55	4.39	4.61	4.52	4.58	4.39	4.52	4.58	4.68	4.55	4.65	4.52	4.7	4.68	4.65	4.65	4.57
	1997 AMERICAN STR	IS SEM V SEC A	46	20ISE551A	4.69	4.76	4.76	4.84	4.87	4.82	4.87	4.82	4.91	4.89	4.87	4.89	4.93	4.96	4.9	4.91	4.84	4.84	4.86
			Overall avg		4.5	4.54	4.55	4.54	4.6	4.56	4.51	4.48	4.63	4.58	4.62	4.61	4.65	4.51	4.6	4.6	4.57	4.6	4.57

9.2 (B) Sample Feedback analysis for ISE

Figure 9.2.6: Sample students feedback on teaching-learning - ISE



A consolidation of feedback analysis on teaching -learning department wise is given in table 9.2.3

NEW HORIZON COLLEGE OF ENGINEERING												
	DEPARTMENT	OF INFORMATION SCIENCE	E AND									
	ENGINEERING											
	Facul	<u>ty feedback analysis - 2022-23 -</u>	EVEN SEM									
Sl.no.	Feedback	Name of the	Score									
	range	faculty										
1	-	Ms. Vijaya	4.71									
2		Ms. Suma T	4.83									
3	-	Dr. Saravanan K	4.82									
4	-	Sabarinath S.	4.78									
5	-	Dr Mohan H S	4.65									
6	-	Ankita Jeewankar	4.61									
7		Suneetha V	4.77									
8		Jaydeep Amin Prabhakar	4.78									
9		Arvind Kapse	4.57									
10		Dr Sivaramkrishnan S	4.66									
11		Kiran Kumar B	4.58									
12		Prof. Anand K	4.63									
13	45-5	DevRanjan Chatterjee	4.64									
14		Saranya Batta	4.58									
15		Nivetha K	4.64									
16		SWATHI B	4.85									
17		VANDANA C P	4.78									
18		Srinivasan L	4.84									
19		Suvika K V	4.82									
20		Dr Rajlakshmi Ghatkamble	4.64									
21		Karthiyayini J	4.74									
22		Priya N	4.57									
23		DIVYA KV	4.72									
24		Sony M Kuriakose	4.71									
25		Bibiana Jeniffer	4.69									
26	ļ	Dr Anandhi R J	4.57									
27		Latha S S	4.51									
28		Rama Dan	4.52									
29		Anitha R	4.52									
30		Mrs. M S Shoba Nhce	4.49									
31		Prabhu James	4.48									
32		Kalaivani D	4.39									
33	4-4.5	Neha Jadhav	4.32									
34		Karthick Myilvahanan Jothivel	4.36									
35		Shruthi G R	4.42									
36		Chitti T N	4.39									
37		Krishnaveni A	4.49									
38		Shalini A	4.2									

Table 9.2.3. Sar	nnle feedhack	analysis on	Teaching_I	earning _ISE
1 abic 7.2.3. Sal	חטור וכנטטמנא	analy 515 011	i cacining -i	Jearning -15E

Total number of Faculties		
Feedback	4.5-5	29
Feedback	4-4.5	09
Feedback	3.5-3.99	0
Feedback	less than 3.5	0

Table 9.2.2 : Faculty Feedback Analysis for Even Sem 2022-23



Figure 9.2.7: Sample feedback analysis on Teaching- Learning - ISE

- 1) List of faculties with student feedback <3.5-----Nil
- 2) Activity followed for faculty having student feedback <3.5------Nil
- 3) FDP attended by faculty having student feedback<3.5-----Nil
- 4) NPTEL courses attended by faculties having student feedback <3.5-----Nil

A common format of faculty feedback and corrective measure analysis on teaching learning is given in figure 9.2.8



NEW HORIZON COLLEGE OF ENGINEERING, BANGALURU

DEPARTMENT OF _____

FACULTY FEEDBACK AND CORRECTIVE MEASURE ANALYSIS

FACULTY NAME: -

YEAR: -

DESIGNATION: -

SEM/

SI. No	Curriculum, Teaching, Learning and Evaluation:	Excellent (5)	Very Good (4)	Good (3)	Average (2)	Poor (1)
1.	Clarity in explaining the subject & Treats students with respect and courtesy.					
2	Communicates distinctly and effectively.					
3	Aims and objectives of the syllabi are well defined and clear to students					
4	Course content is followed by corresponding reference books/materials					
5	The course/syllabus has good balance between theory and Lab.					
6	The course/syllabus of this subject increased my knowledge and perspective in the subject area					
7	The course/program of studies carries sufficient number of optional papers.					
8	Counseling the faculty through counselors About building confidence in handling the subject(referral*)					
9.	Deputing faculty to FDP (if any) (referral)					

Figure 9.2.8: Sample Corrective Measure on teaching-learning



9.3. Feedback on facilities (5)

(Assessment is based on student feedback collection, analysis and corrective action taken).

A standard procedure of feedback on facilities demonstrates a commitment to excellence in the planning and provision of services across different departments of the University. The feedback is collected from the students on the facilities available in the university such as class room infrastructure, library, laboratories, hostel, playground, Internet facility, food court etc.

The feedback is analyzed and the necessary corrective measures are implemented after discussions with the management.

The feedback on facilities is taken up in the department as per the following steps:

- 1) Feedback collection
- 2) Feedback analysis
- 3) Corrective measures

Feedback Collection:

A formal feedback is gathered, at least once during every semester, about the use and satisfaction with a variety of facilities and services which are categorized as

- General Facilities & Services
- Technology Services
- Specialized Services

A broad range of parameters that are used for collecting feedback on facilities is given below:

- Availability of teaching aids such as multimedia projectors, speakers etc. in classrooms/ tutorial rooms
- Library space and ambience, timings and usage
- Adequacy of number of titles in library or range of text and reference books covering syllabus relating to different courses
- Adequacy of Internet facilities in terms availability of terminals &bandwidth
- Drinking water facilities & their maintenance
- Canteen facilities
- Medical & first-aid facilities
- Housekeeping & maintenance
- Infrastructure for Co-curricular and extra-curricular activities
- Mentoring system to help students at individual level

The details of feedback collection process on facilities are summarized in Table 9.10

Items	Description	
Feedback collected on all facilities provided by	VES	
the college.	125	
Feedback collection process	Computerized	
Feedback receiver	Administrative officer / Admin	
	manager	
Frequency of feedback collection	Once in an academic year	
	Strongly agree	
Metrics used for calculation	Agree	
Netres used for calculation	Partially agree	
	Disagree	
Purpose of comments	For improving the quality of	
	facilities.	

 Table 9.3.1: Details of feedback collection process

Format of student feedback on Facility Feedback analysis

A combined report is prepared on the basis of students' feedback under the supervision of committee and corrective action suggested to the appropriate departments/person to resolve these problems and improve the facilities continuously. A sample feedback on facilities is given below.

On institution website, a student's portal is made available to post students grievances. When students register their complaint, they are being referred to corresponding department for timely resolution.



Figure 9.3.1: Table Tennis room



Figure 9.3.2: Gymnasium

The feedback format consists of following questions

Questionnaire

- 1. How do you rate the Canteen facilities provided by the institution?
- 2. How do you rate the class room Infrastructure?
- 3. How do rate the cyber lab facility provided by the institution?
- 4. Are you satisfied with the extracurricular infrastructure at College?
- 5. Are you satisfied with the Hostel Facility provided by the institution?



- 6. How do you rate the Lab facilities at the institution?
- 7. How do you rate the Library Facilities provided by the institution?
- 8. Are you satisfied with the placement support provided?
- 9. How is the responsiveness of Accounts office?
- 10. How is the responsiveness of College Admin office?
- 11. How is the responsiveness of Exam office?
- 12. How do you rate the Sports facilities provided by the Institution?
- 13. Are you satisfied with the toilet facilities and Maintenance?
- 14. How do you rate the transport facility provided by the college?



Figure 9.23: Sample Student feedback on facilities

Rating of Scale

5-Excellent 4-Very Good 3-Good 2-Satisfactory 1-Below Average

On the institution website, a student's portal is made available to post students' grievances.

When students register their complaints, they are being referred to corresponding department

for timely resolution.

Corrective Measures

Some of the corrective actions taken are

- Recreation center
- Dance room and music room in boys' hostel
- Gymnasium
- Table Tennis room
- Enhancement of food court



NEW HORIZON COLLEGE OF ENGINEERING, BANGALURU <u>FEEDBACK FORM ON FACILITIES</u>

YEAR:	SEM:
SEC:	

FACILITIES/ RATINGS	EXCELLENT (5)	VERY GOOD (4)	GOOD (3)	AVERAGE (2)	FAIR (1)
CLASS ROOM					
INFRASTRUCTURE					
LIBRARY					
LABORATORIES					
CANTEEN					
PLAYGROUND					
INTERNET					
FACILITY					
INDOOR STADIUM					
PARKING SPACE					
COLLEGE					
AMBIENCE					
MEDICAL					
FACILITY					
OVERALL RATING					

REMARK IF ANY

Figure 9.3.4: Sample Student feedback on facilities



9.3(A) Feedback analysis for EEE

	New Horizon College of Engineering				
Feedback on Facilities of the Institute					
SR. No.	R. No. Question Avg. Ratir				
1	Library facilities. 4.44				
2	Canteen facilities.	4.33			
3	Placement support provided.	4.39			
4	Lab facilities.	4.31			
5	Cyber Lab facility.	4.28			
6	6 Classroom Infrastructure. 4.24				
7 Extra-curricular activities at College. 4.34		4.34			
8 Responsiveness of college admin office. 4.2		4.2			
9 Responsiveness of Exam office. 4.29		4.29			
10Responsiveness of Accounts office.4.14		4.14			
11 Transport facilities of the College. 4.28		4.28			
12 Toilet facilities and maintenance. 4.2		4.2			
13 Hostel Facility.		4.15			
14	Sports Facility.	4.23			
Total Ave	Total Average 4.27				
No. of Student 2735					





Figure 9.3.6. A: Feedback and Corrective Action - EEE



9.3(B) Feedback analysis for ISE

	New Horizon College of Engineering		
	Feedback on Facilities of the Institute		
SR. No.	R. No. Question Avg. Rating		
1	Library facilities.	4.44	
2	Canteen facilities.	4.33	
3	Placement support provided.	4.39	
4	Lab facilities.	4.31	
5	Cyber Lab facility.	4.28	
6	6 Classroom Infrastructure. 4.24		
7	7 Extra-curricular activities at College. 4.34		
8	8 Responsiveness of college admin office. 4.2		
9	9 Responsiveness of Exam office. 4.29		
10	10Responsiveness of Accounts office.4.14		
11	11Transport facilities of the College.4.28		
12	12Toilet facilities and maintenance.4.2		
13	13Hostel Facility.4.15		
14	Sports Facility.	4.23	
Total Ave	Total Average 4.27		
No. of Stu	dent	2735	

Figure 9.3.5 B: Sample Student feedback on facilities - ISE



Figure 9.3.6. B: Feedback and Corrective Action - ISE



9.4 Self-Learning (5)

(The institution needs to specify the facilities, materials and scope for self-learning / learning beyond syllabus, Webinars, Podcast, MOOCs etc. and evaluate their effectiveness)

Self-learning is endorsed in the institution by generating self-learning facilities under various learning activities, resources and environments for students based on their academic background. Students are encouraged for self-learning by personal counseling and mentoring.

Scope of Self-learning

- Web based learning (Learning a course online or partially online through MOOCs, NPTEL, SWAYAM, edX, Coursera, Webinars, YouTube)
- Library and Digital Library
- McGraw-Hill digital books
- Learning activities around collaborative projects (PBL- Project Based Learning)
- Learning around case descriptions (Case Study)
- Assignments
- Professional bodies
- Club activities

Additional resources for online learning for both faculty and students

Exposure was given for additional learning resources both for faculty and students. Some of the resources are listed below:

- NHCE digital library resources on the Internet (earlier it was on Intranet) text books
 / Question papers / Lesson modules / Student project reports / other references / e-books are available online
- 3062 users from New Horizon College of Engineering registered on the portal vtuconsortium.org, qualifying as the highest number among all the colleges as per the communication received from Prof. Konnur, Advisor- VTU Consortium, VTU, Belagavi
- Virtual labs
- e-Content URL's
- Open access resources
- 408 e-books
- Online certification courses
- Websites for academic enrichment
- Webinars



Webinars organized by New Horizon College of Engineering during Covid (to name			
a few)			
Coping with studies during dark clouds of Covid 19 Collegedunia			
How to sharpen the skills?			
Math works			
MATLAB			
Intellectual property rights			
Competency mapping and career direction			
Career opportunities post Covid 19			
Latest trends in Machine Language			
Embracing the new normal			
Future of HR			
Cracking the code of career development			
Data driven decision-making using AI			
Emerging trends in business and finance			
Power train and electromagnetic transients			
Reshaping of HR practices and business excellence			
AI applications in industries			

Table 9.4.1: A sample list of webinars organized during Covid

Following are the various modes of self-learning and facilities created in the institution.

Table 9.4.2: Self Learning Facilities

Web based learning	 It creates the opportunity for sharing ideas & knowledge and also helps improving lifelong learning skills by providing easy access to global resources. It improves cross-cultural relation-ships which lead to collaboration between institution educators and learners locally and internationally. Enhances active learning. Contextualized content can be shared by all
Library/Digital Library	 The college library provides information and ideas that are fundamental to functioning successfully in today's information and knowledge-based society. College library equips students with learning skills and develop their knowledge The Digital Library offers, NPTEL videos. Sufficient systems with multimedia facilities. Institutional membership of DELNET, a library networking database. Internet facility.
Project Based Learning	 Enables students to think from different angles or simply 'to think out of the box'. To aid in language development and in particular subject



	areas of study.		
	• Helps in building knowledge base.		
	Helps in building Team work		
	Students are actively engaged in figuring out the principles by abstracting from the examples. This develops their skills in:		
Case study	 Problem solving Analytical tools, quantitative and/or qualitative, depending on the case Decision making in complex situations 		
	 Coping with ambiguities 		
	 Joining a professional association will be one of the most important activities in a student's career. 		
Professional Bodies	• To increase knowledge in their own fields, expand networking possibilities or jump start to job hunt, a professional association membership is an option which is worth exploring.		
	• All career options are corresponding professional association that offers valuable information and resources for their career enhancement.		
	• ISTE, IEEE and CSI student chapters are established where the students can achieve the knowledge about the advance engineering skills.		
	• Helps in building knowledge base.		
	• It increases visibility, credibility, and competitive advantage		
Club Activities	• It can be an excellent chance to network with other people in related field, allowing the student to feel more integrated into professional community.		
	• It enables students to go through the topics in a more elaborate manner in order to explore the academic topic which lead to an overall better learning experience for students.		
Assignments	• Assignments help the students to understand the subject in a more detailed pattern.		
	• Faculty will conduct assignments on regular basis with two units of every subject and these are graded.		



The Source and Tools of Self Learning

The sources and tools of self-learning used are as shown in Table 9.13

Sl. No.	Self-Learning Sources	Tools	ICT Support
1. E Courses/Learning		NPTEL Course Era Swayam	Computer System Internet Connection
		Udemy	~ ~ ~
2.	Workshops	Conducted by different organizations	Computer System Internet Connection
3.	Conferences	Organized by various institution	Computer System Internet Connection
4.	Self-Study	Self-study topics as specified by faculty handling courses	Computer System Internet Connection
5.	Projects Based Learning	Students gain knowledge and skills by developing mini projects and projects	Computer System Internet Connection

Table 9.4.3: Sample Sources and tools of self-learning

Process of Self Learning

In the classrooms:

• Faculty members run at least 2 video lectures per course and evaluate as per Table 9.4.4

Giving Reference of Materials:

- Faculty member shall give reference of video lectures or other online materials for every topic.
- The reference shall be mentioned in the lecture schedule



Criterion-9	Self	Assessment	Report	(SAR)	

Sl. No.	Mode of Evaluation	Related Sources in which student shall be asked by faculty member to prepare through self-learning	Description
1.	Quiz	E-Books, Course and lecture materials	Questions are framed on the portion of content in which student are asked to prepare through self-learning using all sources mentioned. Quiz is conducted in the class or it shall be conducted online or in extra class (it students are free)
2.	Quiz	On the video material posted by faculty for flipped class room.	Quiz is conducted in the class or it shall be conducted online.
3.	Presentation	Magazine, Journal and articles	Student is asked to prepare on particular topics through self study (in magazine, journal.
4.	Assignment on problem solving	Course and lecture materials	Assignment on problem solving is given by faculty member on lecture material.
5.	Report preparation	Magazine, Journal and articles	Students are asked to write a review report on literature.
6.	Viva	Books, Course and lecture materials	Faculty member conducts viva voce to know the level of understanding.
7.	Quiz /test	MOOC/SWAYAM/NPTEL other ICT tool	Students register and take up the examination and obtain certificates.

Table 9.4.4: Mode of evaluation with various related sources of self-learning

9.4(A) Scope of Self-learning for EEE

A.MOOC Courses by Students

MOOC courses are used as an alternative method to bridge the gap and expand the existing knowledge. Every academic year students are appraised of the MOOC courses that can be considered as self-study for specific courses of the semester. Students are encouraged to take up at least one MOOC for the courses specified. This exposes the student to the different avenues of learning like interactive user forums and multimedia repositories, thereby ensuring the development of lifelong learning skills.

A year wise consolidation of the MOOC courses registered and completed by students is given in Table 9.4.10.



Table9.4.10.A:MOOC Courses Registered and Completed by Students

Sl. No	Year/ Sem	NPTEL Course Name	Course Duration	Total No. of Students Registered	
		Academic Year 2019-2	020		
1	3rd/6 Sem	Energy Economics And Policy - Online	8 Weeks	80	
2	3rd/6 Sem	Programming In Java - Online	8 Weeks	1	
3	4th/7 Sem	Google Cloud Computing Foundation Course	4 Weeks	1	
		Academic Year 2020-2	021		
1	3rd/6 Sem	Energy Economics And Policy – Online	8 Weeks	6	
2	3rd /5th Sem	Cloud computing	8 Weeks	1	
3	3rd/6 Sem	Programming in C++	8 Weeks	2	
4	3rd/6 Sem	Introduction to Smart Grid	8 Weeks	7	
5	4th/7 Sem	Design of photovoltaic systems	12 Weeks	1	
	A	cademic Year 2021 – 2	2022		
1	3rd/6 Sem	Neural Science for Engineers	12 Weeks	1	
2	3rd/6 Sem	Introduction to Industry 4.0 and Industrial Internet of Things	12 Weeks	1	
	A	cademic Year 2022 – 2	2023		
1	3rd/6 Sem	C Programming and Assembly language	4 Weeks	94	
2	3rd/6 Sem	Programming, Data Structures and Algorithms Using Python	2		
3	3rd/6 Sem	Basic Environmental Engineering and Pollution Abatement	12 Weeks	1	



Sl. No	Faculty	NPTEL Course Name	Course Duration	Total No. of faculties Registered
		Academic Year 2021-2022		
1	Faculty	Programming in Java	12 weeks	1
	· · · · ·	Academic Year 2020-21		
1	Faculty	Accreditation and Outcome	4 weeks	1
		Based Learning		
2	Faculty	Introduction to Smart Grid	4 weeks	3
3	Faculty	Advances in UHV	4 weeks	1
		Transmission and		
		Distribution		
4	Faculty	Introduction to Research	4 weeks	1
5	Faculty	NBA Accreditation and	4 weeks	1
		Teaching - Learning in		
		Engineering(NATE)		
6	Faculty	Effective Engineering	4 weeks	1
		Teaching and Practice		

Table 9.4.10 .A : MOOC Courses Registered and Completed by Faculty





A.1 Paper Publication

The department also encourages students to publish papers in national/international journals. To promote this culture department/institution organizes National / International conferences as well. Table 9.4.11, 9.4.12 shows the papers published by the students of Electrical and Electronics Engineering in various journals / conferences

SI No	NSN	Student Name	Paper Title	Conference Name	Date of Publication
	1NH18EE031	Mohammed Omer Ali		2022 First International	
-	1NH18EE057	Siddhartha Sunil Singh	A Review on Self Stabilizing Platform in Scope of	Conference on Artificial	
-	1NH18EE066	Tahoora Imtiyaz	Merchant Navy Applications	Intelligence Irends and Pattern Recognition	03-08-2022
	1NH18EE036	Nayrah M A		(ICAITPR)	
	1NH18EE031	Mohammed Omer Ali			
ſ	1NH18EE057	Siddhartha Sunil Singh	PID Controller Based Self Stabilizing for Inertia Platform	2022 IEEE 2nd Mysore Sub	
V	1NH18EE066	Tahoora Imtiyaz	using Electrical Parallel Technology	Section International Conference (MysuruCon)	7707-71-61
	1NH18EE036	Nayrah M A			
	1NH18EE055	Shiva R V		2022 3rd International	
3	1NH18EE049	Sagar Kulkarni	ANFIS based Vibration Monitoring System for Agriculture Dumning System with Fuzzy Logic Inference	Conference on Smart Electronics and	22-11-2022
	1NH18EE040	Lavin Ponnappa M M		Communication (ICOSEC)	
	1NH18EE017	Greeshma Chennareddy			
~	1NH18EE010	Chitra S	Modelling and Design of Solar-Powered DC Refrigerator	Conference on Smart	
+	1NH18EE013	Kavipriya E	for Vaccines Transportation in Remote Areas	Electronics and	7707-11-77
	1NH18EE050	Sahana B			
	1NH18EE758	Vishwanath Patil		2022 IEEE 2nd Mvsore Sub	
5	1NH18EE733	P.Md.Muthahir Khan	An Accident Identification and Alerting System by Using Rasuberry Pi	Section International	13-12-2022
	1NH18EE707	Bharatesh Shiradoni		Conference (MysuruCon)	

Table 9.4.11: Paper Publication by Student - 2022-23

Г



	1NH18EE754	Venkan Gouda				
	1NH18EE758	Vishwanath Patil		2003 4th Internetional		
	1NH18EE733	P.Md.Muthahir Khan	Implementation of Smart Vehicle Accident Detection using	2022 4th International Conference on Inventive	CLUC C1 OF	
0	1NH18EE707	Bharatesh Shiradoni	Raspberry PI in Smart Cities	Research in Computing	7707-71-67	
	1NH18EE754	Venkan Gouda		Applications (IUIRUA)		
	1NH18EE067	Sayanth PV				
r	1NH18EE756	Vishal Suresh	Analysis of Performance Enhancement for DC Distribution	2022 International Conference on Edge		
-	1NH18EE701	Adithya Hegde	Distribution Network using nyorid AC DC	Computing and Applications	08-11-2022	
	1NH18EE739	Nahush S		(ICECAA)		
	1NH18EE710	C Bhavana Singh		2022 7th International		
~	1NH18EE708	Bhavana YC	Data Analytics for Parameter Estimation of an Electric Ricocle using IoT	Conterence on Communication and	29-07-2022	
	1NH18EE709	Bindhu V		Electronics Systems		
	1NH19EE003	Abhishek		Internetional Conformation		
	1NH19EE013	Anil Hegde H	A review of remote health monitoring system for patients	Automation, Computing and	5000 CV EV	
٨	1NH19EE032	Dhruva S Srinivas	sing loT	Renewable Systems	6707-70-10	
	1NH19EE038	Krishna Chaitanya		(ICACKS-2022)		
	1NH19EE008	Aishwarya P		1000 (44) International		
0	1NH19EE023	Charishma A	A Review of Theft Diagnosis from Smart Energy Meter	Conference on Electronics,	16 01 2022	
10	1NH19EE042	Gautammee KK	Using IoT	Communication and	6707-10-01	
	1NH19EE055	Kesamreddy Deepthi		Acrospace recinology		
-	1NH19EE066	M Rohith Kumar Reddy	Design and fabrication of Quad Bike for physically	International Conference on	06 04 2033	
11	1NH19EE046	Harshitha R	Challenged person	Smart Generation Computing, Communication	00-04-202	
	1NH19EE018	Anoopkumar H S		2003 Ath International		
5	1NH19EE024	Chethan D R	Herbs Ailment Diagnosis using AI Techniques for	Conference on Innovative	2005 2005	
17	1NH19EE028	Deekshith More B	Sustainable Innovation in Agriculture	Trends in Information	6707-60-07	
	1NH19EE062	Kushal A Y		recimology (ICITITI)		

Department of Electrical and Electronics Engineering | NHCE



	1NH19EE027	Dechamma V S			
;	1NH19EE047	J Likitha	Study of Interfacing PLC With HMI for Industrial	Conference on Electronics	06 04 2023
51	1NH19EE050	Jayanth R	Applications	and Renewable Systems	6707-04-00
•	1NH20EE407	Prajwal R M		(ICEAKS)	
	1NH18EE014	Faraz Ahmed Mullah		2023 International	
1 1	1NH19EE037	Hemanth G N	A Review on Autopilot using Neuro Evaluation of	Conference on Intelligent	202 20 10
+ +	1NH19EE048	J Prajwal	Augmenting Topologies	Technologies and Internet of	C707-C0-T0
•	1NH19EE065	M Gopal		Things (IDCIoT)	
	1NH20EE408	Shiva Shankara M			
15	1NH20EE401	Binay Kumar Yadav	A Review of Sequential Control & Monitoring of	Conference on Automation,	
CI	1NH19EE083	P. Sindhu	Distribution Lines in Substations	Computing and Renewable	6707-70-10
•	1NH18EE407	Yashvantha P		Systems (ICACKS)	
	1NH19EE085	Ravi Nandan		Think The second second	
71	1NH19EE127	Roopeshwar Reddy	Artificial Intelligence based Self-Driving Car using Robotic	Conference on Artificial	2000 EV EC
01	1NH19EE123	Vinod Kumar R	Model	Intelligence and Smart	6707-60-17
	1NH19EE125	W Y Jhansipriya		Energy (ICAIS)	
	1NH19EE069	Manoj Kumar H V		2023 International	
r T	1NH19EE070	Manoj Kumar P	AI and IoT based detection of	Conference on Intelligent	10 01 2023
1/	1NH19EE080	Naveen R N	pesticide in organic fruits and vegetables	in Computing, Electrical and	0-04-202
	1NH19EE095	Sandeep Naik R		Electronics (IITCEE)	
	1NH19EE071	Maruthi B			
0	1NH19EE092	Rahul	A review of dynamic wireless transfer system technology	2022 International Conference on Automation,	
10	1NH19EE098	Santhosh Melvin D	used in solar wireless electric vehicle charging station	Computing and Renewable Systems (ICACRS)	6707-70-10
	1NH19EE101	Sathish			
19	1NH19EE072	Meghana N T	Solar Powered Multi-functional agricultural robot		17-03-2023



