

Minutes

8th Academic Council Meeting of KLE Technological University,

Hubballi, Karnataka

2nd March, 2019



KLE Technological University
(Established under Karnataka Act No.22, 2013)

The following are the minutes of the Academic Council Meeting of KLE Technological University, Hubballi, which was held on 02-03-2019 at 10.00 am at the Senate Hall of the University.

The following Members were Present.

Sr	Name	Designation	Position
1.	Dr Ashok Shettar	Vice Chancellor	Chairman
2.	Dr Lokesh Boregowda	Director, Vision Research	Member
3.	Sri KNS Acharya	VP KPIT Technologies	Member
4.	Dr. Manjunath D	Prof IIT, Bombay	Member
5.	Dr Satyajit Majumdar	Professor, TISS Mumbai	Member
6.	Sri Vivek G Pawar	Chairman Sankalp Semiconductors Hubballi	Member
7.	Prof B L Desai	Registrar	Member Secretary
8.	Dr P G Tewari	Principal BVBCET & Dean Academic	Member
9.	Dr B B Kotturshettar	Head of School of Mechanical Engg. & Dean P&D	Member
10.	Dr Uma K Mudenagudi	Dean R & D	Member
11.	Dr Meena S M	Head of School of CSE	Member
12.	Dr Nalini	Head of School of ECE	Member
13.	Dr S S Quadri	Head of School of Civil Engg	Member
14.	Dr A.B.Raju	Head, E&E Dept	Member
15.	Prof Arun C Giriyapur	Head of ARE Dept	Member
16.	Dr U M Muddapur	Head of BT Dept	Member
17.	Prof Vinaya Hiremath	Head, School of Architecture	Member
18.	Dr P R Patil	Head of MCA Dept	Member
19.	Dr Sanjay Kotabagi	Head of Humanities Dept	Member
20.	Dr. S.V. Patil	Head of SMSR	Member
21.	Prof TVM Swamy	Freshman Coordinator	Member
22.	Dr A V Nandi	Controller of Examinations	Member
23.	Dr G H Joshi	Director CEER	Member
24.	Prof Nitin Kulkarni	Director CTIE	Member
25.	Prof C D Kerure	Placement Officer	Member
Invitee			
1.	Sri. Balaji Holur	VP, Samsung R&D	Member

The following members have sought leave of absence:

SL	Name	Designation	Position
1	Dr Srinivas Viravalli	Professor, IIT Delhi	Member

Agenda

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AC 8.1	To read and confirm the minutes of the previous meeting held on 28 th April 2018.	1
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AC 8.1	To read and confirm the minutes of the previous meeting held on 28th April 2018
AC 7.1:	To read and confirm the minutes of the previous meeting held on 3 rd March 2018. Resolution 7.1: Resolved to confirm the minutes of its 6th meeting held on 3rd March 2018.
AC 7.2:	To confirm the action taken report on the minutes of the previous meeting held on 3 rd March 2018. Resolution 7.2: Resolved to confirm the action taken report on the minutes of its 6th meeting held on 3rd March 2018. AC appreciated the new initiatives taken by the Schools/ Departments and also approved the offer of new Minor Programme in 'Advanced Manufacturing for Aerospace Applications' by the Mechanical Engineering Department.
AC 7.3:	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same: <ul style="list-style-type: none"> a. VII & VIII Semesters of B.E.(2015-19) and b. B.Arch. (2015-20) programs Resolution 7.3: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies: <ul style="list-style-type: none"> a. VII & VIII Semesters of B.E.(2015-19) and b. B.Arch. (2015-20) programs.
AC 7.4:	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same: <ul style="list-style-type: none"> a) V & VI Semesters of B.E.(2016-20) and B.Arch. (2016-21) programs b) V & VI Semesters of M.C.A program (2016-19) Resolution 7.4: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies: <ul style="list-style-type: none"> a) V & VI Semesters of B.E.(2016-20) and B.Arch. (2016-21) programs. b) V & VI Semesters of M.C.A program (2016-19).
AC 7.5:	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same: <ul style="list-style-type: none"> a) III & IV Semesters of B.E. (2017-21) and B.Arch. (2017--22) programs b) III & IV Semesters of M.Tech (2017-19) and IV, V & VI Terms of M.B.A (2017-19) programs and c) III & IV Semesters of M.C.A (2017-20) Resolution 7.5: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies: <ul style="list-style-type: none"> a. III & IV Semesters of B.E. (2017-21) and B.Arch. (2017--22) programs. b. III & IV Semesters of M.Tech (2017-19) and IV, V & VI Terms of M.B.A (2017-19) programs and c. III & IV Semesters of M.C.A (2017-20).

