Minutes of the
12th Meeting of IQAC
(Online)

INTERNAL QUALITY ASSURANCE CELL (IQAC)
T.K.M. COLLEGE OF ENGINEERING, KOLLAM-5
18th August 2021

Minutes of the 12th Meeting of IQAC
T. K. M. College of Engineering, Kollam – 691005
Online meeting (Link: https://meet.google.com/ogt-hoka-ovn)
Date & Time: 18/08/2021 at 10:45AM

Agenda:

A1. General remarks on the Constitution of new IQAC and the phase change
A2. Confirmation of minutes of previous IQAC meeting
A3. Action taken report based on previous meeting
A4. Report on activities and initiatives of IQAC
A5. Reporting of academic and research activities
A6. Suggestions / Feedback of members
A7. Any other matter permitted by the Chairman of IQAC

Members:

Dr. T. A. Shahul Hameed (Chairman, IQAC)	(Attended)
Dr. M. Haroon (Member, TKM Trust)	(Attended)
Mr. Afsal Musaliar (Industrialist, MD Supreme group Kollam)	(Attended)
Dr. Gopakumar K (IETE, Person of local society)	
Dr. Anu V Thomas (Professor, CE, TKM CE)	(Attended)
Prof. Preetha Basu (Associate Professor, EC, TKM CE)	(Attended)
Dr. Muhammed Siddik A (Assistant Prof., CE, TKM CE)	(Attended)
Prof. Syed Muhammed Fahd (Assistant Prof., ME)	(Attended)
Prof. Syed Muhammed Fahd (Assistant Prof., ME)	(Attended)
Mrs. Bindu Shafi (Junior Superintendent, TKM CE)	(Attended)
Mr. Afsal AM (Senior Clerk, TKM CE)	(Attended)
Er. P. Anil Kumar, CTO, TKM Infotech (Employer)	(Attended)
Dr. TS Krishnakumar (Alumni Member)	(Attended)
Dr. Adarsh S. (Coordinator, IQAC)	(Attended)

IQAC Coordinator   **IQAC Chairman**

The Meeting started at 10.45AM in hybrid mode such as physical presence at TKM Trust office and Google Meet platform. Principal (the Chairman of IQAC), formally welcomed the members. Principal made general remarks on IQAC, appreciated the exemplary service rendered by Dr. Sadiq A and team. He made a briefing on the new IQAC and welcomed Dr. Adarsh S, the new IQAC coordinator.

A1. General remarks on the Constitution of new IQAC and the phase change

Dr. Adarsh made remarks on summary of IQAC activities and its importance in this phase change, as the college has applied for academic autonomy. Principal added that the objectives and responsibilities of IQAC during this phase change of TKMCE to make a Centre of excellence.

A2. Confirmation of minutes of previous IQAC meeting

IQAC Coordinator presented the minutes of the previous meeting held on 23/11/2020. The committee discussed various aspects presented in the minutes. During the discussion principal clarified the following:

(a) UG program of Production Engineering got provisional accreditation for 3 years from NBA. College has filed appeal in NBA on the result given for the UG program in Chemical Engineering.

(b) Budget for the financial year 2020-21 was presented in BoG and BoG has approved the budget.

(c) The new AMS, ETLAB was identified because of its capability to handle admissions, fee payments, TC issue and office administration along with academic and research data. The committee approved the minutes after focused discussion on the minutes.

