



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING



Approved by All India Council for Technical Education, New Delhi
Affiliated to Anna University, Chennai

NAAC Accredited Institution & NBA Accredited Courses (Mech. Engg., ECE, CSE, IT)
"Nizara Educational Campus" Muthapudupet, Avadi-IAF, Chennai - 55.

1. Attainment of Program outcome and course outcome for Information Technology

The evaluation of a course outcome is based on students' performance in internal assessments, assignments, seminars, the university examination, and the course exit survey. For direct assessment, internal assessments, assignments, and student seminars collectively contribute 60% to the overall attainment of a course outcome, while the university examination contributes 40%.

Overall Direct Assessment evaluated as follows:

- ❖ Weightage to Internal assessment, assignment, Seminar and University Examinations: 80%

Indirect Assessment evaluated as follows

- ❖ Weightage applied to Course Exit Survey: 20%.

Theory courses:

The attainment of course outcomes by students is evaluated for each theory course through two internal assessment tests, model examination conducted by the department and an end-semester examination conducted by the affiliated university. These assessments are designed to shift students from "what they learn" to "how to deliver." They are direct methods used to determine a student's understanding of the subject, acquisition and application of knowledge, and problem-solving abilities. Additionally, assignments and seminars serve as direct assessment methods, fostering deeper thinking and greater engagement with the course material. Well-crafted writing assignments, in particular, encourage students to reflect more profoundly on their learning.

Lab courses:

The attainment of course outcomes by students in lab courses is assessed through various methods: evaluating performance on individual experiments, a model practical exam conducted by the department, and the end-semester examination conducted by the affiliating university. These assessments, which include oral examinations (viva voce), determine the students' understanding of the subject, knowledge acquisition, ability to apply that knowledge, and problem-solving capabilities.

Project:

The attainment of course outcomes by students on projects is assessed through three departmental reviews, a final project demonstration given by the student, and an end-semester examination conducted by the affiliated university. In addition to the main project in the




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program's final semester, students undertake mini projects in the sixth semester, supervised by faculty. During these projects, students apply their knowledge from related courses to create hardware and software solutions, presenting a demonstrable product to a panel of supervisors.

Alongside these direct assessments, indirect assessments are also employed. These include course exit surveys to evaluate course and program outcomes, and student feedback forms to enhance the learning experience by reviewing content and course delivery. Feedback on the Technical Seminar for students involves gathering knowledge on a topic and presenting it in a comprehensive technical report and oral lecture.

2. Attainment of Course Outcomes of all courses with respect to set attainment levels

Measuring Course Outcomes attained through Internal Assessments and University Examinations for Theory Evaluation:

The Department has set Attainment level for the Course Outcomes of all courses in the internal assessments and university examination are defined for 2019-2023 batch as:

Academic Year	Attainment Level 1	Attainment Level 2	Attainment Level 3
2019-2023	Student scores between $\geq 50\%$ and $< 55\%$	Student scores between $> 55\%$ and $< 60\%$	Student scores $\geq 60\%$

Measuring Course Outcomes attained through Internal Assessments and University Examinations for Laboratory and Project Evaluation:

The Department has set Attainment level for the Course Outcomes of all courses in the internal assessments and university examination are defined for 2019-2023 batch as:

Academic Year	Attainment Level 1	Attainment Level 2	Attainment Level 3
2019-2023	Student scores between $\geq 50\%$ and ≤ 59	Student scores between $\geq 60\%$ and $\leq 69\%$	Student scores $\geq 70\%$

3. Assessment tools and process used for measuring the attainment of each of the program outcomes and program specific outcomes

Overall attainment including direct and indirect survey:

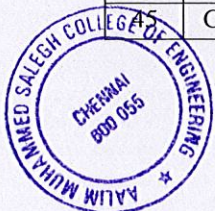
- Weightage to direct assessment : 80%
- Weightage to indirect assessment: 20%