				06-04-2023			05 04 2022	6707-40-00			COC 10 10	04-04-2023			05-04-2023				C2U2-44-2U22			10 05 2013	6707-60-01		10-05-2023
International Conference on	Knowledge Engineering and Communication Systems	2022 International	Conterence on Smart Generation Computing.	Communication and	Networking (SMAK1 GENCON)		Conference on Electronics	and Renewable Systems	(ICEAKS)	10 moi tonno tal 146 COOC	2023 / IN INCERTIALIONAL Conference on Computing	Methodologies and	Communication (ICCMC)	2023 Second International	Conference on Electronics and Renewahle Systems	(ICEARS)	2023 International	Conference on Innovative	Conference on Innovative Data Communication Technologies and Application (ICIDCA) 2023 3rd International Conference on Innovative Practices in Technology and				Practices in Technology and		
			Study of Stepper motor control using programmabke logic	controller (PLS) based on Industry 4.0			IoT detection based energy meter integrated with smart	devices			Electric Quad Bike with hybrid charging mode for	physically challenged			Solar Powered Autonomous Multipurpose Agricultural Robot Using Bluetooth				Non-invasive include of Detecting Anemia using A1 ∞ to 1			Wild Animals Intrusion Detection for Safe Commuting in	Forest Corridors using AI Techniques		A Novel EV Charging Using Stationary Bike
Vandana R	Vidya G R	Rachna Palli	Sowmya Shree	Jeshwanth V	Vernon Victor	Aishwarya P	Charishma A	Gautammee KK	Kesamreddy Deepthi	Aisiri M Urs	Harshitha R	M Rohith Kumar Reddy	Koushik P	Meghana N T	Vandana R	Vidya G R	Abhishek Bedant	Kumar Abhishek	Madhav Reddy C	Kota Vikramaadhitya	Manish	Sarthak Ghorai	Shariq Ahmed	Subhajit Das	Meghana S
1NH19EE121	1NH19EE122	1NH19EE091	1NH19EE107	1NH18EE021	1NH18EE060	1NH19EE008	1NH19EE023	1NH19EE042	1NH19EE055	1NH19EE010	1NH19EE046	1NH19EE066	1NH20EE403	1NH19EE072	1NH19EE121	1NH19EE122	1NH19EE004	1NH19EE061	1NH19EE067	1NH19EE060	1NH19EE068	1NH19EE100	1NH19EE105	1NH19EE109	1NH19EE073
	1			- 07	<u>I</u>	<u> </u>	5	17	<u>I</u>	<u> </u>	ç	77	1		23	I	<u> </u>	č	74	I	<u> </u>	y C	C1		26



		10 05 2003	6707-00-01			10-05-2023			10-05-2023		10-05-2023				10 05 2023	6707-00-01			16 06 2013	C707-00-01		
2023 3rd International Conference on Innovative Practices in Technology and Management (ICIPTM)		2023 3rd International Conference on Innovative	Practices in Technology and	Management (ICIP I M)	2023 3rd International	Conference on Innovative Practices in Technoloov and	Management (ICIPTM)	2023 3rd International Conference on Innovative Practices in Technology and Management (ICIPTM)			2002 2nd International	Conference on Innovative	Practices in Technology and	Management (ICIP 1 M)	2023 2nd Intomotional	Conference on Innovative	Practices in Technology and	Management (ICIP I M)	2023 IEEE 3rd International	Conterence on 1 contology, Engineering, Management	for Societal impact using	Marketing, Entrepreneurship
		Silent Surveillance Autonomous Drone For Disaster	Management And Military Security Using Artificial Intelligence)		Study of Battery Management System using Watchdog Software			Automated Tumbler Cleaner			Implementation of Accident Detection and Reporting	System Using IOT			Analysis Of Electrical Parameters For Formula Style	Electric Vehicle			Calma Dad Diand Alant Cratana Uning Andrian	Solar Feu Floou Alert System Using Arduno	
Santhosh Kummi Suraj Raju Jadhav U Mohammed Arshad	Sanskriti Agarwalla	Sharmi Kanaujia	Sheikh Sameer	Tabasum Manzoor	Shaif Alam	Swastik Shukla	Zahra Goher Sultana	Abdul Samedh	Darshan R	Faiz Ur Rahman	Aishwarya V H	Akshatha Shree	Anusha S	Khushi J Vibhuthi	R. Varun	Ritika Kapoor	Tejas V	Shambhavi Bhagat	Abrar Altaf Dar	Ankit Kumar	Ezra D Cunha	Gaurav P Kumar
1NH19EE099 1NH19EE110 1NH19EE120	1NH19EE097	1NH19EE106	1NH19EE103	1NH19EE114	1NH19EE102	1NH19EE113	1NH19EE129	1NH19EE001	1NH19EE030	1NH19EE034	1NH19EE009	1NH19EE011	1NH19EE019	1NH19EE057	1NH19EE090	1NH19EE093	1NH19EE116	1NH19EE104	1NH19EE005	1NH19EE016	1NH19EE033	1NH19EE040
		ť				28			29	•		00	nc			21	10			ç	76	





Table 9.4.12: Paper Publication by Student - 2021-22

			Academic Year 2021-22		
S os	NSU	Student Name	Paper Title	Conference Name	Date of Publication
1	1NH18EE039	Nischal Dinesh			
	1NH18EE042	Prajwal	A review of solar powered electric Bi-hybrid	2022 4th International Conference on Smart Systems	
	1NH18EE053	Sarthak Das	venicle compared with IC Engine venicles using graph analytics with AI	and Inventive Technology (ICSSIT)	22-Feb-22
	1NH18EE005	Ashu Anand			
2	1NH18EE039	Nischal Dinesh			
	1NH18EE042	Prajwal	Artificial Intelligence Based Solar Powered	2022 International Conference for Advancement in	
	1NH18EE053	Sarthak Das	Electric B1- hybrid Venicle Compared with IC Engine Vehicles Using Graph Analytics	Technology (ICONAT)	1 U-Mar-22
	1NH18EE005	Ashu Anand			
3	1NH18EE011	Darshini Machamma M S	IoT Based Parameters Calculation of Electric	2022 IEEE International Conference on Distributed	
	1NH18EE004	Appaji	Bicycle using OpenModelica Simulation Tool	Computing and Electrical Circuits and Electronics	13-Jun-22
	1NH18EE032	Mohammed Tauqeer Ali	with Data Analytics Technology	(ICDCECE)	
4	1NH18EE011	Darshini Machamma M S			
	1NH18EE004	Appaji	An loT based Data Analytics for Electric	2022 International Conference for Advancement in	10-Mar-22
	1NH18EE032	Mohammed Tauqeer Ali	Dicycle using Openiylouenca Sunuauon 1001	I comoigy (ICOINAL)	
5	1NH18EE031	Mohammed Omer Ali			
	1NH18EE057	Siddhartha Sunil Singh	A Review on Triboelectric Nanogenerators	2021 International Conference on Forensics, Analytics,	
	1NH18EE066	Tahoora Imtiyaz	(TENGs) using Internet of Things	Big Data, Security (FABS)	09-F60-22
	1NH18EE036	Nayrah M A			
9	1NH18EE055	Shiva R V	An implementation of soft computing approach		
	1NH18EE049	Sagar Kulkarni	of smart control for induction motor using	2022 4th International Conference on Smart Systems	25-Feb-22
	1NH18EE040	Lavin Ponnappa M M	ANFIS		
7	1NH18EE017	Greeshma Chennareddy	Renewable energy based efficient portable DC		
	1NH18EE010	Chitra S	refrigerator for rural electrification and	2022 Second International Conference on Artificial Intelligence and Smart Finerwy (ICAIS)	30-Mar-22
	1NH18EE013	Kavipriya E	convenience - An Overview		





_	1NH18EE050	Sahana B			
	1NH18EE022	Jibran Zaidi			
	1NH18EE061	Vikram	A review of Arduinobased hand gesture	2022 Second International Conference on Artificial	20 Mar 33
	1NH18EE027	Nirupa Vardhan	controlled robot using IoT	Intelligence and Smart Energy (ICAIS)	20-Mar-22
	1NH18EE020	Jaffer			
	1NH18EE735	Pranav R Naik			
	1NH18EE738	Rahul Vijay Lingadhal	A Davian on Ontinization Tachniculas of	2023 Sacond International Conference on Artificial	
	1NH18EE736	R Puneeth Venkat Sai Varma	Charging the Battery in EV	Intelligence and Smart Energy (ICAIS)	30-Mar-22
	1NH18EE737	R Supraja			
	1NH18EE735	Pranav R Naik			
	1NH18EE738	Rahul Vijay Lingadhal	A review on ontimization technicuse of hottens	2022 2nd International Conference on Artificial	
	1NH18EE736	R Puneeth Venkat Sai Varma	charging in electric vehicles	Intelligence and Signal Processing (AISP)	25-Apr-22
	1NH18EE737	R Supraja			
	1NH18EE710	C Bhavana Singh	Analvsis of Parameter Estimation of an Electric		
	1NH18EE708	Bhavana YC	Bicycle Using IoT with Data Analytics	2022 4th International Conference on Smart Systems	25-Feb-22
	1NH18EE709	Bindhu V	Technique		
	1NH18EE718	Joanna Alicia D			
	1NH18EE715	Deepthi D	A Survey on Detection of Power theft in	2022 International Conference on Computer	21 Mar 22
	1NH18EE740	Shawin Krishna	Transmission and Distribution	Communication and Informatics (ICCCI)	21-IMIAT-22
	1NH18EE706	Bellam Sreekanth Reddy			
	1NH18EE025	Karthik N			
	1NH18EE009	Lakshmipathi C	A survey on Smart Irathc Control System for Emerging vehicles	2022 International Conterence on Computer Communication and Informatics (ICCCI)	31-Mar-22
	1NH18EE003	Anirudh			

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Scope of Self-learning for EEE

		NEW HORIZON CO	LLEGE OF	ENGINEERING
		Department of Electri	ical and Elec	tronics Engineering
		Mentors for V semest	ter NPTEL C	Courses
		ODD Sem 2020-21		
	S.N	No Name of th	e course	Mentor
	1	Energy Economics And Online	d Policy –	Mr Sunil K
	2	Cloud computing		Dr. Joshua Daniel Raj
	3	Programming in C++		Dr. Joshua Daniel Raj
Web based learning	4	Introduction to Smart C	Grid	Mr Vinod Kumar K
	5	Design of photovoltaic	systems	Mrs Karthika Ganesh
	The	Institution library provid	les informati	on and ideas that are
	fun	damental to functioning s	uccessfully i	n today's information
	and	knowledge based society	successfully I	n today s miormation
	The	Institution library equiv	as students a	with learning skills and
	dev	elon the knowledge	55 students	with featiling skins and
	Ava	ailability of NPTEL videos	s.	
	Suf	ficient systems with multin	media facilitie	es.
	Inst	itutional membership of D	ELNET, a lib	rary networking database.
	Inte	ernet facility		
	LIS	T OF JOURNALS		
			Т	
	SI		No of Issue	
	No.	Title	s	Publisher
Library/Digital Library		IETE Ioumal of		
		IE I E Journal of		Taylor & Francis
	1	Research	0	
	2	Electronics	8	MDPI
	_	(Switzerland)	0	
	3	(Telecommunication	6	UAD
		Computing Electronics	0	OND
	-	and Control)		
	4	Energies	24	MDPI
	5	Biomedical Signal	10	Science Direct
		Processing and Control	10	
	Proje	cci-oased learning (PBL)	promotes de	evelopment of critical
Project Based Learning	think	ting and problem-solving sl	kills by allow	ing students to work in
roject Basea Learning	team	s on real world projects. H	owever, in sp	ite of its effectiveness,
	the u	se of PBL in engineering	classrooms h	as been limited due to
	the c	hallenges associated with i	ts design and	implementation
	the c			
	4 Mi	ni Projects including Exter	nsive survey a	nd Final year projects are
	carri	ed out based on Project Ba	ised Learning	4 1 1 11 4 1 1
Case study	Thro	ugh case studies, students	will improv	e their ability to learn
	and	retain concepts in their co	ourses, on we	ork terms and in their
	profe	essional lives. One of the be	est means to c	reate case studies is by
	1			-
	conv	erting them from student-o	generated wor	k reports.
	conv	erting them from student-g	generated wor	k reports.
	conv Joini	erting them from student-g	generated wor ens up a vast	k reports. network of knowledge



Professional Bodies	community. Students will gain access to those who are one or two					
	steps ahead of them and it helps them feel part of a community of					
	like-minded people.					
	IEEES PELS, IES, PES Students Chapter is in existence.					
Club Activities	Green energy club To bring out the enthusiasm and ability of the students towards communication and create awareness. To acquire knowledge on various topics. U-Create club To stimulate lateral thinking, inculcate creative and innovativ thoughts among the young budding engineers for the enhancement of society E-Soft Club To create a center for promoting research-oriented, industrially relevant, socially beneficial, and cost-effective solutions using the latest technologies					
Assignments	It enables students to go through the topics in a more elaborate manner in order to explore the academic topic which lead to an overall better learning experience for students.					
Industrial visit	Industry visits help enhance interpersonal skills and communication techniques. Students become more aware of industry practices and regulations during industry visits. Industry visits broaden the outlook of students with exposure to different workforces from different industries					
Internships	During an internship, students work on real projects, get acquainted with the current market trends, sharpen their technical skills, and learn in- demand technical skills. Apart from this, an internship introduces them to the corporate world, teaches them professional ethics and polishes their soft skills like communication and inter personal skills. With an internship they can become engineer's way before their graduation which could prove to be extremely helpful for an effortless adaptation to work environment when they join a full time job.					
Conference/Seminar/Workshop	Engineering is forever changing. Technology changes. Methods and processes change. Environmental focuses change. Everything changes. And the rate of change is ever-increasing. Conference/Seminar/workshop help students in, Broadening their knowledge Cross pollinating their ideas Developing their Network Advancing their careers Be igniting their enthusiasm or passion					





Table 9.4.13: Records of evaluation of self-learning activities

Records of Self Learning Activities to be maintained by each faculty	Event conducted by faculty (Yes/No)	Yes	Ycs				Yes	Yes		
	Avg. marks (%)	90%		70%			100%	60%		
	No. of participants	110	50				41	94		
	Date of event conducted by faculty	17-04-2020	07-02-2023				21-06-2022	29-07-2022		
	URL Reference given by faculty	<u>https://docs.google.com/forms/d/e/1FAIpQLSebOu9Nk87</u> <u>Y19qHR4zL7vFovFOKoTRHOk_H9IRqKyFFM9yyXQ/vi</u> ewform	Abhishek	Anil Hegde H	Dhruva S Srinivas	Krishna Chaitanya	https://classroom.google.com/c/NDgzNDE0MjExMzkx	Dr Joshua Daniel Raj		
	Name of source of self- learning activities	Signals and Systems 20EE54, Lecture no.54	A review of remote health monitoring system for patients sing IoT				Power Electronics – lecture materials on Concrete mix design	https://onlinecourses.nptel.ac.i n/noc19_cs44 /preview (https://onlinecourses.nptel.ac. in /noc19_cs44/preview)		
	Source of Self- learning activities	Lecture	Journal and articles				Course and lecture Materials	SWAYA M "C Program	ming and Assembl y language	
	Mode of Evaluati on	Quiz	Presenta tion				Assign ment on problem solving	Viva		
	o $N \cdot SI$	1	7				3	4		



Summary:

The overall aim of this review is to evaluate the effectiveness of self-directed learning which aims to enhance the professional skill of students.

Most of the students agreed that self-learning process is an effective approach for learning in addition to traditional method of teaching.

Most of the students admitted that self-learning process help them in preparing better to reach their goals.

Students are able to do better in competitive examinations and get placed in suitable companies

A. Utilization and its effectiveness:

The overall aim of this review is to evaluate the effectiveness of self- directed learning on the professional development of students.

Most of the students reached to a conclusion that self-learning process is an effective approach for learning but not more than the traditional method of teaching.

Students are motivated to improve their initiation in reaching their goals.

Students are able to scan through the reading material available to them.

Many of the needs of students are best met by learning process. The students are encouraged to learn by themselves for their present and future needs.

Students are able to do better in competitive examinations and get placed in suitable companies.

9.4(B) Scope of Self-learning for ISE

MOOC courses are used as an alternative method to bridge the gap and expand the existing knowledge. Every academic year students are appraised of the MOOC courses that can be considered as self-study for specific courses of the semester. Students are encouraged to take up at least one MOOC for the courses specified. This exposes the student to the different avenues of learning like interactive user forums and multimedia repositories, thereby ensuring the development of lifelong learning skills.

A year wise consolidation of the MOOC courses registered and completed by students is given in Table 9.4.5


Table 9.4.5: MOOC Courses Registered and Completed

SI. No	Year/Sem	NPTEL Course Name	Course Duration	Total No. of Students Registered
		Academic Year 2021-2	022	
1	2rd/4 th Sem	The Joy of computing using pytho	on 12 Weeks	204
2	3 rd /5 th Sem	Introduction to Machine learning	12 Weeks	234
3	3rd/5 th Sem	Design and analysis of algorithms	8 Weeks	235
	1	Academic Year 2020-	2021	
1	2rd/4 Sem	Programming in JAVA	12 Weeks	235
2	3 rd /6 th Sem	Machine Learning ML	8Weeks	149
3	4 th /7 Sem	Object oriented analysis and Design	8 Weeks	143
4	3 rd /5 Sem	Design and analysis of algorithms	8 Weeks	149
5	2rd/3 Sem	The Joy of computing using python	12 Weeks	221
		Academic Year 2019 – 2	2020	
1	2 nd / 4 th Sem	Programming in Java	12 Weeks	149
2	3 rd / 6 th Sem	Joy of Computing with Python	12 Weeks	120
3	3 rd / 6 th Sem	Modern Application Development	8 Weeks	22
4	2 nd / 3 rd Sem	Joy of Computing with Python	12 Weeks	120
5	3 rd / 5 th Sem	Data Science for Engineers	8 Weeks	76
6	3 rd / 5 th Sem	Cloud Computing	8 Weeks	70





Paper Publication

The department also encourages students to publish papers in national/international journals. To promote this culture department/institution organizes National/International conferences as well. Table 9.16 shows the papers published by the students of Computer Science and Engineering in various journals/conferences

S.No	Student Name	NSN	Title of Paper	Journal/ Conference Details
	Silpa S	1NH18IS106	Survey on IoT based PotHole	
1	Sonali PreethaNandagopalan	1NH18IS109	Detection	IEEE courol System Letters
	Shripriya J	1NH18IS133		
2	Stebin Sebastian	1NH18IS140		
	Tadepalli Balaji Sai Swapnil	1NH18IS116	$\begin{bmatrix} \text{Review on 101-Mobile App based on} \\ \text{Review of 10 models} \end{bmatrix}$	International Journal of Innovative Technology and
	Nikhil Ch	110S181HN1	rural Development in Terms OI	Exploring Engineering (IJITEE)
	Nidhish Vemula Prabhakar	1NH18IS070		
ю	Keerthana H	1NH18IS138		
	Mala H R	1NH18IS057	Raspherry Based robotic Device for	Laterational Lorenzal of Machanical Factories
	Mohammed Faizan	1NH18IS062	women Safety	пистиацопат јоцглат от меспаписат дивисепив
	Mohammed Ismail	1NH18IS063		
4	Vismaye M	1NH18IS126		
	Keerthishree V	1NH18IS135	Soft Support: Specially Abled	International Conference on Advanced Computing
	Harshitha R	1NH18IS039	Communication	Technologies and Applications
	Pradeepthi K	1NH18IS050		
5	Abhishek V Rai	1NH18IS003	с	
	R Likhith	1NH18IS053	Secured Eye Pay: An E-payment a	International Mobile and Embedded Technology
	R Abhiram	1NH18IS002	Application for visually impaired	Conference (MECON)
	Amogh V Pai	1NH18IS007	beobie	
9	Ritom Tamuli	1NH18IS086	Android Based Fall Detection and	Second International Conference on Artificial

Table 9.4.6: Paper Publication by Students AY 2021-2022

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	Ayush Sinha	10118IS019	Tracking App for Aged People	Intelligence and Smart Energy (ICAIS)
	Srutibanta Samantara	1NH18IS112		
7	Arpita Chowdary Vantipalli	1NH18IS016		
	Darshana Sailu Tanti	1NH18IS028	1	2nd International Conference on Artificial
	K Malvika Ravi	1NH18IS058	101 based Aquaswach	Intelligence and Signal Processing (AISP)
	Krtin Kannan	1NH18IS044		
8	Yashmitha R	1NH18IS128		
	Tejal Lalji Rangani	1NH18IS118	Tochard Divyang Assistant	International Conference on Electronics and Demonstrip Symptons (ICE A D S)
	Anushka Sen	1NH18IS129	recinology: rour ricaring support	Kenewadie Systems (ICEAKS)
6	B Mounica	1NH18IS065	A Survey of Real-time Health Care	Correct Internet Conference on Antificated
	M Akshatha	1NH18IS006	Tracking System for Post Covid	Jecond International Conference on Artificial
	Anupam Kumar	1NH18IS013	Patients	Inclugence and onalt Energy (ICALS)
10	Vinay Hegde	1NH18IS124	Comme Define for the Annelieven of	Lational Configuration Coffeendary
	Prajwal P	1NH16IS079	Melining Detection in andreid Ame	Internation Connerence on Soltware Engineering
	Chrisel Fernandes	1NH18IS026		alla Colliputei Science
11	Sanjana Hombal	1NH18IS134		Tutomotional Canfourna an Durania a Turada in
	Sanchitha BS	1NH18IS095	Ucolth Monitoriae Suntan IIcine IcT	International Conference on Emerging Irends in Environment and Trocharology Signal and
	Shreya L	1NH18IS139		Engineering and recimology - Signal and Information Disconsing
	Sharanya G	1NH18IS035		
12	Pooja T	1NH18IS076		
	Punith Kumar S	1NH18IS079	Survey on IoT based Farm Freshness	International Conference on Advanced Computing
	Shankar Y	1NH18IS136	Mobile Application	Technologies and Applications (ICACTA)
	Gowtham V	1NH18IS037		
13	Samrudh G R	1NH18IS094		
	Gautam	1NH18IS037		
	Tejasvi Patil	1NH18IS120	D [[] [2022 International Conference on Advanced
	Sagar Shankar	1NH18IS090	Detect Mission Engine Events	Computing Technologies and Applications
	R Karthik	1NH18IS131		(ICACTA)
	A Sanjana	1NH18IS097		
14	Sangeetha D	1NH18IS096	Survey on IoT based E-Farming	2022 International Conference on Sustainable
	0			

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	V I G11-	1111010000	T1T	
	K L Suchala	1NH181S099	I echnology Enabled Farming	Computing and Data Communication Systems
	R H Shravya	1NH18IS081		
	B S Soundhaaryha	1NH18IS110		
15	Manan Agarwal	1NH18IS059		
	Shubhodeep Sarkar	1NH18IS104	A Survey on Various Aproaches to	2022 International Conference on Computer
	Md Asif Kamal Quadri	190SI81HN1	e-waste management	Communication and Informatics
	Dhruv Gulati	1NH18IS031		
16	G. Pranay Deepak Reddy	1NH18IS036	7	
	Bs Sai Pramath	1NH18IS074	Decise for Court 10 offertial accurate	2022 International Conference on Electronics and Democratic Sections
	J.A. Trivedh	1NH18IS043	Design for Covia-19 affected people	Kenewaole Systems
17	Jnana P J	1NH18IS041		
	Monisha C	1NH18IS064		2003 IEEE Doll: Soution Confirment
	Pallavi V	1NH18IS073	SINARI GLOVE LOF BLING	2022 IEEE Delli Section Conference
	Saloni K	1NH18IS093		
18	Karthik R	1NH18IS047	Blockchain-based IoT Device	2nd International Conference on Artificial
	Sanjana A	1NH18IS097	Security	Intelligence and Signal Processing, AISP
19	G Sai Mani Kumar	1NH18IS034		
	B Aravind Kumar	1NH18IS022	I REVIEW Paper on E-1 ramic Police	International Journal of Innovative Technology and
	M Vinay Kumar Reddy	1NH18IS054	Dula Dascu Auto-Detection of Hallic	Exploring Engineering (IJITEE)
	B Sree Harsha	1NH18IS020		





Table 9.4.7: Paper Publication by Students AY 2020-2021

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	S.No	Student Name	NSN	Title of Paper	Journal/ Conference Details
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Swasti Choudhary	1NH17IS115		
I Narendra Kumar Reddy INH17IS141 Science (JACC Vishal S Balan INH17IS123 INH17IS124 Analysis Science (JACC Yashaswini S INH17IS123 INH17IS123 INH17IS123 International J. Charitha V INH17IS127 INH17IS127 Computer Science (JACC Computer Science (JACC Judy Kennedy INH17IS127 INH17IS127 Citizens and Mentally Challenged Computer Science (JACC Sinsha M INH17IS127 INH17IS127 Citizens and Mentally Challenged Technology IJ. Metha M INH17IS129 INH17IS129 Citizens and Mentally Challenged Technology IJ. Sinsha M INH17IS129 INH17IS129 Ratshitha N INH17IS129 Sinsha M INH17IS129 Smart Band for Monitoring Vitals for International J. A meghana INH17IS192 Smart Band for Monitoring Vitals for International J. Bhampryta INH17IS192 Smart Band for Monitoring Vitals for International J. Bhampryta INH17IS192 Cost effective social distance maintenance International J. Har	-	Thakur Kiran Singh	1NH17IS119	An Approach to Credit Card Fraud Detection	International Journal of Research in Engineering and
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1	Narendra Kumar Reddy	1NH17IS141		Science (LIKES)
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Vishal S Balan	1NH17IS146		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Yashaswini S	1NH17IS132		Tutton the State of Scientific Decomposite
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Ċ	Charitha V	1NH17IS148	IoT Based Hygiene Monitor for Senior	Committee Science, Environment of Sciencification
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	V	Varsha Gowda S J	1NH17IS127	Citizens and Mentally Challenged	Computer Science, Engineering and Information Toohnoloon, ITED/CEET
		Judy Kennedy	1NH17IS142		recimology marcaeri
3Rakshitha N1NH17IS080International A INH17IS102International A NetworkA Sirisha MINH17IS00International A International A4Sneha M1NH17IS102NetworkScience and Te Science & Eng5Bharupriya1NH17IS135Elderly People in QuarantineScience & Eng9Joicy Castilino1NH17IS135Elderly People in QuarantineScience & Eng5Harshitha Sundarvelu1NH17IS139Cost effective social distance maintenanceInternational J6Harshitha Sundarvelu1NH17IS0101Intimary schoolsInternational R7Purab Shreeniwas A1NH17IS098VR simulation of chemistry lab usingInternational R6Shijo Yohanana1NH17IS098VR simulation of chemistry lab usingInternational R7Shijo Yohanana1NH17IS076Land Use Case and UtilizationInternational L7T Praneeth1NH17IS076Land Use Case and UtilizationScience (JIRE:7T Praneeth1NH17IS076Land Use Case and UtilizationScience (IJRE:7T Praneeth1NH17IS076Land Use Case and UtilizationScience (IJRE:8Hansa p o1NH17IS039Remote Monitoring And Control Unit OfInternational J		Nithya B S	1NH17IS137	Tractice A and brain I I raine A mit fraind Navinal	Latomotional Lound of Coinstiff Decount in
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	б	Rakshitha N	1NH17IS080	ITALLIC ADALYSIS USING ATUILCIAL INCUTAL	International Journal of Scientific Research in Science and Technology
		Sirisha M	1NH17IS102	INCLWOIK	Science and recunology
		Sneha M	1NH17IS104	Smart Band for Monitoring Vitals for	International Journal for Research in Applied
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	4	Meghana	1NH17IS135	Elderly People in Quarantine	Science & Engineering Technology
		Bhanupriya	1NH17IS046		
		Joicy Castilino	1NH17IS045		
	v	Harshitha Sundarvelu	1NH17IS139	Cost effective social distance maintenance	International Journal of Advance Research Ideas and
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	C	Helen Hephzibah	1NH17IS042	in primary schools	Innovations in Technology
		Simran Fathima	1NH17IS0101		
		Purab Shreeniwas A	1NH17IS073		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	9	Shijo Yohannan	1NH17IS098	VR simulation of chemistry lab using	International Research Journal of Engineering and
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0	Shailesh P.M	1NH17IS094	blender and unity	Technology (IRJET)
7 A Sassank Gopal Reddy, RS 1NH17IS007 Land Use Case and Utilization International Jule 7 T Praneeth 1NH17IS016 Land Use Case and Utilization International Jule 8 Hamsa p o 1NH17IS039 Remote Monitoring And Control Unit Of International Jule		Syed Sahil Abbas	1NH17IS149		
7 Sathvik Reddy 1NH17IS076 Land Use Case and Utilization International Junction 7 T Praneeth 1NH17IS116 Classification using CNN Science (IJRE) 8 Hamsa p o 1NH17IS039 Remote Monitoring And Control Unit Of International Junctional		A Sassank Gopal Reddy, RS	1NH17IS007		
Thraneeth 1NH17IS116 Classification using CNN Science (JJRE3 Vardhini V 1NH17IS125 Nardhini V Nardhini V 8 Hamsa p o 1NH17IS039 Remote Monitoring And Control Unit Of International J	٢	Sathvik Reddy	1NH17IS076	Land Use Case and Utilization	International Journal of Research in Engineering and
Vardhini V1NH17IS1258Hamsa p o1000000000000000000000000000000000000	-	T Praneeth	1NH17IS116	Classification using CNN	Science (IJRES)
8 Hamsa p o INH17IS039 Remote Monitoring And Control Unit Of International J		Vardhini V	1NH17IS125		
	8	Hamsa p o	1NH17IS039	Remote Monitoring And Control Unit Of	International Journal of Research in Engineering and