A3. Action taken report based on previous meeting

Action taken report of 11th Meeting presented by the Principal

Action taken report based on previous meeting

Sl. No.	Suggestions	Action Taken
1.	Dr. M. Haroon Suggested that the college should plan for post Covid support of the society. Principal informed that the college has very actively responded to the need of the society. We have developed medical ventilator and has submitted to the district medical council. Universities has recognised our efforts to support the society in fighting Covid-19. The college developed fund and given to the government. The activities of the Covid war room setup at the collectorate was	An amount of 4Lakhs was contributed from the college supporting the Covid Vaccination challenge of the TKM College Trust
We deeply mourn the souls departed from us, including our student Mr. Sooraj Krishna of Computer Science branch. We supported Mr. Sooraj Krishna's Family by channelizing an amount of Rs. 14.4 Lakhs, also with the support TKM College Alumni

	supported by our staff and students. Considering all these AICTE has awarded the college the Certificate of Excellence, "AICTE – Utkrisht Sansthan Vishwakarma Award – 2020' ("India Fight Corona") and recognized this college in position 3 among all institutes in India which supported the society in fighting Covid-19.	.
2	Dr. A. Sadiq suggested that a content development centre and an educational broadcasting channel should be established in the college with appropriate recording and editing facility in a studio. This can be used to support the needy learners of the society by providing online education. Principal opined that this suggestion is in alignment with the institution development plan. He confirmed that this facility will be established. Dr. Annie John supported the suggestion by Dr. Sadiq and added that our college should start MOOC kind of courses.	In this phase change of academic autonomy, we will be definitely considering this suggestion. We are in the process of improving the features of our Academic Management System (AMS) ETLab. Also, the academic autonomy will give us flexibility to us in add-on courses. At this stage such features will be implemented
3.	Prof. S. M. Fahd suggested that a regular platform should be provided to students to publish and present articles right from their first year, so that their communication skill and additional knowledge would be better by the time they reach final year. He also suggested that we should develop automated methods to analyse the available data regarding academics and research so that our analysis and policy decision can be improved.	Regular platform for publishing/ communication skill is yet to implement Regarding collection of documents on academics and research, an excel Excel based system is developed to collect the list. Collected a database on faculty and students' credentials of 2016-21 is now available on desk. Few departments started maintaining Google drive system to store the supporting documents. It is decided to maintain the supporting documents with D-Space facility purchased by the Central Library of TKM CE
4.	Mr. Azad Rahul commented that students use IEDC, IEEE and other professional platforms to enhance their communication and interpersonal skills and for overall development	TKM Toastmasters club members participated in events like Humourous speech contest, Evaluation contest and Table Topics contest in April 2021 TKM CE Global Alumni network organized a Toastmasters demo meeting in July 2021 Toastmasters international is conducting a programme called speech craft for the pre final year students of ASCE students

		chapter
		IEEE has organized Ideathon, Cross Sword (Debate), Skill Acquisition programme, Imprint for Idea Presentation and many other competitions
		Our CGPU trainings provide a wide range of activities for enhancing the communication and interpersonal skills of students
		A workshop on 'Soft skill development-Communicate to Connect' was organized under TEQIP during February 15-25, 2021
5.	A new website for the college will be launched in January 2021	A new website is launched. It is integrated with ET Lab.

Principal mentioned that content development and data collection will be made through a single channel using the D-Space facility in Central Library. Principal also commented that requested the support of IIIC, Chavara in institute development plan.

Prof. SM Fahd mentioned about the data retrieve for college website using ET Lab profile. He suggested that the students fee collection and examination logistics to be connected with AMS.

Principal commented that the absence of physical presence of students in the campus have influenced adversely in improving the number of publications.

There were some limitations for communication skill development among the students due to their absence in the physical presence in the campus even though activity hours are provided in the time table.

A4. Report on activities and initiatives of IQAC

The Coordinator presented the activities and initiatives of new IQAC. The presented reports are attached as **Annexure-A and B** and the following discussions were occurred based on the reporting:

Principal mentioned that the NBA accreditation of PG programmes has been extended up to 30th June 2021.

The webinar by Prof. Sivakumar V., NITTTR, Bangaluru organized for the curriculum committee members was much useful, since college is developing the curriculum under academic autonomy. Such training programmes must be conducted to develop an improved curriculum in an autonomous system.

Dr. Adarsh S. reported that the Annual Students Satisfaction Survey (SSS) finished the report presentation of IQAC 2020-21. Dr.Haroon mentioned that the comments in the SSS should be critically analyzed and need to be addressed to improve the system.