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4. CO PO Matrices

S. No	Course	Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	C101	HS8151	0	0	0	0	0	0	0	0.00	3	3	2	2
2	C102	MA8151	3	3	3	3	0	0	0	0	2	0	0	2
3	C103	PH8151	3	3	3	0	0	0	2	0	0	0.00	0	1
4	C104	CY8151	3	2	2	0	0	0	3	0	0	0	0	0
5	C105	GE8151	3	2	2	0	3	0	0	0	0	0	0	2
6	C106	GE8152	3	3	0	0	0	2	0	0	0	0	0	2
7	C107	GE8161	3	3	3	0	3	0	0	0	0	0	0	2
8	C108	BS8161	3	3	0	0	0	0	0	0	0	0	0	0
9	C109	HS8251	0	0	0	0	0	0	0	0	3	3	2	2
10	C110	MA8251	3	3	3	0	0	0	0	0	2	0	0	2
11	C111	PH8252	3	3	2	0	0	0	2	0	0	0	0	2
12	C112	BE8255	3	2	0	0	0	0	0	0	0	0	0	0
13	C113	IT8201	3	3	3	0	3	0	0	0	0	2	1	2
14	C114	CS8251	3	3	3	0	3	0	0	0	0	0	0	2
15	C115	GE8261	3	3	0	0	0	3	0	0	0	0	0	1
16	C116	CS8261	3	3	3	0	3	0	0	0	0	0	0	2
17	C117	IT8211	3	3	3	0	3	0	0	0	0	2	2	2
18	C201	MA8351	3	3	2	0	0	0	0	0	0	0	0	1
19	C202	CS8351	3	3	3	0	0	0	0	0	0	0	0	0
20	C203	CS8391	3	3	3	0	0	0	0	0	0	0	0	0
21	C204	CS8392	2	2	3	0	3	0	0	0	0	0	0	0
22	C205	EC8394	3	3	2	0	0	0	0	0	0	0	0	0
23	C206	CS8381	3	3	3	0	2	0	0	0	0	0	0	0
24	C207	CS8383	3	3	3	0	2	0	0	0	0	0	0	0
25	C208	CS8382	3	3	3	0	2	0	0	0	0	0	0	0
26	C209	HS8381	0	0	0	0	0	0	0	0	3	3	1	2.4
27	C210	MA8391	3	3	3	0	0	0	0	0	0	0	0	0
28	C211	CS8491	3	2	3	0	0	0	0	0	0	0	0	0
29	C212	CS8492	3	2	3	0	0	0	0	0	0	0	0	0
30	C213	CS8451	3	3	2	2	0	0	0	0	0	0	0	0
31	C214	CS8493	3	1	3	0	0	0	0	0	0	0	0	0
32	C215	GE8291	0	0	0	0	0	0	3	0	0	0	0	0
33	C216	CS8481	3	2	3	0	2	0	0	0	0	0	0	0
34	C217	CS8461	3	1	3	0	0	0	0	0	0	0	0	0
35	C218	HS8461	0	0	0	0	0	0	0	0	3	3	1	2
36	C301	MA8551	3	3	2	0	0	0	0	0	0	0	0	0
37	C302	CS8591	3	1	2	0	0	0	0	0	0	0	0	0
38	C303	EC8691	3	2	3	0	0	0	0	0	0	0	0	0
39	C304	IT8501	3	1	1	0	3	0	0	0	0	0	0	0
40	C305	CS8494	3	1	2	0	0	0	0	0	0	3	0	0
41	C306	OMD551	3	2	2	2	2	1	0	0	0	0	0	0
42	C307	EC8681	3	2	3	0	2	0	0	0	0	0	0	0
43	C308	CS8581	3	1	1	0	3	0	0	0	0	0	0	0
44	C309	IT8511	3.00	1.00	1.00	0	3.00	0	0	0	0	0	0	0
	C310	IT8601	3	3	3	3	0	2	0	0.00	0	0	0	0




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46	C311	CS8592	3	3	3	3	0	0	0	0	0	0	0	0
47	C312	IT8602	3	2	3	0	0.00	0	0	0	0	0	0	0
48	C313	CS8091	3	3	3	3	0	2	0	0	0	0	0	0
49	C314	CS8092	3	0	3	0	2	0	0	0	0	0	0	0
50	C315	IT8076	2	2	0	3	0	0	0	0	0	0	0	0
51	C316	CS8662	1	0.00	2	0.00	3	0	0	0	0	0	0	0
52	C317	CS8582	3	3.00	3	2.00	3	0	0	0	0	0	0	0
53	C318	IT8611	3	3	3	1	3	3	3	0	0.00	0	0	0
54	C319	HS8581	0	0	2	0	1	0	0	0	3	3	0	1
55	C401	MG8591	0	0	0	0	0	0	0	2	2	3	3	2
56	C402	CS8792	3	3	3	2	0	2	0	0	0	0	0	0
57	C403	CS8791	2	3	3	2	0	2	0	0	0	0	0	0
58	C404	OME752	0	0	1	0	0	0	2	0	1	2	3	0
59	C405	IT8075	0	0	0	0	0	0	0	1	2	2	3	1
60	C406	HX8001	3	3	3	3	3	2	2	1	3	3	3	2
61	C407	IT8711	2	3	3	2	3	2	0	0	0	0	0	0
62	C408	IT8761	3	3	3	2	0	3	0	0	0	0	0	0
63	C409	GE8076	0	0	0	0	0	0	0	3	0	0	0	3
64	C410	CS8080	3	3	3	0	0	0	0	0	0	0	0	0
65	C411	IT8811	3	3	3	3	3	2	2	1	3	3	3	2

