



## INTERNAL QUALITY ASSURANCE CELL

KITS/IQAC/Meet/4685/2020

Date: November 24, 2020

Minutes of the 18th IQAC Meeting held on 24<sup>th</sup> November 2020 at 04.00 p.m.  
through Online G-Meet

### Members Present

1. Dr. P. Mannar Jawahar, Vice Chancellor, Chairman
2. Dr. E.J. James – Pro-Vice Chancellor (SO)
3. Dr. Ridling Margaret Waller - Pro-Vice Chancellor (QS)
4. Dr. Lazar T. Mathew, Pro-Vice Chancellor (PPI) – Spl Invitee
5. Dr. R. Elijah Blessing - Registrar
6. Dr. A. John De Britto, Controller of Examinations
7. Dr. G. Prince Arul Raj – Dean, School of Engineering and Technology
8. Dr. C. Joseph Kennady – Dean, School of Sciences, Arts, Media and Management.
9. Dr. C. Samuel Joseph, Management Studies and Commerce
10. Dr. E. Grace Mary Kanaga – Computer Science and Engineering
11. Dr. D. Raveena Judie Dolly – Electronics and Communication Engineering
12. Dr. B. Jebasingh – Chemistry
13. Dr. S. Immanuel Alex Pandian – Electronics and Communication Engineering
14. Dr. S. Vincent Sam Jebadurai, IQAC Co-coordinator
15. Dr. D. Tensing – Director – QAA
16. Dr. L. S. Jayagopal - Managing Director, Mithran Structures, Coimbatore
17. Mr. P. Jeyasingh - CTO, Jasmin Infotech, Chennai
18. Dr. S. Devaraj Arumainayagam, Associate Professor - Govt. Arts College, Coimbatore
19. Dr. P. Sweety Jose - EEE Dept., PSG College of Technology

Sl. No	Details Discussed	Action to be taken by
1	The meeting started with an Opening Prayer by Dr. D. Tensing	FIO
2	Dr. P. Mannar Jawahar, Vice Chancellor welcomed all the External and Internal members of the IQAC for the meeting.	FIO
3	Opening Remarks by the Dr. Ridling Margaret Waller - Pro-Vice Chancellor (QS)  She presented the following Quality Initiatives of KITS  <b>A. Online Teaching and Learning</b>  The accomplishments of the faculty members of the Institution in connection with the Classes conducted online during the lockdown period	FIO

are as given below:

Interactive Online Classes: 5086 Video Lectures (2818 – E&T; 1689 – SSAMM; 579 – SAB) were prepared by faculty members in various disciplines during April 2020 and posted in Google Classroom.

Regular online classes in Google Classroom were held since 3<sup>rd</sup> August 2020.

Orientation/Induction Program was conducted online for around 2000 first year UG and PG students. Practical sessions were conducted through Virtual Laboratories.

## **B. Online Evaluation**

### 1. Internal Assessment

The III Internal Assessment for the Odd Semester was conducted online.

### 2. End Semester Examinations – July 2020

The end semester examinations were conducted through Karunya Examination Platform (KEP) developed by Computer Technology Centre of KITS.

Features of KEP

Artificial Intelligence proctored; enabling students from across India to appear for the online examination using a laptop / iPad.

Lockdown browser to prevent the incidence of malpractice during the online examination.

The Attendance was 97.2 % and Pass Percentage 95.4 %

## **C. Online Graduation 2020**

Graduation was held online on 17<sup>th</sup> October 2020 and the significant accomplishment are shown below:

No. of Graduates	2014
Rank Holders	113
UG Degree	1668
PG Degree	262
Doctoral Degree	82

## **D. QS I-GAUGE E-LEAD CERTIFICATION**

KITS participated in QS E-Lead certification process conducted by QS I-GAUGE for efficiently engaging the students and faculty through virtual platform with adequate IT support systems facilitated by a comprehensive

FIO

IT policy.

KITS was awarded 144 points out of 150 for its exemplary performance based on the qualifying parameters such as Student-Faculty Engagement, Learning Management System, Information Technology Support and Best practices in Information Technology.

### **E. Admissions**

2269 students were enrolled during 2020-21, compared with 1696 students admitted during 2019-20.

### **F. Pre-qualifier approved for NBA**

The NBA Accreditations process is in progress for following eight programs and the pre-qualifiers were approved by NBA for six programs to proceed with the submission of SAR. For two more programs the submission of pre-qualifier is in progress.

