

KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)
(Established Under Section 3 of UGC Act, 1956)

Pollachi Main Road, Eachanari Post, Coimbatore - 641 021, Tamil Nadu, India. Phone: 0422 - 2980011- 14 | Fax: 0422 - 2980022 | Email: info@kahedu.edu.in

6.5.2. DOCUMENTS PERTAINED TO QUALITY ASSURANCE INITIATIVES

- 2. Academic Administrative Audit (AAA) and follow up action taken
 - I. Academic Year 2019-2020
 - i) External Academic Audit from 07.03.2020 to 29.06.2020

REGISTRAR
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Academic Audit is a tool for examining and enhancing the quality of academic aspects of Higher Education Institutions. It is a mechanism to examine and enhance the quality of academic aspects of institutes of Higher Education. Usually it is systematic and scientific process. It lays emphasis on the designing, implementing, monitoring and reviewing the quality of services provided by the academic institutions. It aims at reviewing the performance of the academic inputs with respect to quality assurance.

Internal audit is an in-house operation for self-introspection. NAAC has suggested institutions to establish Internal Quality Assurance Cell (IQAC) as the internal agency for quality assurance. The task of self-introspection and preparing self-study report is assigned to IQAC. Hence, IQAC in every institution needs to play the role of internal academic auditing agency. Therefore the role of IQAC in the process of self-assessment i. e. one type of academic audit is vital.

Further it was understood that Academic Audit (AA) is a method of assessing the efficiency and effectiveness of the operating system of the administrative procedures, policies, decision making authorities and functionaries, strategies, process, feedback, control mechanism and so on. The AA would certainly make the functionaries to ascertain the strength and weakness of the operating system in general and pin out the areas in particular, and to ascertain where the function is stagnated and affected, and where special attention is required along with man and material resources."

The Need for Academic Audit:

The Academic Audit is needed for following:

- 1) To confirm that the arrangements for quality assurance are fit for purpose and conform to the institution's vision and mission.
- 2) To provide assurance that the standards of higher education align with expectations.
- 3) To ensure that students have access to appropriate learning opportunities through taught provision and supported learning.
- 4) To promote and enhance high quality teaching and learning.
- 5) To confirm that students are fully supported in their academic and personal development.
- 6) To advance the highest possible levels of student achievement.
- 7) To encourage strategic developments that enriches the curriculum and enhances students' opportunities for employment and career development.

Major objectives of Academic Audit:

1. To understand the existing system in KAHE and assess the strengths and weaknesses of the Departments and to suggest the methods for improvement for overcoming the weaknesses.

- 2. To identify the bottlenecks in the existing mechanisms and to identify the opportunities for academic reforms.
- 3. To evaluate the optimum utilization of resources.
- 4. To suggest the methods for continuous improvement of quality keeping in mind criteria and reports by NAAC and other bodies.
- 5. To Monitor Teaching and learning process in KAHE

IQAC organised an Academic and Administrative Audit (AAA) for the Academic year 2019-2020 between 07.03.2020 to 29.06.2020 for all the Departments of KAHE.

The list of external experts who have been appointed to perform the AAA is as follows:

| S.No | Department audited | Date of | Name/Address of the |
|------|------------------------|------------|------------------------------------|
| | | Audit | external Expert |
| 1 | Biochemistry | 14.03.2020 | Dr.J.Angayarkanni, Professor, |
| | | | Department of Microbiology, |
| | | | Bharathiar University, Coimbatore |
| 2 | Biotechnology | 14.03.2020 | Dr.J.Angayarkanni, Professor, |
| | | | Department of Microbiology, |
| | | | Bharathiar University, Coimbatore |
| 3 | Chemistry | 14.03.2020 | Dr.R.Nandhakumar, |
| | | | Associate Professor, |
| | | | Department of Chemistry, |
| | | | Karunya Institute of Technology, |
| | | | Coimbatore |
| 4 | Computer Science & | 26.06.2020 | G.Padmavathi, Professor, |
| | Computer Application | | Department of Computer Science, |
| | | | Avinashilingam Institute for Home |
| | | | Science and Higher Education for |
| | | | Women.University, Coimbatore |
| 5 | Electronics and | 14.03.2020 | Dr.S.Kalamani, Professor of |
| | Communication Systems | | English, Aviniashilingam Institute |
| | | | for Home Science and Higher |
| | | | Education for Women, Coimbatore |
| 6 | Mathematics | 14.03.2020 | Dr.R.Nandhakumar, |
| | | | Associate Professor, |
| | | | Department of Chemistry, |
| | | | Karunya Institute of Technology, |
| | | | Coimbatore |
| 7 | Microbiology | 16.03.2020 | Dr.J.Angayarkanni, Professor, |
| | | | Department of Microbiology, |
| | | | Bharathiar University, Coimbatore |
| 8 | Physics | 14.03.2020 | Dr.R.Nandhakumar, |
| | | | Associate Professor, |
| | | | Department of Chemistry, |
| | | | Karunya Institute of Technology, |
| | | | Coimbatore |
| 9 | Automobile Engineering | 14.03.2020 | Dr.K. Soorya Prakash, |
| | | | Assistant Professor, |

| | | | Anna University Regional |
|-----|--------------------------|------------|---|
| | | | Campus, Coimbatore |
| 10 | Biomedical Engineering | 14.03.2020 | Dr.A.Soundarajan, Professor, |
| | | | Department of Electrical and |
| | | | Electronics Engineering, PSG |
| | | | College of Technology, Coimbatore |
| 11 | Biotech (FoE) | 13.03.2020 | Dr.C. Meiraj, |
| | | | Associate Professor, |
| | | | Department of Civil Engineering, |
| | | | Government College of |
| | | | Technology, |
| | | | Coimbatore |
| 12 | Chemical Engineering | 17.03.2020 | Dr.C. Meiraj, |
| | | | Associate Professor, |
| | | | Department of Civil Engineering, |
| | | | Government College of |
| | | | Technology, |
| | | | Coimbatore |
| 13 | Civil Engineering | 13.03.2020 | Dr.C. Meiraj, |
| | | | Associate Professor, |
| | | | Department of Civil Engineering, |
| | | | Government College of |
| | | | Technology, |
| | | | Coimbatore |
| 14 | Computer Science & | 07.03.2020 | Dr.M.Abdul Rahiman, Managing |
| * ' | Engineering | 07.03.2020 | Director, Kerala State Centre for |
| | Engineering | | Advanced Printing and Training, |
| | | | Trivandrum |
| 15 | Electronics and | 14.03.2020 | Dr.A.Soundarajan, Professor, |
| | Communication | | Department of Electrical and |
| | Engineering | | Electronics Engineering, PSG |
| | Engineering | | College of Technology, Coimbatore |
| 16 | Electrical & Electronics | 14.03.2020 | Dr.A.Soundarajan, Professor, |
| 10 | Engineering | 11.03.2020 | Department of Electrical and |
| | Engineering | | Electronics Engineering, PSG |
| | | | College of Technology, Coimbatore |
| 17 | Food Technology | 13.03.2020 | Dr.C. Meiraj, |
| 1 / | 1 ood 1 cennology | 13.03.2020 | Associate Professor, |
| | | | Department of Civil Engineering, |
| | | | Government College of |
| | | | Technology, |
| | | | Coimbatore |
| 18 | Mechanical Engineering | 14.03.2020 | Dr.K. Soorya Prakash, |
| 10 | Wicehamear Engineering | 17.03.2020 | Assistant Professor, |
| | | | Anna University Regional |
| | | | Campus, Coimbatore |
| 19 | Science & Humanities | 07.03.2020 | Dr.M.Abdul Rahiman, Managing |
| 17 | Science & Humanines | 07.03.2020 | Director, Kerala State Centre for |
| | | | |
| | | | Advanced Printing and Training, Trivandrum |
| 20 | Architecture | 17.03.2020 | Ar.N.Kirubashankar, HoD- |
| 20 | Architecture | 17.03.2020 | |
| | | | Ranganathan, School of |

| | | | Architecture of Architecture ,Coimbatore |
|----|----------|------------|--|
| 21 | Pharmacy | 29.06.2020 | Dr.S.Mohan, Principal, Karpagam |
| | | | College of Pharmacy, Coimbat |

This audit was focused on the academic performance of the departments covering all the activities. The following were taken as the audit criteria.

