

INSTITUTE OF ENGINEERING & MANAGEMENT

ACADEMIC AUDIT REPORT
ACADEMIC YEAR: 2023-2024

PREPARED BY
THE AUDIT COMMITTEE

Schedule for Academic Audit

Schedule of Academic Audit 2023 -2024

Sl No	Date	Department	Time	Name of Expert(s)
1.	16.01. 2024	MBA	10am - 1pm	Prof.(Dr) Saibal Kumar Mukhopadhyay,
2.	16.01. 2024	BBA	2pm- 5pm	Prof.(Dr) Saibal Kumar Mukhopadhyay,
3.	16.01. 2024	CSE and CSE (AI)	10am - 1pm	Prof (DR) J K Mandalv, Prof. (Dr) Subhadip Basu & Prof. (Dr) Chandreyee Chowdhury
4.	16.01. 2024	IT and CSE (IOT), CSE (IOTCSBT)	2pm- 5pm	Prof (DR) J K Mandal , Prof. (Dr) Subhadip Basu & Prof. (Dr) Chandreyee Chowdhury
5.	17.01. 2024	ECE	10am - 1pm	Prof. (Dr) Debashis Chatterjee
6.	17.01. 2024	EEE and EE	2pm- 5pm	Prof. (Dr) Debashis Chatterjee
7.	17.01. 2024	ME & BSH	10am - 1pm	Prof. (Dr) Subhash Chandra Panja
8.	17.01. 2024	Exam cell	2pm- 5pm	Prof. (Dr) Subhash Chandra Panja
9.	17.01. 2024	CSBS, CSE (AIML) and BCA	10am - 1pm	Prof (DR) J K Mandal , Prof. (Dr) Subhadip Basu & Prof. (Dr) Chandreyee Chowdhury

…… Prof.(Dr) Saibal Kumar Mukhopadhyay

…… Prof (DR) J K Mandal

……..…… Prof. (Dr) Subhadip Basu

…….. Prof. (Dr) Chandreyee Chowdhury

……..…….. Prof. (Dr) Debashis Chatterjee

……..…… Prof. (Dr) Subhash Chandra Panja

1. Introduction

The IEM group is an acclaimed educational group amongst the industry-centred academic training organisations of today. IEM has set sublime standards in addressing the technical and managerial resource shortage in the new era of dynamic globalisation. The IEM group has risen to fame for its strong foundation in teaching and R&D in multifaceted areas. It aims to serve the future generation as well as the Nation through its commitment towards self sufficiency and unmatchable excellence. IEM is one of the top-ranked engineering colleges in Kolkata and Eastern India which provides the best engineering course with 100% job assistance. Contact today to know the course details of computer science engineering, mechanical engineering, electrical and electronics engineering, electronics and communication engineering.
Therefore, the authorities in line with one of its mission of improvement by raising the realm of good to great to greater, through continuous quality assessment. So, the Institute voluntarily has started the academic audit first for the year 2021-2022 to look into its strengths and weaknesses and identify the scope of further improvement.

Audit Committee

The authority of the Institute of Engineering & Management was consisting of six three members committee to conduct an Academic & Administrative Audit. The Audit Committee is comprised of the following members:

Prof.(Dr) Saibal Kumar Mukhopadhyay,	Director, Institute of Business Management
Prof (DR) J K Mandal	Professor, Department of Computer. Science & Engineering. University of Kalyani
Prof. (Dr) Subhadip Basu	Professor, Computer Science and Engineering Department, Jadavpur University
Prof. (Dr) Chandreyee Chowdhury	Associate Professor, Computer Science and Engineering Department of Jadavpur University
Prof. (Dr) Debashis Chatterjee	Professor, Department of Electrical Engineering, Jadavpur University
Prof. (Dr) Subhash Chandra Panja	Professor, Department of Mechanical Engineering, Jadavpur University

2. Objective & Scope of the Audit

Members along with the Principal, Prof. Dr. Arun Kumar Bar in presence of IQAC members at a preliminary meeting, held on 16-01-2024, outlines the broad objectives of the academic audit as an assessment of the College. Accordingly, the audit team members decided to look into the prevailing situation at the College along the following aspects in course of the audit.

Scope

- Methodology of teaching and learning adopted for the different courses run by the College
- Functioning of the Laboratories and Computer Facilities
- Examination and Evaluation system
- Activities of the Internal Quality Assurance Cell

- Central Library and the Central Research Facility and Sport Office
- Outreach Programmes by NSS as well as regular students.
- Alumni/ae and their contributions to the College
- Opportunities and Scope of improvements in the major functional areas

The team is empowered and expected to express their views and give suggestions for the improvement of the systems being followed by the College.