	Anusha k	1NH17IS015	Solar Photo Voltaic	Science (IJRES)
	Girish R	1NH17IS038	Plant Using IoT	
	Prajwal	1NH17IS069		
	Sneha B K	1NH17IS103		
6	Sahana K M	1NH17IS088	Face and Hand Cesture Recognition	International Journal of Scientific Research in
	Tejaswini S M Patil	1NH17IS144	System for controlling VLC Media Player	Science and Lechnology
	Raahul Narayana Reddy K	1NH17IS077		
10	Prasanna Bhat	1NH17IS071	Statistical Analysis and Visualization of	International Research Journal of Engineering and
10	Apurba Bhattacharjee	1NH17IS016	Covid-19	Technology (IRJET)
	Srinivas M	1NH17IS107		
	Vibhav Giri	1NH17IS129		
	Tarun Sharma	1NH17IS117	A communication aid application for the	International Research Journal of Engineering and
11	Sushant Chaudhary	1NH17IS113	physically handicapped	Technology (IRJET)
	Kshitij Raj	1NH17IS049		
	Akhila S	1NH17IS008	Automatic Social Distancing System Using	L
12	Vaishnavi R	1NH17IS124	Thermal Scanners In Huge Auditorium Or	Trefrational Research Journal of Engineering and
	Varna Murali	1NH17IS126	Conference Hall Entrances	I COMORDA (INJET)
	G.S Nithyashree	1NH17IS134		
,	Ashwin Venkatakrishnan	1NH17IS140	Acoustic Echo Cancellation For E-	International Research Journal of Engineering and
c1	S. Karthik	1NH17IS084	Learning Platform	Technology (IRJET)
	Aneesh Mohan Kumar	1NH17IS012		
	Abhinav Anand	1NH17IS002		Latomotional Torrand of Calcatified Decompletie
7	Chinmaya Kumar Nayak	1NH17IS027	Designing a prototype for Mentally	
<u>+</u>	Ayush Anand	1NH17IS017	Challenged and Alzheimer Patients	Computer Science, Engineering and mitormation Technology
	Deepak Kumar	1NH17IS029		TCOIIIOUGY
	Uma Maheshwari	1NH17IS085	M1- D-++-+	International Journal for Research in Applied
15	Sahana N Reddy	1NH17IS089	Mask Detection Application	Science & Engineering Technology (IJRASET)
	Sanjana Sivakumar	160SI71HN1		
	Nethan Shaik	1NH17IS059	An Embourand Summillance Dot for	Latomotional Daccouch Lormal of Eachanning and
16	Pavel Anup	1NH17IS011	All Ellilaticed Sul ventatice Bot 101 Identification of Mach Dafaultans	The final research Journal of Engineering and Technology (ID IET)
	Kirti Devi	1NH17IS048		reciniology (INJET)



	Stevenson Jacob	1NH17IS152		
	Shami K	1NH17IS096	Eaching I actuates and Analysis of Dus	
	Sharmistha C	1NH17IS097	Feature Learning and Analysis of Fre	International Journal of Innovative Research in
11	Sowjanya V	1NH17IS106	During Condutions Frone to Covid Virus	Technology
	Aneja P	1NH18IS400		
	Anitha B	1NH17IS013		
	Disha Singh	1NH17IS034	Automatic Detection of Unities Captured	Committee Science Environment of Sciencification
10	Divya Shree M	1NH17IS035	III CC1 V IIIIages for Safety of Senior	Computer science, Engineering and information Technology
10	Kushala R	1NH17IS050	CIUZEIIS	1 cciiitotogy
	Akshay S Prathap	1NH17IS009		
10	Aiswarya V Kumar	1NH17IS005	Turn for a f Vicion for a f Tour house	Committee Science Environment of Sciencification
17	Raviteja Kaki	1NH17IS047	IIIIPIEIIIEIIIAUOII OI VOICE DASEU LOUCIIIESS	Computer science, Engineering and information Technology
	Ranjitha R	1NH17IS075		recuirotogy

Table 9.4.8: Paper Publication by Students AY 2019-2020

S.No	Student Name	NSN	Title of Paper	Journal/ Conference Details
	Abhishek Ranjan	1NH16IS003	- - - - - -	
Н	Gagan Prasad	1NH16IS033	Deforestation Control and Forest Monitoring using Internet of Trees	International Journal of Scientific Research in Compuer Science, Engineering and Information Technology
	Harshitha Shankar	1NH16IS038		
2	Shravani V	1NH15IS104	House Price Prediction Analysis using Machine Learnino	International Journal for Research in Applied Science & Engineering Technology
			Guinner Aminenti	
	Harish E	1NH16IS037	Hand Gesture Recognition and Voice	
ю	Nikhil Jain D	1NH16IS067	Conversion for Hearing and Speech	International Journal of Scientific Research in Computer Science,
	Nirdesh Reddy	1NH16IS069	Aided Communit	
-	Lakshmi K	1NH16IS020	;:	International Journal of Scientific Research in Computer Science,
4	Amithesh K	1NH16IS011	voice for the Faralytic victims	Engineering and Information Technology





	Vishak J	1NH16IS123		
	P Nymisha	1NH16IS070		
5	Shanmathi Kailasam	1NH16IS100	Covid-19 Visualizer	International Journal for Kesearch in Applied Science & Environmenting Technology (IID A SET)
	Bhawik Tanna	1NH16IS024		
	Vijay Hegde S	1NH16IS121		
9	Yashvanth C V	1NH16IS126	Crop Y leid Prediction using Machine Learning Alcorithm	International Research Journal of Engineering and Technology
	S Chandra Kiran	1NH16IS129		
7	Prashanth Paul	1NH16IS083	A review on data science approach towards decision-making	International Journal of Scientific Research in Computer Science, Engineering and Information Technology © 2019 IJSRCSEIT
	Prashanth Paul	1NH16IS081		
8	Prashanth V	1NH16IS084	A Machine Learning Perspective	International Journal for Kesearch in Applied Science and Environmenting Technology
	Prem Kumar	1NH16IS086	IOWAIUS DEIECUIIIS I AND NEWS	
	Muhammad Shahbaz	1NH16IS063		
6	Sunil K A	1NH16IS112	Immaired Decorle	International Research Journal of Engineering and Lechnology (IP IFT)
	Pramod Sencha	1NH16IS080		
	Akhilendu	1NH16IS008		
1	Anakha A S	1NH16IS012	Fake Indian Currency Note	International Research Journal of Engineering and Technology
01	Meghashree K	1NH16IS059	Recognition	(IRJET)
	Faris	1NH15IS034		
	Vachan B D	1NH16IS123		
11	B S Deepthi	1NH16IS021	Landmine Detection Using Wireless	International Research Journal of Engineering and Lechnology
	Geetha B	1NH16IS016		
	Janav S	1NH16IS049		
12	Monisha S M	1NH16IS063	Solar based Automatic Speed Control of Vehicles in Sensitive Zones	International Journal of Engineering Research α Lechnology (TIFRT)
	Pavan Kumar M G	1NH16IS118		(INVIGI)
13	Prapul Kumar A	1NH16IS082		





Pavan Kumar INHI6IS072 Visually Impaired Engineering Technology (IRASET) 14 Nswetha INHI6IS073 Anuiparkash INHI6IS073 15 Nswetha INHI6IS073 Engineering attitional Journal for Research in Applied Science & Engineering Technology (IRASET) 15 Anuip prakash INHI6IS073 Engineering attitional Journal of Scientific Research in Computer Science, Engineering Technology 16 Annab bhowal INHI6IS050 Engineering and Information Technology 17 Mankia Dising 10 INHI6IS05 Human Detection using Unmanned Engineering and Information Technology 17 Mankia Dising 10 INH16IS05 Human Detection using Unmanned Engineering and Information Technology 18 Joshna Linton J INH16IS05 Human Detection using Unmanned Engineering and Technology 18 Joshna Linton J INH16IS05 Human Detection using Unmanned Engineering and Information Technology 18 Joshna Linton J INH17540 Reprinter applications Engineering and Technology 19 Manika Samal INH161S05 Human Detection Using ML ReprinterSateck <tr <="" th=""><th>_</th><th>Pawan jewan</th><th>1NH16IS075</th><th>Food and Nutrition Evaluation for the</th><th>International Journal for Research in Applied Science $\&$</th></tr> <tr><td></td><td>_</td><td>Pavan Kumar</td><td>1NH16IS072</td><td>Visually Impaired</td><td>Engineering Technology (IJRASET)</td></tr> <tr><td>14 Malika G Charging station for E-V effices using preventions S INHIGS073 Solar with IOT 15 Pavithas S INHIGS073 solar with IOT Engineering actionotal Journal for Research in Computer Science, Amplibrakash 16 Annab blowal INHIGS016 Engineering and Information Technology (JIRASET) 16 Annab blowal INHIGS016 Engineering and Information Technology 17 Annab blowal INHIGS012 Bunan Prabhakaran INHIGS013 17 Annach DSingh INHIGS013 Human Detection using Unmanned International Journal of Scientific Research in Computer Science, Engineering and Information Technology 17 Bhanani Prabhakaran INHIGS030 A Review on Bluetooth embedded International Research Journal of Engineering and Technology 17 Bhanani 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D</td><td>1NH16IS062</td><td>opiayoi</td><td></td></tr> <tr><td></td><td></td><td>Anusha D Singh</td><td>1NH16IS015</td><td>-</td><td></td></tr> <tr><td></td><td>16</td><td>Bharani Prabhakaran</td><td>1NH16IS022</td><td>Human Detection using Unmanned</td><td>International Journal of Scientific Research in Computer Science,</td></tr> <tr><td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td><td></td><td>Joshua Linton J</td><td>1NH16IS043</td><td></td><td></td></tr> <tr><td></td><td></td><td>Asha K</td><td>1NH17IS400</td><td></td><td></td></tr> <tr><td></td><td>17</td><td>Sakthi Sridevi</td><td>1NH17IS401</td><td>A Review on Bluetooth embedded</td><td>International Kesearch Journal of Engineering and Technology</td></tr> <tr><td></td><td></td><td>Manisha Samal</td><td>1NH16IS056</td><td>10000 101 agriculture applications</td><td></td></tr> <tr><td>18Pranav Pandhi1NH161S081Breast Cancer Prediction Using MLINTERNATIONAL JOURNAL OF ENGINEERING RESEARCE19Somya Singh1NH161S109Techniques& TECHNOLOGY19Liktiha R1NH161S099Traffic Surveillance Using SmartInternational Journal of Scientific Research in Computer Science,10Liktiha R1NH161S099Traffic Surveillance Using SmartInternational Journal of Scientific Research in Computer Science,20Meghana C A1NH161S099Traffic Surveillance Using SmartInternational Journal of Scientific Research in Computer Science,20Ramakanth A1NH161S099Traffic Density Management usingInternational Research Journal of Engineering and Technology20Samya Mannuru1NH161S096Movable DIvider and RFIDInternational Research Journal of Engineering and Technology21Koushalya R1NH161S050Movable DIvider and RFIDInternational Research Journal of Engineering and Technology21Koushalya R1NH161S050Movable DIvider and RFIDInternational Research Journal of Engineering and Technology21Koushalya R1NH161S050Movable DIvider and RFIDInternational Research Journal of Engineering and Technology</td><td></td><td>Sudarshan 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	Gowtham M N	1NH16IS035	Comparison for Developing an Android Application	(IRJET)
	A.Amir Sohail Baig	1NH16IS010		
22	Amal Singh Bhadauria	1NH16IS009	Heart arrhythmia Detection using Deep	International Research Journal of Engineering and Technology
	Hemanth Kumar	1NH16IS039	LCALIIIIB	
	Vrinda Raveendran	1NH16IS125		
23	Sri Vidya B M	1NH17IS403	Machine Learning approaches on	International Journal of Scientific Research in Computer Science,
	Tejavati Hedge	1NH16IS115		
	Aashika M suresh	100S191HN1		
24	Nikita nanju K	1NH16IS068	Solar Energy Equipped Io1 Based	International Journal of Scientific Research in Computer Science, Environment Information Tachnology
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25	Ishu Kumar	1NH16IS040	Implementation of Improved Billing	International Journal of Scientific Research in Computer Science,
	Vathsavi Venkat	1NH16IS143	Illased	
	Siddharth Indoria	1NH16IS105		
26	Sinchana Bhaskar	1NH16IS107	A literature review on sentiment	International Journal of Scientific Research in Computer Science,
	Sharan Gouda	1NH16IS101	فللطارع	

Department of Electrical and Electronics Engineering | NHCE



Scope of Self-learning for ISE

	Compulsory NPTEL courses:
Web based learning	Start IntelEDON COLLECE OF FIGURE FEINN, BANGALORE Chainmans: Indition in VTU, According by NAAC with Grade "A") Description of September 133 Build Control Coll Start Control Control Coll Start Control Contro
Library/Digital Library	 The Institution library provides information and ideas
	that are fundamental to functioning successfully in
	today's information and knowledge based society.
	• The Institution library equips students with learning
	skills and develop the knowledge
	• Availability of NPTEL videos.
	• Sufficient systems with multimedia facilities.
	• Institutional membership of DELNET, a library
	networking database.
	Internet facility
	Project-based learning (PBL) promotes development
	of critical thinking and problem-solving skills by
Project Based Learning	anowing students to work in teams on real world projects. However, in spite of its effectiveness, the
	use of PBL in engineering classrooms has been



	limited due to the challenges associated with its					
	design and implementation.					
	4 Mini Projects including Extensive survey and Final					
	year projects are carried out based on Project Based					
	Learning					
	Through case studies, students will improve their					
	ability to learn and retain concepts in their courses,					
Case study	on work terms and in their professional lives. One of					
	the best means to create case studies is by converting					
	them from student-generated work reports.					
	Joining a professional body opens up a vast network					
	of knowledge and expertise that is much wider than					
	your immediate university community. Students will					
Duefersional Dadias	gain access to those who are one or two steps ahead					
Professional Bodies	of them and it helps them feel part of a community of					
	like-minded people.					
	ICI Students Chapter is in existence					
	To identify major environmental problems and to find					
	the best possible remedies.					
	To create an awareness on the need for d environment					
Club Activities	preservations for a better tomorrow. To provide					
	insight into existing and evolving technologies.					
	To familiarize with real life problems and the ideas to					
	tackle them.					
	It enables students to go through the topics in a more					
	elaborate manner in order to explore the academic					
Assignments	topic which lead to an overall better learning					
	experience for students.					
	Industry visits help enhance interpersonal skills and					
	communication techniques. Students become more					
Industrial visit	aware of industry practices and regulations					
	during industry visits. Industry visits broaden the					
	outlook of students with exposure to different					
	workforces from different industries					
	During an internship, students work on real					
Internships	projects,get acquainted with the current market					
	1					





	trends, sharpen their technical skills, and learn in-			
	demand technical skills. Apart from this, an			
	internship introduces them to the corporate			
	world, teaches them professional ethics and polishes			
	their soft skills like communication and inter personal			
	skills. With an internship they can become engineer's			
	way before their graduation which could prove to be			
	extremely helpful for an effortless adaptation to work			
	environment when they join a full time job.			
	Engineering is forever changing. Technology			
Conference/Seminar/Workshop	changes. Methods and processes change.			
	Environmental focuses change. Everything changes.			
	And the rate of change is ever-increasing.			
	Conference/Seminar/workshop help students in,			
	Broadening their knowledge			
	Cross pollinating their ideas			
	Developing their Network			
	Advancing their careers			
	Advancing their careers			

Utilization and its effectiveness:

- The overall aim of this review is to evaluate the effectiveness of self- directed learning on the professional development of students.
- Most of the students reached to a conclusion that self-learning process is an effective approach for learning but not more than the traditional method of teaching.
- Students are motivated to improve their initiation in reaching their goals.
- Students are able to scan through the reading material available to them.
- Many of the needs of students are best met by learning process. The students are encouraged to learn by themselves for their present and future needs.
- Students are able to do better in competitive examinations and get placed in suitable companies.



Table 9.4.9: Detailed list of MOOC course certification for self-learning

Year	2019-20	2020-21	2021-22
Faculty	21	47	14
Students	125	137	183

9.5 Career Guidance, Training, Placement

NHCE offers career guidance and placement on all aspects of career planning, job searching and post-graduate studies. College provides individual counseling for all the students towards reaching goals.

A. Availability of career guidance facilities:

- The college has career guidance and placement cell with 9 full time staff members, headed by Executive Director Placement & Training.
- The team fine tunes the students by providing insights into the complex dynamics of the corporate world and the current critical industrial & business scenarios.
- Campus Recruitment Training (CRT) program grooms the students in various areas like Quantitative Ability, Verbal Ability, Reasoning Ability, Group Discussion, Personality Development, Attitude and Behavioral Development and Facing Interview.
- An online portal is used for training the students. This portal allows students to register for placement, avail training using the numerous videos and take up tests to assess themselves. In addition, the portal also provides company specific question papers which can be used to ensure better performance in the aptitude/technical tests. Certified Trainers are deputed to take sessions on Verbal, Written and listening skills to ensure our students are well trained in Business English Communication
- Domain and technical training is provided based on the industry requirement.
- Mock interviews and GDs are conducted on a regular basis to equip final and pre-final students to face the challenges of recruitment scenario.
- The placement cell organizes on-campus and off-campus recruitments.
- In addition to the training conducted by the placement division the department organizes training on technical aspects like Data Structures, Java, C, C++ and Python.

An MOU was signed between New Horizon College of Engineering, New Horizon College and Zenken Corporation, Japan on 5th September 2018 to collaborate on campus recruitments for their operations in Japan (International Placements) and to establish Japan Career Centre at



New Horizon Campus, Bangalore. Senior Executives from Zenken are deputed at New Horizon to train students on Japanese companies' requirements.

The College has created the following infrastructure facilities to conduct training program and campus recruitment.

Facilities	Number
Office	1
Auditorium	1
Seminar hall	2
Rooms for Group Discussion	3
Interview Rooms	4
Computer Centers for Online Test	11

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The college also has a placement committee that ensures that the needs of the students belonging to different branches of engineering are addressed and all are given equal opportunities.

Industry Sponsored Labs

- Amazon
- Capgemini Industry 4.0 Lab
- VMWare Lab
- SAP Lab
- CISCO Lab
- Schneider Electric Lab
- IBM OpenPower Lab
- Robotic Process Automation
- Capgemini PLM Lab
- Oracle Academy Lab
- Capgemini VLSI Lab
- Altair AI, ML and Data Analytics Lab
- 5G Communication Lab
- HP Vertica Lab
- FANUC ROBOTICS
- Quest Global IIOT Centre of Excellence



Table 9.5.2: Details of Career guidance, Training, Placement committee members

Sl. No.	Name of the faculty	Designation		
1	Prof. Gurucharan Singh	Exe, Director - Dept. of HRD		
2	Mr. Ranjan Manish	Head - IIC		
3	Dr. Sowmya	Prof. & Head Centre for life skills & lifelong learning		
4	Mr. Anis Mirza	Sr, HR Manager - CR (L&D &P)		
5	Mr. Binod Kumar Singh	HR Manager - CR (L&D &P)		
6	Ms. Manisha Joshi	HR Manager - CR (L&D &P)		
7	Mr. Manjunath R N	HR Manager - CR (L&D &P)		
8	Ms. Sreelatha	Sr. Office Executive		
9	Mr. Bharat Suundar	Aptitude Trainer		
10	Mr. Karthikeyan	Aptitude Trainer		
11	Mr. Santhosh	HR Executive		
12	Ms. Suneetha	Sr. Lifeskills Trainer		
13	Mr. Devranjan Chatterjee	Lifeskills Trainer		
14	Mr. Ramesh	Lifeskills Trainer		
15	Mr. Gangadhara Murthy	Lifeskills Trainer		
16	Mr. Prabhu James	Lifeskills Trainer		
17	Mr. Richard	Lifeskills Trainer		



Department of HRD - Structure



Figure No. 9.27: Structure of department of HRD

B. Pre-Placement Training:

The process involves

- Identification and grooming of capable students for a particular domain
- Arranging Training Sessions from industry resources regularly.
- Counseling the students having less attendance in trainings.
- Interacting with Life skills trainer regularly for inputs on training.
- Maintaining the attendance of the students and sharing the same with Centre for Life Skills and Life Long Learning.
- Ensuring students learn English essentials/business communication as a subject.

-Arranging Aptitude Development training sessions for all programmes of Undergraduate (UG).



-Vista Mind, Ethnus Consultants, Focus Academy for creative Education are engaged to conduct Aptitude Development training which is scheduled as part of academic schedules.
- Soft skills development sessions are scheduled for all UG programmes. PCC India handles Soft skills for all these students by the seasoned trainers experienced in corporate orientation.

 Arranging Technical and domain related sessions and the topics will vary from one programme to another programme. All circuit programmes are taught with basic programming subjects, C, DS etc. Non-circuit programmes students are trained with core subjects and the highlight would be fundamentals of Electrical Engg, Electronics Engg, Mechanical Engg, Civil Engg, Automobile Engg, etc. and some application orientation.

(b)The Roles and Responsibilities of Placement Committee (PC)

- To conduct research regarding the skills, abilities, and credentials employers seek from graduates and also to find relevant job titles and industries for graduates.
- To help students create their resumes and cover letters, find internship or externship sites, and apply for jobs in their fields.
- To arrange for mock interviews to give students practice answering common questions and provide information about companies hiring in the area.
- To develop strong rapport with employers and develop local partnerships with companies where students can do internships or externships or visit for job shadowing. And also to recommend students to these employers after they learn necessary skills.
- To schedule hiring events like job fairs which gives students exposure to potential jobs and helps local companies find suitable candidates.
- To Ensure students availability for all campus recruitment events
- To participate in pre-placement presentations conducted by companies
- To participate in exit meetings at the end of each company recruitment events and to implement suggestions regard to grey areas as mentioned in the feedback in the departmental activities.
- To coordinate with each Department regarding aptitude, soft skills and domain related training activities to students.
- To Visit companies for presenting Department's quality and talent pool availability
- To arrange for domain related training and re-training activities based on companies' feedback.



NEW HORIZON SCHOLAR PROGRAM has focused an initiative to tap potential students at 2nd& 3rd year level and groom them to the best possible opportunities in Corporate, Government or Higher Education purposes. The following interventions are provided for the selected students.

- Conduct problem solving sessions by highly accomplished people in industry / institutions.
- Expose them on areas beyond the engineering textbooks such as economy, emerging business areas, international affairs, social issues etc.
- Focused technology sessions such as Big Data Analytics, SMAC (Social Media Mobility Analytics – Cloud Computing), Digital marketing etc.
- Motivation sessions by high achievers in business, entrepreneurship etc.
- Focused on recent advancement in Internet of Things (IOT)by enabling the interconnection and integration of the physical world and the cyber space.
- To develop insight into the usability challenges in developing Artificial Intelligence (AI) systems, and effective means of meeting these challenges and to gain knowledge for collaboration between the Human Computer Interface (HCI) and AI communities.
- Fundamental foundations and application skills for non-circuit branches.

Selection of students: Students are selected at $3^{rd}/4^{th}$ semester level by heads of departments. The criteria for selection of students is broadly based on academic performance and exceptionally good students who may not be top in class but have the potential to excel in studies if they are given required support.

Operational arrangements: Identified students will be provided an environment for each other to discuss debate and interact on their thoughts at regular intervals. An exclusive space of about one class room size is provided with necessary aids within the room such as journals, some latest books on innovation, creativity. Two computers with internet connectivity and Air Conditioning facility with biometric based entry are also provided. This space can be branded and showcased for other students to aspire to belong this group.

Career counseling for higher studies:

Career guidance and motivational lectures by Alumni, External guests and faculty are organized frequently.

9.5. A Career counseling for higher studies

Career guidance and motivational lectures by Alumni, External guests and faculty are organized frequently.

Motivation for Higher Studies



Faculties of the department advise and motivate students to pursue higher education by introducing them to the range of benefits available to those who are better equipped. Students are briefed about the opportunities and advantages of pursuing higher education in India and abroad. International education offers the opportunity to broaden horizons and build skills and experiences and makes them more employable, as they gather experience that a lot of other candidates won't have. Students can widen their repertoire and communicate more effectively when exposed to education abroad.

Faculty let the students know that the opportunities for professional development are vast and by building their professional skills, they will move up the jobs ladder and are likely to increase their income quickly. Students are also made aware of the eligibility criteria and are advised to take up tests like GRE, GMAT, IELTS, TOEFL, etc if they are interested in pursuing education overseas. Students who want to pursue education in India are briefed about GATE, CAT, PG CET and given exposure to the various opportunities.