- i) Curricular Aspects
- ii) Teaching, Learning & Evaluation
- iii) Research, Innovations & Activities
- iv) Infrastructure & Learning Resources
- v) Student Support & Progression
- vi) Governance, Leadership & Management
- vii) Institution Values & Best Practices

Follow up action taken by the Departments

| S.No | Department audited | Comments by the Auditor | Follow up action |
|------|---|---|--|
| 1 | Biochemistry | All the relevant documents are available | It also will be updated in daily basis |
| | | The presentation of document under each | The work has been completed |
| | | questions need to be tabulated and presented for easy verification. | |
| 2 | Biotechnology | All the documents for most of the Criteria have been well maintained. Year wise tabulation of documents has to be done for ready reference. | The suggested comments have been carried out in all documents for ready reference. |
| 3 | Chemistry | To apply for funding by sending project proposal. Research publication | Project proposals will be sent to DST The quality and quantity of the publication will be increased |
| | | Patents and commercialisation | Patent proposals will be made |
| | | Automation of course files | Will be Discussed with the automation Coordinator |
| | | Research facilities (Major Equipments) | Facilities will be improved in the laboratories |
| | | New programs to be offered. | Will be taken out in the forthcoming Board of Studies. |
| 4 | Computer Science & Computer Application | Flexibility in curriculum, adoption of LOCF at UG/PG level | UGC Curriculum framework followed Choice Based Credit System |

| | | Students centric learning methods of teaching at course level Promotion of technology enhanced learning through online course preparation for SWAYAM platform, creation of technical resources. Industry linkages for student support and skill enhancement Faculty tie-up with R & D and international organizations, institutions for research, development and consultancy for global exposure Identification / focus on best practices, vision, mission, goals of the department | Syllabus framed ensures students for global competitiveness Curriculum is designed in such a way that graduate attributes are attained. Student centric teaching methods like Group Discussion, Role Play and Problem Based Learning are practised. Internet Facility, Wi-Fi facility for students, Extra Lab Sessions for online course preparation are available MoU with CDAC Pune, CDAC Thiruvanathapuram. are already in place. Also, industry Collaboration with TCS, Oracle through ICT, Accent Technosoft, Altitudes was made. To be done in the forth coming semester Collaboration with International Universities, Create Centre of Excellence in thrust areas of Computer. |
|---|---|--|--|
| | | | |
| 5 | Electronics and Communication Systems | Projects proposal could be sent and to have patent rights Department to be Strengthened with additional staff | Since there was no admission from the academic year 2017-2018 the available staff members are sufficient to handle the workload of the department. |

| | | | At present there was no projects to apply for patent rights |
|---|--------------|---|--|
| 6 | | Publications | Number of Publications are increased for this academic year. This will increase in future because Faculty Members with Ph.D increased. |
| | | Patents | We will plan in future. |
| | | Fundings | We are in the process of writing proposal. |
| | Mathematics | MoU's | One MoU signed and we are planning one more for the academic year 2020-2021. |
| | | New programmes | We are not planning in the near future. |
| | | Students to clear competitive exam | Students are undergoing coaching for the competitive exam. |
| | | To conduct Workshop / Conferences / Seminars. | Two webinars are conducted, Four more are planned for the academic year 2020-2021. |
| 7 | Microbiology | The document have been maintained | Maintained as per planned NAAC file number |
| | | The Cataloguing of document year wise need to be done for easy reference and verification | Catalogued all the document year wise |
| | | Some features like collaborative research need to be addressed more. | Communication started to initiate collaborative research with Kerala veterinary and animal Sciences University, Mannuthy, Kerala. |
| 8 | Physics | Funded projects | 3 DST Project submitted. Will be increased in the upcoming years. |
| | | Good Quality Papers | 4 nos journals are published faculties are encouraged to publish in WoS. |
| | | Interdisciplinary Research | Faculties are actively collaborated with interdisciplinary Research with various institutions and start-ups. |
| | | Complete Automation of Course Files | Course files are automated. |
| | | Commercialisation of Patents | Start up and Patent filing are motivated. |

