

'KONGU ENGINEERING COLLEGE, PERUNDURAI 638060

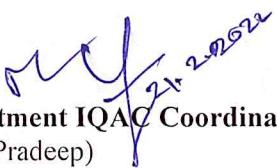
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Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report

Name of the Department :CIVIL

Audit Date :21.09.21

S.No.	Non Conformities/Major Observations	Action Taken
1	Core Civil Engineering subjects need to be given preference compared with computer oriented software courses	Will be considered in the curriculum & syllabi during next revision.
2	In depth knowledge of faculty members need to be improved in their domain	Faculty pedagogy is conducted. Faculties are asked to attend seminars/ workshops/ conference in their domain.
3	In depth core knowledge of student need to be improved	Value added courses & one/ two credit courses planned for the benefit of students
4	More budget amount to be allotted for purchase of equipments	Additional equipments purchased and proposals submitted for new equipments and software.
5	As like software/ coding training, emphasis should be given for core training too ( both theoretical and software)	Placement team arranged core training by external/ internal experts to impart core technical knowledge.

  
Department IQAC Coordinator  
(Dr.T.Pradeep)

  
HOD/CIVIL  
( Dr.P.S.Kothai)  


Sankar Venkatesan Sir

**KONGU ENGINEERING COLLEGE, PERUNDURAI 638060**  
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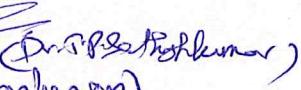
**Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report**

Name of the Department : **Mechanical Engineering**

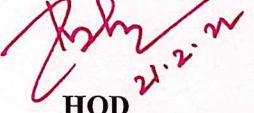
Audit Date : **11.09.2021**

S.No.	Major Observations	Action Taken
1.	More number of funded FDPs may be organized	The faculty are advised to submit more number of FDP proposal to various funding agencies.
2.	Topics may be identified in emerging areas and adequate number of workshops / conferences may be organized	It is planned to organize an International Conference titled "Revolutionary materials and integrated manufacturing techniques" during ODD semester 2022-2023.
3.	Initiative towards providing incentive for faculty having sanctioned R&D project is appreciable. However, the incentive can be enhanced based on the sanctioned amount end complexity of the project.	This proposal had been sent for management for acceptance.
4.	Full time research scholars with monthly stipend will provided for meritorious candidates to enhance research activities in view of promoting the quality research and publications.	The full-time research scholars are recruited with monthly stipend.
5.	Student project can be undertaken in a continual basis under a single guide for getting better publications / patent / product	The suggestion will be implemented in the next academic year.
6.	Project batches may be grouped by having creamy layer students towards improving the quality of the project	
7.	Retired professionals from industry/institutions/organization may be recruited to mentor and handhold faculty to formulate and execute research problems which have good innovative quotient	Retired professionals may be recruited to mentor faculty for improving academic performance.
8.	Mentor system may be extended to junior faculty members, where senior faculty can share their expertise	The class monitoring system is extended with senior faculty.
9.	The number of exercises may be reduced especially in software-oriented laboratories, so that real time problems can be given as case studies	The real time problems are given from the next regulation.
10.	Care should be taken while choosing action verbs for formulating laboratory course outcomes (COs)	The suggestion will be implemented.

11.	Assignment problems that enhance higher order thinking by way of solving real life may be conducted through open book mode	The higher order assignment problems will be introduced in theory/Theory Cum Tutorial/Theory cum Practical courses.
12.	Related industrial standard (BIS) can be explained during conduct of the laboratory course	The BISs is explained in the laboratory course.
13.	Exploring kind of exercises may be introduced at least one per laboratory course	It will be introduced in the laboratory course.
14.	Fabricated or Taylor made experimental setup can be added in the laboratory	It is available in the Laboratories.
15.	The course title of 'Principles of Farm Machines" may be revised and analytical content may be added. Prerequisite to be removed	
16.	Content level in "Climate change and new energy technology" may be enhanced	
17.	The Unit title of "Fundamentals of Research" course may be revised	Suggestions will be introduced in the next Regulation.
18.	PO5 usage for theory courses may be appropriately considered	
19.	In project work courses, the communication parameter may be added in the existing rubrics	
20.	English faculty members may be involved in paper writing and report preparations	

1.  (Dr. P. S. Krishnamoorthy)  
 2.  (N. Balanharan)

Department IQAC Coordinator

  
 21.2.19  
 HOD

Satisfied with the Audit Report

KONGU ENGINEERING COLLEGE, PERUNDURAI 638060

(AUTONOMOUS)

Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report

Name of the Department : MECHATRONICS ENGINEERING

Audit Date : 11.09.2021

S.No.	Non Conformities/Major Observations	Action Taken
1	Dedicated centralized sophisticated instrumentation centre is needed to cater interdisciplinary research among the students and faculty	Proposed to establish instrumentation centre in the forthcoming year.
2.	Have to enhance higher order thinking capabilities of students by incorporating challenging based experiments in all the laboratories	Challenging based experiments can be included only in few laboratories. Out of 10 laboratories, 5 laboratories are used to enhance the student thinking by building real time projects.
3	Frequent Alumini interaction meeting has to be happened	In the Academic year 2020-2021, 12 Alumini interaction programmes were conducted
4	Development of online courses and programmes have to be taken care	Students and faculty are doing online NPTEL and other courses and also actions were initiated to increase the number of participants
5	More functional MOU's with global universities	Steps to be initiated to have functional MOU's with global universities in the forthcoming year.

  
Dr. K. Gomathi  
21/09/22  
Department IQAC Coordinator

[Dr. K. Gomathi]

  
Dr. P. Ravichandran  
21/09/22  
HOD

Dr. P. RAVICHANDRAN

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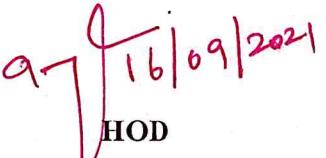
**Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report**

Name of the Department : Automobile Engineering

Audit Date : 11.09.2021

S.No.	Non Conformities/Major Observations	Action Taken
1.	Centre of Excellence & Sponsored Laboratory Not Available/ Less R&D Facilities	Centre of Excellence on Electric Vehicle is initiated (Proposal Submitted to Management)
2.	Workshop/Conference organized is less	International Conference will be held on 09/06/2022 to 10/06/2022

  
10/9/2021  
Department IQAC Coordinator

  
16/09/2021  
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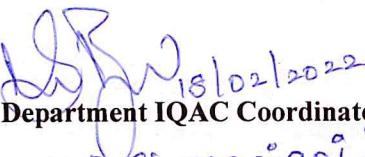
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Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report

Name of the Department : Electronics and Communication Engineering

Audit Date : 11.09.2021

S.No.	Non Conformities/Major Observations	Action Taken
1	Maintenance all laboratories is good	-
2.	Most of the laboratories are under utilized as they are specific to the particular core area/ PG programme	Since few of the labs are programme specific, it will be utilized in the particular semester and for the students project
3.	Number of computer systems is in excess as one PG programme has been closed. Though they are saying that those systems are used for project/research, we are not sure about it. In some labs 40/35/39 systems are available, but the number of students per batch is only 30. This is the major observation.	Particular PG lab is utilized for UG curriculum laboratory introduced in R2018
4.	In programming lab, they want to replace the 16 systems which are obsolete. Alternate solution may found within the department itself, as they are having excess computers	New configuration system is purchased for VLSI laboratory and the old configuration systems are shifted to Communication laboratory for compensating the lab curriculum introduced in R2020
5.	Research activity may be improved as they are having a quite number of costlier equipments/software which are under-utilized	Insisted the corresponding domain group to improve their research activity.
6.	In the FIST project, they are having around 10 SCI/ scopus indexed publications as outcome	-

  
 18/09/2022  
 Department IQAC Coordinator  
 (Dr. P. Sivarajanji)

  
 18/09/2022  
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**KONGU ENGINEERING COLLEGE, PERUNDURAI 638060  
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**Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report**

Name of the Department : Electrical and Electronics Engineering

Audit Date : 17.09.2021

<b>S.No.</b>	<b>Non Conformities / Major Observations</b>	<b>Action Taken</b>
1.	Ceiling fan in house rewinding / repair is in place. Analysis on the number of fans serviced, cause for failure may be studied to rectify the same. Service label with date may be indicated in the serviced fan	Markings are made in the bottom part of the ceiling fan.
2.	Used cables / wires from power house may be reused in laboratories.	Steps are taken to utilize the same from the power house.
3.	IE-3 energy efficient motors may be procured to compare with old machines.	Purchased IE-3 energy efficient motors.
4.	Stock register shall be updated as per the index in few labs.	Instructed to maintain for new registers.
5.	MATLAB 2015 (b) and PSPICE MULTISIM - licensed version available, and up gradation need to be done	Campus licensed MATLAB software purchased.
6.	Number of DSO's may be increased in PE lab to understand the control concepts	2 number of DSO's purchased.
7.	Application based experiments to be included in existing experiment kits. Application based experiments to be scaled up	Steps are taken to introduce new application oriented experiments.
8.	Data sheet to be included in the lab observation, and students should be trained to use the same	Date sheet are made available in the respective laboratory.
9.	Equipment utilization to be strengthened by creating new experiments and for further R&D proposals	New lab is introduced in 2020 regulation for utilizing the equipments available in the lab. Equipments are utilized for pursuing Ph.D. and for R&D proposals.
10.	Few research publications available, but should be scaled up with new concept using available equipments.	Part Time and full time scholars are pursuing their Ph.D. by utilizing the equipment available in the lab and so their publication will be increasing future.
11.	COE industries may be tied up for internship and job offers	Will be executed.
12.	Skill based training to be arranged for faculty & staff	Faculty and staff have identified few areas & undergone training.