Sl. No	Name	Designation	
1	Financial Literacy program for SC/ST Students	Dr Sheelan Misra, HOD-MBA, NHCE	
2	Workshop on Students exchange program to France	Dean-Academics, NHCE	
3	Workshop on Overseas Education for M. S	Mr. Devanand M, Market Development Executive, Global reach, Brigade road, Bangalore	
4	Quiz - InQuizitive Minds 2018	Career Launch, Marathalli	
5	Motivational talk on Higher studies in Foreign Countries	Ms. Usha Mahadevappa, Manager, Business Development, International Education Specialist (IDP) IDP Education India Pvt. Ltd	
6	Motivational talk on Opportunities for Higher Studies in Abroad	Mr. Shaon Basu, Manager, Operations & Academics, Jamboree Education, No. 539, ashwini complex, 2nd Floor, CMH Road, indiranagar, Bangalore-38	

 Table 9.5.3: Career counseling for higher studies

Organizing coaching classes for competitive exams

The departments organize coaching classes for GATE and other competitive examinations.

- The placement cell organizes seminars on higher studies and conduct aptitude training sessions.
- Foundation course for Civil Services is offered for interested students appearing for Civil Services. Many books and periodicals are available in the library for the students.

Skill development (Spoken English, Computer Literacy etc.)

Communicative English has been incorporated into the curriculum. The English Language





communication lab with a capacity of 60 consoles has been set up with innovation. Industry – Institute Collaboration Activities:

The purpose of Industry Institute Collaboration Cell which shall be referred to as IIC hereon is to ensure a paradigm shift in the thought process of a New Horizon student from J2C (Job to Career). This should lead a student towards identification of a SMART CAREER GOAL. Taking a step further, IIC would endeavour to establish connect between eminent faculty members and the relevant industries to join hands and work towards mutually beneficial cause/projects.



Figure No. 9.5.2: Industry Institute interaction

The ulterior aim of IIC is to work towards making New Horizon College of Engineering, a respectable and most sought after Engineering college which provides the best amalgamation of Innovation, entrepreneurship development, skill up gradation, passion and aptitude along with sound theoretical subject knowledge which in turn makes our students industry ready and innovators of tomorrow so that they can pursue their passion and think beyond a job. The efforts and orientation of IIC would be in a manner wherein industry academia alliance would help our students reach the pinnacle of success and also ensure our elite faculty members are amongst the most sought after teaching fraternity.

Centre of Excellence

- Develop best learning process using a comprehensive understanding of industry's best practices.
- Imbibe professionalism, behavioural aspects and awareness as per the industry expectations.
- Continuous improvement to achieve success and growth.



Industry/Incubation

- Align aspirations of the students with the needs of the industries.
- Solutioning is the need of the hour.
- Customer value creation for industry and students
- Attention to both individual and students and groups.

Industry Integration

- Leveraging networking and collaboration with partnership.
- Promote career counselling by organizing guidance lectures by senior corporate personnel.
- Regular interaction with the industry through Seminars, Guest Lectures, Conferences, Corporate Meets, etc.

Internship Visits

- Enable student readiness.
- Training on employable skills.
- Talent transformation.

Table 9.5.4. A : No. of students opted for Higher Education - EEE

	2018-22	2017 - 2021	2016-2020
Higher Education M.Tech/MS/Ph.D	No. of Students	No. of Students	No. of Students
M.Tech/M S	6	7	5

Table 9.5.4.B : No. of students opted for Higher Education – ISE

	2018-22	2017 - 2021	2016-2020
Higher Education M.Tech/MS/Ph.D	No.of. Students	No. of Students	No. of Students
M.Tech/MS	3	7	3



9.5.B Career Guidance and Placement support

The placement data for the last three academic years and the maximum & average pay package offered to the students of EEE & ISE departments are given.

51.0	MECTS (V semester)		
	Problem Solving	: 12 Hours	Lecture
	Object Oriented Programming Revision	: 8 Hours	Lecture
	C Programming Revision	: 4 Hours	Lecture
	IT Latest Technology	: 4 Rours	Faculty PPT presentation
	Public Speaking by students	: 4 Hours	Class Management
	Tech Talk by students	: 4 Hours	Class Management
	Placement Talk	: 2 Hours	
	Alumni Talk	2 2 Hours	Class Management
	Test	: 2 Hours	Invigilation (Oops concepts)
	Tech Quiz	: 2 Hours	Invigilation (MCQs on C & C++)
	Code Debugging	: 2 Hours	Invigilation (C or C++)
	Faculty interaction	1 2 Hours	
	Hands-On/Assignment	: 8 Hours	
		: 56 Hours	
	101AL		

Figure No. 9.5.4: Total number of hours allotted for training

New Horizon College of Engineering								
	Refresh Classes for Recruitment Process-2018							
Date/Day	B1(CSE)	B2(ISE)	B3(ECE-1)	B4(ECE-2)	B5(ME-1)	B6(ME-2)	B7(EEE)	B8(CV, BT,MCA)
24/09/2018	Apti	Tech	Apti	Tech	Apti	Tech	Apti	Tech
Monaday	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)
25/09/2018	Tech	Apti	Tech	Apti	Tech	Apti	Tech	Apti
Tuesday	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)
26/09/2018 Wednesday	Apti-Test	Tech- Test	Apti-Test	Apti-Test	Tech-Test	Tech-Test	Tech-Test	Apti-Test
	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)
27/09/2018 Thursday	Tech-Test	Apti-Test	Tech-Test	Tech-Test	Apti-Test	Apti-Test	Apti-Test	Tech-Test
	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)
3/10/2018	Apti	Tech	Apti	Tech	Apti	Tech	Apti	Tech
Wednesday	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)
4/10/2018	Tech	Apti	Tech	Apti	Tech	Apti	Tech	Apti
Thursday	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)	(3-5pm)
5/10/2018 Friday	Apti-Test	Tech- Test	Apti-Test	Apti-Test	Tech-Test	Tech-Test	Tech-Test	Apti-Test
	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)
6/10/2018 Saturday	Tech-Test	Apti-Test	Tech-Test	Tech-Test	Apti-Test	Apti-Test	Apti-Test	Tech-Test
	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)	(5-7pm)
Batch wise Faculty Trainer:								
B1-CSE(Tech-Ms. Kavitha(MCA), Apti- Dr. Srinivasa G.(Math)), B5-ME-1(Tech-Mr. Shivabalan(CSE), Apti- Mr.Sub								
B2-ISE(Mr. Govinda Raju(MCA), Apti- Dr. Srinivasa G.(Math))),B6-ME-2(Tech-Ms. Vandana(ISE), Apti-Mr.Subrar B3-ECE-1(Tech-Mr. Gangadhar(ISE), Apti-Mr. Madhu Mohan Raju(Math))B7-EEE(Tech-Mr. Vishwanath(MCA), Ap								

Figure No. 9.5.5: Placement training schedule sample for 2018 batch

9.5.C Placement Committee (PC):

The members of the Placement Committee are as below:

Table 9.5.5.A: Members of the Placement Committee - EEE

Name of the Faculty	Designation	Departmen t
Prof. Gurucharan Singh	Executive Director	Dept. of HRD
Mr. Binod Kumar Singh	HR Manager	Dept. of HRD
Dr. Sujitha S	HoD-EEE	Dept. of. EEE
Mr. Sunil Kumar K	Sr. Asst. Professor	Dept. of. EEE
Mr. Kartheek Vankadara	Asst. Professor	Dept. of. EEE

Table 9.5.5.B:	Members	of the	Placement	Committee -	- ISE
1 abic 7.5.5.D.	THE MOULD V	or the	1 iaccinent	Committee	1012

Name of the Faculty	Designation	Department
Prof. Gurucharan Singh	Executive Director	Dept. of HRD
Mr. Binod Kumar Singh	HR Manager	Dept. of HRD
Mrs. Shruthi	Asst. Professor	Dept. of. ISE
Mrs. Latha	Asst. Professor	Dept. of. ISE
Mr. Karthik M	Asst. Professor	Dept. of. ISE

Achievements:

(i) **EEE Department**

Table 9.5.6.A: Placement Details

SI. No.	Name of the company	Number of students placed
	Academic Year 2022-23	
1	Cognizant	13
2	Capgemini	22
3	Computacenter (India) Pvt. Ltd.	2
4	DXC Technology	1
5	Happiest Minds Technologies Pvt. Ltd	2
6	Musigma	3
7	EXL Service	3
8	SAP Labs India	1
9	Steer Engineering	3
10	Ernst & Young	3
11	Mindtree	4
12	Transcaal Power Division India Pvt Ltd	6

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13	KPIT	3
14	Dell Technologies	1
15	EPSILON	3
16	Allstate Solutions Pvt Limited	2
	Visionet System Inc	
17		1
18	TCS	1
	Total Placed	89
	Academic Year 2021-22	
1	Automation Anywhere	7
2	Cognizant	7
3	Capgemini	23
4	DXC Technology	11
5	Ernst & Young	3
6	CGI	9
7	Accenture	5
8	Wipro Ltd	4
9	Musigma	4
10	Galaxe Solutions	2
11	Happiest Minds Technologies Pvt. Ltd	5
12	Kishu Giken Kogyo	1
13	TheMathCompany	1
14	IBM	1
15	CERNER CORPORATION	1
16	Tudip Technologies Pvt Ltd	3
17	L&T Technology Services	4
18	EXL Service	5
19	Sky Point	1
20	Wipro Ltd	4
21	Anora Semiconductor Labs Private Limited	2
22	MyCaptain	1
23	IQVIA	1
24	Tudip Technologies Pvt Ltd	3
25	Comviva	5
26	TCS	1
27	Hashedin By Deloitte	1
28	Skyhigh Security	1
	Total Placed	99

Table 9.5.6.B: Pay Package offered to students - EEE

	Maximum Salary	750000	
2022- 23	Average Salary	598939.3	
	Maximum Salary	900000	
2021-22	Average Salary	549117.6	

(ii) ISE Department

Table 9.5.7.A: Placement details - Academic Year 2018-22 Batch

Name of Company	No. of students Placed
Cognizant	6
Comviva	4
Byjus	2
Capgemini	46
INCADEA	1
EXL Service	5
ESKO	2
CGI	2
Brillio	1
HUGHES SYSTIQUE CORPORATION (HSC)	3
DXC Technology	11
Ernst & Young	5
Wipro Ltd	4
Musigma	2
Galaxe Solutions	1
LOWE"S India	5
Publicis Sapient	1
MyCaptain	1
Accenture	3
TCS	2
Wissen Infotech	1
LTI (Larsen & Toubro Infotech)	2
Starland Company Ltd (Japan)	1
IQVIA	1
Hiver	2
CERNER CORPORATION	3
Legato Health Technologies, Accenture	3
I Exceed technology solutions	1
Tudip Technologies Pvt Ltd	1
Automation Anywhere	1

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Zensar	1
Cognisure	1
ArisGlobal Ltd	1
Dell Technologies	1
Happiest Minds Technologies Pvt. Ltd	2
Digit General Insurance	1
Visionet System Inc	1
IBM	3
EPSILON	2
Total	135

Table 9.5.7.B: Pay Package offered to students 2018- 2022

1	Maximum Salary	19,34,000
2	Average Salary	5,92,282

Name of Company	No. of students Placed
Capgemini	25
CERNER CORPORATION	5
Cognizant	8
ESKO	3
EXL Service	7
Infogain	10
INFOSYS	7
INTEL	1
L&T Technology Services	10
LOWE"S India	10
LTI (Larsen & Toubro Infotech)	4
Mindtree	12
Mobisy Technologies Ltd	1
National Payment Corporation of India	1
PhonePe	1

Table 9.5.7.C Academic Year 2017-21 batch



Service Line Solutions Pvt Ltd	2
Surya Software	1
TCS	1
Tudip Technologies Pvt Ltd	10
Total	119

Table 9.5.7.D Pay Package offered to students 2017- 2021

1	Maximum Salary	19,14,000
2	Average Salary	5,61,512

Table 9.5.7.E Academic Year 2016-2020 batch

Name of Company	No. of students Placed
Altran	1
Accenture	1
Capegemini	15
Catnip	2
Cerner	10
CGI	3
Covance	2
Epsilon	1
Eurofins	2
Extramarks	1
HP	1
Hughes Systems	1
IBM	7
IBS	2
Infosys Ltd	6
ITC infotech	8
L&T	4
LOWES	3
Microgenesis	1
Musigma	1
NTTData	6



Nineleaps	6
Neoway	1
Perfios	1
Simeio Solution	2
Speridian	1
Temairazu Inc	1
Tech Mahindra	1
Surya-soft	1
Visionet	1
Vmware	1
Udan	1
Wipro Limited	17
Total number of students placed	112

Table 9.5.7.F Pay Package offered to students 2016-2020

1	Maximum Salary	22,00,000
2	Average Salary	5,17,261

9.6 Entrepreneurship Cell (5)

- NH-EDC was established in August 2011, under the aegis of Department of Management Studies. NH-EDC is headed by Dr. Sheelan Misra, Prof. & HoD–MBA with a team of faculty coordinators from other departments of the college.
- The goal of NH-EDC is to assist students, entrepreneurs, including Institutes' faculty, with pre-venture, start-up or existing business with financial management, marketing, technology and product development and commercialization issues.
- Working in collaboration with National Entrepreneurship Network (NEN), since its inception, NH-EDC has conducted various activities for the college students creating and promoting entrepreneurship awareness at the campus. E-WEEK is one of such initiatives where array of activities is conducted raising the spirit of innovation and creativity which are considered as sparkplugs of entrepreneurship.
- The students are given latest inputs about the industry, the changes happening and the expectations just to make them understand the employability options and opportunities to control unemployment and create better opportunities for youngsters.



Entrepreneurship Initiatives:

- To create an environment for self-employment, promote innovation, incubation and Entrepreneurship development through formal and non-formal programs
- > To introduce the concept of Entrepreneurship in curriculum at degree levels
- > To develop management personnel at appropriate levels for non-corporate and unorganized sectors like education, rural development, small-scale industry etc
- > To utilize the infrastructure facilities and technically trained manpower for the development of non-corporate and unorganized sectors.
- > To promote employment opportunities
- > Technology Commercialization Assistance and Management Evaluation
- Intellectual Property Rights/Management
- Help with Regulatory Compliance
- Feasibility Study (Technical and Financial)
- Help with Business Basics
- Marketing Assistance/Market Research/Pilot Study/Test Marketing.
- Enhancement of Marketing Skills, Commercialization/Scale up: Access to Bank Loans, Loan Funds and Guarantee Programs and Access to Angel Investors or Venture Capital etc.
- Business Structuring Advisory: Help with Accounting/Financial Management/ Company Formation/Management Team Identification/HR Services.
- > Help with Presentation Skills and Business Etiquettes.
- Comprehensive Business Training Programs.

Entrepreneurship Development (ED) Cell facilities:

The infrastructure facilities of Entrepreneurship Development (ED) Cell at NHCE are tabulated in Table 9.6.1 and the details of ED cell committee members are listed in Table 9.6.2.



Table 9.6.1: List of Entrepreneurship Development Cell facilities and physical

Sl. No.	Description	Number
1	Computer	3
2	Printer	3
3	Scanner	1
4	LCD Projector	1
5	Interactive White Board	1
6	Furniture's	Table-5, Chair-30
7	Seminar Halls/Conference Rooms	1
8	Discussion Rooms	1
9	Video Conferencing Facilities	50 Seats
10	Incubation Space (Cubicles)	1000 Sq.mt
11	Office Space	250 Sq,mt

infrastructure at NHCE

Entrepreneurship Development Cell committee management:

 Table 9.6.2 Entrepreneurship Development Cell committee members

Sl. No.	Name	Dept.	Position
1	Dr. Smita Harwani	MBA	Associate Professor
2	Mr. Sidde Gowda	MCA	Assistant Professor
3	Mr. Prashanth K S	BSH	Assistant Professor
4	Mr. Gagan Purad	CSE	Assistant Professor
5	Ms. Vandana	ISE	Assistant Professor
6	Mr. Kodandapani Depa	EEE	Assistant Professor
7	Dr Piruthiviraj P	ECE	Associate Professor
8	Mr. Ranganathan	CIVIL	Assistant Professor
9	Mr. Puneeth	ME	Assistant Professor
10	Mr. Sunil	AU	Assistant Professor
11	Dr. Upendra	BT	Assistant Professor

Entrepreneurship Development Cell (EDC) conducts various events to help students to know the importance of being an entrepreneur and ways to get financial assistance to become a successful entrepreneur. The list of events conducted is mentioned in Table 9.6.3.



Event	Date	Venue
Talk on "Entrepreneurship	08/02/2019	C504
Development Talk"		
Entrepreneurship Development Talk	31/08/2019	Conference Hall
on "Idea, Oppurtunity and Business		
Plan"		
Study abroad with ease	19-09-2020	Virtual platform
Create a winning business plan	11-12-2020	Virtual platform
You can become an Entrepreneur	24-12-2020	Virtual platform
Are you ready for your startup	17-5-2021	Virtual platform
Start-ups during the Pandemic	13-11-2021	Virtual platform
My story- Motivational session by	18-11-2022	Virtual platform
successful Entrepreneur		

Table 9.6.3.A: List of Events (EEE)

 Table 9.6.3.A: List of Events (EEE & ISE)

Event	Date	Venue
Talk on "Entrepreneurship	08/02/2019	C504
Development Talk"		
Entrepreneurship Development Talk	31/08/2019	Conference Hall
on "Idea, Oppurtunity and Business		
Plan"		
Study abroad with ease	19-09-2020	Virtual platform
Create a winning business plan	11-12-2020	Virtual platform
You can become an Entrepreneur	24-12-2020	Virtual platform
Are you ready for your startup	17-5-2021	Virtual platform
Start-ups during the Pandemic	13-11-2021	Virtual platform
My story- Motivational session by	18-11-2022	Virtual platform
successful Entrepreneur		



9.7. Co- Curricular and extra- curricular Activities (10)

The college encourages the students to take part in both co-curricular and extra-curricular activities. The students are allowed to take part in various sport activities also.

9.7.1.A Extra-Curricular Activities of EEE

i) Sports

professional coaches. Equal importance is extended by the department towards extracurricular and co-curricular activities. This can be envisaged by the Sports at the NHCE are played with much fervor and passion. There is emphasis on regular exercise and physical fitness. All games are supervised by number of students participating in such events. The department has students who are members of various college/university level teams like basketball, volleyball, football, throwball, etc. Our students regularly participate in tournaments including those at the state level. Given below are the details of such participation in the different academic years.

Event Name	Name & USN of Student	Semester of Student	Tournament	Event Date
		Academic Year 2022-23		
	RAKSHAN L 1NH21EE093	III	VTU(NHCE)	28th & 29th NOV 2022
	SIMRAN 1NH20EE110		VTU SELECTIONS	3rd DEC 2022
			SPARDHA	14th TO 17th DEC 2022
BASKETBALL			VTU(Dr.AIT)	5th & 6th DEC 2022
			VTU(ATME)	7th TO 9th DEC 2022
		Λ	SPARDHA	14th TO 17th DEC 2022

Table 9.7.1: List of Sporting Events Participated in by Students of EEE

MATIONAL BOARD

CCREDITATION
or ACC

			CHRI-SPO	19th TO 22nd APRIL 2022
			ATHLOS	26th TO 29th APRIL 2022
			DEVADAN CUP	28th TO 30th APRIL 2022
	DHANUSH L	IIIA	ATHLOS	26th TO 29th APRIL 2022
	INH18EE/10 SIMRAN KANWAR 1NH20EE110	IV	DEVADAN CUP	28th TO 30th APRIL 2022
			NMIT	10th &11th MAY 2022
BASKETBALL(M)			MOMENTUM 22	1st & 2nd JUNE 2022
			ATHLOS	26th TO 29th APRIL 2022
			MOMENTUM 22	1st & 2nd JUNE 2022
	MANOJ KUMAR P INH19EE070	Ν	ATHLOS	26th TO 29th APRIL 2022
KABADDI	HEMANIH B N INH20EE041		NMIT	13th &14th MAY 2022
		IV	ABHIYANTAN 22	26th MAY 2022
	R PUNEETH	VIII	ATHLOS	26th TO 29th APRIL 2022
FOOTBALL	0C/22011111		DEVADAN CUP	28th TO 30th APRIL 2022
			MOMENTUM 22	1st & 2nd JUNE 2022
	PONNAPPA MM		DEVADAN CUP	18th TO 25th APRIL
	CHANDAN N	VIII	ATHLOS	26th TO 29th APRIL 2022
CRICKET	INH18EE711		MOMENTUM 22	26th TO 30th MAY 2022
			SEACET	17th TO 20th JUNE 2022
	MANOJKUMAR P	VI	ATHLOS	26th TO 29th APRIL 2022
KABBADI(M)		TA	NMIT	13th &14th MAY 2022
			ABHIYANTAN 22	26th MAY 2022





ii) Participation in Inter College and Intra College Events

Students of the department are encouraged to participate in technical activities conducted by other colleges. Several of our students have won events as well. The details of such participation are listed below.

Table: 9.7.1.B Participation in Electrathon

Remarks	Participated	Participated	Participated	Participated
Role	Team Leader	Team Member	Team Member	Team Member
NSN	1NH21EE402	1NH20EE035	1NH20EE118	1NH20EE117
Team members	DHEERESH VIJAY DEVADIGA	DONY SNEHIT P	TEJASHREE T	TANTAPUREDDI HARITHA
Event		Luffin Trobar Culture Fort	Infinity- 1 echno-Cultural rest	


(i) Sports

9.7.1.C List of students participation in Sports

Achievements	PARTICIPATION	RUNNERS	RUNNERS	WINNERS	PARTICIPATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	GOLD MEDAL	III PLACE	WINNERS	PARTICIPATION	PARTICIPATION	PARTICIPATION		PARTICIPATION	PARTICIPATION		PARTICIPATIN	PARTICIPATIN	PARTICIPATION	PARTICIPATION	PARTICIPATION	WINNERS	PARTICIPATION	PARTICIPATION	
Tournament	COURT WARS	RIT	VTU (BCZ)	VTU (IZ)	KREEDOSTAVA	PESIT	CMP PRACTICE	ASSOCIATION CU	VTU	VTU	SPARDHA 2019	REEDOSTAVA	PESIT	RIT		PESIT	RIT		ST JOHNS	SNHOL TS	Malleshwaram Cup	SPIEL	RVCE	DEVADAN CUP	AIIUT	RVCE	
Date	1st TO 8th SEP 2019	9th TO 11th SEP 2019	16th & 17th SEP 2019	25th TO 28th SEP 2019	1st TO 4th OCT 2019	14th TO 16th OCT 2019	25th ,30th & 31st OCT 2019	3rd TO 9th NOV 2019	17th & 18th OCT 2019	24th & 25th AUG 2019	26th & 27th SEP 2019	1st TO 4th OCT 2019	12th TO 16th OCT	2019	11th ,13th & 14th NOV 19	12th TO 16th OCT	2019	11th,13th & 14th NOV 19	25th TO 28th SEP 2019	25th TO 28th SEP 2019	25th JAN TO 3rd FEB 2020	10th TO 15th FEB 2020	22nd TO 24th FEB 2020	28th & 29th FEB 2020	11th TO 20th MAR 2020	22nd TO 24th FEB 2020	
Event	BASKFTBALL (M)							TAEKWONDO	OCHOWNER I		BADMINTON (M)			CRICKET (M)			CRICKET (M)		HOCKEY	HOCKEY	BASKETBALL (M)				TAEKWONDO	EOCE ALL	Ĭ
Sem	Ш				30					III	23		Λ	13		III	31		06 V	47 V	V		30			IV IV	
Usn					1NH18IS0						1NH18IS1			1NH17IS1			1NH18ISC		1NH17ISC	1NH17IS1			1NH18ISC				
Name	DHANUSH BILIGIRI	HN								VIGNESH K S			SUSHANT	CHAUDHARY		DHRUV GULATI			AKASH K R	GOUTHAM S	DHANUSH BILIGIRI	(Played Nationals)				RAJEEV	-
SI.No	1.									2.			3.			4.			5.	6.	7.					8.	