AC 7.6:	<p>To consider and approve the recommendations of the respective Boards of studies for the academic programs mentioned below:</p> <p>a) Schemes for batches starting from 2018, of BE (I to VIII Semesters), B.Arch (I to X Semesters), M.B.A (I to VI Terms), M.Tech (I to IV Semesters), MCA (I to VI Semesters).</p> <p>b) Syllabi for batches starting from 2017 of following programs:</p> <ol style="list-style-type: none"> i. I & II Semesters of B.E. and B.Arch. ii. I & II Semesters of M.Tech, M.C.A iii. I, II & III Terms of M.B.A iv. I & II Semesters of B.Sc (Electronics) <p>Resolution 7.6: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies:</p> <p>a) Schemes for batches starting from 2018, of BE (I to VIII Semesters), B.Arch (I to X Semesters), M.B.A (I to VI Terms), M.Tech (I to IV Semesters), MCA (I to VI Semesters).</p> <p>b) Syllabi for batches starting from 2017 of following programs:</p> <ol style="list-style-type: none"> i. I & II Semesters of B.E. and B.Arch. ii. I & II Semesters of M.Tech, M.C.A iii. I, II & III Terms of M.B.A iv. I & II Semesters of B.Sc (Electronics).
AC 7.7	<p>To review progress of implementation of PhD programmes (Information agenda)</p> <p>Resolution 7.7: The Academic Council noted the progress of implementation of PhD programmes.</p>
AC 7.8	<p>To discuss the proposed changes in Rules and Regulations governing UG & PG programs and approve the same.</p> <p>Resolution 7.8: Decision was deferred due to non-availability of supporting data.</p>
AC 7.9	<p>Any other subject with the permission of the Chair.</p> <p>NIL</p>

Action Requested: To confirm the minutes of the previous meeting held on 28th April 2018..

Discussion:

Resolution 8.1: Resolved to confirm the minutes of its 7th meeting held on 28th April 2018.

AC 8.2	To confirm the action taken report on the minutes of the previous meeting held on 28th April 2018	
Item No.	Description	Action Taken
AC 7.1:	To read and confirm the minutes of the previous meeting held on 3 rd March 2018 Resolution 7.1: Resolved to confirm the minutes of its 6th meeting held on 3rd March 2018.	Noted
AC 7.2:	To confirm the action taken report on the minutes of the previous meeting held on 3 rd March 2018 Resolution 7.2: Resolved to confirm the action taken report on the minutes of its 6th meeting held on 3rd March 2018. AC appreciated the new initiatives taken by the Schools/ Departments and also approved the offer of new Minor Programme in 'Advanced Manufacturing for Aerospace Applications' by the Mechanical Engineering Department.	The Academic Council NOTED the actions taken on the minutes of the 6 th AC meeting held on 3 rd March 2018.
AC 7.3:	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same: <ul style="list-style-type: none"> a. VII & VIII Semesters of B.E.(2015-19) and b. B.Arch. (2015-20) programs Resolution 7.3: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies: <ul style="list-style-type: none"> a. VII & VIII Semesters of B.E.(2015-19) and b. B.Arch. (2015-20) program 	The Academic Council approved syllabi of 7 th and 8 th semesters of BE, and B.Arch programmes for the academic year 2018-19 is being implemented.
AC 7.4:	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same: <ul style="list-style-type: none"> a) V & VI Semesters of B.E.(2016-20) and B.Arch. (2016-21) programs b) V & VI Semesters of M.C.A program (2016-19) Resolution 7.4: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies: <ul style="list-style-type: none"> a) V & VI Semesters of B.E.(2016-20) and B.Arch. (2016-21) programs 	The Academic Council approved syllabi of 5 th and 6 th semesters of BE, B.Arch and MCA programmes for the academic year 2018-19 is being implemented.

