



**Internal Quality Assurance Cell,
Walchand College of Engineering, Sangli**
(An Autonomous Institute)

Report of Internal Academic Audit 2023

1. Executive summary

The internal academic audit was conducted from 21st July to 30th July 2023 as per circular issued to all concerned on 17th July 2023. All the faculty members were requested to provide either hard copy or upload the course book documents for their respective courses in the revised format as supplied by the Associate Dean QA. Heads of Departments/ Department Academic coordinator/FY coordinator were informed to ensure availability of these documents for the auditors. It was instructed to present previous three semester coursebooks for the courses offered by them.

A pre-audit meeting was conducted on Wednesday, 19th July, 3 30 pm at the conference hall for the internal academic auditors to comprehend with guidelines/rubrics for assessing the quality of academic data and to ensure uniformity in assessment of audit documents. The audit was conducted by the designated auditors given in Table 1.

Table 1 Auditors for Internal Academic Audit

Departments/ Groups	UG Auditor	PG Auditor
FY coordinator	Mr. B.R. Kavathekar	Mr. B.R. Kavathekar
Civil	Mrs. S.P. Diwan	Mr. V.V. Dhende
APM	Mrs. V.B. Girgaonkar	Mr. V.V. Dhende
Mechanical	Mr. S.R. Khedkar	Mrs. M.R. Khare
Electrical	Dr. S.S. Solapure/ Dr. S.V. Gaikwad	Dr. S.S. Solapure
Electronics	Mrs. S.A. Aitwade	Mrs. S.S. Rokade
CSE	Dr. A.J. Umbarkar	Mr. M. S. Mahagaonkar
IT	Dr. P.K. Sohoni	--

Although the scheduled time circulated was 10 30 am onwards, 21st July 2023, due to requests from various heads, the audit was allowed to be conducted within weeks' time. The venue for the audit was at the respective department wherein the respective DAC worked as hosts. The course books for the courses offered by the particular department / section were to be collected by respective DACs.

The scanned copy of internal academic audit reports has been sent to respective Heads of Dept. for reference and necessary follow up. As the number of unavailable coursebooks for the scheduled audit was significant, it was decided to conduct the additional round of Academic Audit scheduled in the 3rd Week of August 2023. The third round of academic audit was carried out for remaining defaulting course coordinators till 4th Sept. 23.

2. Rubric Used to assess the coursebooks

Following rubric formats were used to assess the course files: -

WALCHAND COLLEGE OF ENGINEERING SANGLI.

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End Semester Internal Academic Audit :

Theory Courses

1. Academic Year and Semester:	SEM I / II	2. Department:			3. Class:	
Course code						
Course Name						
Course Teacher Name						
Course delivery (Lesson Plan and Execution)						
ISE : planned and executed						
Counselling to students						
Question papers						
Results						
CO attainments						
Remarks if any						
Name and Signature of Auditor						
Ratings: 0: Data Not Provided, 1: Poor, 2: Average, 3: G: Good, 4: VG: Very Good, 5: Excellent						

WALCHAND COLLEGE OF ENGINEERING SANGLI.

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End Semester Internal Academic Audit

Lab Courses

1. Academic Year and Semester:	SEM I / II	2. Department:	3. Class:			
Course code						
Course Name						
Course coordinator Name						
Course delivery (Lesson Plan and Execution)						
ISE : planned and executed						
Counselling to students						
Rubrics developed if any						
Results						
CO attainments						
Remarks if any						
Name and Signature of Auditor						
Ratings: 0: Data Not Provided, 1: Poor, 2: Average, 3: G: Good, 4: VG: Very Good, 5: Excellent						

3. Results and Analysis

3.2 Civil Engineering Department:

A department-wise summary based on the observations noted from the reports submitted by the auditors is given below.

Programme	Academic Year	Semester	No. of Courses	Unavailable coursebooks	Average ratings
B.Tech. Civil Engg. And FY	2022-23	Sem I	27	3	3.1
		Sem II	21	3	3.3
	2021-22	Sem I	20	2	2.5
		Sem II	20	5	2.1
M.Tech Environmental	2022-23	Sem I and II	25	13	1.78
	2021-22	Sem I and II	22	3	2.75

Note: Average percentage of Unavailable coursebooks is 21.48 % .