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|----|---------------------|-------------------------------|-------------------------------|
| | | Practical Problems oriented | Curriculum has been |
| | | Curriculum | updated with the current |
| | | | state of art industry need |
| | | | and problem oriented. |
| | | Industry connect | Industry Collaboration and |
| | | | In-Plant training are planned |
| 9 | Automobile | Advanced Research | It is planned to have dry |
| | Engineering | laboratories have to be set | sand abrasion tester and |
| | | up so as to enable the | rotating beam fatigue tester |
| | | faculty to file patents / | which can be added in the |
| | | improvise consultancy | existing Leonardo research |
| | | | centre for tribology |
| | | Advanced Software to | It is planned to have |
| | | enrich testing facilities may | MATLAB software which |
| | | be created. | enables automotive |
| | | | engineering to accelerate |
| | | | vehicle development |
| | | | processes regarding safety, |
| | | | comfort, fuel economy, and |
| | | | performance. |
| 10 | Biomedical | For Value added course | Test and Feedback analysis |
| | Engineering | conducted, a performance | to be carried out. Specific |
| | | analysis to be done | Suggestions will given for |
| | | | further improvement |
| | | Slow learners follow for | Before and After CIA test, |
| | | improvement | Special coaching classes |
| | | | will be scheduled. |
| | | Consultancy and Extension | Hospitals and Healthcare |
| | | activity to be improved | Industries are approached |
| | | | for problem definition. |
| | | | |
| | | | |
| | | | Two out reach activity is |
| | | | planned.1. Health check up |
| | | | camps 2.Personal Hygiene |
| | | | Awareness camp |
| | | Faculty / student | All the final year students |
| | | publication to be improved | are requested to publish an |
| | | publication to be improved | article. |
| | | | article. |
| | | | Faculty members are |
| | | | directed to publish in |
| | | | Scopus/Web of science. |
| | | Collaborative research to be | Faculty research expertise |
| | | initiated | will be shared with other |
| | | | departments and common |
| | | | research problem will be |
| | | | identified to initiate |
| | | | collaborative work. |
| 11 | Biotech (Faculty of | The overall arrangement of | The existing practice will be |
| | Engineering) | the Academic audit file for | sustained. |
| | | the department of | |
| 1 | 1 | | |

| | | Piotochnology was nost | 1 |
|----|----------------------|----------------------------------|--------------------------------|
| | | Biotechnology was neat and good. | |
| | | It was observed that more | Student centric methods are |
| | | students – centric method | |
| | | have been followed. | helpful to keep them |
| | | nave been followed. | engaged, and the learning |
| | | | process is enhanced due to |
| | | | improved interaction by |
| | | | students. All faculty will |
| | | | follow the same in the |
| | | | upcoming semesters. |
| | | The research activities and | i)Planning to improve |
| | | publication of research | collaborative research |
| | | papers has to be improved. | ii)Create positive research |
| | | | culture among the students |
| | | | Improve research |
| | | | infrastructure by purchasing |
| | | | additional equipment. |
| | | More no of faculty | Each faculty will enrol |
| | | members have attended | NPTEL courses |
| | | NPTEL courses. | |
| | | Best practices may be | i)Social initiative by |
| | | included in the forthcoming | students |
| | | events. | ii) Department level Best |
| | | events. | outgoing students awards |
| | | | |
| | | | are being provided each |
| | | | year to motivate them |
| | | | further and this practice will |
| | | | ultimately motivates the |
| | | | juniors. We will continue |
| | | | the same for the next |
| | | | semester as well. |
| 12 | Chemical Engineering | The files for the Academic | All the files will be updated |
| | | Audit for the Chemical | for the upcoming semester |
| | | Engineering Department | |
| | | was presented neatly. | |
| | | All the Curricular Aspects | Feedback Analysis will be |
| | | and Teaching, learning and | updated for the upcoming |
| | | Evaluation process are | semester |
| | | implemented | |
| | | The Research activities and | The final year project works |
| | | the projects works are to be | will be updated in upcoming |
| | | included in the forthcoming | semester |
| | | <u>-</u> | Schlester |
| | | One Mol Lie planned during | Dlanned to Approach |
| | | One MoU is planned during | Planned to Approach |
| | | this academic year | various industries |
| | | Since the Department was | The outcome will be |
| | | started during the year | updated in the coming |
| | | 2016, the outcome of the | semester |
| | | students were to be | |
| | | measured after the year. | |
| | | Best Practices to be | Planned for production of |
| | | identified. | commercial products in the |
| 1 | | | upcoming semester |
| | | | |