	b) V & VI Semesters of M.C.A program (2016-19)	
AC 7.5:	<p>To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same:</p> <ul style="list-style-type: none"> a) III & IV Semesters of B.E. (2017-21) and B.Arch. (2017--22) programs b) III & IV Semesters of M.Tech (2017-19) and IV, V & VI Terms of M.B.A (2017-19) programs and c) III & IV Semesters of M.C.A (2017-20) <p>Resolution 7.5: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies:</p> <ul style="list-style-type: none"> a. III & IV Semesters of B.E. (2017-21) and B.Arch. (2017--22) programs b. III & IV Semesters of M.Tech (2017-19) and IV, V & VI Terms of M.B.A (2017-19) programs and c. III & IV Semesters of M.C.A (2017-20). 	<p>The Academic Council approved syllabi of 3rd and 4th semesters of BE, B.Arch, M.Tech, MBA and MCA programmes for the academic year 2018-19 is being implemented.</p>
AC 7.6:	<p>To consider and approve the recommendations of the respective Boards of studies for the academic programs mentioned below:</p> <ul style="list-style-type: none"> a) Schemes for batches starting from 2018, of BE (I to VIII Semesters), B.Arch (I to X Semesters), M.B.A (I to VI Terms), M.Tech (I to IV Semesters), MCA (I to VI Semesters). b) Syllabi for batches starting from 2017 of following programs: <ul style="list-style-type: none"> v. I & II Semesters of B.E. and B.Arch. vi. I & II Semesters of M.Tech, M.C.A vii. I, II & III Terms of M.B.A viii. I & II Semesters of B.Sc (Electronics) <p>Resolution 7.6: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies:</p> <ul style="list-style-type: none"> a) Schemes for batches starting from 2018, of BE (I to VIII Semesters), B.Arch (I to X 	<p>The Academic Council approved syllabi of 1st and 2nd semesters of BE, B.Arch, M.Tech, MBA, MCA and B.Sc (Electronics) programmes for the academic year 2018-19 is being implemented.</p>

	<p>Semesters), M.B.A (I to VI Terms), M.Tech (I to IV Semesters), MCA (I to VI Semesters).</p> <p>b) Syllabi for batches starting from 2017 of following programs:</p> <p>v. I & II Semesters of B.E. and B.Arch.</p> <p>vi. I & II Semesters of M.Tech, M.C.A</p> <p>vii. I, II & III Terms of M.B.A</p> <p>viii. I & II Semesters of B.Sc (Electronics).</p>	
AC 7.7	<p>To review progress of implementation of PhD programmes (Information agenda)</p> <p>Resolution 7.7: The Academic Council noted the progress of implementation of PhD programmes.</p>	Academic Council noted the progress of implementation of PhD programmes.
AC 7.8	<p>To discuss the proposed changes in Rules and Regulations governing UG & PG programs and approve the same.</p> <p>Resolution 7.8: Decision was deferred due to non-availability of supporting data.</p>	Noted
AC 7.9	<p>Any other subject with the permission of the Chair.</p> <p>NIL</p>	Noted

Action Requested: The Academic Council is requested to confirm the action taken report on the minutes of the previous meeting held on 28th April 2018.

Discussion: Dr. Lokesh enquired about the agenda AC 7.9 and to this Prof. Prakash Tewari, Dean Academics informed that for the time-being we will continue with the existing policy regarding PG valuation system.

Resolution 8.2: Resolved to confirm the action taken report on the minutes of its 7th meeting held on 28th April 2018.

AC 8.3 To review the academic progress of the University for the year 2018-19 (Information Agenda)

The Dean Academic Affairs will make a detailed presentation. Some of the points are as below:

The present strength of faculty of the University is **351 (56 P, 76 Asso. Prof., 219 AP)** with ratio of Professors: Asso. Professors: AP being **1.44: 1.95: 5.62**. The student to faculty ratio is **1:14.93 on intake basis and 1:15.71 on actual number of students' basis**. The total student strength of the University is **5513**. The status of this year admission is enclosed in annexure 3.1 while the faculty information is given in annexure 3.2. The academic activities are carried out as per the well-defined academic calendar. Examinations have been conducted as per the calendar of events during last semester. The following new academic initiatives initiated will be presented during the meeting.

MECHANICAL ENGINEERING

UG Program

- Advanced CAE
 - Advanced CAE - I (Meshing focus, Tool: HyperMesh)
 - Advanced CAE - II (Problem Analysis & Interpretation, Tool: ANSYS)
- Product Lifecycle Management
 - Programming (JAVA)
 - PLM-Technical (3D Experience - ENOVIA)

PG Program

- Production Management

I Sem.

- PLM (3D Experience)
- Design Modeling (CATIA), PLM Functional(ENOVIA)
- ERP - II
- Theory and Lab course (SAP Business One)

II Sem.

- Programming (JAVA), PLM Functional
- ERP - II
- Theory and Practical

PG Program

Machine Design

I Sem.