Department IQAC Coordinator  
(Dr. V. SURENDRAKUMAR)

A. Balaji  
HOD

**KONGU ENGINEERING COLLEGE, PERUNDURAI 638060**  
**(AUTONOMOUS)**

Non Conformities/Major Observations Listed during the Academic Audit and Action  
 Taken Report

Name of the Department : Electronics and Instrumentation Engineering

Audit Date : 29.09.2021

S.No.	Non Conformities/Major Observations	Action Taken
1.	Laboratory space utilization	Refurbishment is being carried out
2.	Modern equipment usage	Digital Storage Oscilloscopes available. Other suggested equipments may be received during next budget
3.	Utilization of Laboratories for practical classes	All the labs are fully utilized by service departments for the lab courses like BEEE, MPMC
4.	Budget planning, allocation and utilization	Procedures clearly available and utilized properly.
5.	Spectrum Analyzer equipment usage	Equipment is used for students projects. Utilization may be provided
6.	Availability of Purchase records, Issue register, Transfer register, sample records and lab manuals	Available in all laboratories
7.	Technical staff -Not aware about the procedures	May be language problem/hesitation. May be properly guided in future.
8.	Logging of entry and usage in laboratories	Maintained in Computer Centre. But not needed for other laboratories
9.	Policy for asset management and tracking of equipments	Stock verification is done annually
10.	Elaborate system for data entry for teaching learning and keeping a log of individual lectures	May be communicated to the management
11.	Students feedback system- Questions asked to be too broad	May be communicated to IQAC team
12.	Record for mentoring sessions with students	Mentoring system is followed and available
13.	Students Feedback about courses	Feedback system is followed and available
14.	Curriculum revision	Available
15.	Few SCI-indexed publications	Faculty members are encouraged to publish papers in reputed journals. Incentives are provided
16.	Collaborations with national and international institutions.	May be collaborated in future
17.	Students going for Higher studies	All records are available
18.	Placement in core companies and improvement in Higher studies	Concepts classes conducted frequently to all students. Gate coaching classes are also conducted
19.	Patent activities need improvement	Students are motivated to participate in Hackathon events
20.	Research facilities with latest equipments and related publications using the facilities	Centre of Excellence (CoE) is approved. May be followed in future

Department IQAC Coordinator  
 (K.Prabhu)

18/12/2022

18/12/2022  
 HOD

KONGU ENGINEERING COLLEGE, PERUNDURAI 638060

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Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report

Name of the Department : COMPUTER SCIENCE AND ENGINEERING

Audit Date : 18.09.2021

S.No.	Non Conformities/Major Observations	Action Taken
1.	Orientation and Pedagogy for the new faculty members from the department side is missing	Orientation and Pedagogy for the new faculty members was organized at department level with senior faculty members
2.	Faculty member participation in international conference outside Tamilnadu is less	Faculty members are encouraged to submit at least one paper for international conference outside Tamilnadu
3.	Industry Linkage activities / Number of MoUs signed	Faculty members are requested to identify a suitable company for collaborative activities within December 2022.
4.	Number of R&D projects	All faculty members with Ph.D are asked submit minimum one R&D project proposal to various funding agencies within May 2022.
5.	Student participation and success rate in Higher Education	Awareness on GATE, CAT examinations and Higher Studies in abroad were conducted with our alumnus.
6.	Student Entrepreneurship	Motivational talk on Entrepreneurship Development was conducted by our Alumnus
7.	Indexed Journal Publication is less	Faculty members are motivated to publish in indexed journals
8.	Industry executive training programmes conducted is nil	Measures initiated to conduct Industry executive training programmes
9.	Sponsored lab establishment is nil	Establishment of Centre of Excellence in collaboration with Fortinet (Cyber security) is in Progress
10.	SWOT analysis is done but follow up action is missing	Strategy Committee is formed and SWOT analysis is done at regular intervals

R.S.MOHANA  
23/12/2022

Department IQAC Coordinator

( DR. R.S. MOHANA ,  
ASP/CSE )

DR. R.S. MOHANA  
23/12/22

HOD

`KONGU ENGINEERING COLLEGE, PERUNDURAI 638060  
 (AUTONOMOUS)

**Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report**

Name of the Department : Information Technology

Audit Date : 20.09.2021

S.No.	Non Conformities/Major Observations	Action Taken
1	Applying the R&D Proposal is very less	Made compulsory for all ph.D holders to send project proposals in various government agencies.
2	Faculty training is reduced from last year to current year	Due to pandemic period the count is reduced. But faculty keep on updating their knowledge through online training programs (FDPs) and NPTEL courses.
3	Publications need to be improved	Faculties are trying to publish the works in reputed journals. As acceptance is not received within the period, the count looks less.
4	Students project to paper conversion is minimum	Some papers are sent to the Scopus/SCI indexed journals. As acceptance is not received within the period, it is not included. Advised the guides to trigger the project to paper conversion as it is important as research.
5	Higher Studies and competitive examinations need to be improved	Most of the students of the department prefer to job rather than higher studies and writing competitive exams. Students are motivated often to attend GATE exams to acquire PSU jobs
6	Professional society activities to be improved	Due to pandemic period, count is less. For next academic year, more professional activities will be planned.

  
**Department IQAC Coordinator**

(CT·ABIRAMI)

  
**HOD**

**'KONGU ENGINEERING COLLEGE, PERUNDURAI 638060**  
**(AUTONOMOUS)**

**Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report**

Name of the Department : Chemical Engineering

Audit Date : 11.09.2021

S.No.	Non Conformities/Major Observations	Action Taken
	Major Observations in Laboratories:	
1.	Rotameter calibration required (CRE)	Calibration process initiated
2.	Additional equipment required (CRE)	3 Equipment purchased Purchase of 2 equipment under process
3.	New upgraded equipment required (HT)	Purchase order placed for both the equipment
4.	2 Equipment not working (FM)	Both equipment will be condemned
5.	7 Equipment not working (AC)	1 Equipment (Digital Balance) condemned and replaced by new equipment  1 Equipment (Conductivity meter) is under service  5 Equipment (viz., pH probe, Flame Photometer, Hot plate- Round type, Constant Temperature Oil Bath,) are condemned. Sufficient number of standby equipment are available for usage.
6.	Fume board required (AC)	Laboratory is under minor reconstruction and the purchase of fume board will be initiated once the minor reconstruction
7.	FT-IR not working (R&D)	The equipment is condemned and the procurement of new equipment was initiated
8.	Library: To be improved with more books and to be easily accessed	Process for book purchase was initiated through central library

CRE – Chemical Reaction Engineering Laboratory

HT – Heat Transfer Laboratory

FM – Fluid Mechanics Laboratory

AC – Applied Chemistry Laboratory

R&D – R&D Laboratory

*[Signature]*  
Department IQAC Coordinator

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HOD  
24/9/2021

KONGU ENGINEERING COLLEGE, PERUNDURAI 638060  
 (AUTONOMOUS)

Non Conformities / Major Observations Listed during the Academic Audit and Action Taken Report

Name of the Department : Food Technology

Audit Date : 18.9.2021

S.No.	Non Conformities/Major Observations	Action Taken
1	Department computational facility needs immediate improvement, Separate lab is required(Only 8 PC's available in entire department)	The work for separate computer centre has been initiated
2	Budget utilization is very poor(last three years) in 6 labs needs immediate attention	Purchase of Equipments during 2021-22 is in progress
3	Beyond the curriculum, experiments should be added in all laboratories	Virtual lab experiments have been added in laboratories
4	Paper publications and consultancy needs improvement	Faculties are motivated to publish papers and visit industries to identify problems. As on date, 50 % of the target has been achieved in consultancy
	<b>Scope for improvement</b>	
5	Advanced instruments may be added in each lab	Planned to propose the purchase of advanced instruments in the 2022-23 budget
6	Setting up pilot plants wherever possible like 1. Fruits and Vegetable Processing 2. Dairy Processing/Engineering	Analyzing the possibility for setting up the pilot plant in future
7	Quality of publications needs improvement and it is not directed at all levels	Faculty at all levels are motivated to publish in indexed journals
8	UG projects to paper conversion rate is low	9 projects are converted to paper (28%)
9	NABL accreditation process	The requirements for the accreditation is being analyzed
10	Industrial supported lab is missing	Identification of Industry to support Lab is in process
11	Centre of Excellence is required	Identification of area is in process
12	Placement needs improvement(less than 30% comparing approved intake)	As on date, 40% of students with approved intake placed in 2022 batch.