3. Methodology

At the meeting with the Principal, the Coordinator-IQAC, and other faculty members, officials, a discussion was made with the Principal which gave a general and broad profile of the facilities and activities of the College. The new facilities added and the new campuses that are in the process of being developed were also noted by the audit team.

The Audit team visited the various departments and facilities, and had brief interactions with the faculty of each department, and the support staff. Visits to the laboratories, Computer facilities, the Library and some of the other facilities of the College were accommodated in the schedule arranged by the College to enable the Audit Committee to acquire relevant first-hand information.

Based on the departmental profile, information/data from the available documents and the interactions with the Head/Coordinator relating to different components of the department/institution, the Audit Committee has made a sincere endeavour to put forward certain views, observations and recommendations in the body of this report with expectations that these recommendations, when implemented, will best serve the interest of the College as intended.

4. Institutional Distinctiveness

IEM is established in Kolkata in the IT hub of the state of West Bengal since 1989 as the first self-financed engineering college of the state, and since then IEM has been socially accredited as the best self-financed engineering institute of West Bengal and admits the best students from the top engineering merit list of WBJEE and JEE Main.

Right from its inception the placement cells of both IEM have consistently provided for 1 to 2 jobs on average for all its students.

1. IEM has ranked the **3rd best engineering college** in West Bengal after IIT Kharagpur and NIT Durgapur by NIRF (National Institutional Ranking Framework), Ministry of HRD, Govt of India, amd 79th all across India, where all IITs, NITs
2. IEM has won the title of the "**Jewel of the East**" by Telegraph
3. IEM has won the title of "**Picture Perfect**" by ABP Group
4. IEM has achieved the **best institute of India** in Star News Award
5. IEM is successfully organizing international conferences for the last few years as mentioned below:
    1. IEEE IEMCON at University of British Columbia, Vancouver, Canada (http://ieee-iemcon.org/) since 2015
    2. IEEE UEMCON at Columbia University, New York, USA (http://ieee-uemcon.org/) since 2016
    3. IEEE CCWC, University of Nevada, Las Vegas (http://ieee-ccwc.org/) since 2017
    4. IEEE IEMANTENNA, University of British Columbia, Vancouver, Canada (http://iemantenna.org/) in 2019

5. IEEE IEMTRONICS at University of British Columbia, Vancouver, Canada (https://iemtronics.org/) since 2020

6. The educational group has one of the **strongest Placement Cells** in the country. Right from its inception both IEM have provided for 1 to 2 jobs on an average for all its students.

5. College Campus & Facilities:

- Three campuses are there namely Gurukul Building, Ashram Building and Management House
- Institute has 1 Gbps (1:1) dedicated leased line for high-speed Internet connectivity
- Wi-fi Campus
- Keeping in mind the refreshment and fitness of the students a rooftop mini-golf course, cricket net practice area, table tennis boards, carrom boards, two basketball courts and gymnasium are made available inside the campus
- More than 5000 computers available for students

Institute has set the following Vision:

To be a globally recognized educational institution known for outcome-based education and application oriented research.

With the Mission of

Assisting students to understand and enjoy seamless nature of knowledge and encourage them to apply the acquired knowledge to practical use, so that they become worthy, socially responsible good human beings sought after for their leadership qualities.

To foster creativity, innovation, and excellence through example-based teaching-learning process imparted in the most simple and easily comprehensible way*.

To continuously upgrade knowledge base of our manpower, improve infrastructure and use of latest technology/pedagogical tools, and update curriculum through periodic feedback from stakeholders to enable students to meet professional requirements and their expectations.

6. Goals of the College

i. Provide an inclusive educational environment; enhance the strength and capabilities of the students coming from diverse socio-economic backgrounds. In pursuit of an inclusive developmental mode, the college teaches its students to appreciate, respect and promote the perspectives, rights and dignities of each individual.
ii. Encourage students to realize their own potential.
iii. Prepare students to become analytical and responsible citizens.
iv. Build an empowered young generation who can act as an essential component for the sustainable development of the society.
v. Promote teamwork and collaborative learning among the students and nurture a community of learners motivated by a quest for academic excellence.

7. Awards and Accolades

While reputation has grown over the years, formal recognition first came from the National Assessment and Accreditation Council (NAAC) as a "A" grade.