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9.	SUSHANT		IIIV		14th, 15th 20th 23rd FEB	CUFEE	PARTICIPATION
	CHAUDHARY	1NIU17IS112			2020	RVCE	PARTICIPATION
		CITCI/IIINI		CNICKET	16th TO19th FEB 2020	VTU	PARTICIPATION
					11th TO 20th MAR 2020		
10.	DHRUV GULATI		Ν		14th, 15th 20th 23rd FEB	CUFEE	PARTICIPATION
					2020	RVCE	PARTICIPATION
		ICOCIDIUNI		CRICKET	16th TO19th FEB 2020	VTU	PARTICIPATION
					11th TO 20th MAR 2020		
11.	BHAVANA SHREE*		Λ		22nd TO 25th NOV 2021	BMSCE	PARTCIPATION
	(Played VTU Nationals)	LINIT DISOUT		B & VETB & LL (WOMEND	5th TO 7th DEC 2021	PES	PARTCIPATION
	s	1708161HN1		BAREIBALL(WUMEN)	16th TO 18th DEC 2021	VTU,BCZ & IZ	SECOND RUNNER UP
					22nd TO 31st DEC 2021	VTU Nationals	PARTCIPATION
12.	NISTHA		III		22nd TO 25th NOV 2021	BMSCE	PARTCIPATION
	SRIVASTAVA	1NH20IS098		BAKETBALL(WOMEN)	5th TO 7th DEC 2021	PES	PARTCIPATION
				, ,	16th TO 18th DEC 2021	VTU,BCZ & IZ	SECOND RUNNER UP
13.	RITIKA PATIL		III		22nd TO 25th NOV 2021	BMSCE	PARTCIPATION
		1NH20IS133		BAKETBALL(WOMEN)	5th TO 7th DEC 2021	PES	PARTCIPATION
					16th TO 18th DEC 2021	VTU,BCZ & IZ	SECOND RUNNER UP
14.	DHANUSH BILIGIRI		ΠΛ		22nd TO 25th NOV 2021	BMSCE	PARTCIPATION
	ΗN	1NH18IS030		BAKETBALL(MEN)	5th TO 7th DEC 2021	PES	PARTCIPATION
					15th TO 16th DEC 2021	VTU,BCZ	PARTCIPATION
15.	TUSHAR RAJ		Λ		22nd TO 25th NOV 2021	BMSCE	PARTCIPATION
		1NH19IS175		BAKETBALL(MEN)	5th TO 7th DEC 2021	PES	PARTCIPATION
					15th TO 16th DEC 2021	VTU,BCZ	PARTCIPATION
16.	P JAYAVEER		III		22nd TO 25th NOV 2021	BMSCE	PARTCIPATION
		1NH20IS102		BAKETBALL(MEN)	5th TO 7th DEC 2021	PES	PARTCIPATION
					15th TO 16th DEC 2021	VTU,BCZ	PARTCIPATION
17.	RAHUL G		III		22nd TO 25th NOV 2021	BMSCE	PARTCIPATION
		1NH20IS127		BAKETBALL(MEN)	5th TO 7th DEC 2021	PES	PARTCIPATION
					15th TO 16th DEC 2021	VTU,BCZ	PARTCIPATION
18.	HARSHITA MAHRPATRA	1NH20IS057	III	BADMINTON(W)	15TH AND 16TH NOV 2021	VTU(BCZ)	PARTICIPATION
19.	VIGNESH K S	1NH18IS123	ΠΛ	BADMINTON(M)	15TH AND 16TH NOV 2021	VTU(BCZ)	PARTICIPATION

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RUNNERS RUNNERS	RUNNERS DARTICIDATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	PARTICIPATION	4 th PLACE	PARTICIPATION	PARTICIPATION	PARTICIPATION	RUNNERS	PARTICIPATION	PARTICIPATION	PARTICIPATION	RUNNERS	PARTICIPATION	PARTICIPATION	PARTICIPATION	4 th PLACE	PARTICIPATION
VTU(BCZ) VTU(IZ)	VTU(BCZ)	PES	BMSCE	PESU	VTU	BMSCE	PESU	VTU	VTU	PES	VTU(NHCE)	SPARDHA	VOLUENTEER	VTU(Dr.AIT)	VTU(ATME)	SPARDHA	SPARDHA	VTU(ATRIA)	VTU(IZ AIT)	SPARDHA	ARTIYA IT	VTU(MSRIT)	VTU (GNDCE)	VTU(NHCE)	VOLUENTEER	VTU(Dr.AIT)	VTU(ATME)
24th & 25th NOV 2021 27th & 28th NOV 2021	17th AND 18th DEC 2021 20th & 21st DEC 2021	2001 & 2130 DEC 2021 4th TO 7th DEC 2021	24th AND 25th NOV 2021	5th TO 7th DEC 2021	28th & 29th DEC 2021	24th AND 25th NOV 2021	5th TO 7th DEC 2021	28th & 29th DEC 2021	28th & 29th DEC 2021	19th TO 22nd NOV 2022	28th & 29th NOV 2022	14th TO 17th DEC 2022	29th NOV 2022	5th & 6th DEC 2022	7th TO 9th DEC 2022	14th TO 17th DEC 2022	14th TO 17th DEC 2022	17th & 18th NOV 2022	21st & 22nd NOV 2022	14th TO 17th DEC 2022	6th JAN 2023	25TH & 26TH NOV 2022	07TH TO 9TH DEC 2022	28th & 29th NOV 2022	29th NOV 2022	5th & 6th DEC 2022	7th TO 9th DEC 2022
TABLE TENNIS	HOCKEY	CRICKET		FOOTBALL			FOOTBALL		FOOTBALL	CRICKET	BASKETBALLON			BASVETBALLAND	DA3NE1DALL(W)		BASKETBALL(W)		VOLTEVDALT	VOLLE I DALL			FUUIDALL	BASKETBALL(M)		BASKETBALL(W)	
ΠΛ	Ш	ΛII	ΠΛ			Λ			III	III	Λ		>				٨	III				ΠΛ		ΝII	ΠΛ		
1NH18IS008	1NH20IS176	1NH18IS031		1NH18IS143			1NH19IS203		1NH20IS001	1NH21EE077	1NH201S102			1 NILLOUG 133	CCICINZUNI		1NH20IS098		1NIU71EC003	CONCILIZITI			CUSCICIENT	1NH19IS175		1NH19IS027	
ANAMIKA BHATTACHARYA	T PRANAY	DHRUV GULATI	HARSH ANKIT			LALITH ADITYA			A NAVEEN	SAI NADH	P JAYAVEER		RITAKA PATIL				NISTHA SRIVASTAVA	LOCHAN KUMAR D	S			D LALITH ADITHYA	RAJ	TUSHAR RAJ	BHAVANA SHREE		
20.	21.	22.	23.			24.			25.				_		_				_			26.		27.	28.		

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(ii) Participation in Inter College and Intra College Events

Students of the department are encouraged to participate in technical activities conducted by other colleges. Several of our students have won events as well. The details of such participation are listed below.

Table: 9.7.1.D Participation in Inter College and Intra College Events

	Number of Students Outside the State			Number of Students Outside the State	5		Number of Students Outside the State	10
CAY(2021-22)	Number of Students Within State	21	CAYm1(2020-21)	Number of Students Within State	21	CAYm2(2019-20)	Number of Students Within State	20
	Number of Students Participated in Inter- Institute Events	22		Number of Students Participated in Inter Institute Events	26		Number of Students Participated in Inter-Institute Events	30



9.7.2 Co-Curricular Activities

The college encourages the students to take part in both co-curricular and extra-curricular activities. The students are allowed to take part in various sport activities also.

a) Co- Curricular (Club activities) - EEE

Department of EEE has 3 three clubs:

- Green Energy Club
- E-soft Club
- U Create Club

The activities conducted under each club is given in below tables and the pictures of events are shown in figures.



Figure 9.7.2.1 : Codopia (E-SoftClub)



Figure 9.7.1.2: Guest lecture on Eco Building (Green Club)



Sl. No	Event	Name of Club	Date
	Academic Year 2022	2-23	
1.	Train Excel to the school teachers	ECT	5th Jan 2023
2.	Simulate with us	ECT	17th Nov 2022
3.	War of Words	Green Club	11th Nov 2022
	Academic Year 2021	-22	
1.	Codopia "A Future Prospective"	ECT	25th May 2022
2.	Shock with Circuits	ECT	1st Jan 2022
	Academic Year 2020)-21	
1.	Workshop on Industrial Automation	ECT	8th Feb 2020
	Guest lecture on		
2.	ECO-BUILDING	Green Club	6th Nov 2019
3.	HULT PRIZE	UCT	16th Dec 2020

Table 9.7.2.A: List of Club Activities organized - EEE

Table 9.7.2.B: List of Co-Curricular Activities -EEE

Event Name	Event Date
Expert Lecture in modern trends in power system protection	03.07.2021
	06.07.2021
Guest lecture on Simulation model for prediction of optimum fuel	
economy	
Technical Event on "PRAUDYOGEEK"	
	09.07.2021 to
	10.07.2021
Guest lecture on Evolving Technologies and Progressive Markets in	05-08-2021
Power systems	
Distinguished Lecture on "Model predictive control in power	29.09.2021
electronics: a critical review and recent industrial products"	
Competitive event "Simulate It".	12.10.2021
Event Name	Event Date
	23/10/2021
IEEE PELS Distinguished Lecture (Virtual) on "Wide BandGap	



(WBG) Power Electronics Systems for Heavy-Duty Vehicles"	
Synchrophasor Technology (Expert Lecture)	17-01-2022
Industry Expert lecture on"MOTORS FOR INDUSTRIAL	18-01-2022
APPLICATIONS"	
Alumni talk on " The journey from college to corporate	11-01-2022
Mega Industrial Visit	09-11-2022 to
	12/11/22
Industrial Visit	28.05.2022
Guest lecture on 'Phasor estimation algorithms and applications in	17.04.2023
protective relaying' organised.	
Distinguished Lecture Program on "Wide Bandgap (WBG) Power	28.10.2021
Electronics Systems for Heavy-Duty Vehicles"	

Table 9.7.2.C: List of Extra-Curricular Activities -EEE

Event Name	Event Date
Seminar on "Intellectual Property Rights (IPR): Protect Your Creativity With Patent'	25.05.2022
Seminar on "ECOSTRUXURE TRANSFORMER"	12-10-2022
Five-Day Workshop On Recent Trends In Energy Storage And Electric Vehicle Technology	25.03.2023 to 29.03.2023
National Workshop on "New paradigm in Renewable Energy – Microgrids, EV and Hydrogen"	18.03.2023
Smart Grid Integration & Energy Storage Systems	14.02.2023
National Workshop on Specific Orientation cum Q&A Session ON Patent Drafting and Filing procedures	18.03.2023
Expert Lecture on VLSI Design flow using Xilinx Vivado	02.01.2023
Guest Talk on "VTU Regulations on BE Honours Degree"	21.10.2023
Distinguished Lecture Program on "Model predictive control in power electronics: a critical review and recent industrial products"	30.09.2021

b) Co- Curricular (Club activities) - ISE

Department of ISE has 5 clubs:

- i) i-SWET
- ii) i-SCRUM
- iii) VITA
- iv) NOTE
- v) i-CSEH



SI.NO	Event	Name of Club	Date
	Academic Year 20	22-2023	
1.	PRAVAH	-SWET	18/10/2022
2.	JWALAN	-SWET	16/11/2022
3.	DINEROTE-K	-SCRUM	13/10/22
4	FNIGMA	i-SCRUM	22/11/22
5		i-CSEH	19/10/22
5.	Tech Verse	i-CSEII	22/12/22
6.	lech-verse	1-CSEH	23/12/22
7.	Xenium	VITA	20/10/22
8.	Excelsior	VITA	28/11/22
9.	REWIND 2.0	NOTE	18/11/22
10.	THE BIG 4	NOTE	17/10/22
	Academic Year 2	021-22	
1.	Udhbhava	i-SWET	26/11/21
2.	Spectra	i-SWET	09/06/22
3.	TECH UMANG	i-SCRUM	16/11/21
4	Infromatics	i-SCRUM	29/12/21
5	Seminar on Data and deployment	i-SCRUM	05/05/22
6	Wordsville	i-SCRUM	07/06/22
7	Seminar on Analytics	i-SCRUM	03/06/22
7. 8	Code-O-Fiesta	i-CSEH	17/11/21
0.	Omini_tech	i-CSEH	18/01/22
<u>9.</u> 10	Techwiz	i-CSEH	29/04/22
10.	Fyris	VITA	09/05/22
12	ZVPHFR	VITA	26/11/21
13	Avishkar	VITA	20/11/21
14	Techkriti	VITA	09/06/22
15	Incident Brainstorm	NOTE	19/11/21
16	HackX	NOTE	06/01/22
17	Blunder Workshop	NOTE	06/05/22
18	Rewind	NOTE	13/05/22
10.	Academic Year 2	020-21	10/00/22
1.	Coding Contest	i-SWET	09/06/21
2.	Seminar on IoT	i-SWET	01/04/21
3.	Workshop on ethical Hacking	iScrum	12/04/21
4	Workshop on cyber security	i-CSEH	23/03/22
5.	Online workshop on-HANA	iScrum	17/12/20
6	OuBytes 2021-TECHVRISHTI	iScrum	23/09/20-25/09/20
7	TECHNOWIZZ	VITA	25/09/20
8	VZARDS	VITA	10/11/20
9	GEEK INVASION	VITA	08/06/21
10	UTKRANTI	VITA	22/04/21
11	Cada anal	NOTE	12/04/21

Table 9.7.2.D: List of Extra-Curricular Activities -ISE



12.	Cybernated conflicts and Design overflow	NOTE	8/11/20
13.	Know BE4	i-CSEH	19/10/20
	Academic Year 2019-2	0	
1.	Data Science with Python	i-SWET	28/08/19
2.	Technical Talk on Artificial Intelligence	i-SWET	26/09/19
3.	Technical Event "T-ZEST"	Scrum	11/09/19
4.	Workshop on "Global Education Awareness Programme and Workshop"	iScrum	24/09/20
5.	Workshop on "Vedic Maths"	iScrum	12/02/20
6.	Cryptoathon	i-CSEH	28/08/19
7.	crytptowar	i-CSEH	24/10/19
8.	SecureLinks	i-CSEH	08/02/20
9.	TECHNOMANCE	VITA	28/08/19
10.	VMWARE IT FORUM	VITA	14/09/19
11.	Artificial Intelligence and its applications	i-SWET	26/08/19
12.	Workshop on Python	NOTE	31/08/19
13.	Technical contest KODERS	NOTE	21/10/19
14.	Workshop Vector design	NOTE	09/02/19

The activities conducted under each club is given in below tables and the pictures of events are shown in figures.



Figure 9.7.1.3: Glimpse of the event "Enigma" conducted by i-SCRUM club of



Figure 9.7.1.4 Glimpse of the event "TECH VERSE" conducted by i-CSEH club of Department of Information Science and Engineering



9.7.3 Events at Institution Level

Following are the Extra-Curricular activities organized by NHCE every year.

Sl.No.	Name of the Event
1	Republic Day
2	Independence day
3	Teachers Day
4	Engineers Day
5	Kannada Rajyotsava
6	International Women's Day
7	Birthday of Subhas Chandra Bose
8	Birthday of Sir. M Visvesvaraya
9	Birthday of Sardar Vallabhai Patel
10	Birthday of Rani Channamma
11	Birthday of Jhansi Rani
12	Birthday of Chatrapathi Shivaji
13	Birthday of Shaheed Bhagat Singh
14	Birthday of Swami Vivekananda
15	Birthday of Shaheed Hemu Kalani
16	Birthday of Major Sandeep Unni Krishnan
17	Deepavali
18	Founders' Day
19	Induction Program
20	Graduation Day
21	Freshers' Day
22	Annual Day "SARGAM"

Table 9.7.3.1: List of Extra-Curricular activities organized every year

Apart from that, a series of events are organized every year in the institution as a part of extracurricular activities.



Table 9.7.3.2: LIST OF EVENTS CONDUCTED FOR THE YEAR 2019-20

Sl. NO	EVENTS	DATE	ORGANISED BY
1	Kargil Vijay Diwas	26.07.19	Rotaract Club
2	Blood Donation camp	08.08.19	Leo Club
3	Flood relief camp	10.08.19	Rotaract Club
4	Independence Day	15.08.19	NSS club
5	Sargam 2019 – Unveiling the banner	16.08.19	All clubs
6	Sadbhavana Day	20.08.19	NSS Club
7	Leo Club Induction and Installation ceremony	23.08.19	Leo Club
8	Service at Isckon on the occasion of Sri Krishna Janmashtami	24.08.19	NSS Club/Rotract Club
9	Chai Pe Charcha	28.08.19	Socio Political Club, Literary club, Media club
10	One student one Tree	29.08.19	NSS club, Leo Club
11	Fit India Movement	29.08.19	Fitness Club
12	Investiture Ceremony	06.09.19	All Clubs
13	Fresh Face	12.09.19	Fashion Club
14	DKMS-BMST (Stem Cell registry India)	13.09.19	Leo Club
15	Onam celebration	13.09.19	All clubs
16	Sargam 2019 – State Level Inter collegiate fest	20.09.19 21.09.19	All Clubs
17	A visit to Little Lads residency	29.09.19	Leo Club
18	Freeze It 2.0	03.10.19	Photography club
19	Lake Clean up & plantation Drive	05.10.19	Green Warriors club
20	NHMUN	25 & 26.10.19	Literary Club, Socio political club, Media club
21	Spartan Race – Fitness event	25 & 26.10.19	Fitness Club
22	Art competition for Orphanage kids	26.10.19	Art Club, Green Warriors club
23	Deepvali celebration with orphanage Kids (Game stalls)	27.10.19	Rotaract Club
24	Show Off (Indian Classical)	31.10.19	Music Club
25	Birthday of Sardar Vallabhabai Patel	31.10.19	NSS Club
26	Blood Donation Camp	04.11.19	Leo Club
27	Kannada Kajyotsava	05.11.19	
28	Republic Day	26.01.20	NHUE
29	International Women's Day	08.03.20	NHCE



Table 9.7.3.3: List of activities conducted for the academic year 2020-21

SL NO	EVENTS	DATE	ORGANISED BY
1.	NHMUN 4.0	01.08.2020	Literary Club
2.	Level Up 2.0	05.08.2020	Dance Club
3.	Independence Day	15.08.2020	Extra curricular clubs
4.	Quiz Competition	15.08.2020	Media Club, Fashion Club, Literary Club
5.	Essay Writing competition	15.08.2020	Media Club, Fashion Club, Literary Club
6.	Sadhbavana Day	20.08.2020	NHCE
7.	Inter-Dept Singing	01.09.2020 to 07.09.2020	Music Club
8.	Inter-Dept Extempore	08.09.2020 To 14.09.2020	Literary Club
9.	Inter-Dept Debate competition	15.09.2020 To 21.09.2020	Media Club
10.	Inter-Dept Talent show competition	22.09.2020 To 26.09.2020	Fashion Club
11.	Lights, Camera, Login Inter-college competition	19.09.2020	Drama Club
12.	The Yadalam NanjaiahSetty -31st Annual Inter Collegiate Debate Competition 2020-21	27.09.2020	Participated by NHCE Four students
13.	Inter-Dept Singing competition - Final	01.10.2020	Extra Curricular Clubs
14.	Inter-Dept Extempore competition-Final	01.10.2020	Extra Curricular Clubs
15.	Inter-Dept Debate competition-Final	02.10.2020	Extra Curricular Clubs
16.	Inter-Dept Talent show competition-Final	02.10.2020	Extra Curricular Clubs
17.	Jan Andolan Campaign	12.10.2020	NHCE
18.	Anime Quiz	19.11.2020	Literary Club
19.	Friends Quiz	20.11.2020	Literary Club
20.	Marvel Quiz	21.11.2020	Literary Club
21.	Kannada Rajyotsava	28.11.2020	Extra curricular clubs
22.	Painting & Sketching competition Theme: YIN-YANG 2020-The Good and the Bad	28.11.2020	Art Club
23.	Metanoia- Deleting spam and unwanted	15.11.2020	Green warriors club

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r			
	mails in order to reduce carbon emission		
24.	Quizito – Quiz on Environment	05.12.2020	Green Warrior Club
25.	Jaya Hey – Vijay Diwas	16.12.2020	Extra curricular clubs
26.	Samardhan:As a part of Social Service, Club members undertook the responsibility of cleaning a garden and planted sapling.	17.01.2021	Green Warriors Club in association with NGO JalaPoshan
27.	Republic Day	26.01.2021	NSS club, Dance Club
28.	Cleanliness Drive_Jakkur Lake, JakkurAgrahara, Bangalore	04.03.2021	Green Warriors club
29.	Oh, Crop – Digital poster making	29.04.2021	Media Club
30.	Digital Poster Making	05.05.2021	Green Warriors Club
31.	Debate competition	05.05.2021 & 06.05.2021	Green Warriors Club
32.	Art competition	06.05.2021	Green Warriors Club
33.	Mock IPL Auction	15.05.2021 & 16.05.2021	Literary Club
34.	Shuffle: It was an online event where participants sent in videos of them showcasing their unique sense of fashion through three kinds of outfits - ethnic, formal and western. Participants were judged on creativity, outfits and confidence.	24.05.2021 to 26.05.2021	Fashion Club
35.	Air Crash	05.06.2021	Green Warrior Club
36	Scavenger Hunt Speculate		
	Rapid Fire	06.06.2021	Green Warrior Club
37.	Yoga(108 Surya Namaskar)	21.06.2021	Green Warrior Club
38.	Oratoria : 1.Talk Till You Drop 2.Shark Tank	25.06.2021	Literary club and Media Club

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39.	Oratoria :		Literary club and Media
	1.Middle ground	26.06.2021	Club
	2.Air Crash		
40.	Oratoria :		
	1.1.Plot Twist		Literary club and Media
	² 2.Personality	27.06.2021	Club
	³ 3.Raise the stakes		
41.	Jun-oon 21	29.06.2021	Dance Club
42.	Vaccinatio Drive	28.06.2021	
		29.06.2021	NSS Club
		30.06.2021	
43.	Ethnic Day	28.07.2021	Extra Curricular Clubs
44	Musica'21		
	-Turn the Lockdown	15.07.2021	Music club
	into a Live Set		
45.	Webinar on Fitoholic	10.07.2021	Fitness Club
16	VERGE – Fun filled	06.07.2021	Dram Club
40.	event	00.07.2021	
17	OUIZICALS'21		
4/.	Musical Ouiz	05 07 2021	Music club
	competition	05.07.2021	
19	Independence Day	15.08.21	NHCE
40.	independence Day	15.00.21	
49.	Experience New	21.08.2021	NHCE
	Horizon with a Twist		

Table 9.7.3.4 : List of Extra Curricular Clubs Activities for the year 2021-22

Sl No	Date	Event	Organized by
1.	15.08.2021	Independence Day	Extracurricular clubs
2.	21.08.2021	Experience New Horizon with a twist	Extracurricular clubs
3.	28.08.2021	Online photography competition	Extracurricular clubs
4.	11.10.2021	Investiture Ceremony for Extracurricular clubs	Extracurricular clubs
5.	12.10.2021	World Mental Health Day	Drama Club
6.	21.10.2021		
	&	NHMUN 21	Literary club & Media
	22.10.2021		club
7.		Reel Making,	
		Short Movie Making, and	
	23.10.2021	Poster Design Competition for students	Extracurricular clubs
8.		Amrutha Mahotsava-75	
	25.10.2021	Clean India: Step towards reducing plastic footprint	NSS club
9.	27.10.2021	Diwali Celebration 2021	Extracurricular clubs
10.	09.11.2021	Quadroccia Event – Face painting &	Art Club & Fashion Club
		Ramp walk competition	
11.	10.11.2021	Blood Donation Camp	Rotary Bangalore
			Lakeside Club
12.	17.11.2021	Photography Work Shop - A Camera	Photo & Film Club



		friendly workshop for all camera	
		enthusiasts	
13.	18.11.2021	NIDHI BETE (Treasure Hunt)	NSS Club
14.	18.11.2021	Rangitaranga (Paining Competition)	NSS Club & Art Club
15.	18.11.2021	66th Kannada Rajyotsava	NHCE
16.	18.11.2021	Photography Competition	Photo & Film Club &
			NSS Club
17.		Communal Harmony Campaign Week –	
	19.11.2021	"SLIDE SHARE" PPT presentation on	Socio-political Club
		Communal Harmony (In shaping the	
		future of Children)	
18.	25.11.2021	Communal Harmony Campaign Week –	Socio-political Club
		Debate Competition "LET'S DEBATE"	
19.	27.11.2021	Alumni Meet 2021	Alumni Association
20.	08.12.2021	Spartan Race 2.0	Fitness Club
21.	16.12.2021	Vijay Diwas	Rotaract Club
22.	20.12.2021	Clean Campus Campaign	Extra Curricular Clubs
23.	22.12.2021	Chai PeCharcha	Literary & Socio-Political
			Club
24.	27.12.2021	Three Muskeeters	Drama Club
25.	10.01.2022	Tribal Community Donation Camp	NSS & Rotaract Club
	to 13.01.2022		
26.	15.01.2022	Drug Awareness Session	Leo Club
27.	26.2.2022	Inauguration of Dance Studio	NHCE
28.	12.03.2022	Dance Club Auditions	Dance Club
29.	12.03.2022	Fashion Team Auditions	Fashion Club
30.	18.03.2022	Drama Club Auditions	Drama Club
31.	19.03.2022	Digital Poster Making Competition	Media Club
32.	20.03.2022	Art Club Auditions	Art Club
33.	24.03.2022 & 25.02.2022	BOOTCAMP on Professional Ethics	NSS Club
24	a 23.03.2022	Stam Call Degistry Comm	Lee Club
25	24.03.2022	Stem Cen Registry Camp	Dhotography Club
55.	20.05.2022 & 27.03.2022		Photography Club
36	05.04.2022		
50.	05.04.2022	Sitcom Quiz OTT Quiz	Literary Club
	07.04.2022	Harry Potter Ouiz	
37	22 04 2022	POD (Photography Painting Open-Mic	Rotaract Club
57.	22.04.2022	& Debate) Competition	Rotardet Club
38	06.05.2022	"SHARK TANK"	Green Warriors Club
39	01.06.2022	"FREEZE IT 3 0" – Photography	Photo and Film Club
57.	51.00.2022	Competition	
40.	01.06.2022	"Fashion Audition" – for Designers and	Fashion Club
		Brands (Revelation'22)	
41.	10.06.2022	"Initium 2022" – Inter-Collegiate	Literary, Media & Music
		Literature and Music Festival	Clubs
42.	11.06.2022	Revelations'22	Extra-Curricular Clubs
43.	25.06.2022	Ethnic Day	Extra-Curricular clubs
44.	07.07.2022	Founder's Day	Extra-Curricular Clubs



Sl. No. Date Event Organized by 10.08.2022 Flood Relief Camp Rotaract Club 1. То 12.08.2022 2. 15.08.2022 75th Independence Celebration NHCE Experience New Horizon with a Twist 3. 27.08.2022 NHCE 4. 01.09.2022 Sri Ganesh Chaturthi Pooja and Homa NHCE Rotaract Club 5. 26.09.2022 Cancer Screening Camp (Breast Cancer, Cervical Cancer, & Oral Cancer) 6. 14.10.2022 Sargam Banner Unveiling Extra Curricular Clubs NHCE 7. 21.10.2022 Deepotsav Literary Club Q&A Session with Payal Ninjiani 8. 27.10.2022 9. 31.10.2022 Investiture Ceremony Extra Curricular Clubs 10. 03.11.2022 Script It Out Reel India Productions & Drama Club LIGHT. CAMERA. ACTION. 11. 04.11.2022 Reel India Productions & Drama Club 12. 07.11.2022 Blood Donation Drive NSS Club 13. 11.11.2022 ART ATTACK (Art Competition) Art Club 14. 15.11.2022 CLASH OF THE MINDS Socio-Political Club 15. 16.11.2022 Stand Up Comedy NSS Club Leo Club & Fitness 16. 17.11.2022 Slow Cycling Club TUG OF WAR Fitness Club 17. 18.11.2022 18. 18.11.2022 Movie Night Sargam Core Team, NHCE 19. SARGAM 2022 - A State Level Inter All Extra Curricular 25.11.2022 & Collegiate Cultural Fest Clubs 26.11.2022 20. 30.11.2022 67th Kannada Rajyotsava NHCE Leo Club & Make 21. 01.12.2022 Closet for a Cause, Clothes donation drive A Better Place (MABP, NGO) 22. Cover It Up Media Club 21.12.2022 Study Abroad Options for Engineering NHCE and Imperial 23. 21.12.2022 Student **Overseas** Education Consultants 24. 22.12.2022 Battle of Wits Literary Club 25. 23.12.2022 MUSICA22 Music Club SCAVENGER HUNT Green Warriors 26. 23.12.2022 Club 27. 28.12.2022 WAR OF RHETORICANS Socio-Political Club 28. 04.01.2023 Fashion Club SEPIA CAMINAR 29. 13.01.2023 PHOTOCRAFT Photo and Film Club 30. 19.01.2023 OUIZICAL23 Music Club 20.01.2023 A Tribute to Amar Shaheed Hemu Media Club, Art 31.

Table 9.7.3.5 : List of Extra Curricular Clubs Activities for the year 2022-23



		Kalani	Club & Drama Club
32.	23.01.2023	Parakram Diwas (Birth Anniversary of	Green Warriors
		Nethaji Subhash Chandra Bose)	Club
33.	25.01.2023	"VIBE" (Photography, Videography &	Photo and Film
		Editing Competition)	Club
34.	11.02.2023	Experience New Horizon with a Twist	NHCE
35.	20.03.2023	Parliamentary Debate	Socio-Political Club
36.	20.03.2023	Roots & Shoots (Planting in the Waste	Green Warriors
		Bottles?)	Club
37.	20.03.2023	Personality Trait (Rotaract Recruits)	Rotaract Club
38.	21.03.2023	Innovate & Elevate	NSS Club
39.	23.03.2023	Birth Centenary Year of the Legendary	NHCE & NHCM
		Amar Shaheed Hemu Kalani	

9.7.4 Availability of sports facilities:

Table below summarizes the list of indoor and outdoor games available in the campus of NHCE.