- Modeling (CATIA)

II Sem

- Analysis (HyperMesh, ANSYS)

ELECTRONICS & COMMUNICATION ENGINEERING

UG Program

- C and Data structures -III- Sem (0-0-3) [Programming]

- Data Structures Applications Lab –IV-Sem (0-0-2) [Programming]
- OOPS using C++ VI-sem and VIII-sem (2-0-1) Elective [Programming]
- Linear Integrated Circuit –IV-Sem (3-0-0) as flagship course
- Embedded Computing Intelligence in collaboration with Samsung Team. (VI sem 0-0-3) [Programming & Machine Learning]

ELECTRICAL & ELECTRONICS ENGINEERING

UG Program

- A course on VHDL Programming has been introduced for 6th sem students with credit structure 0-0-2.
- A course on VHDL Programming has been introduced for 4th sem students with credit structure 0-0-2.
- A course on Electric Drive and Control with credit structure 2-0-1 is floated to 6th sem students.
- A course on C++ Programming has been introduced for 6th sem students with credit structure 3-0-0.
- A topic on Power Electronics has been introduced in Basic Electrical Engineering course---In-line with recommendations of AICTE model syllabi.

AUTOMATION AND ROBOTICS

UG Program

- Implementation of industry standard strategies in project management like Agile, scrum.
- Subject delivery is distributed through Problem based approach for better understanding.

COMPUTER SCIENCE & ENGINEERING

UG Program

- Programming
 - C Programming for Problem Solving
 - Data Structures for Problem Solving
 - Object Oriented Programming with C++
- Microcontroller: Programming and Interfacing
- Exploratory Data Analysis
- Electives
 - Embedded Intelligent Systems
 - Model Thinking
 - Natural Language Processing

PG Program

- Programming
 - Problem Solving using Python Programming
 - Problem Solving with Data Structures
 - Web Technology
- Introduced as core courses
 - Machine Learning
 - Image and Video processing
- All courses are introduced with Lab

	<p>SMSR</p> <ul style="list-style-type: none"> • 2 value added (non-credit) courses have been introduced <ul style="list-style-type: none"> ○ Self- Development ○ Leader in You
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Action Requested: The Academic Council is requested to note the academic progress of the University for the year 2018-19.

Discussion: Following are the observations/comments/suggestions made by the honorable members:

Discussions on admissions:

Mr. KNS: Have you done analysis of branches filled earlier?

Dr. Shettar: Yes, but BT is an issue.

Dr. Manjunath: DO you have any process to admit students directly?

Dr. Shettar: Presently we are going with CET and COMEDK admission process.

Manjunath: Can you conduct your own exam and have some control over the intake?

Dr. Shettar: Explained the detail process of admission.

Mr. KNS: Same conventional branches, what differentiation are you doing?

Dr. Shettar: Probably we need to think non-conventional programs in PG and not in UG.

Dr. Manjunath: It is better to add things in the courses and not in the name of the UG program

Mr. KNS: See the trend, agility is closer to 3rd year, be watchful on the futuristic.

Discussions on PG programs:

Mr. KNS: In my view problem solving capability of PG students is better and industry prefer them as they come for 10 months internship.

Dr. Lokesh: M.Tech in CSE is not Ok. It needs to be tagged with some specialization.

Sri. Balaji: Average stay for UG is 2 years and for PG it is 6 years.

Dr. Manjunath: I agree PG graduates stay longer but is it worth from numbers point of you to overhaul the whole programs.

Mr. KNS: Keep half day workshop for the PG program discussions.

Dr. Shettar: We have certain issues with PG programs. Our catchment is our neighborhood, who lack conceptual knowledge and basic skills and we struggle to build basic skills. For the AY 2020-21, we must have new GAME plan for PG programs.

Action Item No.1: Half/One day workshop for the 2020-21 batch, new game plan for PG programs.

Person Responsible: Dean Academics to convene the workshop.

Discussions on UG programs:

Mr. KNS: Why should not KLE Tech start UG programs that are futuristic? Do you provide career counseling for all final year students? Foreign university collaboration?

Dr. Manjunath: Agility within the program to respond to market is Ok. Are foreign universities willing to send their students to KLE Tech?

Dr. Shettar: Twinning programs are a failure.

Action Item No.2: Invite representatives of Coventry Universities on 4th May 2019 to explore possibilities of Twinning Programs. KNS, Manjunath and Balaji will interact with them.