The College has earned the following status:

- IEM has ranked 14 as a Best Private University –constituent College across India.
- IEM group again bagged the top position in the best engineering College of West Bengal in 2023 ranked by Times Ranking in Times of India.
- IEM group again bagged the top position in the best BBA College of West Bengal in 2023 ranked by Times Ranking in Times of India.
- IEM Kolkata was awarded the Times Bengal Icons award at the Hyatt Regency Kolkata on 22nd June 2023.
- Institute of Engineering & Management was awarded for being outstanding Institute for Engineering and Management Placements by ABP Ananda at ABP Ananda Shiksha Samman 2023.
- IEM Kolkata was awarded for Excellent Placement (Domestic and International) by TV9.
- IEM Group was awarded the Education Eminence 2023 Award by News18 at Guwahati, Assam for Excellent Placement in engineering & management (Domestic and International).
- IEM was awarded IEM was awarded best engineering college by the French Consul General, in Times Business Awards 2023 at ITC Royal Bengal. by the French Consul General, in Times Business Awards 2023 at ITC Royal Bengal

New Horizons

The College has three campuses equipped with gadgets and amenities and is ready to house the research activities.

8. Management

The College has three decision making bodies:

- Academic Council
- Internal Quality Assurance Cell
- Governing Body

The various aspects of the Academic affairs and administration of the College are organized and looked after by the different committees constituted by the Members of the Management and Faculty. In some of these committees, representatives of the students and alumni are also present.

9. Observations

Observations based on the documents provided by the College authorities and meeting with the different stakeholders of the College on January 16th to January 18th, 2024 are given below.

10. Courses

Departments in the College Stream	Programme
CSE	B.Tech
IT	B.Tech
CSE(IOT)	B.Tech
CSE(IOTCSBT)	B.Tech
CSE(AIML)	B.Tech
CSE(AI)	B.Tech
ECE	B.Tech
EEE	B.Tech
EE	B.Tech
ME	B.Tech
BSH	B.Tech

11. Assessment of courses

DEPARTMENT: CSE

I. The subjects being chosen for students for MOOCs courses which are taken up from NPTEL should not be same as the subjects being offered as a part of the curriculum. A list of subjects are to be suggested from the department's end and document of that meeting where the list is decided is to be maintained.

II. The subjects being taken up by students for IFC should also be enriching their knowledge base and therefore should not be a part of the curriculum.

III. Generally in case of open electives the open elective offered by a certain department should not be open for the students of that department itself but for other departments. But the same is not followed here. This formulation needs to be reviewed.

IV. In subjects like Web Technology the syllabus needs to be upgraded with inclusion of various feedbacks. This particular subject should have corresponding lab class as well.

V. Some classes can be kept in tutorial mode for theory subjects (say for a subject with three credit point two theory classes and 1 lab class can be assigned).

VI. IIC – Institute Innovation Cell should be more active to harness the resources offered by the student force in terms of publication.

VII. Individual faculty development should be looked upon.

VIII. If the policy of publishing at least two research papers is made mandatory exit criteria for every student that seems to be a bit farfetched. Research should be made open ended with less pressure on publication with a reasonable strategy.

IX. If four publications are made mandatory for every faculty this will affect the quality of the research as under the pressure to meet the number of publications a paper which is of journal standard under a deadline is submitted for a conference. A revision of this strategy needs to be made. The institute should focus on faculty development. Best faculty (research) could be awarded to boost up research culture among the faculty members. This could be extended to best faculty (innovation).

X. Faculties may collaborate with other institutes to get better output in publication.

XI. PhD guides are encouraged to take PhD scholars for supervision.

XII. The format of the Audit document needs revision. For higher studies, placement, internship, faculty exchange, student exchange (Point no 22,29 etc). the master document may include a summary with the detailed report table attached as Annexure.

XIII. It is advised to track the retention and career growth of students who are getting higher package jobs.

XIV. Alumni contribution should not just be tracked in terms of financial contribution. This can be their intellectual contribution as well. Alumni members may be encouraged to directly provide scholarship to students who are in need for the same. They can contribute in formation of new laboratory for the department.

XV. While collecting feedback from the students their demographic data may also be included for further analysis.

XVI. Faculty members should have dedicated time for research with less class load. They could be given a target.

XVII. Per faculty maximum 3 different subjects are to be allocated with a weekly class load of 18-20 hours.

XVIII. More lab assistants need to be recruited who will look after the working of the lab whereas the teachers should be more involved in identifying the strong, medium and weak students and devise strategies to guide them.

DEPARTMENT: IT

I. Representation of Item 1 is satisfactory

II. Representation of Item 2 is satisfactory

III. Representation of Item 3 is satisfactory

IV. Representation of Item 4 is satisfactory

V. Representation of Item 5 is satisfactory

VI. Item 6: More lab assistants need to be recruited who will look after the working of the lab whereas the teachers should be more involved in identifying the strong, medium and weak students and devise strategies to guide them. Per faculty maximum 3 different subjects are to be allocated with a weekly class load of 18-20 hours.