Sl. No.	Name of the sport facility	Numbers available	Place of availability	Whether available beyond regular timings
1.	Caroms	08 boards		
2.	Chess	08 boards	Ctor 1 and a	
3.	Table Tennis	03 boards	Students Represention Control	VES
4.	Madison ball	12	Recreation Centre	165
5.	Yoga mats	06		

 Table 9.7.4.1: List of indoor games available in the campus

 Table 9.7.4.2: List of outdoor games available in the campus

Sl. No.	Name of the sport facility	Available Kits	Place of availability	Whether available beyond regular timings
1.	Volley ball	12 balls		
2.	Basket ball	24 balls		
3.	Throw ball	06 balls		
4.	Hand ball	10 balls	On an analysid	VEC
5.	Kho-Kho	2 poles	Open ground	IES
6.	Football/Cricket	12 balls		
7.	Shot put	02		
8.	Badminton	10 bats		

9.7.5 National Service Scheme (NSS):

Table 9.7.5.1 Student participation under National Service Scheme (NSS)

Sl.No	Year	Date	Event Name	No. of Students
				Participated
1.	2022-23	07.11.2022	Blood Donation Drive	157
2.	2022-23	04.11.2022	Community Service Camp at Bandipur	25
3.	2021-22	16.07.2022	Webinar on POCSO Act 2012 and	112
			Gender equality	



4.	2021-22	26.04.2022	Community Service Camp at Bandipur	20
			and kabini forest areas	
5.	2021-22	28.03.22 &	Community Service Camp at Bandipur	25
		29.03.2022		
6.	2021-22	24.03.2022	BOOTCAMP on Professional Ethics	76
		&		
		25.03.2022		
7.	2021-22	10.01.2022	Tribal Community Donation Camp	30
		to		
		13.01.2022		
8.			Clean Campus Campaign	
	2021-22	20.12.2021		165
9.	2021-22	25.10.2021	Amrutha Mahotsava-75 (Clean India:	75
			Step towards reducing plastic footprint	
10.	2020-21	28.06.2021	Vaccination Drive	10
		to		
		30.06.2021		
11.			One student one tree	
	2019-20	29.08.2019		102
			(Planted 150 saplings under the	
			initiative of the central government)	
12.				35
	2019-20	24.08.2019	Service at ISKCON on the occasion of	
			Sri Krishna Janmashtami	
13.	2019-20	20.08.2019	Sadbhavana Day	5000

Table 9.7.5.2 : List of Major NSS Activities Conducted Details

SL.NO	YEAR	NAME OF EVENT	NUMBER OF PARTICIPANTS
1.		Participated in N.S.S. 73rd Republic	
	2022	Day Parade camp on 26th January	1
		2022 held at Rajpath New Delhi.	
2.		Participated in South Zone Pre-	
		Republic Day Parade Selection	
	2021	Camp-2021 held at University of	1
		Agricultural Sciences, GKVK,	
		Bangalore, organized by Regional	
		Director of NSS Bangalore.	
3.	2021	Participated in NSS University	
		Level Trials at VTU.	2
4.		COMMUNITY SERVICE CAMP -	
	04/11/2022	Tribal village at H D KOTE.	20
5.		POSCO ACT 2012 and Gender	
		Equality in association with 'The	
	16-07-2022	Rakshin Project By Sakshi'.	30
6.		COMMUNITY SERVICE CAMP -	
	28/03/2022	Kanakuppeadi Tribal village	20
	ТО	HUNSUR.	
	29/03/2022		
7.		COMMUNITY SERVICE CAMP-	
	26/04/2022	Varthihalli Tribal village ,	21
		Priyapatna taluk	
8.	25 /10/2021	Amrutha Mahotsava-75 Clean India	20



Year	Name of the award/ medal	Team / Individual	Inter- university / state / National/ International	Name of the event	Name of the student
2022	Participated in N.S.S. 73rd Republic Day Parade camp on 26th January 2022 held at Rajpath New Delhi	Individual	National	Participated in N.S.S.Republic Day Parade camp on 26th January 2022 held at Rajpath New Delhi	Mr.Abhishek SM (1NH20AU001)
2021	Participated in South Zone Pre- Republic Day Parade Selection Camp-2021 held at University of Agricultural Sciences,GKVK, Bangalore, organized by Regional Director of NSS Bangalore	Individual	State level	Participated in South Zone Pre- Republic Day Parade Selection Camp-2021 held at University of Agricultural Sciences,GKVK, Bangalore, organized by Regional Director of NSS Bangalore	Mr.Abhishek S M (1NH20AU001)
2021	Participated in NSS University Level Trials at VTU	Team	University	NSS University Level Trials held at VTU	Mr.AbhishekS M (1NH20AU001) and Lakshminarasimha (1NH20ME059)

Table 9.7.5.3: Details of NSS Parade

Criterion - 10

Governance, Institutional Support and Financial Resources



CRITERION 10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	(120)
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10.1 Organisation, Governance and Transparency (55)

10.1.1. State the Vision and Mission of the Institute (5)

(Vision statement typically indicates aspirations and mission statement states the broad approach to achieve aspirations)

VISION OF THE INSTITUTE

• To emerge as an Institute of eminence in the fields of engineering, technology and management in serving the industry and the nation by empowering students with a high degree of technical, managerial and practical competence.

MISSION OF THE INSTITUTE

- To strengthen the theoretical, practical and ethical dimensions of the learning process by fostering a culture of research and innovative among faculty members and students.
- To encourage long-term interaction between the academia and industry through their involvement in the design of the curriculum and its hands-on implementation.
- To strengthen and mould students in professional, ethical, social and environment dimensions by encouraging participation in co-curricular and extracurricular activities.

10.1.2 Availability of the Institutional Strategic Plan and Its effective implementation and Monitoring (25)

Institutional strategic plan has been made by performing deep analysis of Strength, weakness, Opportunity and Threat of the institute. Several meetings and interactions with Management, Director, Dean Academic, Dean Research, Registrar, all HoDs, Faculties, Supporting staff, Students, Parents and Alumni were held for the same.

Following key points about institute were discussed to carry out the analysis

- Infrastructure/Laboratory/Equipment/Workshop
- Research/Consultancy



- Placement Cell
- Industry interaction
- Workshop/Training Programme for Faculty/Staff/Students
- Mentorship Programme for the students
- Active & Innovative Learning Process
- Outcome based Curriculum
- Admission policies/Fee Structure
- MoU with Reputed Institutes/Industries
- E-Learning/Library
- Skill Development Programme
- Unnat Bharat Abhiyan
- Sports/clubs/Activities/social Service
- Awards/Scholarships
- IT Infrastructure/ digital technology
- Security
- Woman grievance & redressal

After several brainstorming session by keeping above key points in mind, following strategy plans and its implementation & monitoring have been set up that transform New Horizon College of Engineering into globally recognized technical institute.

Sl No	Strategic Plan	Implementation	Monitoring
		•Set up of new Smart Class	Dean academic of the institute,
		Rooms	Deans, and HoDs visit the class
		•Adoption of Moodle	rooms, labs daily in order to make
		•Use Moocs/NPTEL for e -	healthy academic environment and
		learning	make sure successful
	To improve	•Arrange Expert Talks	implementation of outcome based
1	teaching	•Interaction with industry	education in the campus. In
1	learning	person	additions to the regular classes,
	environment	•Provide Career Guidance	expert talks on emerging areas also
		to students	arrange weekly in the institute.
		•Use service of Adjunct	Daily attendance, assignment,
		faculty	quizzes are uploaded on software
		•Successful implementation	and noticed by Dean-Academics
		of OBE	and HoDs
	Taimmaya	• To setup new labs on	Meeting of HODs, Dean
2	loboratoru/	emerging areas.	academic, Dean research arrange
	librory/	• To setup modern Lab for	once in each semester for setting
	norary	research	up new labs or purchasing of new

NATIONAL BOARD of ACCREDITATION

Criteria-10 Self Assessment Report (SAR)

		Rich library resources	equipment. In-charge library
		such as reputed journals/	regularly ask for new books/e-
		new books	journal from faculties & students
			and arrange them in the library.
			Every month Dean research
		Funds/Workshop/Training	arrange the meeting with Principal
	To enhance	have been arranged for the	of the institute and encourage the
3	research	faculty/students in order to	faculty to create the research
	culture	attract funded research	culture in the institute, arrange the
		project/consultancy	workshop/training/expert talk on
			emerging areas
		MoU with reputed	6 6
	To enhance	institute/company has been	MoU with reputed institute /
4	interaction	set up to joint research &	industry is decided in the meeting
	with reputed	exchange of human	of BOG/ACM
	institute	resources	
		Proper assistance is	
	To provide	provided by Mentors to the	Meeting between Mentors &
5	mentorship to	needy students in all areas	students takes place daily and
	students	such as study, financé.	resolve various problems of
		career, etc	students
			Principal of the institute arrange
	To start new		the meeting every month with
	programs in	For enhancement of	Dean Academic, Dean Research
6	emerging	research culture of the	and HODs and try to find the
	areas	institute	emerging areas for with new
			courses can be launched
			Coordinator of NBA arrange the
	To obtain		meeting once in a fortnight of
7	accreditation	NAAC and Applied for	Head of the departments to be
/	for various	NBA accreditation and	accredited with Principal, Dean-
	courses	prepared for that	Academics, and assess the status
			of preparation of accreditation
		Various steps have been	In-charge of various section such
		taken to provide world	as building section, hostel warden,
	To improve	class infrastructure in the	computer maintenance, security
8	quality of	institute such as digital	officer, electrical maintenance etc
	campus	technology used in every	continuously supervise the concern
		section/ high speed wi-fi/	section and keep the campus up-to-
		lush green campus/ smart	date for easy and better life



		class rooms/ central library/	
		computer centre/ hygenic	
		hostels/ playgrounds/	
		indoor stadium/ auditorium	
		/security/electrical	
		maintenance	
		Communication has been	Placement team continuously
	To improve	setup with various MNCs	interact with HR of various MNCs
9	students	both National and	for campus recruitment, arrange
	placement	International for campus	various career oriented programme
		drives at the institute	at Institute
10	To increase Sports activity/social services	National level sports and cultural & technical activities have been organized. Institute participates and organize various national and international level activities	Sports officer interact regularly with students and arrange facilities of sports, encourage the students for participation at national level competitions. Coordinators of each clubs meet weekly and decide activities to be performed at institute level.
11	Trained students under Skill Development Program	More students have been trained under various schemes of central and state government.	Coordinator interact regularly and assess the performance of trainee, and arrange better environment to improve themselves.
12	To improve the quality of rural areas under the "Unnat Bharat Abhiyan"	Institute is participating in full sprit under "Unnat Bharat Abhiyan" for the development and betterment of rural area	Coordinator of Unnat Bharat Abhiyan takes the meeting of concern faculty & students and make the plan weekly for the betterment of rural areas



10.1.3 Governing body, administrative setup, functions of various bodies, service rules, Procedure, recruitment and promotional policies (10)

List the governing, senate and all other academic and administrative bodies; their memberships, functions and responsibilities; frequency of the meetings and attendance therein, in a tabular form. A few sample minutes of the meetings and action-taken reports should be annexed.

The published rules including service rules, policies and procedures; year of publication shall be listed. Also state the extent of awareness among the employees/students.

- To ensure observance and compliance of instructions issued by AICTE, Government of Karnataka and affiliating University.
- To ensure that the building, land, furniture and facilities are not being used for any other purpose (such as holding political meetings, communal meetings), except for running AICTE approved courses in the institute.
- To submit reports and returns from time to time to AICTE, Government of Karnataka and affiliating University.
- Create peaceful and favourable atmosphere for study free from ragging.

Powers and Functions of Chairperson of Governing Council

- The Chairperson shall intimate the date of the Governing Council meeting to the Principal-cum-Member Secretary for arrangement of Governing Council meeting. In case the Principal-cum-Member Secretary fails or ignores to arrange Governing Council meeting, the Chairperson can call for Governing Council meeting.
- In the event of taking vote on any decision and if a tie occurs, then decision of Chairperson shall be final.
- The Chairperson shall ensure that the decisions taken in Governing Council meeting are implemented by Member Secretary.
- The Chairperson shall ensure that the Governing Council is functioning properly to meet the mission of the Institute.

Powers and Functions of Member Secretary of Governing Council

- Member Secretary of Governing Council of the Institute shall be the Principal, who executes the decisions taken in the Governing Council on behalf of the Governing Council.
- By the order of the Chairperson, Member Secretary shall arrange the Governing Council meeting. In case of unfavouring situations, he/she will intimate the cancellation of the meeting the Chairperson and other members of the Governing Council.



- He would take correspondence on behalf of the Governing Council meeting in relation with the decisions taken in it and get it confirmed by the Chairperson and members present. With confirmation, the proceedings would be forwarded to AICTE, Government of Karnataka and affiliating University.
- The Member Secretary would maintain the properties of the institution and remain incharge of it, the title deeds and papers related to the need of the institution.
- He will exercise powers and functions as maybe imposed and assigned by the Governing Council from time to time.
- The Member Secretary would issue appointment letters to the staffs selected by the Recruitment Committee after the approval from the sponsoring trust and the Governing Council of the institute.
- To ensure observance and compliance of instructions issued by AICTE, Government of Karnataka and affiliating University.
- To ensure that the building, land, furniture and facilities are not being used for any other purpose (such as holding political meetings, communal meetings), except for running AICTE approved courses in the institute.
- To submit reports and returns from time to time to AICTE, Government of Karnataka and affiliating University.
- Create peaceful and favourable atmosphere for study free from ragging.

Powers and Functions of Chairperson of Governing Council

- The Chairperson shall intimate the date of the Governing Council meeting to the Principal-cum-Member Secretary for arrangement of Governing Council meeting. In case the Principal-cum-Member Secretary fails or ignores to arrange Governing Council meeting, the Chairperson can call for Governing Council meeting.
- In the event of taking vote on any decision and if a tie occurs, then decision of Chairperson shall be final.
- The Chairperson shall ensure that the decisions taken in Governing Council meeting are implemented by Member Secretary.
- The Chairperson shall ensure that the Governing Council is functioning properly to meet the mission of the Institute.



Governing Council

The composition of Governing Council as follows;

Table 10.1.3.1 Governing Council

SI No.	Member	Address	Designation	Position
1	Dr. Mohan Manghnani	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Chairman, NHEI	Chairperson
2	Mr. H N Surya Prakash	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Registrar	Member
3	Dr. R Bodhisatvan	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Principal- NHC(M)	Member
4	Dr. R.J. Anandhi	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Dean-Academics	Member
5	Dr. Vijilius H Raj	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Controller of Examination	Member
6	Prof. Gurucharan Singh	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Executive Director – Training & Placements	Member
7	Dr Sanjeev Sharma	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Dean-QASDC	Member



8	Dr. K N. Subramanya	R V College of Engineering, R V Vidyanikethan Post, Mysuru Road Bengaluru – 560 059	Principal & Professor, R V College of Engineering, Bengaluru	Member
9	Dr. K Swaminathan	Dept. of Civil Engineering, National Institute of Technology Surathkal	Commission (UGC) Nominee	Member
10	AICTE Nominee	Director, AICTE, Palace Road, Bangalore- 560001	Council (AICTE) Nominee	Member
11	DTE Nominee	Directorate of Technical Education, Bangalore – 560001	State Government Nominee	Member
12	Sri. Sagar Nidavani	House 269, 4th cross, 14th Main, Gokula 1st stage, Mathikere, Bangalore- 560054	University (VTU) Nominee & Executive Council Member VTU	Member
13	Dr. Manjunatha	New Horizon College of Engineering, Marathalli, Outer Ring Road, Kadubisanahalli, Bangalore- 560 103	Principal	Ex Officio Member Secretary

Academic Council

Structure/Constitution	Functions/Responsibilities	Frequency of Meetings
Academic Council constituted with		
	•Recommend and approve faculty	
 Institution's distinguished 	boards, academic regulations,	
Principal as Council Chairman	curriculum-scheme and syllabi,	
	teaching & learning practices	
•Dean- Academic affairs as		
Member Secretary	•Frame regulations regarding	
	students admission into	
•All Heads of the Departments as	programmes and to conduct of	
Council Members	examinations	



•1-Professor, 1-Associate Professor	•Suggest and recommend	
or 1- Assistant Professor(as per	proposed teaching	Twice in a
seniority in institution) from each	methods/techniques(LCD	Year
department as representing council	projector, Smart Board, Online	
members(for a period of 2-years)	etc) and student performance	
	evaluation metrics to enhance	
	quality education	
•4(Min.)-External experts from	•Approve students for conferment	
engineering education or Industry as	of degrees, diplomas or	
council members nominated by	certificates by the University.	
Board of Governors(B.O.G)	•Recommend to the B.O.G for	
•1-External expert for each major	about 1. Institute new programmes	
engineering discipline nominated by	of study 2. Student scholarships,	
vice chancellor, VTU, Belgaum as	fellowships, medal, prizes with the	
council member	guideline of relevance	
•Institution's controller of	•Promote and verify research	
examination(COE) as council	activities of the institution	
member		

Table	10.1.3.2	Academic	Council
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SI No.	Category	Sl No.	Name
Ι	Principal of the College – Chairman	1	Dr. Manjunatha
II	All Heads of the Dept. –	1	Dr. Sanjeev Sharma
	Members	2	Dr. Sainath
		3	Dr. Anitha Rai
		4	Dr. Niranjan P S
		5	Dr. B Rajalakshmi
		6	Dr. Mohan H S
		7	Dr. Aravinda K
		8	Dr. Shridhar Kurse
		9	Dr. Uma Reddy N V
		10	Dr. S P Manikandan
		11	Dr. Revathi V



		12	Dr. Anusuya Devi V S
		13	Dr. Srinivasa G
		14	Dr. Asha V
		15	Dr. Sujitha S
		16	Dr. Sowmya Narayanan
		17	Dr.Jaysheelan
III	Controller of Examination	1	Dr. Vijilius H Raj
IV	Teachers of the College	1	Dr. Nagendra.J, Associate Professor
	representing different level of teaching staff	2	Dr. Srinath M K , Associate Professor
		3	Dr. Prashanth K S, Associate Professor
		4	Ms. Asha Rani Borah, Sr Assistant Professor
		5	Dr. Swathi B, Sr. Assistant Professor
		6	Dr. Vandana C P, Sr. Assistant Professor
		7	Mr. Surendra B V, Associate Professor
		8	Dr. A R Sainath, Professor
		9	Dr. B Meenakshi Sundaram, Professor
V	Experts from outside the	1	Mr. Sandeep Jain, Founder & CEO,
	college representing areas such		GeeksforGeeks
	as industry, R&D, Tech. Edn	2	Mr. Ananthamani, Vice President – PLM & Mech/Elec Capgemini Engineering
		3	Dr. K N Subramanya, Principal, R V College of Engineering
VI	Nominees of University (VTU)	1	Dr. Shadashive Gowda, Principal- Vidya Vardhaka College of Engineering, Mysuru
		2	Dr. Shivyogimath, Prof., Dept. of Civil Engineering, Basaveswara Engineering College, Bagalkot
VII	Dean Academics – Member Secretary	1	Dr. R. J.Anandhi

Meetings:



Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY(2022-23)	07-12-2022	24	
	27-08-2022	36	
	17-06-2022	30	
CAY m1(2021-22)	25-02-2022	30	
	15-02-2021	34	
CAY m2(2020-21)	05-11-2020	34	
	24-07-2020	29	
CAY m2(2020-21)	21-09-2019	21	3
	29-06-2019	24	

Statutory Committees

A number of committees are present in the college that are formed taking into the considerations of the students and faculties. There is diversification that ensures that the committees address any issues faced by the stake holders and also aims for the improvements under the purview of the respective committees. The various committees and their in-charges are as follows:

Fable 10.1.3.3 Stat	utory Committees
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Sl No	Committees	In-Charge	Designation
1.	Accreditation	Dr. Sanjeev Sharma	Dean -QASDC
	Committee		
2.	Admission	Ms. Aruna Machani	Executive Director -
	Committee		Admissions
3.	Alumni Committee	Dr. Anitha S. Rai	Director – Library &
			Alumin Relations
4.	Anti- Ragging	Mr. Tarun Batra	Chief Operating Officer
	Committee		
5.	College Internal	Dr. R.J. Anandhi	Dean Academics
	Complaints		
	Committee		
	(CICC)		
6.	Co- Curricular	Dr. Piruthviraj	Associate
	Committee		Professor, Electronics &
			Communication
			Engineering



7.	College Internal Grievance Redressal Committee	Ms. Manjula V.	Executive Director- Human Resources
8.	Community Development Center (Public Welfare Committee)	Ms. Aruna Machani	Executive Director – Admissions
9.	Counselling Committee	Dr. Sanjeev Sharma	Dean QASDC
10.	Cultural Committee	Dr. Anitha S. Rai	Director-Library & Alumni Relations
11.	Disciplinary Committee	Mr. Tarun Batra	Chief Operating Officer
12.	Energy Conversion Audit Committee	Dr. Sujitha S	Associate Professor & HoD - Electrical & Electronics Engineering
		Mr. Karthik	Chief Electrical Manager
13.	Equal Opportunities Cell	Dr. Anusuya Devi V S	Professor & Head Department of Chemistry
14.	Examination Committee	Dr. Vijilius Helena Raj	Controller of Examinations
15.	Finance Committee	Mrs. Malathi Madhusudan	Sr. Executive Director- Accounts & Finance
16.	Girls Hostel Development & Welfare Committee	Ms. Aruna Machani	Executive Director – Admissions
17.	Hostel (Boys) Development & Welfare Committee	Mr. H N Suryaprakash	Registrar
18.	Infrastructure Development	Dr. P S Niranjan	Professor & Head- Civil Engineering
	Committee	Mr. L N Rao	Director of Program Management- Construction
19.	In-Plant Training/ Industrial/ Career Guidance/ Placement Committee	Prof. Gurucharan Singh	Sr. Executive Director
20.	Instrumentation Cell	Dr. Aravinda K	Professor & Head
			Electronics & Communication Engineering
21.	Internal Quality Assessment &	Dr. Sanjeev Sharma	Dean QASDC



	Assurance Cell		
22.	Library Committee	Dr. Anitha S. Rai	Director-Library & Alumni Relations
23.	NCC Committee	Mr. Ravi Kumar. M	Sr. Assistant Professor- Mechanical Engineering
24.	News Letter Committee	Dr. K G Madhwaraj	Professor, Department of MCA
25.	NSS Committee	Dr. Anitha S. Rai	Director-Library & Alumni Relations
		Mr. Hanamantha Y	Sr. Assistant Professor, Mechanical Engineering
26.	Physical Education & Sports Committee	Hari Kumar K C	HOD-Physical Education and Sports
27.	Public Relations & Marketing Committee	Ms. Aruna Machani	Executive Director- Admissions
28.	Purchase Committee	Mrs. Malathi Madhusudan	Senior Executive Director – Accounts & Finance
29.	Recruitment Cell	Ms. Manjula V.	Executive Director- Human Resources
30.	Research & Development Committee	Dr. Sanjeev Sharma	Dean QASDC
31.	SC/ST Welfare Cell	Mr. H N Suryaprakash	Registrar
32.	Software / Hardware Training Committee	Dr. B. Rajalakshmi	Professor & Head
33.	Staff Welfare Committee	Ms. Manjula V.	Executive Director- Human Resources
34.	Student Mentoring Committee	Dr. Sanjeev Sharma	Dean QASDC
34.	Student Mentoring Committee	Dr. Piruthviraj	Associate Professor, Electronics & Communication Engineering
35.	Students Grievances Redressal Committee	Mr. H N Suryaprakash	Registrar
36.	Universal Human Values Committee	Dr. Anusuya Devi V S	Professor & Head
36.	Universal Human Values Committee	Dr. Anusuya Devi V S	Department of Chemistry
37.	Value Added Programs Committee	Dr. R.J. Anandhi	Dean-Academics
37.	Value Added Programs Committee	Dr. Niranjan P S	Professor & HoD- Civil Engineering



38.	Women	Dr. R.J. Anandhi	Dean-Academics
	Empowerment		
	Committee		

Accreditation Committee

As an upcoming engineering college in Bangalore as well as in Karnataka, the college which is already recognised by accreditation councils has formed this committee to look into the requirements for upcoming state and national level accreditations.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member
3	Dr.B. Rajalakshmi	HoD-CSE	Member
4	Dr.Sainath	HOD– MBA	Member
5	Dr. R.J.Anandhi	Dean-Academics	Member
6	Dr. Sanjeev Sharma	Dean QASDC	Member Secretary

Table 10.1.3.3.1 Accreditation Committee

Frequency of Meetings : Twice in a Year

Admission Committee:

This is an integral committee of the institute that deals with the admission of the students into the various undergraduate and postgraduate programs. Based on the students' qualifications and rankings in entrance exams, this committee provides admissions to the students to pursue their course of choice.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman

Table	10.1.3.3.2	Admission	Committee
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2	Mr. H N	Registrar	Member
	Suryaprakash		
3	Dr.B. Rajalakshmi	HoD-CSE	Member
4	Dr.Sainath	HOD–MBA	Member
5	Dr. R.J.Anandhi	Dean-Academics	Member
6	Dr. Sanjeev Sharma	Dean QASDC	Member
	_		Secretary

Frequency of Meetings : Once in a Year

Alumni Committee

Alumina of an educational institute contributes a lot to the growth of the organization. Besides being a major stakeholder of the institute, they give guidance and feedback to their juniors with respect to their career opportunities. This committee was constituted to keep constant rapport with the alumni.

Sl. No.	Name	Designation	Position
1	Mr. CHETHAN R ,	Software Engineer	President
	1NH13EC717		
2	Mr. ASAD SHARIFF,	Entrepreneur	Vice President
	1NH12ME732	_	
3	Mr. B ACHAL ,	Software Engineer	Secretary
	1NH15EC003		
4	Mr. D N PRADEEP	Software Engineer	Treasurer
	1NH15EE712	_	
5	Mr. KUWAR KESHAV	Software Engineer	Board Member
	1NH16CS053		
6	Mr. KUSHAGRA SHETTY	IT Sales	Board Member
	1NH15AU025		
7	Mr. HEMANTH KUMAR	Software Engineer	Board Member
	RP 1NH17MCA43		
8	Mr. ABHISHEK N	Software Developer	Board Member
	1NH14EC400	_	
9	Dr. MANJUNATHA	Principal-NHCE	Member
10	Mr. GURUCHARAN	Sr. Executive Director-	Member
	SINGH	HRD	
11	Mr. SURYAPRAKASH	Registrar	Member
12	Prof. MANJESH B C,	Sr. Asst. Professor &	Member
	1NH03ME023	Alumni Officer and	
		Alumni	
13	Dr. ANITHA S RAI	Director-Library &	Member `Secretary
		Alumni Relations	-

Table	10.1	.3.3.3	Alumni	Committee
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Frequency of Meetings : Twice in a Year



Anti-Ragging Committee

Ragging is a very common problem faced by students in the campus during and after college hours. The consequences of the students who faced ragging are very serious and shocking. Thus, this committee was constituted to control ragging and provide relief to students who come under this shadow. The committee has the powers to take stringent action on students involving in such activities. The Committee comprise of the following members.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Ms. Aruna Machani	Executive Director - Admissions	Member
3	Shri. H.N.Suryaprakash,	Registrar	Member
4	Dr. R.J. Anandhi,	Prof & Dean – Academics	Member
5	Dr. Sanjeev Sharma	Prof & Dean QASDC	Member
6	Dr. Revathi Shankar,	HOD – Applied Science - Physics	Member
7	Police Inspector	Marathalli	Member
8	Ms. Karthik	Parent	Member
9	Mr. Nanjundaiah	Retired BEO	Member
10	Ms. Shanthy P	Girls Hostel Warden	Member
11	Mr. Ramesh Babu	Boys Hostel Warden	Member
12	Mr. Basi Reddy Chandra Mouliswar Reddy	(1NH19CV021) – Student	Member
13	Ms. Shaik Anju Minayar	(1NH19IS143) – Student	Member
14	Mr. Tarun Batra,	Chief Operating Officer	Member Secretary

Table 10.1.3.3.4 Anti-Ragging Committee

Frequency of Meetings : Twice in a Year

College Internal Complaints Committee (CICC)


Complaints against sensitive issues like sexual harassment and the students facing such problems will not be in a mind-set to address these issues. Thus this committee was constituted to tackle such problems and help the students. Powers are vested in the hands of the committee to take stringent action on students involving in such activities. The committee is constituted as follows..