Department IQAC Coordinator  
 A. SUBHA

Clear  
 21/02/2022  
 HOD

**KONGU ENGINEERING COLLEGE, PERUNDURAI 638060**

**(AUTONOMOUS)**

**Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report**

Name of the Department : English

Audit Date : 20.09.2021

S. No.	Non Conformities/Major Observations	Action Taken
1	The department to be enhanced with foreign language faculty	We will try to enhance.
2	Rescheduling of course delivery of PST course	It is implemented in PST-II course
3	Lack of journals for publications	Recommendation sent to Anna university
4	Students expect more hours	It will be done in consultation with CCO Science and Humanities
5	Microphone may be provided for their speaking activities	It will be implemented
6	One class student may be asked to give presentation to other classes	Planning to implement in the forthcoming semester
7	Training in networking is required for non-teaching staff	Request sent to IT department
8	Relocation of one non-teaching staff may be considered	Staff relocated to office
9	In first years it is found that only the curriculum/syllabus based teaching/learning is happening. EPC club is available for participation inside the college. Students may be permitted to participate in outside events.	It will be implemented once the situation becomes normal in this pandemic situation.

  
(I.K. Jefferson)

Department IQAC Coordinator

  
HOD

`KONGU ENGINEERING COLLEGE, PERUNDURAI 638060  
 (AUTONOMOUS)

Observations Listed during the Academic Audit and Action Taken Report

Name of the Department : Mathematics

Audit Date : 21.09.2021

S.No.	Observations by the Audit Team	Action Taken
1	Faculty participation in international conference is very less	Due to pandemic situation, number of conference relevant to our topics organized by various institutions is very less.
2	12 faculty members are approved supervisors of Anna University and the research scholars doing research in Mathematics research centre is less	Students are struggling to clear the entrance exam, at the same time; fees structure is more comparing to the nearby Universities.
3	Number of R& D projects is less and the number of SCI/Scopus papers are less	Lack of PG Mathematics Course is the main reason for less number of R&D projects. Faculty members are trying to Publish more number of Papers
4	Updating the latest technology is needed for faculty members	Faculty members are asked to complete Fundamental Self-Paced Courses in MATLAB
5	Students participation in NPTEL is not encouraging	Informed students about the importance of NPTEL courses and asked them to register.

Department IQAC Coordinator

(Dr. R. Vennila)

R. Viswanathan  
HOD

(Dr. R. Viswanathan)

**KONGU ENGINEERING COLLEGE, PERUNDURAI 638060  
(AUTONOMOUS)**

**Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report**

Name of the Department : Physics

Audit Date : 18-9-2021

S.No.	Non Conformities/Major Observations	Action Taken
1.	Course availability based on Specialized area (As per 2020R) <ul style="list-style-type: none"> <li>Suggestion to upgrade syllabus content with Group 2, TNPSC, UPSC, exam portions</li> </ul>	Planned to offer one-credit, two-credit and open elective courses in the next regulation (R2022).
2.	Availability of Faculty based on Specialized area (September 2021) <ul style="list-style-type: none"> <li>Remarks: Faculty Requirement-2 (current) + 1 (After May 2022)</li> </ul>	Not required as per next regulation (R2022).
3.	Emerging areas identified and its Global relevance <ul style="list-style-type: none"> <li>Apart from Solar Energy Systems, others areas identified by the Department are usual. More emphasis can be provided on pitching into new areas.</li> </ul>	New areas identified The faculty members are pursuing research in the emerging fields of following areas. <ul style="list-style-type: none"> <li>Spectroscopy,</li> <li>Batteries,</li> <li>Laser materials and</li> <li>Nano-materials.</li> </ul>
4.	Any significant innovations in curriculum, teaching, learning and evaluation, research and extension, Academic and Administrative governance introduced by the department: Nil	Regular/Online classes aided with <ul style="list-style-type: none"> <li>PPT and videos.</li> <li>Activity based teaching-learning.</li> <li>Tutorials</li> </ul> MCQ pattern followed for online evaluation.  Apart from the exiting administrative strategy, new administrative authorities may be introduced in future based on the requirements.
5.	R & D (Year-wise details for last 3 years) <ul style="list-style-type: none"> <li>Academic Year (2020-21) Publications (8), Proposals communicated: Project (4) &amp; Seminar (3)</li> <li>Since, total faculty strength is 16 (11 Doctorates) - Individual faculty</li> </ul>	Faculty members are instructed to publish good number of papers in reputed journals, submit research proposals to government funding agencies and also apply for patents. In this connection, the following