5. PSO Mapping matrices

S.No	Course	Subejct	PS01	PSO2
1	C101	HS8151	2	2
2	C102	MA8151	2	2
3	C103	PH8151	2	2
4	C104	CY8151	0	1
5	C105	GE8151	3	0
6	C106	GE8152	2	0
7	C107	GE8161	3	0
8	C108	BS8161	2	0
9	C109	HS8251	2	1
10	C110	MA8251	2	1
11	C111	PH8252	2	1
12	C112	BE8255	1	0
13	C113	IT8201	2	1
14	C114	CS8251	2	0
15	C115	GE8261	2	0
16	C116	CS8261	2	0
17	C117	IT8211	2	1
18	C201	MA8351	3	0
19	C202	CS8351	2	0
20	C203	CS8391	2	0
21	C204	CS8392	2	0
22	C205	EC8394	2	0
	C206	CS8381	3	0




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24	C207	CS8383	2	0
25	C208	CS8382	3	0
26	C209	HS8381	2	2
27	C210	MA8391	2	0
28	C211	CS8491	2	0
29	C212	CS8492	2	0
30	C213	CS8451	2	0
31	C214	CS8493	2	0
32	C215	GE8291	0	2
33	C216	CS8481	2	0
34	C217	CS8461	2	0
35	C218	HS8461	2	1
36	C301	MA8551	2	0
37	C302	CS8591	2	0
38	C303	EC8691	2	0
39	C304	IT8501	2	0
40	C305	CS8494	2	0
41	C306	OMD551	2	1
42	C307	EC8681	2	0
43	C308	CS8581	2	0
44	C309	IT8511	1.00	2.00
45	C310	IT8601	2	1
46	C311	CS8592	2	1
47	C312	IT8602	2	0
48	C313	CS8091	2	1
49	C314	CS8092	2	0
50	C315	IT8076	1.00	1.00
51	C316	CS8662	2	0
52	C317	CS8582	2.00	1
53	C318	IT8611	2	2
54	C319	HS8581	1	0.00
55	C401	MG8591	1	2
56	C402	CS8792	2	1
57	C403	CS8791	2	1
58	C404	OME752	1	2
59	C405	IT8075	1	1
60	C406	HX8001	2	2
61	C407	IT8711	2	1
62	C408	IT8761	2	1
63	C409	GE8076	0	1
64	C410	CS8080	2	0
65	C411	IT8811	2	2




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6. Consolidated PO attainment