#### Pre-qualifiers Approved

M.Tech. Computer Science and Engineering

M.Tech. VLSI Design

M.Tech. Biotechnology

MBA

B.Tech. Aerospace Engineering

B.Tech. Food Processing and Engineering

#### Applications Submitted

M.Tech. Structural Engineering

B.Tech. Biomedical Engineering

### **G. Research**

The H-Index of Web of Science and Scopus indexed Publications are 52 and 54 respectively. The Highest Impact of the publication of our faculty member is 14.6.

### **H. Patents**

The number of patents published during the last three calendar years are shown below. The number of patents published has significantly increased in 2020 as given in table:

Details of Patents Published		
2020	2019	2018
37	16	3

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### **I. Funded Projects Sanctioned**

The details of funds sanctioned during the academic year 2019-20, the value of ongoing projects and the income generated through Consultancy activities are as given below:

Total amount sanctioned through funded projects	237.85 lakhs
Total value of ongoing project	10.6 crores
Income generated through Consultancy	2.1 crores

### **J. Transfer of Technology: Products**

During the lockdown period, the faculty of KITS worked on products development and the following are the list of few products.

1. KaVID
2. Rain KITS
3. Dried Banana Peel

### **K. Seed Grant**

KITS granted seed money for the faculty members to pursue their research works as shown below:

Total amount of seed research grant sanctioned	5.72 lakhs
Total No. of faculty benefitted	83

### **L. Karunya Technology Missions**

KITS has identified 25 thrust areas of research as Karunya Technology Missions as new initiative for enhancing the multidisciplinary research activities. The faculty members were grouped into the above missions according to their area of research for better outcome.

### **M. Faculty Awards**

The following three faculty members received significant awards:

1. Dr. Nirmal D, Head of the Department of Electronics and Communication Engineering – Young Achiever’s Award, IE Coimbatore Chapter
2. Dr. Sneha Gowtam, Assistant Professor in Civil Engineering – Young Achiever’s Award, IE Coimbatore Chapter
3. Dr. Immanuel Selvakumar, Head of the Department of Electrical and Electronics Engineering - Top 2% of Scientists List of Stanford University