Person Responsible: Prof. G.H. Joshi

Action Item No.3: Inviting MD of QUALCOMM for the open house on 4th May 2019.

Person Responsible: Sri. Balaji Holur with Dr Uma K M.

Discussions on Brand Positioning:

Dr. Manjunath: Identify branding agencies. e.g. Gubbi labs.

Mr. KNS: Identify 3 to 4 PR agencies and let them be back with their proposal. Identify one internal person (KLE Tech) to own the process. Focus on total image building exercise and brand positioning.

Action Item No.4: Brand Positioning & Identifying branding agency.

Person Responsible: Inputs will be given by Dr. D Manjunath, Dr. Lokesh B. and Mr. KNS Acharya.

Discussions on MATLAB to teach Mathematics:

Dr. Shettar: Explained the new initiative of use of MATLAB to teach first year mathematics.

Mr. KNS: If any help is required KPIT is ready to offer.

Action Item No.5: Support to use of MATLAB to teach Mathematics.

Person Responsible: Dr G B Marali & Prof A C Giriapur with Mr. KNS Acharya.

Discussions on Students exchange programs:

Dr. Shettar: Explained Global Entrepreneurship Exchange program with *UMASS LOWELL, USA.*

Dr. Manjunath: Give credits to this experience of students.

Action Item No.6: Give credit benefit to students participating in 'Exchange Programs'.

Person Responsible: University top management.

Discussions on Service-Learning:

Sri. Balaji: Your vision statement is too long. Entry and Exit options are very good. Fact that the University owns it is also very good.

Dr. Majumdar: Non-linear thinking in engineering institutions is less heard. Learning has to be experiential and reflective. Include "empathy" in your vision. Preparedness is required to train the students to understand the society. Solutions needs to be evolved together with the communities. How do you help students to understand that solutions for location 1 may not be good at location 2?

Mr. KNS and Sri. Balaji: This is real thought leadership.

Mr. KNS: You will get good funding for this.

Discussions on Industry Collaborations:

Dr. Manjunath: Does KLE Tech committee for 'patent review' has any industry participation?

Dr. Shettar: Material Science has max patents.

Sri. Balaji: Samsung will have a session on patents for all.

Action Item No.7: Samsung will have a session on patents for all.

Person Responsible: Dr Uma K M & Sri. Balaji Holur.

Resolution 8.3: The Academic Council noted the progress of the University for the academic year 2018-19.

UG PROGRAM ADMISSION DETAILS - 2018-19**Admissions to BE / BArch Program for First Year**

Course	Intake	Male	Female	Total
Automation & Robotics	60	41	19	60
Bio Technology	60	11	40	51
Civil Engineering	120	76	38	114
Computer Science	300	194*	106	300*
Electrical & Electronics	120	66	53	119
Electronics & Communication	300	199	101	300
Mechanical Engineering	240	226	10	236
Architecture	80	19	58	77
Grand Total	1280	834	425	1257

*GOI quota male student: 01no. only

Lateral Admissions to BE Programs

Course	Male	Female	Total
Automation & Robotics	09	00	09
Civil Engineering	23	06	29
Computer Science	05	28	33
Electrical & Electronics	23	04	27
Electronics & Communication	25	09	34
Mechanical Engineering	50	01	51
Total	135	48	183

Admissions to BE / BArch Program for 2nd/3rd/4th Year

Course	2 nd Year	3 rd Year	4 th Year	Total
Automation & Robotics	58	52	51	161
Bio Technology	52	44	43	139
Civil Engineering	144	131	151	426
Computer Science	278	253	249	780
Electrical & Electronics	139	115	66	320
Electronics & Communication	272	265	264	801
Mechanical Engineering	267	249	222	738
Architecture	44	49	53	146
Total	1254	1158	1099	3511

PG PROGRAM ADMISSION DETAILS - 2018-19

Admissions to M Tech /MBA /MCA Program for First Year

Course	Intake	Male	Female	Total
MBA	60	25	30	55
MCA	60	16	34	50
M Tech				
Structural Engg	18	12	6	18
Energy Systems Engg	18	00	03	03
Production Management	18	03	01	04
Digital Electronics	24	03	15	18
Computer Science	24	01	17	18
VLSI Design & Embedded Systems	24	05	13	18
Machine Design	24	18	0	19
Grand Total	270	83	119	203