Principal emphasized that IQAC did a big task during 2020-21. Documentation and verification process for NIRF Ranking submission has been systematically worked.

Principal added that AICTE distinguished professor lecture series by Prof. PremVrath, Retired professor of IIT Delhi was successfully completed and most of the faculties and staffs actively participated in them.

Academic Performance 2020-21

Principal reported the highlights of academic performance of the students passed out during AY: 2020-2021. On comparing the admission criteria of CET and TKMCE, Department of Civil Engineering has exemplary result. Mr. Afsal Musaliar reported that the performance of Chemical and Electrical department needs to be reviewed and improved. Principal addressed that the issue discussed among the departments and follow up has been taken.

Placement Status 2020-21

Principal reviewed the placement detail of 2020-21 batch presented by the Coordinator and reported that some more results are waiting, which may come after September 2021. Core companies were also selected students from the campus has been appreciated. Dr. Haroon commented that, concept of placement team were structured seven years before and the present team did appreciable hard work to get this outstanding achievement.

Research and Consultancy

Dr. Adarsh presented the research data and mentioned the outcomes of international collaborations. The research funding has been reduced in compared to previous year due to the restrictions on sanctioning the funds by the Government due to Covid 19. A cross checking is needed in Rs.25, 42, 500/-. A planned attempt needs to made in improving the funding.

Principal mentioned that Prof. Kasthuri Rangan, former professor from IISc will give service for drafting the project proposal and contact to focus in Research funding. IQAC need to act immediately to enhance the research funding of the institution, which will reflect in the ranking.

Dr. Adarsh pointed about the AICTE approval of IDEA Lab, one among the 49 institutions from all over India. Principal appreciated about the exemplary coordination of Dr. Muhammed Sadikh to achieve IDEA lab.

Principal also commented that Dr. M Sirajuddin, Retired Professor from the Department of Civil Engineering has been appointed as Consultancy Head. Laboratories have to be well equipped and investment did to increase the consultancy. The consultancy in other departments needs to be ensured. Dr. Haroon mentioned on the community services by different departments during pandemic. He mentioned about the World Bank scheme for rejuvenation of Ashtamudi Lake. Principal commented that Civil Engg faculties are involved in the project as well as Pamba river rejuvenation project. Dr.Haroon represented that Chemical department can actively involve in Environmental consultancy for Munro island project. Principal mentioned to submit a proposal for the expenditure for appointment of MSc/Biotechnologist for manpower requirement to enhance the consultancy in Chemical Engineering department.

The committee appreciated the activities of IQAC.

A5. NAAC- AQAR of the academic year 2020-21

The coordinator reported that NAAC-AQAR prepared for the academic year 2019-20 was uploaded by the previous IQAC and we have received the communication regarding its acceptance. Coordinator informed the committee that the process of preparation of AQAR for the academic year 2020-21 will be started on the month of September 2021.

A6. Suggestions / Feedback of members

Principal invited the suggestions from members of IQAC and following discussions were occurred :

Mr.Anilkumar, CTO TKM Infotech mentioned that faculty to be the point of contact for consultancy and students need to be actively involved in testing and analysis. A leadership by temporary faculties also needs to be assigned. Faculties to be upgraded and incubation centres to be identified. Students can start their own company. Since we are moving for academic autonomy, the syllabus content to be based on industry requirement and provide the text book availability can be changed. To make the needful difference from KTU, content to be relevant based on IT and technology is booming and offer high salary for candidates. The proposed curriculum should address reducing the gap between industry and academia.

Autonomy Curriculum

Principal informed that the draft curriculum is under development and relevant topics can be included in curriculum. Industry changes to be incorporated and timely implementation by fixing a time frame is essential. He requested opinions and the cooperation from all members in identification of faults of the system and its imrovization. Principal requested Mr.Anilkumar to provide a brief writeup on the same

Prof. SM Fahd suggested that the reach out in industry to be increased. About consultancy, area of expertise needs to be identified and to be reported with industry, the details to be projected in website, possible collaboration should be developed by ensuring a gradual involvement of all faculty.