Sl.No.	Name	Designation	Role
1	Dr. Manjunatha	Principal NHCE	Chairman
2	Ms. Manjula V	Executive Director- Human Resources	Member
3	Ms. Aruna	Executive Director - Admissions	Member
4	Dr Revathi	HOD – Applied Science - Physics	Member
5	Ms. Sowmya H K	Ph.D Scholar	Member
6	Ms. Nihal Baba	PG Student	Member
7	Ms Ayesha Siddiqua A	Student Representative	Member
8	Dr. Ashok	General Surgery & Laparoscopic Surgeon	Member from NGO
9	Dr R J Anandhi	Dean – Academics	Member Secretary

Table 10.1.3.3.5 Anti-Sexual Harassment Committee

Frequency of Meetings : Twice in a Year

Co-curricular Committee

The committee of the college is constituted to look into the likes of the students, besides academics. Aimed at ensuring an overall development of the young ester, the committee promotes various activities by forming clubs involving students, helping them excel in competitions.

Sl.	Name	Designation	Position
No.			
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Rajalakshmi	HoD-CSE	Member
3	Dr. Niranjan	HoD- Civil	Member
4	Dr. Anitha S Rai	Director-Library & Alumni Relations	Member

 Table 10.1.3.3.6 Co-curricular Committee



5	Mr.Kushal Kulandaivelu	Student Member – 1NH20AI051	Member
6	Mr.Bharatdeep Hazarika	Student Member – 1NH19EC129	Member
7	Dr. Piruthiviraj P	Associate Professor – ECE Dept	Member Secretary

Frequency of Meetings : Twice in a Year

College Internal Grievance Redressal Committee (CIGRC)

Table 10.1.3.3.7 College Internal Grievance Redressal Committee

S.N	Name & Designation	Committee
0		Members
1	Dr. Manjunatha – Principal	Chairman
2	Shri. H. N. Suryaprakash – Registrar	Member
3	Dr. Anandhi R J – Professor & Dean Academics	Member
4	Dr. Sanjeev Sharma – Dean – QASDC	Member
5	Ms. V. Manjula – Executive Director- Human	Convener
	Resources	

Frequency of Meetings : Twice in a Year & As and when required.

Counselling Committee

An essential committee in the college addressing issues of students. This committeewas constituted to help distracted, diverted and students who lack concerntrationin studies to getback to studying. The committee includes the counselors who assist and guide the students to get back to the curriculum.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Ms Manasa T.J	Student Counselor	Member
3	Ms.Rajina.R	Student Counselor	Member
4	Ms.Prachi Bhavsar	Student Counselor	Member
5	Ms.Pallavi	Student Counselor	Member
6	Dr.Sanjeev Sharma	Dean-QASDC	Member Secretary

 Table 10.1.3.3.8 Counselling Committee

Frequency of Meetings : Twice in a Year & As and when required.

Cultural Committee

Department of Electrical and Electronics Engineering | NHCE



Based on the lines of the co-curricular committee, the cultural committee helps the students to distinguish themselves apart from their curriculum. Students are encouraged to take part in various cultural events in college and other colleges and showcase their talents.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Ms. Aruna M	Executive Director - Admissions	Member
3	Dr. Rajalakshmi	HoD- CSE	Member
4	Dr. Uma Reddy	HOD-AIML	Member
5	Mr. Shreyas L	1NH19AU053	Member
6	Ms. Charisma	1NH19EE023	Member
7	Dr. Anitha S Rai	Director-Library & Alumni Relations	Member- Secretary

 Table 10.1.3.3.9 Cultural Committee

Frequency of Meetings : Twice in a Year.

Disciplinary Committee

Indiscipline is a serious aspect of concern amongst students owing to peer pressure and other kinds of distractions around them. Their behavior changes and they react differently to various situations. This committee monitors the students and ensures that no indiscipline happens. Also, in the event of any indiscipline activities, action is taken by the committee.

SI.	Name	Designation	Position
No.			
1	Dr. Manjunatha	Principal	Chairman
2	Shri. H. N. Surya	Registrar	Member
	Prakash		
3	Dr. Anandhi R J	Dean Academics	Member
4	Dr. Sanjeev Sharma	Dean QASDC	Member
5	Dr. Revathi	HOD Applied Science –	Member
		Physics	
6	Mr. Tarun Batra	Chief Operation Officer	Member
			Secretary

 Table 10.1.3.3.10 Disciplinary Committee

Frequency of Meetings : Twice in a Year & As and when required.

Energy Conservation Audit Committee



This committee constituted by the Electrical department, is responsible of an ecofriendly campus. They are responsible for conservation of electricity in the college campus buildings and ensure that there is no wastage for power, thus saving it for the future.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. Karthik	Estate Manager	Member
3	Prof. Kavitha Chenna Reddy	Sr. Asst. Prof	Member
4	Dr. Joshua Daniel Raj	Sr. Asst.Prof	Member
5	Prof. Vinod Kumar S	Sr. Asst.Prof	Member
6	Prof. Sangeetha C N	Asst.Prof	Member
7	Dr. S Sujitha	HOD – EEE	Member Secretary

Frequency of Meetings : Twice in a Year

Equal Opportunity Cell

	Table 10.1.3.3.12 Equal Opportunity Cen			
SI No	Name	Designation	Post	
INO				
1	Dr Manjunatha	Principal	Chairman	
2	Gp.Capt.tarun	Chief Operating Officer	Member	
	Batra	1 0		
3	Ms Vijaya	Advocate	Member	
4	Mr.Girihas Reddy	Student	Member	
	_			
5	Mr.Hari Kumar	Parent	Member	
	Karnati			
6	Dr. Anusuya Devi	HoD & Professor – Applied Science -	Member –	
	VS	Chemistry	Secretary	

 Table 10.1.3.3.12 Equal Opportunity Cell

Frequency of Meetings : Twice in a Year



Examination Committee

The committee monitors the autonomous examinations conducted in the college. Starting from the notification of the exam till the declaration of the results, the committee manages all the activities in coordination with the heads of the departments ensuring smooth running of the entire process.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Vijilius Helena Raj	Professor & Controller of Examination	Member- Secretary
3	Mr. Aravinda	Professor & HOD-ECE	Member
4	Dr. Revathi V	HOD Applied Science – Physics	Member
5	Dr. Prashanth K.S	Asso.professor-PHY	Member

Table	10.1.3.3.13	Examination	Committee
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Note: All HoDs of various Departments are Ex-officio Members of Examination Committee

Frequency of Meetings : Every Quarter of the Academic year.

Finance Committee

The committee is responsible for all the monetary activities in the institution. Students' fee collection, funds for procurement of equipment, dispatching salaries and remuneration are under the purview of this committee.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Shri. H. N. Suryaprakash	Registrar	Member
3	Dr. Revathi Shankar	HOD Applied Science – Physics	Member
4	Ms. Geetha	Sr. Accounts Executive	Member
5	Mrs. Malathi Madhusudan	Sr.Ex. Director – A/c's & Finance	Member- Secretary

Table 10.1.3.3.14 Finance Committee

Frequency of Meetings : Twice in a Financial year

Hostel(Boys) Development & Welfare Committee



The committee looks into the requirement of the students(boys) staying on the campus, in the hostel. The committee monitor with regard to hostel food, accommodation, Maintenance, and discipline in the Hostel.

SI.	Name	Designation	Position
INO.			
1	Dr. Manjunatha	Principal	Chairman
2	Ms. Malathi	Sr. Exe. Director A/c's &	Member
	Madhusudan	Finance	
3	Mr. Ramesh Babu	Warden	Member
4	Mr. Pankajakshan	Warden	Member
5	Mr. Sambasiva Rao	Warden	Member
6	Shri. H. N.	Registrar	Member
	Suryaprakash		Secretary

Table 10.1.3.3.15 Hostel (Boys) Development & Welfare Committee

Frequency of Meetings : Twice in a year

Hostel(Girls) Development & Welfare Committee

The committee looks into the requirement of the students(girls) staying on the campus, in the hostel. The committee monitor with regard to hostel food, accommodation, Maintenance, and discipline in the Hostel.

Table 10.1.3.3.16 Hostel	(Girls) Development	& Welfare Committee
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SI.	Name	Designation	Position
No.			
1	Dr. Manjunatha	Principal	Chairman
2	Shri. H. N.	Registrar	Member
	Suryaprakash		
3	Ms. Malathi	Sr. Exe. Director A/c's &	Member
	Madhusudan	Finance	
4	Ms. Shanthy	Warden	Member
5	Ms. Yogita	Warden	Member
6	Ms. Aruna Machani	Executive Director -	Member
		Admissions	Secretary

Frequency of Meetings : Twice in a year

Infrastructure Development Committee



All hardware infrastructure requirements of the college are taken care by this committee. Furniture and furnishings, lights & fans, other essential infrastructure in the buildings and on the campus are provided by this committee.

SI. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. L.N. Rao	Project Manager	Member
3	Dr. Niranjan P S	Professor & HOD Department of Civil Engineering	Member
4	Ms. Sailee Joshi	Quantity Surveyor	Member – Secretary

Table 10.1.3.3.17 Infrastructure Development Committee

Frequency of Meetings : Twice in a year

In-Plant training/Industrial/Career Guidance/placement committee

This committee is very essential for the graduating undergraduate and postgraduate students, aspiring to get placed in companies as well as to start companies of their own. In plant Training and career guidance are given to the students in their pre-final year and prefinal semester respectively, preparing them for the forthcoming campus interviews.

Table 10.1.3.3.18 In-Plant Traing/Industrial/Career Guidance/Placement Committee

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Prof. Gurucharan Singh	Sr. Executive Director	Member- Secretary
3	Prof. Binod Kumar Singh	Head- IIIC & CR	Member
4	Prof. Anis Mirza	Head- Placements & CR	Member
5	Dr. Sowmya Narayanan	HOD –Lifeskills & Lifelong Learning	Member
6	Ms. Manisha Joshi	Senior HR Manager	Member
7	Mr. Santhosh Kumar BS	Senior HR Manager	Member
8	Ms. Rashmi S Gowda	HR Manager	Member



9	Mr. Santhosh Kumar K	HR Manager	Member
10	Ms. Hemalatha K	Senior Aptitude Trainer	Member
11	Ms. Vijaylakshmi M	Aptitude Trainer	Member
12	Mr. Franco Chris Antony J	Aptitude Trainer	Member
13	Ms. Bhakti Kulkarni	Verbal Trainer	Member
14	Dr. Sainath	MBA – Faculty Placement Coordinator	Member
15	Dr. Ashok	CSE- Faculty Placement Coordinator	Member
16	Dr. Bopanna	MECH- Faculty Placement Coordinator	Member
17	Sr. Asst. Prof. Latha	ISE- Faculty Placement Coordinator	Member
18	Dr. Ratheesh	CE- Faculty Placement Coordinato	Member
19	Sr. Asst. Prof. Rajashree	AI ML- Faculty Placement Coordinator	Member
20	Sr. Asst. Prof. Govindraju	MCA- Faculty Placement	Member
21	Asst. Prof. Sabita Bhattacharya	ECE- Faculty Placement Coordinator	Member
22	Sr. Asst. Prof. Sunil	EEE- Faculty Placement Coordinator	Member
23	Mr. Sunil Prashanth	Auto- Faculty Placement	Member
24	Asst. Prof. Chennabasava	Asst. Prof. Chennabasava	Member
25	Shiva Shankar L(1NH20EC408)	Student	Student Member
26	Nikhil V Gowda (1NH20EC096)	Student	Student Member
27	Nikhil V Gowda (1NH20EC096)	Student	Student Member
28	Sanjivani (1NH19CS158)	Student	Student Member

Frequency of Meetings : Twice in a year



Instrumentation Cell

This body constituted in the college plays a very important role with respect to the laboratory equipment's. Timely calibrations and preventive maintenance ensures that the machines (electrical) do not come for repairs or come in less numbers. Thus, this cell is responsible for keeping a check on the machines and certifying the same.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. Rakesh Chandrashekar	Prof.& HOD / Mechanical	Member
3	Dr.Sujitha S	Prof. HOD – EEE	Member
4	Dr.Revathi	Prof HOD Applied Science – Physics	Member
5	Dr.Arvinda K	Prof.& HOD-ECE	Member Secretary

Table	10.1.	3.3.19Ir	strument	Cell	Committee
1 4010	10.1.	0.0.1/11		-un	Committee

Frequency of Meetings : Once in a year

Internal Quality Assessment and Assurance Cell

The committee was constituted to ensure that all the standards with regard to curriculum are met. Any discrepancies with respect to internal valuation, methods of teaching-learning are addressed by this committee. The Principal is the Chairman of the committee and it is constituted as follows.

SI. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Prof. S.B. Kandagal	Professor, Department of Aerospace Engineering, IISC Bangalore	Expert Member
3	Prof.Chandramo uli P.	Professor, IIT Madras, Chennai	Expert Member
4	Prof. BalajiPrathasarat hy	Professor, International Institute of Information Technology – IIIT Bangalo	Expert Member
5	Mr.H.N. Surya Praksh	Registrar	Member
6	Dr.Anandhi R.J.	Dean -Academics	Member

7	Dr.Anitha S. Rai	Director – Library & Alumni Relation	Member
8	Dr.Revathi V.	HOD Applied Science – Physics	Member
9	Dr.B.Rajalakshm i	HoD – CSE	Member
10	Dr.Aravinda K.	HoD – ECE	Member
11	Dr.Sainath	HoD – MBA	Member
12	Dr.Sowmya Narayanan	HoD – Center for Life Skills and Lifelong Learning	Member
13	Dr.Niranjan P.S.	HoD – Civil Engineering	Member
14	Dr.Gurulakshmi A.B.	Associate Professor, ECE	Member
15	Dr.Sanjeev Sharma	Dean – QASDC	Member Secretary
16	Mr. SouravNaryan Biswas	Program Manager, Talent Acquisition, Capgemini India	Stakeholder & Employer
17	Mr.Sijio Mathew Varghese	Co – Founder, Overnight Ventures	Alumni
18	Mr.Bharathdeep	Department of ECE, NHCE	Student Nominee

Frequency of Meetings : Twice in a year

Library Committee

Books and other e-learning media are very essential for gaining knowledge as learning is a continuous process. Faculties and students require resources to attain knowledge of the day-to-day requirements. The Library Advisory committee headed by the Principalensures all these requirements are fulfilled through the member secretary and the inputs from the other members. Procuring books, technical journals, technical magazines, applying for access to e-journals, providing food reference books and adequate reading spaces are provided by this committee, which comprises the following members.

 Table 10.1.3.3.21 Library Committee

Sl.	Name	Designation	Position
No.			
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N Suryaprakash	Registrar	Member
3	Dr. Anandhi R J	Dean- Academics	Member
4	Dr. Rajalakshmi	HoD-CSE	Member
5	Dr. Anusuya V	HOD Applied Science –	Member
	-	Chemistry	



6	Dr. Asha V	HoD-MCA	Member
7	Dr. Siddamallaiah	Principal Librarian(Retd.),	Member
		NIMHANS	
8	Mr. Aditya Raj	1NH19CS005	Student
			Member
9	Ms. Ms. Amulya	1NH19ME013	Student
	Choudhary		Member
10	Dr. Anitha S Rai	Director – Library & Alumin	Member
		Relations	Secretary

Frequency of Meetings : Twice in a year

NCC Committee

The committee in the college is constituted to look into the students' interests inclined towards National Cadet Corps(NCC). NCC is the Indian military cadet corps, which is open to school and college students on voluntary basis. National Cadet corps is a Triservices organization, comprising the Army, Navy and Air Force, engaged in grooming the youth of the country into disciplined and patriotic citizens. The National Cadet Corps in India is a voluntary organization which recruits cadets from high schools, colleges and universities all over India. The committee in college has the same motto.

SI.	Name	Designation	Position
No.			
1	Dr. Manjunatha	Principal	Chairman
2	Shri. H N	Registrar	Member
	Suryaprakash		
3	Mr. Rakesh	HOD-Mechanical Engg	Member
	Chandrashekar		
4	Dr. P S Niranjan	HOD Civil Engineering	Member
5	Dr. B. Rajalakshmi	HOD Computer Science & Engg	Member
6	Dr. Mohan H S	HOD Information Science & Engg	Member
7	Dr. Revathi S	HOD Applied Science – Physics	Member
8	Dr. Sujitha	HOD Electrical and Electronics	Member
		Engineering	
9	Mr. Hari Kumar N	Physical Education Director	Member
10	Mr. RaviKumar	Sr.Asst Professor-Mechanical Dept &	Member
		NCC CTO	Secretary

 Table 10.1.3.3.22 NCC Committee

Frequency of Meetings : Twice in a year

NSS Committee

The National Service Scheme is an Indian government-sponsored public service program conducted by the Department of Youth Affairs and Sports of the Government of India. Popularly known as NSS, the scheme was launched in 1969. Aimed at developing student's personality through community service, NSS is a voluntary association of young people in Colleges, Universities and at +2 level working for a campus-community linkage. The committee in college aims at moulding interested students on the same lines.

SI.	Name	Designation	Position
INO.			
1	Dr. Manjunatha	Principal	Chairman
2	Mr. H N	Registrar	Member
	Suryaprakash	6	
3	Dr. Anitha S Rai	Director – Library & Alumni	Member
		Relations	
4	Dr.Aravinda K	HOD – Department of ECE	Member
5	Dr.N.V.Uma Reddy	HOD – Department of AI & ML	Member
6	Dr.Mohan H S	HOD – Department of ISE	Member
7	Mr.Hanamant	Sr.Asst.Professor, Department of	Member
	Yaragudri	ME	convenor

Table 10.1.3.3.23 NSS Committee

Frequency of Meetings : Twice in a year

News Letter Committee

Events and other happenings on the campus and off the campus with regard to the students and college is brought out in the college newsletter. The committee constituted helps to achieve this. Besides getting articles and covering the relevant issues; compiling, editing, printing and publishing of the newsletter is taken care by this committee.

Sl.	Name	Designation	Position
No.			
1	Dr. Manjunatha	Principal	Chairman
2	Mr. Geluvaraj B	Assistant Professor, CSE Dept	Member
3	Dr. Priyameet Kaur Keer	Associate Professor, MBA Dept	Member
4	Mr. T. A. Sudharshan	Senior Assistant Professor, MECH Dept	Member

Table 10.1.3.3.24 News Letter Committee



5	Dr. K.G. Madhwaraj	Professor, MCA Dept	Member
			Secretary

Frequency of Meetings : Twice in a year

Physical Education and Sports Committee

Parallel to studies, in order to give motivation and an opportunity to excel in sports to interested stdents, this committee looks into the needs of budding sports persons. The college campus has facilities and equipment for a number of sports, for which there is good participation & boys and girls, pursuing undergraduates and postgraduates programs. Students participate in the sports, helping them to perform well in college event at state and national levels.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Shri. H.N.Suryaprakash	Registrar	Member
3	Dr. Uma Reddy N V	HoD-AIML	Member
4	Mr. Rakesh Chandrashekar	HoD – ME	Member
5	Dr. Niranjan P S	HoD-CIV	Member
6	Dr. Rajalakshmi	HoD-CSE	Member
7	Dr. S P Manikandan	HoD-CE	Member
8	Dr. Aravinda K.	HoD-ECE	Member
9	Dr. Sujitha	HoD-EEE	Member
10	Dr. Mohan Kumar	HoD-ISE	Member
11	Dr. Revathi Sankar	HOD Applied Science – Physics	Member
12	Dr. V.S. Anusuya Devi	HOD Applied Science – Chemistry	Member
13	Mr. Hari Kumar K C	HOD-Physical Education and Sports	Member

Table 10.1.3.3.25 Physical Education and Sports Committee

Frequency of Meetings : Twice in a year

Public Relation Committee

Department of Electrical and Electronics Engineering | NHCE

An essential committee in the running of the organization, this committee is a preface for the admission committee. This committee is required to have a constant rapport with the public and must ensure that people know about the institution so as to help students who want to pursue undergraduate and post graduate programs to get admission to the college.

SI.	Name	Designation	Position
INU.			
1	Dr. Manjunatha	Principal	Chairman
2	Shri. H. N.	Registrar	Member
	Suryaprakash		
3	Dr. R.J. Anandhi,	Prof & Dean Academics	Member
4	Dr. Rajalakshmi	HoD-CSE	Member
5	Dr. Anitha S Rai	Director – Library & Alumin	Member
		Relations	
6	Ms. Aruna Machani	Executive Director - Admissions	Member
			Secretary

Table 10.1.3.3.26 Public Relation Committee

Frequency of Meetings : Twice in a year

Purchase Committee

This committee of the college is constituted to meet all the hardware requirements for the smooth running of the institute. Requisions given by all the departments for its running are provided by this committee.

Sl.	Name	Designation	Position
INO.			
1	Dr. Manjunatha	Principal	Chairman
2	Shri.H. N. Suryaprakash	Registrar	Member
	J 1	5	
3	Mr. Umesh	Purchase Officer	Member
4	Mr. Tarun Batra	Chief Operating Officer	Member
		1 2	
5	Ms. Malathi	Sr. Ex. Dr. Accounts &	Member
	Madhusudan	Finance	Secretary

 Table 10.1.3.3.27 Purchase Committee

Frequency of Meetings : Twice in a year

Recruitment committee



This committee of the college is responsible for the recruitment of staff for the college, which includes the non-teaching faculty also. The preliminary interview takes place at the department level under the HoD. The final round and selection comes under the purview of this committee.

SI.	Name	Designation	Position
No.			
1	Dr. Mohan Manghnani	Chairman-NHEI	Chairman
2	Dr. Manjunatha	Principal	Member
3	Dr. Anandhi R J	Dean-Academics	Member
4	Ms. V. Manjula	Executive Director- Human Resources	Member Secretary
5	Dr. Gowrishankar	VTU Nominee	Two Subject Externals
6	Respective Department HoD		
7	Two Subject Externals		

Frequency of Meetings : Twice in a year

Research and Development Committee

Research and development plays a major role in the development of any organization, which also includes educational institutions. The research committee headed by the Principal was constituted for the same reason. The committee encourages faculties and students to publish technical paers and articles, write textbooks, apply for support for project work, get grants for research, apply for patents, etc.,. The committee co-ordinator oversees all the activities. The members of this committee are as follows.

SI.	Name	Designation	Position
No.			
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Priyabrata Adhikary	Professor and Associate Head(R&D)	Member
3	Dr. Agalya V	Professor and Associate Head(R&D)	Member
4	Dr. Hemantha Raju	Assoc. Professor- ME	Member
5	Dr. Nagendra Prabhu	Assoc. Professor – CSE	Member
6	Dr. Jagadeesh.C.B.	Professor – CV	Member

 Table 10.1.3.3.29 Research & Development Committee



7	Dr. Sujitha.S.	Assoc. Professor – EEE	Member
8	Dr. Sivarama Krsihnan	Assoc. Professor – ISE	Member
9	Dr. Gurulakashmi	Assoc. Professor – ECE	Member
10	Dr. Sujin Jose	Assoc. Professor – AUT	Member
11	Dr. Priyameet Kaur		Member
12	Dr. Madhwaraj.K.G.	Professor – MCA	Member
13	Dr. Madhumohana Raju. A B (Mathematics)	Assoc. Professor– Maths	Member
14	Dr. M S Raghu (Chemistry)	Assoc. Professor –Chemistry	Member
15	Dr. Rama Chandra Naik (Physics)	Assoc. Professor – Physics	Member
16	Dr. Sanjeev Sharma	Dean-QASDC	Member Secretary

Frequency of Meetings : Every Quarter of the Year

SC/ST Welfare Cell

This committee in the college is set up to look into the welfare of the SC/ST students admitted for the various courses. Besides this, the committee allocates monetary assistance to the students in the form of scholarship so as to help them pursue their education.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Mr. Ravikumar	Professor – ME	Member
3	Mr. Manjunatha Swamy	Professor – CSE	Member
4	Dr. G Rajesh	Professor – ECE	Member
5	Ms. Kalaivani	Professor – ISE	Member
6	Shri. H.N.Suryaprakash	Registrar	Member Secretary

Table 10.1.3.3.30 SC/ST	Welfare Committee
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Frequency of Meetings : Twice in a year

Software/Hardware Training Committee



This committee is responsible for given training to the staff (technical) who have been newly recruited on using the laboratory equipment in the respective departments. Besides, training is also given to them on operating any newly procured machines, so as to facilitate the smooth running of the laboratory sessions.

Sl. No.	Name	Designation	Position
1	Dr. Manjunatha	Principal	Chairman
2	Dr. R.J. Anandhi	Dean – Academics	Member
3	Dr. Sanjeev Sharma	Dean-QASDC and Professor- ECE	Member
4	Dr. Asha. V	Dr. Asha. V	Member
5	Dr. B. Rajalakshmi	HOD-CSE	Member Secretary

Table 10.1.3.3.31 Software/Hardware Training Committee

Frequency of Meetings : Twice in a year

Staff Welfare Committee

This committee constituted on the similar lines of the Staff Grievances Redressal Committeelooks into providing welfare schemes to all the staff of the college. The committee addresses the requirements of the staff and takes necessary steps of action.

Sl. No.	Name	Designation	Position		
1	Dr. Mohan Manghnani	Chairman	Chairman		
2	Dr. Manjunatha	Principal	Member		
3	Ms. Malathi Madhusudan	Sr. Executive Director – Accounts & Finance	Member		
4	Shri. H. N. Suryaprakash	Registrar	Member		
5	Ms. V. Manjula	Executive Director- Human Resources	Member Secretary		

Table 10.1.3.3.32 Stall Wellare Committee	Table 1	0.1.3.3.3	2 Staff V	Welfare	Committee
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Frequency of Meetings : Twice in a year



Student Mentoring Committee

Student Grievances Redressal Committee

Adolescence students who come from various backgrounds to study face a lot of problems. Besides a number of distractions are available to take them off their path of leraning. Thus to address the numerous problems of the diverse students from varied backgrounds, the students grievance redressal cell was formed to resolve the issues of the students. The committee is as follows.