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	<p><b>N. IAESTE - KITS Collaborations</b></p> <p>36 students of K I T S s t u d e n t s went abroad for international internships and 34 international students from various countries visited KITS for their internships.</p> <p><b>O. Student Achievements in Competitive examinations</b></p> <p>62 students have qualified themselves in various competitive examinations such as GATE, CAT, GRE, TOFFEL and others.</p> <p><b>P. Students Achievements in Sports and Extension activities</b></p> <p>8 student teams have received awards for sports and games and 10 students received awards for the extension activities.</p>												
4	<p><b>IQAC Presentation:</b></p> <p>The Director – Quality Assurance and Accreditations presented the following:</p> <p>1. NIRF2020 Ranking</p> <p>It was informed that KITS ranked 80<sup>th</sup> in Engineering domain among 1071 institutions participated in the ranking.</p>	FIO											
5	<p><b>Annual Report</b></p> <p>The Annual Report for the Academic year 2018-19 was prepared and placed in the Planning &amp; Monitoring Board and submitted to UGC.</p>	FIO											
6	<p><b>QS I-GAUGE STAR RATING</b></p> <p>KITS participated in the QS I Gauge Rating which is an Indian Rating system by QS International Ranking in order to prepare the institutions to participate in the QS Indian Ranking and subsequently QS International Ranking.</p> <p>Data for participating in QS I Gauge Rating (Indian Rating system by QS International Ranking) was submitted on 22<sup>nd</sup> August 2020. KITS was awarded with “GOLD” Rating. The criteria wise rating are as shown below:</p> <table border="1" data-bbox="326 1539 1166 1843"> <tr> <td>Employability</td> <td rowspan="5">DIAMOND</td> </tr> <tr> <td>Facilities</td> </tr> <tr> <td>Research</td> </tr> <tr> <td>Social Responsibility</td> </tr> <tr> <td>Teaching &amp; Learning</td> </tr> <tr> <td>Faculty Quality</td> <td>GOLD</td> </tr> <tr> <td>Student Diversity</td> <td rowspan="2">SILVER</td> </tr> <tr> <td>Entrepreneurship</td> </tr> </table>	Employability	DIAMOND	Facilities	Research	Social Responsibility	Teaching & Learning	Faculty Quality	GOLD	Student Diversity	SILVER	Entrepreneurship	FIO
Employability	DIAMOND												
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Research													
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7	<p><b>Course File Audit and Action Taken Reports</b></p> <p>For the odd Semester 2019-20, the Course Files documents were obtained from the faculty members in the form of PDF and being sent to External Experts for Evaluation.</p> <p>Key Observations from the Course file auditing of Even semester 2018-19</p> <ul style="list-style-type: none"> <li>• CO attainment process needs to be improved</li> <li>• Understanding level of Bloom’s Taxonomy to be enhanced</li> <li>• Digitizing the procedure for preparation of Course Files</li> <li>• Innovative teaching practices to be adopted</li> <li>• The Quality Assessment in Internal Evaluation to be diverse.</li> <li>• More Industrial visits and Industry-Institute Interactions in connection with the Courses</li> </ul>	IQAC to monitor the comments of External Experts and ensure improvement
8	<p><b>Online Student Feedback Survey on Faculty performance</b></p> <p>Online students’ feedback survey on teaching learning process was floated for both the odd and even Semesters of the academic year 2019-20.</p> <p>For the even semester of the Academic year 2019-20, feedback was obtained for “Online Classes” by revised set of questions.</p>	FIO
9	<p><b>NAAC Accreditation–Preparation of SSR</b></p> <p>It was informed that the process of NAAC Accreditation will proceed as per the schedule:</p> <ul style="list-style-type: none"> <li>• The Accreditation for the period from 25 May 2016 to 24 May 2021</li> <li>• The Submission of IIQA &amp; SSR to be followed as per guidelines of NAAC</li> <li>• The preparation of SSR is in progress.</li> </ul>	IQAC
10	<p><b>Percentage of faculty with PhD</b></p> <p>The percentage of faculty with PhD has significantly increased to 83% due to the regular monitoring by the Pro – Vice Chancellor (RC) and his team.</p>	FIO
11	<p><b>No of publications in Scopus and Web of Science indexed journals</b></p> <p>The number of publications in Scopus has considerably increased during the calendar year 2019 and the number of publications for NIRF 2021 reached 2235 in comparison with 1536 publications for NIRF 2020</p>	FIO
12	<p><b>Patents</b></p> <p>The patents filed and published increased considerably in 2020 and the total patents filed and published so far is 72</p>	FIO
13	<p><b>No of PhD scholars graduating</b></p> <p>84 Ph.D. scholars graduated during the academic year 2019-20 which is significantly higher than the scholars graduated during the earlier years.</p>	FIO

14	<p><b>Remarks and suggestions of External Experts:</b></p> <p>The following comments were given:</p> <p><b>Dr. L.S. Jayagopal, Managing Director, Mithran Structures</b></p> <p>He enquired whether Blooms taxonomy is being followed for the questions prepared for the online examinations. CoE pointed out that while uploading the question papers, the faculty need to specify the bloom's taxonomy and Course Outcome of each question.</p> <p>He enquired the student representatives of IQAC, about the effectiveness of the Online classes and the students expressed their satisfaction about the classes except for the network issues. They also stated that the interaction with the faculty members is effective during the classes.</p>	COE
15	<p><b>Dr. P. Sweety Jose, Asst. Professor, PSG College of Technology</b></p> <p>She appreciated the efforts put in by the institution in achieving increase in admissions during the pandemic period and also regarding 62 students who passed out in competitive examinations.</p> <p>To the question, whether analysis of results were done in comparison with the physical examinations and online examinations, CoE of KITS answered that in regular examinations different sets of question papers containing short answers, paragraph answers and essay type answers used to be asked whereas in online examinations only MCQs were asked. The students need to answer 50 questions in a duration 2 hours. He also stated the percentage of participation of students in online examinations is 97.2% which was better than conventional examination in the midst of network issues. He also informed the pass percentage of online examinations was 95.4% which was again greater than the conventional examinations.</p> <p>To the question whether the students feedback conducted through online contain standard set of questions, the Director, QAA answered that 5 questions covering all the components of teaching and learning such as content delivery, innovative practices, quality of interaction, evaluation process and modern tools in teaching were framed and with the approval of Institute administration is being floated among the students through online. The questions were also prepared in accordance with the QS ELEAD certification requirement.</p> <p>With regard to her question on Laboratory Classes through online mode, the Dean (E &amp; T) pointed out that two types of laboratory practices are being implemented during this lockdown period. There are no issues for all computer based laboratories and drawing classes. For laboratories where readings are to be taken, virtual laboratories are being adopted. However for few laboratories which involves titration, fabrications and casting, the laboratory classes are postponed to the subsequent semester.</p>	FIO