Dr.Muhammed Siddik commented on the documentation for statutory bodies. To improve the data collection from various department facility like D-space and Server system for document sharing can improve. A mutual coordination between IQAC and DQACs may help in this process.

Dr. Krishnakumar mentioned that conventional laboratories have to equipped for consultancy. He mentioned on the difficulty in conducting physically in the present condition, CAD lab and CAD solutions to be provided and students' exposure to be utilized. He allso pointed the benefits and utilization pan of IDEA lab.

Prof. Firoz mentioned that identifying the industries offering stipend to students during the internship to be incorporated. A monthly e-bulletin to be published based on the opinion/comments from experts can be included and it will be a motivation for faculties about their achievements.

Dr. Anu V. Thomas represented that measures need to be taken for motivation to the faculty, for the implementation of performance appraisal etc. and the course feedback to be structured.

The technical support for the meeting was rendered by System Administrator Mr. Anvar Muhammed and team, TKM CE

The meeting ended at 12.15 PM.

1. **ANNEXURE – A: Report on activities and initiatives of IQAC**
2. **ANNEXURE – B: Reporting of academic and research activities**

Annexure A: Activities and Initiatives:

The activities and initiatives by IQAC after the previous IQAC meeting are:

1. This IQAC started functioning in March 2021. Excellent initiatives to channelize the activities of IQAC, made by Dr. Sadiq A and the team are acknowledged. The IQAC coordinated the last phase of NIRF 2021 submission and the result of the same is awaited

2. Accreditation status of PG programmes in Mechanical Engineering (IRCE) and Civil Engineering (SE&CM) has been extended till 30 June 2021 by NBA.

3. Submitted for India Today Ranking 2021. We stood (i) First place in Engineering College for Best Value for Money; (ii) the colleges offering lowest fee; (iii) positioned at 98th place in the Private Engineering Colleges (Over 200 colleges all over India were listed for ranking)

4. The Annual Quality Assurance Report (AQAR) for the AY 2019-20 in February 2021 to the NAAC in final form and the same is approved. The preparation of AQAR2020-21 is expected to commence in September 2021, after the UGC team visit for sanctioning academic autonomy

5. The institution has submitted the Application for Academic Autonomy status in December 2020. The preparations for the UGC team visit are in progress. The document collection and its final level verification is completed

6. Coordinated training on "Developing the Curriculum and Syllabus Accounting OBE concept" on 10th August 2021. Er Sivakumar V, Associate professor, NITTR handled the session.

7. As one of the key initiative, we introduced the Excel based system for documentation on faculty /students credentials. Collected a database on faculty and students' credentials of 2015-21 is now available on desk. Some departments started maintaining the corresponding supporting documents in Google drive. It is being planned to link with D-Space purchased by central library of TKM CE to store the supporting documents.

8. All classes are being conducted through the single AMS ETLab. Live online classes are being conducted through Google Meet as per published schedule. ETLab by Etuwa Concepts Pvt. Ltd. is the AMS of the campus. Monitoring and improvisation of its

performance in different levels is in progress. Some of the key issues related to the appearance of website (related to faculty credentials is in place)

9. Conducted student satisfaction survey (as per the template published by NAAC) for all the final year students of 2021 batch

10. The faculty credentials of 2020-21 are collected.

11. E-Auditing of all the completed semesters and pending is performed on 11th August 2021

18/08/2021   Coordinator

Remarks by Principal:

ANNEXURE – B: Report on Academic and Research Activities

ACADEMICS

a) University Results 2017 – 21 Batch:

The overall pass percentage for the college is 79.4 % (609/767). Compared to the performance with previous years pass percentage has shown a marked increase of 7%.