VII. Item 8: More collaboration needed

VIII. Item 10: More collaboration needed

IX. Item 11, 12, 13: Student could be better connected to senior junior batches under the supervision of the faculty to enhance research outcome.

X. Representation of Item 14 is satisfactory

XI. Representation of Item 15 is satisfactory

XII. Item 16: PhD guides are encouraged to take PhD scholars for supervision.

XIII. Item 17: Statistical summary should be added

XIV. Representation of Item 18 is satisfactory

XV. Representation of Item 19 is satisfactory

XVI. Item 20: Prepare a summary along with the details

XVII. Representation of Item 21 is satisfactory

XVIII. Item 22: Summary report should be added

XIX. Item 23: Alumni contribution should not just be tracked in terms of financial contribution. This can be their intellectual contribution as well. Alumni members may be encouraged to directly provide scholarship to students who are in need for the same. They can contribute in formation of new laboratory for the department.

XX. Representation of Item 24 is satisfactory. More collaborations are preferable with eminent academics

XXI. Representation of Item 25 is satisfactory.

XXII. Representation of Item 26 is satisfactory.

XXIII. Representation of Item 27, 28, 29 is satisfactory.
XXIV. Representation of Item 32, 33, 34, 35 is satisfactory.
XXV. Item 36: SWOT analysis to be revisited.

DEPARTMENT: CSE(IOT)

I. Representation of Item 1 is satisfactory
II. Representation of Item 2 is satisfactory
III. Representation of Item 3 is satisfactory
IV. Representation of Item 4 is satisfactory
V. Representation of Item 5 is satisfactory
VI. Item 6: More lab assistants need to be recruited who will look after the working of the lab whereas the teachers should be more involved in identifying the strong, medium and weak students and devise strategies to guide them. Per faculty maximum 3 different subjects are to be allocated with a weekly class load of 18-20 hours.
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XXIII. Representation of Item 27, 28, 29 is satisfactory.
XXIV. Representation of Item 32, 33, 34, 35 is satisfactory.
XXV. Item 36: SWOT analysis to be revisited.

DEPARTMENT: CSE(IOTCSBT)

I. Representation of Item 1 is satisfactory
II. Representation of Item 2 is satisfactory
III. Representation of Item 3 is satisfactory
IV. Representation of Item 4 is satisfactory
V. Representation of Item 5 is satisfactory
VI. Item 6: More lab assistants need to be recruited who will look after the working of the lab whereas the teachers should be more involved in identifying the strong, medium and

weak students and devise strategies to guide them. Per faculty maximum 3 different subjects are to be allocated with a weekly class load of 18-20 hours.

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XXIII. Representation of Item 27, 28, 29 is satisfactory.
XXIV. Representation of Item 32, 33, 34, 35 is satisfactory.
XXV. Item 36: SWOT analysis to be revisited.

DEPARTMENT: CSE(AIML)

I. Representation of Item 1 is satisfactory
II. Representation of Item 2 is satisfactory
III. Representation of Item 3 is satisfactory
IV. Representation of Item 4 is satisfactory
V. Representation of Item 5 is satisfactory
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XV. Representation of Item 19 is satisfactory

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XXIV. Representation of Item 32, 33, 34, 35 is satisfactory.

XXV. Item 36: SWOT analysis to be revisited.

DEPARTMENT: CSE(AI)

I. The subjects being chosen for students for MOOCs courses which are taken up from NPTEL should not be same as the subjects being offered as a part of the curriculum. A list of subjects are to be suggested from the department's end and document of that meeting where the list is decided is to be maintained.

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DEPARTMENT: ECE

Major Observations:

I. Teaching and Nonteaching filled positions are as per norms.

II. For nonteaching positions, the filled posts are more than sanctioned, which is to be corrected.

III. The research Project funding from External Sources (e.g. DST, UGC etc.) to be improved. More no of projects to be obtained. Some kind of thrust is necessary regarding project writing, and presentation, selection of topics etc.

IV. As the assessment is for 2022-23, the Journal/conference papers to be provided within this time span only.

V. Thrust for students going for highly challenging projects according to industrial demands will be better.

Other minor factors were discussed during the visit to be implemented. Rest all are in line and mostly conforming AICTE norms e.g. student facilities, qualification of the faculties etc.

DEPARTMENT: EE

Major Observations:

I. Teaching and Nonteaching filled positions are as per norms.

II. The research Project funding from External Sources (e.g. DST, UGC etc.) to be improved. More no of projects to be obtained. Some kind of thrust is necessary regarding project writing, and presentation, selection of topics etc.