	To the question how students access the software for their laboratories, it was informed that the students have access to the Computer Centre of the Institution.	
16	<p><b>Mr. P. Jeyasingh, Chief Technology Officer, Jasmin Infotech</b></p> <p>He appreciated the work done by the faculty members during the pandemic time. Then he stated about the current scenario of the market place and how the students need to be mentored.</p> <p>He emphasized for changes to be incorporated in the questionnaire of Course file auditing based on the outcome expected based on the present trends. The questionnaire must address on the percentage of coverage of syllabus and the improvement with respect to earlier semesters, feedback of the students including even effective network connectivity for online classes available in their locations, the action taken on noncompliance by the faculty based on the earlier feedback, and the improvement in the quality of question papers with respect to earlier semesters.</p> <p>The issues from the auditing need to be classified into different categories to monitor the improvement specifically to ensure significant improvement like that was practiced in industry.</p>	IQAC
17	<p><b>Dr. S. Devaraj Arumainayagam, Professor in Mathematics, Government Arts College, Coimbatore</b></p> <p>He stated that "NAAC committee gives more importance to the content and up-dation of syllabus. Moreover, Universities are modifying the syllabus in such a way that each paper has a case study unit and a unit that will be exclusively handled by industry experts and visiting faculty. Also as suggested by Auditors, live case study problems need to be given under Probability and Numerical papers."</p>	IQAC
18	The meeting ended with vote of thanks by Dr. E.J. James, Pro Vice chancellor – Research and Collaborations	



**Director – QAA**

Copy to:

The Vice Chancellor  
The Pro Vice Chancellor (QS)  
The Pro Vice Chancellor (R & C)  
The Registrar  
The Deans/HoDs  
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### INTERNAL QUALITY ASSURANCE CELL

#### Action Taken Report on the minutes of 18th IQAC Meeting held on 24th November, 2020

S. No.	Item Discussed	Action taken
1	Whether Blooms taxonomy is being followed for the questions prepared for the online examinations.	While uploading the question papers, the faculty need to specify the bloom's taxonomy and Course Outcome against each question. This practice is being implemented effectively even for the online examinations
2	Whether analysis of results were done in comparison with the physical examinations and online examinations?	In regular examinations different sets of question papers containing short answers, paragraph answers and essay type answers used to be asked whereas in online examinations only MCQs were asked. The students need to answer 50 questions in a duration 2 hours. The percentage of participation of students in online examinations is 97.2% which was better than conventional examination in the midst of network issues. He also informed the pass percentage of online examinations was 95.4% which was again greater than the conventional examinations.
	Whether the students feedback conducted through online contain standard set of questions,	5 questions covering all the components of teaching and learning such as content delivery, innovative practices, quality of interaction, evaluation process and modern tools in teaching were framed and with the approval of Institute administration is being floated among the students through online. The questions were also prepared in accordance with the QS ELEAD certification requirement.
	How the Laboratory Classes are conducted through online mode? How can the students access to the Computer Centre of the Institution?	Two types of laboratory practices are being implemented during this lockdown period. There are no issues for all computer based laboratories and drawing classes. For laboratories

		where readings are to be taken, virtual laboratories are being adopted. However for few laboratories which involves titration, fabrications and casting, the laboratory classes are postponed to the subsequent semesters.
3	<p>Changes to be incorporated in the questionnaire of Course file auditing based on the expected outcome based on the present trends.</p> <p>The issues from the auditing need to be classified into different categories to monitor the improvement specifically to ensure significant improvement like that was practiced in industry.</p>	It is being implemented
4	He stated that "NAAC committee gives more importance to the content and updating of syllabus. Moreover, Universities are modifying the syllabus in such a way that each paper has a case study unit and a unit that will be exclusively handled by industry experts and visiting faculty. Also as suggested by Auditors, live case study problems need to be given under Probability and Numerical papers."	It is being implemented



Director - QAA

Copy to: The Vice-Chancellor – for kind information  
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