| 13 | Civil Engineering | The arrangement of file for | Will continue to maintain |
|----|--------------------|---|---|
| 13 | Civil Engineering | academic audit was good. | the system |
| | | Overall the observation was | Will maintain the same |
| | | good. | , , , , , , , , , , , , , , , , , , , |
| | | All the files index is need | Instructed to all the faculty |
| | | to be placed in the front | members to follow up the |
| | | page and to be attested by | file indexing properly |
| | | the concerned HOD of | Sr ry |
| | | programme. | |
| | | The faculty awards may be | |
| | | considered for the | It has been implemented for |
| | | recognition received by the | the faculty members in the |
| | | faculty members in the | Dept. |
| | | institution | |
| | | Lab facilities for the last | |
| | | five year purchased | In the upcoming academic |
| | | equipments need to be | year, Dept. has planned to |
| | | name plated along with | the work |
| | | AMC records. | |
| | | For the full time research | Full time research scholar |
| | | scholars they can be shown | showed as Research |
| | | as research associates in | associate |
| 14 | Computer Science & | the department. Appreciate the academic | Each faculty member has to |
| 14 | Engineering | activities of faculties and | plan for several academic |
| | Eligilicering | students. | activities in the subjects |
| | | students. | what they teach. |
| | | Records are proper and | Each faculty member is |
| | | maintained | assigned to take care of |
| | | | certain criteria of |
| | | | department records. |
| | | Encourage the students for | Mini projects will be given |
| | | project based / outcome | from 2 nd year onwards. |
| | | based learning | |
| | | More publication in SCI | A target to be set with at |
| | | journals are required | least one paper per Faculty |
| | | | member to be published in |
| | | | SCI journals in their |
| | | | domain. |
| | | Concentrate on founded | Faculty members with |
| | | projects. | Ph.D., are assigned to get |
| 15 | Electronics and | Faculty higher Studies | the funded projects. |
| 13 | Communication | Faculty higher Studies- Strength to be increased | Non-PhD faculty members are requested to pursue PhD |
| | Engineering | Suchgui to be increased | within next semester |
| | Luginceing | Value added course- to be | Test and Feedback analysis |
| | | Strength wed and more to | to be carried out. Specific |
| | | be organized. | Suggestions will given to |
| | | organizou. | students further |
| | | | improvement |
| | | Slow learners- follow up | Before and After CIA test, |
| | | and improvement to be | Special coaching classes |
| | | recorded. | will be scheduled |
| İ | ı | | |