	<p>contribution in publications &amp; submissions of proposals is minimal. Needs more improvement.</p> <ul style="list-style-type: none"> <li>• Patents: Needs improvement</li> <li>• Funded R&amp; D projects: 01 (Minor project). The number of quality proposals communicated should be increased as a preliminary action.</li> <li>• Centre of Excellence: Nil</li> <li>• FDPs organized :Nil</li> <li>• Workshops/ conferences organized : 05 (suggested to extend the conference to scopus indexed proceedings or publications)</li> </ul>	<p>groups have been formed.</p> <ul style="list-style-type: none"> <li>• Research group</li> <li>• Activity groups</li> </ul> <p>Moreover, Faculty members are instructed to</p> <ul style="list-style-type: none"> <li>• Find collaborators from other departments of Kongu Engineering College and outside institutions.</li> <li>• Publish papers in Scopus journals instead of publishing in conferences in future.</li> </ul> <p>Instead of conducting FDP, various programmes such as Webinars, Workshops, Seminars, Lecture series and Conferences have been organized. However, appropriate effort will be taken to conduct FDP.</p>
6.	<p>Industry Linkage Activities (Last 3 years)</p> <ul style="list-style-type: none"> <li>• Sponsored labs established : Nil</li> <li>• Consultancy works done for industry/Organization :No recent activities (2020-21)</li> </ul>	Due to Covid 19, number of consultancy works is limited. More number of activities will be carried out in the next academic year by assigning a target to individual faculty members.
7.	<p>List of Equipment / Instrument not in working condition (September 2021)</p> <ul style="list-style-type: none"> <li>• Remarks: 08 instruments- minor problems</li> </ul>	Will be rectified through proper service and maintenance.
8.	<p>Development plan/infrastructure facilities for next 5 years- Need a Clear Plan</p>	<p>Proposed plan is given below.</p> <ul style="list-style-type: none"> <li>• At least 8 SCI journals will be published per year.</li> <li>• 10 Scopus journal will be published per year.</li> <li>• 12 papers will be presented in international conference per year.</li> <li>• 5 R and D proposal will be submitted per year.</li> <li>• 10 Seminar/Conference proposals will be submitted per year.</li> <li>• At least 5 academic events will</li> </ul>

		<ul style="list-style-type: none"> <li>• At least one research project will be realized from suitable funding agency / every three years.</li> <li>• Attempt will be made to carryout good number of consultancy work.</li> <li>• R and D laboratory will be enriched through the funding from government agency and also from our management.</li> </ul> <p>However a detailed plane will be prepared with following details</p> <ul style="list-style-type: none"> <li>• Target</li> <li>• Faculty in-charge</li> <li>• Action planned</li> <li>• Date of completion</li> </ul>
9.	SWOT analysis of the Department (September 2021)-In Place but need small modification (Threats)	Modifications will be implemented.
10.	Observation by the Audit Team <ol style="list-style-type: none"> <li>Latest topics to be taught not to be given as seminar</li> <li>In online mode Laboratory taught with PPT which is not appropriate need to be video presentation.</li> <li>Similarity between school syllabus and our curriculum (Lab) need to be checked.</li> <li>Research performance of individual faculty needs to be improved.</li> <li>Faculty can get aligned with core engineering faculty for joint student projects and publications</li> <li>Laboratory facilities should be improved so that some consultancy works may be taken.</li> </ol>	Will be strictly implemented in the next academic year. Appropriate target will be fixed for all members of faculty of Physics.

Department IQAC Coordinator  
 (Dr. K. Prabu)

HOD  
 (Dr. C. Rangasami)

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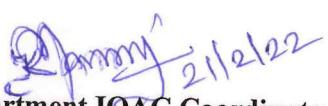
Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report

Name of the Department : **Chemistry**

Audit Date : 21.09.2021

As per the observation made during the academic audit 2021, we don't have any Non-Conformities but we have taken the following action for some observations,

S.No.	Non Conformities/Major Observations	Action Taken
1.	LCD projectors are to be installed in classrooms	Installation of LCD Projectors in the classroom was approved and also installed in some classrooms.
2.	Chemistry faculty can be added as one of the guides/Co-guides in the UG/PG projects in the Engineering departments (in the case of common / relevant fields)	With the approval of Principal, Circular (Ref: KEC/PRI/CIR-138/2021-22, dated on 11-10-2021) was sent to all CCOs, HODs, Faculties and Students which highlights the area of research and facilities available in the chemistry department to offer UG projects.