S.No	Course	Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	C101	HS8151	0	0	0	0	0	0	0	0	2.64	2.64	1.76	1.76
2	C102	MA8151	2.22	2.22	2.22	2.22	0	0	0	0	1.48	0	0	1.48
3	C103	PH8151	2.09	2.09	2.09	0	0	0	1.39	0	0	0	0	0.7
4	C104	CY8151	2.49	1.66	1.66	0	0	0	2.49	0	0	0	0	0
5	C105	GE8151	2.15	1.43	1.43	0	2.15	0	0	0	0	0	0	1.43
6	C106	GE8152	2.42	2.42	0	0	0	1.61	0	0	0	0	0	1.61
7	C107	GE8161	2.9	2.9	2.9	0	2.9	0	0	0	0	0	0	1.93
8	C108	BS8161	2.9	2.9	0	0	0	0	0	0	0	0	0	0
9	C109	HS8251	0	0	0	0	0	0	0	0	2.91	2.91	1.94	1.94
10	C110	MA8251	2.91	2.91	2.91	0	0	0	0	0	1.94	0	0	1.94
11	C111	PH8252	2.91	2.91	1.94	0	0	0	1.94	0	0	0	0	1.94
12	C112	BE8255	2.91	1.94	0	0	0	0	0	0	0	0	0	0
13	C113	IT8201	2.9	2.9	2.9	0	2.9	0	0	0	0	1.93	0.97	1.93
14	C114	CS8251	2.91	2.91	2.91	0	2.91	0	0	0	0	0	0	1.94
15	C115	GE8261	2.92	2.92	0	0	0	2.92	0	0	0	0	0	0.97
16	C116	CS8261	2.91	2.91	2.91	0	2.91	0	0	0	0	0	0	1.94
17	C117	IT8211	2.92	2.92	2.92	0	2.92	0	0	0	0	1.94	1.94	1.94
18	C201	MA8351	2.92	2.92	1.94	0	0	0	0	0	0	0	0	0.97
19	C202	CS8351	2.92	2.92	2.92	0	0	0	0	0	0	0	0	0
20	C203	CS8391	2.97	2.97	2.97	0	0	0	0	0	0	0	0	0
21	C204	CS8392	1.94	1.94	2.92	0	2.92	0	0	0	0	0	0	0
22	C205	EC8394	2.92	2.92	1.94	0	0	0	0	0	0	0	0	0
23	C206	CS8381	2.93	2.93	2.93	0	1.95	0	0	0	0	0	0	0
24	C207	CS8383	2.93	2.93	2.93	0	1.95	0	0	0	0	0	0	0
25	C208	CS8382	2.93	2.93	2.93	0	1.95	0	0	0	0	0	0	0
26	C209	HS8381	0	0	0	0	0	0	0	0	2.93	2.93	0.98	2.34
27	C210	MA8391	2.92	2.92	2.92	0	0	0	0	0	0	0	0	0
28	C211	CS8491	2.92	1.94	2.92	0	0	0	0	0	0	0	0	0
29	C212	CS8492	2.92	1.94	2.92	0	0	0	0	0	0	0	0	0
30	C213	CS8451	2.92	2.92	1.94	1.94	0	0	0	0	0	0	0	0
31	C214	CS8493	2.92	0.97	2.92	0	0	0	0	0	0	0	0	0
32	C215	GE8291	0	0	0	0	0	0	2.92	0	0	0	0	0
33	C216	CS8481	2.93	1.95	2.93	0	1.95	0	0	0	0	0	0	0
34	C217	CS8461	2.93	0.98	2.93	0	0	0	0	0	0	0	0	0
35	C218	HS8461	0	0	0	0	0	0	0	0	2.91	2.91	0.97	1.94
36	C301	MA8551	2.84	2.84	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	C302	CS8591	2.85	0.95	1.90	0	0	0	0	0	0	0	0	0
38	C303	EC8691	2.85	1.9	2.85	0	0	0	0	0	0	0	0	0
39	C304	IT8501	2.85	0.95	0.95	0	2.85	0	0	0	0	0	0	0
40	C305	CS8494	2.84	0.95	1.90	0	0	0	0	0	0	2.84	0	0
41	C306	OMD551	2.85	1.90	1.90	1.90	1.90	0.95	0	0	0	0	0	0
42	C307	EC8681	2.88	1.92	2.88	0.00	1.92	0	0	0	0	0	0	0
43	C308	CS8581	2.94	0.98	0.98	0	2.94	0	0	0	0	0	0	0
44	C309	IT8511	2.92	0.97	0.97	0	2.92	0	0	0	0	0	0	0