3.2 Mechanical Engineering Department:

Programme	Academic Year	Semester	No. of Courses	Unavailable coursebooks	Average ratings
B.Tech. Mechanical Engg. And FY	2022-23	Sem I	43	6	2.4
		Sem II	41	6	2.7
	2021-22	Sem I	29	8	2.5
		Sem II	37	11.0	2.3
	2020-21	Sem I	30	9	2.0
		Sem II	24	10	1.5
M.Tech. Design	2022-23	Sem I and II	14	0	2.7
	2021-22	Sem I and II	22	6	1.9
M.Tech. Heat Power	2022-23	Sem I and II	19	10	1.0
M.Tech. Production	2022-23	Sem I and II	18	5	1.8

Note: Average percentage of Unavailable coursebooks is 26 %

3.3 Electrical Engineering Department:

Programme	Academic Year	Sem	No. of Courses	Unavailable coursebooks	Average ratings
B.Tech. Electrical Engg. And FY	2022-23	Sem I	36	5	3.1
	2022-23	Sem II	38	6	3.1
	2021-22	Sem II	23	9.0	2.0
M.Tech -Control Systems	2022-23	Sem I and II	21	2.0	3.1
M.Tech -Power Systems	2022-23	Sem I and II	32	7	2.7

Note: Average percentage of Unavailable coursebooks is 19 %

3.4 Electronics Engineering Department:

Programme	Aca. Year	Semester	No. of Courses	Unavailable coursebooks	Average ratings
B.Tech. Electronics Engg. And FY	2022-23	Sem I	40	22	1.4
	2022-23	Sem II	35	17	1.7
	2021-22	Sem II	34	27.0	0.6
M.Tech Electronics	2022-23	Sem I and II	22	11.0	1.6
	2021-22	Sem	9	4	1.8

Note: Average percentage of Unavailable coursebooks is 59 % , CO attainment is a concern.

3.5 Computer Science and Engineering Department:

Programme	Academic Year	Semester	No. of Courses	Unavailable coursebooks	Average ratings
B.Tech. CSE And FY	2022 -23	I	36	1	2.8
	2022 -23	II	23	2	3.4
	2021-22	II	25	4	2.8
M.Tech CSE	2022 -23	I	11	3	2.8
M.Tech CSE	2022 -23	II	11	4	2.2

Note: Average percentage of Unavailable coursebooks is 13 % , CO attainment is a concern

3.6 Information Technology Department:

Programme	Academic Year	Semester	No. of Courses	Unavailable coursebooks	Average ratings
B.Tech. IT	2022 -23	I	29	13	1.9
B.Tech. IT	2022 -23	II	26	14	2.0
B.Tech. IT	2021-22	II	32	21	1.1

Note: No MTech admissions in recent years. Average percentage of Unavailable coursebooks is 55%

3.7 Applied Mechanics Department:

Programme	Academic Year	Semester	No. of Courses	Unavailable coursebooks	Average ratings (out of 5)
B.Tech. Civil Engg.	2022 -23	I	16	0	3.8
B.Tech. Civil Engg.	2022 -23	II	8	0	3.8
B.Tech. Civil Engg.	2021-22	II	12	0	3.9
FY	2022 -23	I and II	8	0	4.2
FY	2021-22	I and II	8	0	3.4
FY	2020-21	I and II	8	0	2.9
M. Tech Structural Engg.	2022 -23	II	4	0	3.6
M. Tech Structural Engg.	2022 -23	I	7	0	3.2
M. Tech Structural Engg.	2021-22	II	6	0	3.1

3.8 Humanities Section:

Programme	Academic Year	Semester	No. of Courses	Unavailable coursebooks	Average ratings
All B.Tech.	2022-23	Sem I	42	16	2.6
All B.Tech.	2022-23	Sem II	32	19	2.1
All B.Tech.	2021-22	Sem I	42	27.0	1.6
All B.Tech.	2021-22	Sem II	33	8	2.7

Note: Average percentage of Unavailable coursebooks is 47 % , CO attainment is a concern

Summary of Results:

- Total number of courses expected to be audited : 895
- Percentage of coursebook records made available: 69%
- Average audit rating: 47%
- Average Lowest rubric Element rating : 17% (Counselling to students)
- Average Highest rubric Element rating : 59% (Course delivery , Results)
- Average CO attainment rating: 54%

4. Conclusions

1. The coursebook record keeping along with CO attainments seems to have suffered due to four years break in coursebook audit practice. It is clearly indicated in terms of low performance ratings to CO attainment rubric element and number of unavailable coursebooks.
2. It is observed that laboratory and Mini-project coursebooks are not maintained in comparison with the theory coursebooks. However such courses are related to application and demonstration of knowledge and hence significantly contribute to the CO-PO mapping. In case of courses executed in small student batches, their seems to be problem of non-coordination between different teachers and relevant course coordinator.
3. Formative assessments needs to be encouraged as part of In semester evaluations in comparison with conventional tests. Availability of Question papers or assessment rubric is a concern as its rating is just 40%
4. The visits of NBA, NAAC committee is expected in the current semester. Hence corrective actions in form of course records and calculation of CO attainments is most urgent. CO attainment records are poor. All the Heads of Dept. are requested to take follow-up action through DAC's and ensure that the above observations, wherever applicable are addressed so that all courses are properly documented. The action taken report should be submitted by the HOD's to the Director at the earliest.

This Report is further submitted to IQAC Chairman.



Dr. A. K. Kokane,
Associate Dean,
Quality Assurance