 21/2/22  
Department IQAC Coordinator

 21/2/22  
HOD

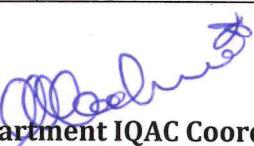
**KONGU ENGINEERING COLLEGE, PERUNDURAI 638060  
(AUTONOMOUS)**

**Non-Conformities/Major Observations Listed during the Academic Audit and Action Taken Report**

Name of the Department : **Management Studies**

Audit Date : **16.09.2021**

S. No.	Non-Conformities/ Major Observations	Action Taken
1.	Placement to be improved	More Number of Placement Training classes are scheduled.
2.	Data Analytics- more courses may be offered with R and Python	List of new analytical courses will be identified and the same to be included in curriculum.
3.	More exposure in Data analytics need	
4.	More Industry Guest Lectures may be conducted	Faculty Members are advised to conduct at least one subject wise guest lecture in future
5.	Student Project to paper maybe improved	Students are instructed to convert their projects to papers with the help of their guide.
6.	Industry Interaction should be improved	More number of MoUs planned through which industry interaction can be improved.
7.	Data collection by system may be improved	It has been considered and the data collection method is improvised
8.	Journal subscription may be expanded	Library Coordinator initiated the process of subscription of journals and press reader
9.	Press Reader- may be purchased	
10.	More elective papers may be offered	New courses were identified and discussed in BOS.
11.	Teaching methodology should be changed	
12.	Reduce PPT usage	Activity based teaching learning planned.
13.	Toilet Cleaning – very poor	Steps taken to improve the cleanliness
14.	Parking problem	Discussed with concerned authorities to arrange for parking facilities.
15.	Trimester system implementation	Outcome of the Trimester pattern will be analyzed in coming years for necessary action
16.	Bridge Courses maybe offered in Finance, Accounting, Data Science	The bridge course for Accounting and Data Science is already in progress. For others, it will be considered and implemented after discussion with the domain faculty members
17.	Assignment should be given with faculty coordination (single day 3 or more courses are given)	Assignment scheduling done in common meeting
18.	Computer system maybe up-graded	New computer systems are installed.

  
**Department IQAC Coordinator**

  
**HOD**

**'KONGU ENGINEERING COLLEGE, PERUNDURAI 638060**  
**(AUTONOMOUS)**

**Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report**

Name of the Department : Computer Applications

Audit Date : 11.09.2021

S.No.	Non Conformities/Major Observations	Action Taken
1.	Online courses, Self Learning	Students are encouraged to enroll in Online courses like NPTEL, Udemy and Coursera
2.	Coding Skill Training	<ul style="list-style-type: none"> <li>1. Coding Club has been established in the month of Nov'2020 and conducted various activities to enhance the coding skill of the students.</li> <li>2. One month training programme has been conducted in the month of December.</li> <li>3. Practicing coding in example portal is mandatory for C programming course.</li> </ul>
3.	Placement Training	<ul style="list-style-type: none"> <li>1. 3 Days Soft Skill Training programme was arranged on January' 2021.</li> <li>2. One month technical training was arranged during month of December 2021</li> <li>3. Alumni Inputs has been provided for the students to have awareness about the latest trends in IT industries.</li> <li>4. Group Discussion has been practiced among students during placement class hours.</li> </ul>
4.	Average Placement	80% of students placed during the academic year 2021-2022
5.	Laboratory Computer System Upgradation	Purchase order was issued to replace all the computer systems in the laboratory.
6.	Faculty Expertise	<ul style="list-style-type: none"> <li>1. Faculty members registered in NPTEL courses and attended many FDPs to expertise in their domain.</li> </ul>

		<p>2. Rotation based subject allotment has been made, so that all faculty may get expertise in more than one area.</p> <p>3. IoT Lab has been established and first level training was conducted for the faculty members.</p> <p>4. MATLAB software has been installed and 3 courses were allotted for each faculty members to get train in that area.</p>
7.	Faculty Domain Group	<p>Groups have been framed based on the domain to prepare proposals on their expert area for various funding agency.</p> <p>Review committee for student projects has been framed based on their expert area.</p>

M. JAGADEESAN  
 Department IQAC Coordinator  
 (Dr. M. JAGADEESAN)

22/12/22  
 HOD

‘KONGU ENGINEERING COLLEGE, PERUNDURAI 638060

(AUTONOMOUS)

Non-Conformities/Major Observations Listed during the Academic Audit and Action Taken Report

Name of the Department : Computer Technology - UG

Audit Date : 18.09.2021

S.No.	Non-Conformities/Major Observations	Action Taken
1	Availability of faculty in specialized areas is minimum.	Faculty undergone training on the areas like Data Science, Information Technology & Applications, Networks and Protocols, Block Chain Technology.
2	R&D Project submission status	Faculties are instructed to submit more R&D proposals.
3	Research Areas may be identified, and special interest group may be formed to collaborate with inter/intra departments.	Research group formed based on the area of specialization
4	Project work format and content to be improved	Will be followed in next academic year project work.
5	Statistical tools and training needed in Mathematics subjects	MATLAB tool installed and planned to show demonstration on solving differential equation, finding EIGEN value and vectors, plotting graph.
6	Charts may be prepared to depict the hierarchy of courses in the curriculum and to map the curriculum with the skill set for placement/ Higher studies and showcase in prominent location to inspire the students	New Employability courses PST – I & PST II are included in new curriculum to enhance the programming skills of the learners. BOS Coordinators and Building in charges are instructed to implement the same.
7	In laboratories, charts/flex boards can be displayed/ showcase the configuration / topology / networks also highlight the relevance of experiments with real world application systems	Lab in charge and course coordinators are instructed to prepare relevant flex board and showcase the same.  Work under Process.
8	Number of WIFI access point can be increased	Proposal submitted.
9	Training on latest software tools is needed for non-teaching staff	<ul style="list-style-type: none"> <li>• Data Entry operator are instructed to attend training on document formatting tools</li> <li>• Technical non teaching staff attended Training on IoT related software (Arduino and Raspberry pi)</li> </ul>