- TKMCE could secure first position in Civil Engineering (Vidya A - CGPA 9.95), Vighnesh Hari (Mechanical Production- CGPA 9.7) Ashwin Pradeep (Electronics and Communication Engg. CGPA-9.95)

In the top 10, the following are the positions bagged by the college:

Branch	Highest CGPA	Positions
Civil Engineering	9.95	1,2,3,4,5
Mechanical Engineering	9.94	2,3
Mechanical Production	9.70	1,2,3
Computer Science Engineering	9.96	3
Electrical & Electronics Engineering	9.87	4,6
Electronics & Communication Engineering	9.95	1,6
Chemical Engineering	9.65	4

There is a substantial increase in the number of honours degree produced by the college. TKM College of Engineering stood first in number of students who became eligible for B. Tech (Honours) degree, when the B. Tech results of the 2017-21 batch were announced. 350 students of the college became eligible for B. Tech (Honours) against 242 and 114 in the last two years. This achievement is very special because the system could maintain its excellence amidst the chaos of a paradigm shift in academic delivery and the changes adopted in the unprecedented background of CoViD-19 pandemic.

TKMCE stands 2nd in Academic Performance Index (API) with index 6.957 even while making a very high number of students (767) registered for the exam.

b) Placements:

The 2017-21batch received an ever time record number of placements and more than 75% of the students who opted placement got selected in various companies. The average salary and the highest salary increased by 0.5 lakhs and 7 lakhs over that of the last academic year

Placement record for past three academic years

No		2018-19	2019-20	2020-21
1	No of companies visited	56	39	60
2	No of offers	478	540	664
3	No of students placed	341	402	417
4	Average salary	4 LPA	4 LPA	4.5 LPA
5	Maximum salary	18 LPA	11 LPA	18 LPA
6	No of training programs organized	6	5	7

(B) RESEARCH (Data of the previous years adopted as such from IQAC report):

Journal Publications			
Impact Factor	**Year 2018-19**	**Year 2019-20**	**Year 2020-21**
<1.5	30	38	16
1.5- 2	8	11	8
2- 2.5	1	10	8
>2.5	10	21	18
Total	49	80	50

Patents				
	Year 2017-18	Year 2018-19	Year 2019-20	Year 2020-21
Filed			1	8
Published	2		2	
Granted		1		1

Year	SCI Indexed	Scopus	Others	Total
2018-19	20	35	18	73
2019-20	33	27	29	89
2020-21	38	30	21	89

International collaborations

International collaborations attained a new phase in the previous year, with new MoUs and outcomes. A few examples to highlight are :

- We could get into MoUs with Four universities, including University of Leeds (UoL), UK which ranked within 100.

- One student completed Ph.D. from Kookmin university. One student of 2019 Mechanical Engg. branch got admission at UoL for masters programme with scholarship.

- We could join in a proposal submission under Belt & Road Scheme of Chinese Ministry of Earth Science, with Prof. Vahid Nourani, University of Tabriz Iran.

- 17 SCI publications resulted though collaborations, our faculty as co-authors.

- Four students of Civil Engg. branch got opportunity to complete online internship at University of Philippines Las Banos.

Research and Consultancy Funding (Data of the previous years adopted as such from IQAC report)

Research Funding (in Rupees)			
Item	**Year 2018-19**	**Year 2019-20**	**Year 2020-21**
External	27,26,000	35,06,600	20,35,500
TEQIP- II	5,73,000	17,48,300	5,07,000
Others	1,10,000		
Total	34,09,000	52,54,900	25, 42, 500

- TKM College of Engineering, Kollam selected among the 49 colleges in India for setting up AICTE-IDEA Lab. Total budget will be 82 Lakh, out of which under IEDC & IIC, TKMCE supported in submitting the proposal of 41 Lakhs and AICTE will sanction 41 Lakh.

Consultancy (in Rupees)			
Sl. No	**Year 2018-19***	**Year 2019-20**	**Year 2020-21**
1.	24,20,000	39,80,968	41,77,602

*From IQAC Report