Sl.	Name	Designation	Position
No.			
1	Dr. Manjunatha	Principal	Chairman
2	Ms. Malathi	Sr.Ex. Director-A/c's	Member
	Madhusudan	& Finance	
3	Ms. Aruna	Executive Director -	Director of Admission, Branding
	Machani	Admissions	& Marketing
4	Shri. H. N.	Registrar	Member
	Suryaprakash		
5	Mr. Tarun Batra	Chief Operating	Member Secretary
		Officer	

Table 10.1.3.3.34 Student Grievances Redressal Committee

Frequency of Meetings : Twice in a year & As and when required.

Universal Human Values committee

The objective of this committee is to build a strong connection between faculty and students to create holistic awareness about Universal Human Values and create holistic awareness about Universal Human Values. It will help students in the right development of their world-view, mindset, perspective and values.

Fable 10.1.3.3.35	Universal Human	Values Committee
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SI.	Name	Designation	Position
No.			
1	Dr Manjunatha	Principal	Chairman
2	Dr. Sowmya	HoD- Life skills & Lifelong	Member
	Narayanan	learning	
3	Mr.Aravinda. K	HoD- ECE	Member



4	Dr. Anitha S. Rai	Director – Library & Alumin Relations	Member
5	Ms Vijaya	Advocate	Member
6	Dr. Anusuya Devi V S	HoD & Professor– Chemistry	Member Secretary

Frequency of Meetings : Twice in a year.

Value Added Programs Committee

The college has a number of streams of study-Global, Professional & executive. The streams are distinct and provide exclusive training to help in the overall development of the students. Organizing industrial trips at International and National levels, providing industry enriched training are some of the responsibilities of this committee.

Sl.	Name	Designation	Position
No.			
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Jayasheel	HoD – AU	Member
4	Dr. Niranjan	HoD – Civil	Member
5	Dr. Rajalakshmi	HoD – CSE	Member
6	Dr. Aravinda K	HoD – ECE	Member
7	Dr. Sujitha S	HoD – EEE	Member
8	Dr. Mohan K	HoD – ISE	Member
9	Dr. Sheelan Mishra	HoD – MBA	Member
10	Dr. Asha V	HoD – MCA	Member
11	Dr. Revathi V	HoD – BSH (Physics Cycle)	Member
12	Dr. V S Anusuya	HoD – BSH(Chemistry Cycle)	Member
12			
13	Ms. Malathi	Senior Executive Director – Accounts	Member
	Madhusudhan	& Finance	Secretary
14	Dr. R J Anandhi	Dean-Academics	Member
			Secretary

 Table 10.1.3.3.36 Universal Human Values Committee

Frequency of Meetings : Twice in a year.



Women Empowerment Committee

This committee of the college addresses issues regarding to the empowerment of the women staff on the campus. The committees role is in ensuring that the powers are also vested in the hands of the women.

Sl.	Name	Designation	Position
No.		C C	
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Anitha S Rai	Director-Library and Alumni Relations	Member
3	Dr. Sainath	HOD-MBA	Member
4	Dr. V. S. Anusuya	HOD Applied Science – Chemistry	Member
5	Dr. D Kaliavani	Associate Professor	Member
6	Ms. Lipsa Dash	Sr. Assistant Professor	Member
7	Ms . Rajina	Student Counselor	Member
8	Ms. Shanthi	Girls Hostel Warden	Member
9	Ms. Chayanika	Student Representative	Member
10	Dr. R.J. Anandhi	Dean-Academics	Member- Secretary

Table 10.1.3.3.37 Universal Human Values Committee

Frequency of Meetings : Twice in a year.

10.1.4. Decentralization in working and grievance redressal mechanism (5)

List the names of the faculty members who have been delegated powers for taking administrative decisions. Mention details in respect of decentralization in working. Specify the mechanism and composition of grievance redressal cell including Anti Ragging Committee & Sexual Harassment Committee.

Table	10.1	.4.1:	Dele	gation	of	Powers
-------	------	-------	------	--------	----	--------

Sl	Department	Delegation Of	Common	Exclusive	
No		Power To	Responsibility	Responsibility	
1	Mechanical Engineering	HoD & Professor	Administrative work	Sports Activities	
2	Civil Engineering	HoD & Professor	Administrative work	Global Trips, GPE Program	
3	Electronics &	HoD &	Administrative	Professional body	
	Communication	Professor	work	Activities(IEEE)	



4	Computer Science & Engineering	HoD & Professor	Administrative work	IT infrastructure
5	Electrical & Electronics Engineering	HoD & Professor	Administrative work	Energy Management
6	Information Science & Engineering	HoD & Professor	Administrative work	Professional body activities(CSI) Anti Sexual harassment committee(ICCC)
7	Automobile Engineering	HoD & Professor	Administrative work	Ek Bharath Shresta Bharath
8	Applied Science & Humanities	HoD & Professor	Administrative work	
9	Library and Information Centre	Director	Administrative work in the Library	Student Extra curricular Club activities Cultural Coordinator Students Feedback Alumni

Composition of Grievance Redressal Cell, Anti Ragging Committee & Anti- Sexual Harassment Committee has been mentioned in 10.1.3

10.1.5 Delegation of financial powers (5)

Institution should explicitly mention financial powers delegated to the Principal, Heads of Departments and relevant in-charges. Demonstrate the utilization of financial powers for each year of the assessment years.

Budgets for running the department are very essential. These are prepared by every department before the commencement of the academic year. In this regard, Heads of the Departments, with senior faculties give the requisition to the Principal with regard to stationery, lab requirements, etc, for which budget allocations are approved by the Principal in discussion with the Management.

On the same lines, proposals are sent to the Principal for procuring new equipment for the labs, interactive technologies in the classrooms, conduction of workshops/ conferences/ seminars by the Heads of Departments for which fund allocations are made.



Sl No	Designation	Financial Power(Rs.)
1	Principal	50,000/-
2	Registrar	10,000/-
3	HoDs of Engineering Departments	10,000/-
4	HoDs of Basic Sciences	10,000/-
5	HoDs of PG Programs	10,000
6	Head-Library and Information Centre	10,000
7	Dean- R & D	50,000
8	Executive Director- Accounts & Finance	5,00,000

Table 10.1.5.1: Financial Powers

- The Finance Committee has the power to approve bills worth Rs. 10,00,000/-(Rupees Ten Lakh only)
- Further, bills worth more than Rs. 10,00,000/- (Rupees Ten Lakhs) will be approved by the NEW HORIZON EDUCATIONAL & CULTURAL TRUST (NHCET)

10.1.6. Transparency and availability of correct/unambiguous information in public Domain (5)

(Information on policies, rules, processes and dissemination of this information to Stakeholders is to be made available on the web site)

HR Policies: <u>http://newhorizonindia.edu/nhengineering/wp-</u> content/uploads/2020/07/HR-POLICIES-2019-NHCE-10-Copy.pdf

Students: http://newhorizonindia.edu/nhengineering/academic-guidelines/

Antiragging rules: http://newhorizonindia.edu/nhengineering/ragging-free-campus-2/ (http://newhorizonindia.edu/nhengineering/wpcontent/ uploads/2020/07/HR-POLICIES-2019-NHCE-10-Copy.pdf) (http://newhorizonindia.edu/nhengineering/academicguidelines/)

Department BOS/BOE Procedures:

- https://newhorizoncollegeofengineering.in/information-science-engineering/wp-content/uploads/2021/06/BOS-MOM-11.05.2019.pdf
- https://newhorizoncollegeofengineering.in/information-science-engineering/wp-content/uploads/2021/03/5th-BOS-Meeting.pdf



- https://newhorizoncollegeofengineering.in/information-science-engineering/wp-content/uploads/2021/09/BOS-Meeting_ISE-2.pdf
- https://information-science-engineering.newhorizoncollegeofengineering.in/wp-content/uploads/2023/02/7th-BOS-Meeting_merged.pdf
- https://information-science-engineering.newhorizoncollegeofengineering.in/wp-content/uploads/2022/12/Updated-BOS-MOM-28.11.2022.pdf

10.2. Budget Allocation, Utilization, and Public Accounting at Institute Level (15)

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years.

Total Income at Institute level: For CFY, CFYm1, CFYm2, & CFYm3

CFY: Current Financial Year, CFYm1 (Current Financial Year minus 1), CFYm2 (Current Financial Year minus 2) and CFYm3 (Current Financial Year minus 3)

Total Income 1102000000				Actual e	xpenditure(539500000	(till):	Total No. Of Students 5552
Fee	Govt.	Grant (S)	Other Sources (Placement Training, Bus Fees, etc.,)	Recurring Including Salaries	Non- recurring	Special Projects (Land, Building, WIP)	Expenditure per student
950000000	0	2000000	150000000	57000000	42000000	27500000	115183.72

 Table 10.2a:Institute Income and Expenditure for CFY 2022-2023

Table 10.2a1:Institute Income and Expenditure for CFYm1 2021-22

Total Income 1091904383			Actual expenditure(till): 621868093			Total No. Of Students 5575	
Fee	Govt.	Grant (S)	Other Sources (Placement Training,	Recurring Including Salaries	Non- recurring	Special Projects (Land, Building, WIP)	Expenditure per student



			Bus Fees,				
			etc.,)				
948528728	0	2678555	140697100	554032082	41222000	26614011	111545.85

Table 10.2a2: Institute Income and Expenditure for CFYm2 2019-20

Total Incom	ne: 11	23895595		Actual Expe	Total No. of Students: 5654		
Fee	Govt.	Grant (S)	Other Sources (Placement Training, Bus Fees, etc.,)	Recurring Including Salaries	Non- recurring	Special Projects (Land, Building, WIP)	Expenditure per student
874854134	0	4345598	244695863	564611227	12942579	61742619	113069.76

Table 10.2a3:Institute Income and Expenditure for CFYm3 2018-19

Total Incom	e 861810)316		Actual expe	: 587518237	Total No. Of Students 5301	
Fee	Govt.	Grants	Other sources(s pecify) (Placeme nt Tra	Recurring including salaries	Non Recurring	Special Projects/An yother, specify (Land, Building	Expenditur e per student
700108874	0	5741147	155960295	540542224	18570033	28405980	110831.59



Items	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till	Budgeted in 2020-2021	Actual Expenses in 2020-2021 till	Budgeted in 2019-2020	Actual Expenses in 2019-2020 till
Infrastructure Built-up	3700000	3600000	3500000	3542186	1000000	7122322	4000000	3266887
Library	6200000	6000000	6000000	5715715	2700000	2531367	4000000	3816878
Laboratory Equipment	3500000	3350000	3000000	3262996	4000000	3706977	1500000	1465099
Laboratory Consumables	6000000	5500000	5000000	4840960	3000000	2937829	6000000	6420770
Teaching & Non Teaching Staff Salary	4500000	4000000	4000000	3836839	3500000	3354161	3800000	3780872
Maintenance and Spares	3000000	3600000	3600000	3538390	3500000	2547021	3750000	3836299
Research & Development	5000000	5000000	4000000	4282178	7000000	6937699	1000000	9780824
Training & Travel	2000000	2500000	2500000	2316216	3000000	2788771	3250000	3196585
Others (Global & Professional Training)	8500000	8500000	8000000	8007769	1000000	1535648	5000000	5011372
Misc	1700000	1750000	1650000	1666966	1000000	9620388	2150000	2165003
Total	691200000	649500000	637500000	621868095	641700000	639296425	596500000	587518237

Table 10.2b: Institute Budget and Expenditure for assessment years 2022-2023,2021-22, 2020-21,2019-20

10.2.1. Adequacy of budget allocation (5)

(The institution needs to justify that the budget allocated during assessment years was adequate)

Table 10.2.1: Institute planned budget and expenditure	

SI	Assessment	Budget Allocated	Actual	Adequate/ Non
No.	Year	in Rs.	Expenditure in Rs.	Adequate
1	CFY	691200000	649500000	Adequate
2	CFYm1	637500000	621868095	Adequate
3	CFYm2	641700000	639296425	Adequate
4	CFYm3	596500000	587518237	Adequate



Table 10.2.2.: Utilisation of allocated funds (5)

(The institution needs to state how the budget was utilised during assessment years)

Sl	Assessment	Budget Allocated	Actual Expenditure	Percentage of
No.	Year	in Rs.	in Rs.	Utilisation
1	CFY	691200000	649500000	93.97
2	CFYm1	637500000	621868095	97.55
3	CFYm2	641700000	639296425	99.63
4	CFYm3	596500000	587518237	98.49

Table 10.2.2.: Utilisation of funds

10.2.3.: Availability of the audited statements on the institute's website (5)

The audited statements is available on the institution website and the link is as follows:

- https://newhorizoncollegeofengineering.in/wpcontent/uploads/2023/05/Financial-Statements-2021-22.pdf (https://newhorizoncollegeofengineering.in/wp-content/uploads/2023/05 /Financial-Statements-2021-22.pdf)
- https://newhorizoncollegeofengineering.in/wpcontent/uploads/2023/05/Financial-Statements-2020-21.pdf (https://newhorizoncollegeofengineering.in/wp-content/uploads/2023/05 /Financial-Statements-2020-21.pdf)
- https://newhorizoncollegeofengineering.in/wpcontent/uploads/2022/05/Financial-Statements-2019-20.pdf (https://newhorizoncollegeofengineering.in/wp-content/uploads/2022/05 /Financial-Statements-2019-20.pdf)

10.3: Program Specific Budget Allocation, Utilisation (30)

Total Budget at program level: for CFY, CFYm1, CFYm2 & CFYm3

CFY: Current Financial Year, CFYm1 (Current Financial Year minus 1), CFYm2 (Current Financial Year minus 2) and CFYm3 (Current Financial Year minus 3).

Table 10.3a.1: Income and Expenditure for CFY 2022-2023 -EEE

Total Budget 48384000	,	Actual expenditure († 45465000	till):	Total No. Of Students 448	
Non	Recurring	Non Recurring Recurring		Expenditure per student	
Recurring					
5040000	43344000	4865000	40600000	101484.38	



Table 10.3a.2: Income and Expenditure for CFY 2022-2023 -ISE

Total Budget 1	03680000	Actual expenditure 97425000	(till):	Total No. Of Students 878
Non	Recurring	Non Recurring	Recurring	Expenditure per student
Recurring	_	_	_	
10800000	92880000	10425000 8700000		110962.41

Table 10.3. b.1: Income and Expenditure for CFYm1 2021-22 -EEE

Total Budget 51000000		Actual expenditure (49749448	till):	Total No. Of Students 466	
Non	Recurring	Non Recurring Recurring		Expenditure per student	
Recurring					
5200000	45800000	5444146 44305302		106758.47	

Table 10.3.b.2: Income and Expenditure for CFYm1 2021-22 -ISE

Total Budget 9	1800000	Actual expenditure 89549006	(till):	Total No. Of Students 804
Non	Recurring	Non Recurring Recurring		Expenditure per student
Recurring				
82440000	9360000	79749543 9799463		111379.36

Table 10.3.c.1 : Income and Expenditure for CFYm2 2019-20 -EEE

Total Budget 51336000		Actual expenditure (51143714	till):	Total No. Of Students 487	
Non	Recurring	Non Recurring Recurring		Expenditure per student	
Recurring					
8320000	43016000	5994416 45149298		105017.89	

Table 10.3.c.2 : Income and Expenditure for CFYm2 2019-20 -ISE

Total Budget 8	3421000	Actual expenditure 83590443	(till):	Total No. Of Students 741
Non	Recurring	Non Recurring	Recurring	Expenditure per student
Recurring	_		_	
69901000	13520000	73849517	9740926	112807.62



Table 10.3.d.1: Income and Expenditure for CFYm3 2018-19 -EEE

Total Budget	t	Actual expenditure (till):	Total No. Of Students 495		
53685000		528/6642				
Non	Recurring	Non Recurring Recurring		Expenditure per student		
Recurring						
4950000	48735000	4258789 48617853		106821.5		

Table 10.3.d.2: Income and Expenditure for CFYm3 2018-19 -ISE

Total Budget 6	8597500	Actual expenditure 67564597	(till):	Total No. Of Students 613
Non	Recurring	Non Recurring Recurring		Expenditure per student
Recurring				
62272500	6325000	62122812 5441785		110219.57

Table 10.3.e.1 b: EEE- Budget and Expenditure for assessment years 2022-
2023,2021-22, 2020-21,2019-20

Items	Budgeted	Actual	Budgeted	Actual	Budgeted	Actual	Budgeted	Actual
	in	Expenses	in	Expenses	in	Expenses	in	Expenses
	2022-	in	2021-	in	2020-	in	2019-	in
	2023	2022-	2022	2021-	2021	2020-	2020	2019-
		2023 till		2022 till		2021 till		2020 till
Laboratory equipment	2590000	2520000	2400000	2610397	320000	296558	1350000	1318590
Software	84000	77000	80000	77455	48000	47005	108000	115574
Laboratory consumable	336000	308000	320000	309821	192000	188021	432000	462295
Maintenance and spares	2100000	2520000	2880000	2830712	2800000	2037617	3375000	3452669
R & D	350000	350000	320000	342574	560000	555016	900000	880274
Training and Travel	1400000	1750000	2000000	1852973	2400000	2231017	2925000	2876927
Miscellaneous Expenses*	5950000	5950000	6400000	6406216	8000000	1228518	4500000	4510235
Total	12810000	13475000	14400000	14430148	14320000	17640421	13590000	13616564



Items	Budgeted in 2022- 2023	Actual Expenses in 2022- 2023 till	Budgeted in 2021- 2022	Actual Expenses in 2021- 2022 till	Budgeted in 2020- 2021	Actual Expenses in 2020- 2021 till	Budgeted in 2019- 2020	Actual Expenses in 2019- 2020 till
Laboratory equipment	5250000	5025000	4320000	4698714	520000	4819070	1725000	1684864
Software	810000	742500	648000	6273884	351000	3437259	621000	6645496
Laboratory consumable	90000	82500	72000	6970982	39000	3819177	69000	7383885
Maintenance and spares	4500000	5400000	5184000	5095282	4550000	3311127	4312500	4411744
R & D	750000	750000	576000	6166336	910000	9019008	1150000	1124794
Training and Travel	3000000	3750000	3600000	3335351	3900000	3625403	3737500	3676073
Miscellaneous Expenses*	1275000	1275000	1152000	1153118	1300000	1996342	5750000	5763078
Total	15675000	28500000	15552000	33693667	11570000	30027386	17365000	30689934

Table 10.3.e.1 b: ISE- Budget and Expenditure for assessment years 2022-2023,2021-22, 2020-21,2019-20

10.3.1.: Adequacy of Budget allocation (10)

(Program needs to justify that the budget allocated over the assessment years was adequate for the program)

Sl No	Assessment Year	Budget Allocated	Actual Expenditure	Adequate/ Non
		in Rs.	in Rs.	Adequate
1	CFY	48384000	45465000	Adequate
2	CFYm1	51000000	49749448	Adequate
3	CFYm2	51336000	51143714	Adequate
4	CFYm3	53685000	52876641	Adequate

Table 10.3.1.a: Program budget and expenditure -EEE

Table 10.3.1.a: Program budget and expenditure -ISE

Sl No	Assessment Year	Budget Allocated in Rs.	Actual Expenditure in Rs.	Adequate/ Non Adequate
1	CFY	109209600	102621000	Adequate
2	CFYm1	91800000	89549006	Adequate
3	CFYm2	83421000	83108535	Adequate
4	CFYm3	68597500	67564597	Adequate



10.3.2.: Utilisation of allocated funds (20)

(Program needs to state how the budget was utilised during the last three assessment years)

10.3.2.a: Utilisation of allocated funds – EEE

Sl No	Assessment Year	Budget Allocated	Actual Expenditure	Percentage of
		in Rs.	in Rs.	Utilisation
1	CFY	48384000	45465000	93.97
2	CFYm1	51000000	49749448	97.55
3	CFYm2	51336000	51143714	99.63
4	CFYm3	53685000	52876641	98.49

10.3.2.b: Utilisation of allocated funds – ISE

Sl No	Assessment Year	Budget Allocated in	Actual Expenditure	Percentage of
		Rs.	in Rs.	Utilisation
1	CFY	109209600	102621000	93.97
2	CFYm1	91800000	89549006	97.55
3	CFYm2	83421000	83108535	99.63
4	CFYm3	68597500	67564597	98.49

10.4. Library and Internet (20)

(Indicate whether zero deficiency report was received by the Institution for all the assessment years. Effective availability/purchase records and utilization of facilities/equipment etc. to be documented and demonstrated).

Library Services	Yes
Carpet Area of library (in m2)	4018 m2
Reading Space (in m2)	2500 m2
Nymber of seats Reading Space	605
Number users issue book per day	389
Number of users visits per day	515 (Physical Access)
Timings : Ground Floor	24/7, 365 days
Lower Level	8.00am – 6.30pm
Number of Library Staff	11
Number of Library staff with degree in Library	7
Management computerization for search,	Yes
Indexing, Issue return record, Bar-coded	



Library Additional Services	Institutional Repository
	 Electronic Resources
	• E-Portals
	 Online Course (E-shikshana)
	• Remote Access of e-resources (Mapmy Access)
	NDLI Club Activities
	 Online Reservation
	 Circulation Service
	Reference Service
	 Reprographic Service
	Document Scanning
	• Document Printing
	 OPAC (Online Public Access Catalog)
	• NPTEL
	 Overnight Circulation
	• E-mail Reminder
	• Online Q & A
	 Grammar Tool – Lanquill
	• Online Lecture
	 Organising Book Exhibition
	 News Paper Clippings
	 Similarity or Plagiarism Checking Service
	 Orientation Program
	• Awareness of Reference Manager Tool –
	"Mendeley Desktop"
	 Social Media alert service

10.4.1. Quality of Learning resources (hard/soft) (10)

Digital Library Services	Yes
Availability of Digital	Yes
Library Contents	
Number of Courses	13
Number of eBooks	27439
Availability of Exclusive	Yes
Server	
Availability of Intranet	Yes
/Internet	
Availability of Exclusive	Yes
Space/Room	
Number of users per day	992 (e-access)



Digital Library is provided	E-Journals Links		
in the Central Library	Elsevier (https://www.sciencedirect.com/) -		
where students can access https://www.sciencedirect.com/ (https://www.sciencedirect.com/) T			
all kinds of e-journals	& Francis (http://www.tandfonline.com/) -		
	http://www.tandfonline.com/ (http://www.tandfonline.com/)		
	Springer Nature (http://link.springer.com/) - http://link.springer.com/		
	(http://link.springer.com/)		
	Emerald (https://www.emeraldinsight.com/) -		
	https://www.emeraldinsight.com/ (https://www.emeraldinsight.com/)		
	ProQuest - https://www.proquest.com/165290		
	(https://www.proquest.com/165290)		
	E-Conference Proceedings- IEEE		
	https://ieeexplore.ieee.org/Xplore/home.jsp		
	(https://ieeexplore.ieee.org/Xplore/home.jsp)		
	E-Case Studies – Emerald https://www.emerald.com/insight/content/case-		
	studies (https://www.emerald.com/insight/content/case- studies)		
	E-Books Links		
	Elsevier (https://www.sciencedirect.com/) -		
	https://www.sciencedirect.com/ (https://www.sciencedirect.com/) Taylor		
	& Francis (http://www.crcnetbase.com/) -		
	https://www.taylorfrancis.com/ (https://www.taylorfrancis.com/) Springer		
	Nature (http://link.springer.com/) http://link.springer.com/		
	(http://link.springer.com/)		
	Mint Books - https://nhce.mintbook.in/ (https://nhce.mintbook.in/)		
	New Age Publishers (https://digital.elib4u.com/)		
	https://digital-elib4u-com.vtuconsortium.mapmyaccess.com/		
	(https://digital-elib4u-com.vtuconsortium.mapmyaccess.com/)		
	Packt (https://prod.packtpub.com/in) - https://videeya-		
	in.nhce.mapmyaccess.com/ (https://videeya- in.nhce.mapmyaccess.com/)		
	McGraw Hill Education - https://www-expresslibrary-mheducation-		
	com.vtuconsortium.mapmyaccess.com/ (https://www- expresslibrary-		
	mheducation-com.vtuconsortium.mapmyaccess.com/)		
Video Course online	NPTEL NDLI GIAN		
	SarvajanikaGranthalaya		
	SWAYAM		
	SWAYAM PRABHA PM eVIDYA		
	Virtual Labs		
	E-PG Pathshala		

Students can access eBooks/journals using internet in the Library.

Ground Floor section of the Library is open 24 hours a day for utilization. They are spacious, well ventilated, having power sockets, lights & fans and Wi-Fi connectivity.



The Digital Library, Video Conference Room, Reading Rooms are all located here. Lower level contains the Main Books Stock, Reference Section, Library Office and Photocopier Room.

Library has resources for Undergraduate, Postgraduate and PhD students.

Textbooks, Journals, Bound Volumes, Conference Proceedings, General Reference Material, Technical Magazines, Newspapers and CDs-DVDs are available for reference.

- 1. Name of the Internet provider:BSNL and Jio Communication
- 2. Available bandwidth: 300 Mbps
- 3. Wi-Fi availability: Yes
 - ✤ Campus is Wi-Fi enabled
 - ✤ About 40 access points are available in the campus
- 4. Internet access in labs, classrooms, library and offices of all Departments: Yes
 - ✤ Internet can be accessed in labs through Wi-Fi. Few systems provided with internet connection.
 - Wi-Fi at the corridors gives access to internet in the classrooms.
 - Library has a designated browsing centre with about 50 systems having internet connection. Wi-Fi accessibility also available
 - Departments have designated systems with internet connection. Wi-Fi accessibility as well as Ethernet available.
- 5. Security arrangements: Yes



Autonomous College, Permanently Affiliated to VTU, Approved by AICTE & UGC Accredited by NAAC with 'A' Grade, Accredited by NBA The Trust is a recipient of prestigious Rajyotsava State Award 2012 conferred by Government of Karnataka

Declaration

• I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institutes hall fully abide by them.

• It is submitted that information provided in this Self-Assessment Report is factually correct.

• I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Head of the Institute Name : MANJUNATHA

Designation : PRINCIPAL



sight Signature : Seal of The Institution :

Principal Now Horizon College of Engineering Ring Road, Bellandur Post Bangalore - 560 199

Place : BANGALURU Date : 10-06-2023 14:54:1

> **New Horizon Knowledge Park** Ring Road, Bellandur Post, Near Marathalli, Bangalore, India. Pin- 560103

Annexure I

(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal,

and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective

presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary

environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

Program should specify 2-4 program specific outcomes.

PSO1: Graduates will be able to solve real life problems of Power system and Power Electronics using Mi Power, PSPICE and MATLAB software tools and hardware

PSO2: Graduates will be able to develop and support systems based on renewable and sustainable Energy sources.