*S. Kavitha  
22/2/2022*

Department IQAC Coordinator

[Dr. S. KAVITHA BHARATHI]

*DR. KAVITHA BHARATHI  
22/2/2022*

HOD

**'KONGU ENGINEERING COLLEGE, PERUNDURAI 638060**  
**(AUTONOMOUS)**

**Non-Conformities/Major Observations Listed during the Academic Audit and Action Taken Report**

Name of the Department : Computer Technology-PG

Audit Date : 17.09.2021

S.No.	Non Conformities/Major Observations	Action Taken
1.	Coaching for competitive examinations: Student participation in competitive examination is poor.	Students are more inclined to placement.
2.	Lab experiment manuals to be arranged with a set of real-life sub-problems to improve the student skill in real-life problem solving with different scenarios or case-studies.  In lab records: a) Flowchart/algorithm steps missing, just coding lines reproduced. b) Different input/output (testcases) and results need to be incorporated. c) Team project can be encouraged to solve real-life problems.	The suggestions will be incorporated for forthcoming lab classes.
3.	Project work format need to be improved with IEEE (SRS) format to be on par with industry.	Till now the common template given by the CoE is followed for project documentation work.
4.	As per revised curriculum, revised manuals and hands-on training needed for effective teaching. Faculty self-improvement is not effective. Knowledge on latest technology is poor. Knowledge on current trends/tools and application areas is lacking in their subject handling.	Faculty members are identified and motivated to attend more training towards emerging technologies.
5.	Students lack in programming and communication skills especially first year and students from commerce background.	To improve the programming skill set of the students programming in C language is practiced through online portal from first year itself. Through coding club continuous coding practice and contest are conducted to enrich the programming skill set of the students.
6.	Faculty research focus and specialized lab setup participation is to be improved.	Faculty members identified their research interest and working towards it.
7.	Interaction with outside world (including peer	Faculty members are suggested to

S.No.	Non Conformities/Major Observations	Action Taken
	departments) needs improvement.	collaborate for their research work.
8.	Membership in professional bodies or societies and to be improved	Faculty members are insisted to become member in various professional bodies.
9.	Data Entry Operator may be trained for document format conversion, ERP, Email security, WWW phishing and other security problems.	Staff members are asked to learn different data entry tools by attending appropriate training.

C. Jai  
**Department IQAC Coordinator**  
[C. JAMUNADEVI]

*8/8/2022  
21/2/2022*  
**HOD**

## 'KONGU ENGINEERING COLLEGE, PERUNDURAI 638060

(AUTONOMOUS)

## Non Conformities/Major Observations Listed during the Academic Audit and Action Taken Report

**Name of the Department : Electrical Maintenance**

Audit Date : 18.02.2022

S.N o.	Non Conformities/Major Observations	Action Taken
1.	Zero Export Facility for SPV Individual Inverter control is to be Provided for Solar Plant	Zero Export Device Installed in HT Service premises on 06.10.2021 for EEE, ECE & Admin Block Solar Plant as Individual Inverter control.
2.	LT Services need Zero Export Device for Better Utilization	Quotation Called for Civil Block Solar to Installed zero Export Device, After Installed this one others also to be Process
3.	AC Units temperature setting is to be kept in 25 C for reduce the power consumption	All AC Units temperature setting was kept in 25 C
4.	Found more number of UPS & Battery. These to be Converted as big units	In S&H building 9 UPS (60 KVA) Removed and Provide 30 KVA single UPS effectively. Approval Process on going for another Buildings.
5.	All class room ceiling fan may be connected as centralized single regulator in each class rooms for reduce the power consumption	One Class room ( EEE 301) fans connected in one regulator for study purpose. After that Implement as all class rooms.
6.	UPS, Battery may be kept in AC room to increase the life time	It may be done latter after Install the centralized UPS
7.	Electrical store in separate place as per power house norms	Unwanted old materials shifted to Deeran Hostel under ground area .
8.	Servo Transformer for Lighting and fan for increase the life & reduce the energy	This will be provide after erection of separate cables for lighting load.. Now no cable is provided..
9.	Need 5 – 6 ITI Person and avoid Single Operator in Shift	3 ITI Persons appointed as Electrician cum Plumper.

*Chennai P. T. J. 2022*  
 Campus Electrical Engineer.  
*✓ IS VIBRATION*

*A.R. 18/2/22*  
 Campus Officer

*WJ  
18-2-22*