III. As the assessment is for 2022-23, the Journal/conference papers to be provided within this time span only.

IV. The research paper standards (e.g. no of publications in SCI/SCIE Journals) to be improved.

V. The no of research papers to be also increased.

VI. Thrust for students going for highly challenging projects according to industrial demands will be better.

VII. No of students cracking Exams like GATE/CAT etc. should be improved.

VIII. More no of faculties with PhD will be better.

Other minor factors were discussed during the visit to be implemented. Rest all are in line and mostly conforming AICTE norms e.g. student facilities etc.

DEPARTMENT: EEE

Major Observations:

I. Teaching and Nonteaching filled positions are as per norms.

II. The research Project funding from External Sources (e.g. DST, UGC etc.) to be improved. More no of projects to be obtained. Some kind of thrust is necessary regarding project writing, and presentation, selection of topics etc.

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VIII. More no of faculties with PhD will be better.

Other minor factors were discussed during the visit to be implemented. Rest all are in line and mostly conforming AICTE norms e.g. student facilities etc.

DEPARTMENT: ME

(i) All of the faculty members and staff are performing well. It is seen that almost all seats are admitted in the present first year.
(ii) Teacher-student ratio may be re-evaluated. In this connection, one professor and one associate professor may be recruited. Number of assistant professors is sufficient.
(iii) 3D printing laboratory is wonderful. It needs one dedicated space with the concept of REVERSE ENGINEERING.
(iv) Is it possible to dedicate some floors for Mechanical Engineering Department and others for Basic Science and Humanities Department so that it can be more visible to students, parents, and other external members?
(v) Teachers may apply for more number of funded projects. They should also be involved in publishing more number of good research papers.

Observations and Comments for COE

Overall, this section is properly planned, organized and running.

Observations and Comments for BSH

(i) The BSH department as a whole is doing well.
(ii) They are also actively involved in publishing papers in good journals, conducting conferences, and running projects.
(iii) They should apply for external research projects.
(iv) They are having some state-of-the-art instruments. Some false/temporary partitions may be installed within the department and these instruments are relocated for long-term protection and utilization.
(v) I have seen one uninstalled telescope. It may be permanently installed on a roof-top dedicated space for better observatory study.

12. Strengths & Opportunities for Improvements

Strengths

The audit committee is satisfied with the inherent strengths of the College and these are mentioned below:

- ✓ Forward looking and visionary leadership of the College authority
- ✓ Willingness of leadership for all round continuous quality improvement
- ✓ Enforcement of discipline in a fair and just manner
- ✓ Apolitical ambience of the College
- ✓ One of the best infrastructural facilities that can be provided by an educational institution
- ✓ Good and competent teaching faculty using updated pedagogy with supportive IT facility.
- ✓ Inclusive approach to education by extending the educational facilities, mandatory add-on courses and services.
- ✓ Despite shortage of teaching staff in some cases, the quality of teaching intended to fulfil the needs of the students.
- ✓ Committed and supportive non-teaching staff
- ✓ Academically above-average students use to abide by the rules and code of conduct of the college.
- ✓ Washrooms are adequate and well furnished & maintained for proper cleanliness.
- ✓ Canteen is providing good food.
- ✓ Non-teaching staff members are equipped with newly oriented digital programmes for their day-day work.
- ✓ NSS are active.

Opportunities for Improvement

The college can easily raise the bar of its achievement if the following points are taken care of:

- ✓ Research initiation
- ✓ Publications
- ✓ Innovations in teaching-learning

13. General Conclusion

- The College is maintaining a congenial ambience of quality teaching-learning process.
- Discipline-centric progression of students is satisfactory.
- Overall academic and administrative development stand out as an institution of academic excellence.

14. Declaration

I agree with all the recommendations and observations mentioned in this report.

Date:
Place: Institute of Engineering & Management, Kolkata

Signed by
College Principal with Seal

15. Gratitude

The Committee members feel honoured and take this opportunity to express sincere thanks and gratitude to the College authorities for being invited to conduct the audit. They would also like to express their heartfelt thanks to all the faculty members and support staff for their wholehearted cooperation along with the hospitality that has been extended during the audit.

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Prof.(Dr) Saibal Kumar Mukhopadhyay	**Prof (DR) J K Mandal**	**Prof. (Dr) Subhadip Basu**
……..	……..……..	……..……
Prof. (Dr) Chandreyee Chowdhury	**Prof. (Dr) Debashis Chatterjee**	**Prof. (Dr) Subhash Chandra Panja**