| I | I | Concultancy activities need | Prochure along with Fourth |
|----|-----------------|---|---|
| | | Consultancy activities need to be Strengthened | Brochure along with Faculty Expertise are circulated to various electronics and |
| | | | communication Industry. |
| | | Feedback received from | Feedback with gap analysis |
| | | faculty to be reviewed and | will be done. |
| | | gap analysis to be mode. | |
| 16 | Electrical & | Indexing of files to be | Instructed Faculty Members |
| | Electronics | enhanced / Bar chart to be | to follow Indexing of files |
| | Engineering | filed | and include Bar chart. |
| | | Funding for R & D | Two No. of. R & D Projects |
| | | projects to be received | were submitted to DST and |
| | | | it is Under Progress. |
| | | Patent publication by | Advised Faculty Members |
| | | students / Faculty | to work for Patent |
| | | | publication and also |
| | | | students are encouraged to |
| | | | work in innovative project |
| | | | for Patent publication. |
| | | Extension activity to be | For the Forthcoming |
| | | improved | Semester minimum Two |
| | | | No. of. Extension Activity |
| 15 | P 1 P 1 | 4.11.1 | to be conducted. |
| 17 | Food Technology | All the course files were | The same practice will be |
| | | neatly arranged | followed. |
| | | Remedial courses were | Remedial classes will be |
| | | arranged for slow learners | continued for slow learners. |
| | | and software training to be arranged for the advanced | For advanced learners, we |
| | | learners. | will first analyse their |
| | | icariicis. | interests and accordingly the |
| | | | training will be arranged. |
| | | | Statistical tools training will |
| | | | be given. |
| | | Since the Food Technology | (i) Now students will be |
| | | programme was started | entering into pre-final year, |
| | | during the year 2018, The | skill based programmes will |
| | | student outcomes and | be provided. |
| | | research activities are not | |
| | | able to quantify | (2) Motivate the students to |
| | | | attend conferences, |
| | | | seminars and workshops |
| | | | (3) Industry visits will be |
| | | | 1 1 |
| | | | arranged. |
| | | | (4) Research proposal are |
| | | | under preparation. |
| 18 | Mechanical | Establishment of | It will be planned in future |
| | Engineering | competitive Examination | |
| | _ | coaching cell in mechanical | |
| | | Addition of two more | Additional smart class |
| | | Smart class rooms | rooms will be formed |
| | | | |

| 19 | Science & Humanities (Support Department) | Interdisciplinary projects like e-vehicles, machine learning, IoT etc may be encouraged Modernisation of labs and purchase of Advanced softwares should be carried over for experiential learning of students. Satisfactory work in this department. As a supporting Department, concentrate on study basic ideas among students with practical | It will be planned in next academic year Material science research lab established in Mechanical dept. Will concentrate on the lagging part and work hard to make the department excellent. Internship is made mandatory. Industrial may be arranged. |
|----|---|--|--|
| | | Stress on funded projects required More activities on Soft Skill and Career Guidance is required. | Faculty will be motivated to write project proposals and apply for funded project Competitions to enhance soft skills and Seminars on Career Guidance will be conducted. |
| 20 | Architecture | Faculty of Architecture, has further potential to outdo its own standing with a little more support and encouragement. The Department is growing and the infrastructure to be | Support received from the management and we are going ahead with the department Improvement/Renovation work as per the plan Yes, it is updated |
| | | updated to the need. | Yes, our faculties have published papers in national and international journals as well as in conferences and are moving ahead with more research papers |
| | | The students are knowledgeable and are susceptible to change in the latest trends in the design fraternity and makes the department proud. | Yes, the students are learning and intervening on latest trends in the design fraternity |

| 21 | Pharmacy | Course files are not updated | The faculties are instructed |
|----|----------|------------------------------|------------------------------|
| | | for some subjects | to complete and submit the |
| | | | files. |
| | | | Action taken to write new |
| | | Stock register for chemicals | stock register for chemicals |
| | | and glass wares are to be | and glass wares in store as |
| | | prepared in a proper format | well as in each laboratory. |
| | | | Work has been started |
| | | | Here after our faculties are |
| | | Faculty members have to | encouraged to participate |
| | | | more Seminar and FDP |
| | | | programs conducted by |
| | | attend seminars and FDP | other colleges and |
| | | | institutions. |
| | | | All are attending more |
| | | | webinars and FDP |
| | | | programmes also. |
| | | | |

Director, IQAC