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45	C310	IT8601	2.29	2.29	2.29	2.29	0	1.53	0	0	0	0	0	0
46	C311	CS8592	2.24	2.24	2.24	2.24	0	0	0	0	0	0	0	0
47	C312	IT8602	2.41	1.61	2.41	0	0	0	0	0	0	0	0	0
48	C313	CS8091	2.47	2.47	2.47	2.47	0	1.65	0	0	0	0	0	0
49	C314	CS8092	2.37	0	2.37	0	1.58	0	0	0	0	0	0	0
50	C315	IT8076	1.68	0	1.68	0	2.52	0	0	0	0	0	0	0
51	C316	CS8662	0.98	0	1.95	0	2.93	0	0	0	0	0	0	0
52	C317	CS8582	2.93	2.93	2.93	1.95	2.93	0	0	0	0	0	0	0
53	C318	IT8611	2.93	2.93	2.93	0.98	2.93	2.93	2.38	0	0	0	0	0
54	C319	HS8581	0	0	1.95	0	0.97	0	0	0	2.92	2.92	0	0.97
55	C401	MG8591	0	0	0	0	0	0	0	1.77	1.77	2.66	2.66	1.77
56	C402	CS8792	2.48	2.48	2.48	1.65	0	1.65	0	0	0	0	0	0
57	C403	CS8791	1.67	2.51	2.51	1.67	0	1.67	0	0	0	0	0	0
58	C404	OME75 2	0	0	0.89	0	0	0	1.79	0	0.89	1.79	2.68	0
59	C405	IT8075	0	0	0	0	0	0	0	0.89	1.77	1.77	2.66	0.89
60	C406	HX8001	2.95	2.95	2.95	2.95	2.95	1.97	1.97	0.98	2.95	2.95	2.95	1.97
61	C407	IT8711	1.95	2.93	2.93	1.95	2.93	1.95	0	0	0	0	0	0
62	C408	IT8761	2.95	2.95	2.95	1.97	0	2.95	0	0	0	0	0	0
63	C409	GE8076	0	0	0	0	0	0	0	2.82	0	0	0	2.82
64	C410	CS8080	2.6	2.6	2.6	0	0	0	0	0	0	0	0	0
65	C411	IT8811	2.95	2.95	2.95	2.95	2.95	1.96	1.96	0.98	2.95	2.95	2.95	1.96
			2.67	2.33	2.40	2.08	2.51	1.98	2.11	1.49	2.34	2.55	2.04	1.70

7. Consolidated PSO Attainment

S.No	Course	Subject	PSO1	PSO2
1	C101	HS8151	1.76	1.76
2	C102	MA8151	1.48	1.48
3	C103	PH8151	1.39	1.39
4	C104	CY8151	0	0.83
5	C105	GE8151	2.15	0
6	C106	GE8152	1.61	0
7	C107	GE8161	2.9	0
8	C108	BS8161	1.93	0
9	C109	HS8251	1.94	0
10	C110	MA8251	1.94	0.97
11	C111	PH8252	1.94	0.97
12	C112	BE8255	0.97	0
13	C113	IT8201	1.93	0.97
14	C114	CS8251	1.94	0
15	C115	GE8261	1.94	0
16	C116	CS8261	1.94	0
17	C117	IT8211	1.94	0.97
18	C201	MA8351	2.92	0
19	C202	CS8351	1.94	0
20	C203	CS8391	1.98	0
21	C204	CS8392	1.94	0




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22	C205	EC8394	1.94	0
23	C206	CS8381	2.93	0
24	C207	CS8383	1.95	0
25	C208	CS8382	2.93	0
26	C209	HS8381	1.95	1.95
27	C210	MA8391	1.94	0
28	C211	CS8491	1.94	0
29	C212	CS8492	1.94	0
30	C213	CS8451	1.94	0
31	C214	CS8493	1.94	0
32	C215	GE8291	0	1.94
33	C216	CS8481	1.95	0
34	C217	CS8461	1.95	0
35	C218	HS8461	1.94	0.97
36	C301	MA8551	1.89	0.00
37	C302	CS8591	1.9	0
38	C303	EC8691	1.90	0.00
39	C304	IT8501	1.90	0.00
40	C305	CS8494	1.9	0
41	C306	OMD551	1.9	1
42	C307	EC8681	1.9	0
43	C308	CS8581	1.96	0
44	C309	IT8511	0.97	1.95
45	C310	IT8601	1.53	0.76
46	C311	CS8592	1.49	0.75
47	C312	IT8602	1.61	0
48	C313	CS8091	1.65	0.82
49	C314	CS8092	1.58	0
50	C315	IT8076	0.84	0.84
51	C316	CS8662	1.95	0
52	C317	CS8582	1.95	0.98
53	C318	IT8611	1.95	1.95
54	C319	HS8581	0.97	0
55	C401	MG8591	0.89	1.77
56	C402	CS8792	1.65	0.83
57	C403	CS8791	1.67	0.84
58	C404	OME752	0.89	0
59	C405	IT8075	0.89	0.89
60	C406	HX8001	1.97	1.97
61	C407	IT8711	1.95	0.98
62	C408	IT8761	1.97	0.98
63	C409	GE8076	0	0.84
64	C410	CS8080	1.73	0
65	C411	IT8811	1.96	1.96
			1.82	1.22




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8. PO and PSO Final Attainment:

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
2.67	2.33	2.40	2.08	2.51	1.98	2.11	1.49	2.34	2.55	2.04	1.20	1.82	1.22




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