Admissions to M Tech /MBA /MCA Program for Second / Third Year

Course	Class	Total
MBA	Second Year	55
MCA	Second Year	63
MCA	Third Year	59
M Tech		
Structural Engg	Second Year	15
Energy Systems Engg		10
Production Management		08
Digital Electronics		14
Computer Science		21
VLSI Design & Embedded Systems		15
Machine Design		12
Grand Total		272

RESEARCH PROGRAM ADMISSION DETAILS - 2018-19

Admission to Research Programs in calendar year 2018

Course	Class	Male	Female	Total
School of Bio Technology	First Year	00	01	01
School of Civil & Environmental Engineering		01	01	02
School of Computer Science & Engineering		04	05	09
School of Mathematics		00	01	01
School of Electrical & Electronics Engineering		02	00	02
School of Mechanical Engineering		04	00	04
School of Management		01	00	01
Grand Total		12	08	20

Consolidated Admissions for Academic Year 2018-19

Program	Course	Class	Total
UG Programs	BE/BArch	First Year	1257
	Lateral Entry to BE	Lateral Entry to Second year	183
	BE/BArch	All Higher Semesters	3511
PG Programs	(MTech/MBA/MCA)	First Year	203
	(MTech/MBA/MCA)	Second Year/Third Year	272
Research Programs		2018	20
		2017	35
		2016	32
Grand Total			5513

Faculty Information

Department/Program	In take No. of Students	Faculty			
		Prof.	Asso. Prof.	Asst. Prof	TA
Computer Science & Engg.	300	06	15	29	08
Civil Engg.	120	08	05	10	--
Mechanical Engg.	240	06	15	32	3
Electronics and Communication Engg.	300	06	05	28	3
Electrical and Electronics Engg.	120	02	02	17	05
Biotechnology	60	02	04	04	
Automation & Robotics	60	01	02	09	03
Architecture	80	03	06	09	--
MBA	60	02	02	06	--
MCA	60	02	02	07	--
Structural Engg	18	01	01	01	--
Energy Systems Engg	18	01	01	01	--
Production Management	18	01	01	01	--
Machine Design	24	01	01	02	--
Computer Science & Engg	24	01	02	01	--
VLSI Design and Embedded Systems	24	01	01	02	--
Digital Electronics	24	01	01	02	
Physics	--	03	--	05	02
Chemistry	--	01	--	04	--
Mathematics	--	01	02	14	--
Others	--	--	02	--	--
Humanities	--	--	04	--	--
CEER	--	--	--	03	04
CTIE	--	04	01	--	03
Executives		02	01	--	01
		56	76	187	32
			351		

AC 8.4	<p>To discuss new academic initiatives proposed for the academic year 2019-20.</p> <p>Curriculum modification involves change to a range of educational components in a curriculum, such as content knowledge, the method of instruction, assessment and student's learning outcomes, through the alteration of materials and programs to meet the ever changing needs of the stake holders. In view of this following new academic initiatives have been proposed for the academic year 2019-20.</p> <p>Heads of Schools/ Departments will present the new initiatives during the meeting</p> <p>MECHANICAL ENGINEERING UG Program</p> <ul style="list-style-type: none"> • Planning to introduce a course (electives) on Machine learning. Consultations with companies and experts are going on. • A vertical on E-Mobility is being developed jointly with E&E Department. Courses to be offered from Odd sem. 2019-20. <p>ELECTRONICS & COMMUNICATION ENGINEERING UG Program</p> <ul style="list-style-type: none"> • Data Structures Applications Lab –IV-Sem(0-0-2) [Programming] • OOPS using C++ VI-Sem- as core (2-0-1) [Programming] • RTOS as flagship course –V-Sem (3-0-0) [Programming] • Embedded Computing Intelligence in collaboration with Samsung Team. (VI sem 0-0-3) [Programming & Machine Learning] <p>ELECTRICAL & ELECTRONICS ENGINEERING UG Program</p> <ul style="list-style-type: none"> • A course on Signals & Systems has been introduced for 4th sem students with credit structure 3-0-0. • A course on C++ Programming has been introduced for 5th sem students with credit structure 2-0-1. • An elective course on CMOS VLSI has been introduced for 6th sem students with credit structure 3-0-0. <p>AUTOMATION AND ROBOTICS UG Program</p> <ul style="list-style-type: none"> • Identified Flagship course for improvising the critical / risk based course in Curriculum <p>COMPUTER SCIENCE & ENGINEERING UG Program</p> <ul style="list-style-type: none"> • Planning to introduce an elective course on 'Cyber Security'
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Action Requested: The Academic Council is requested to discuss new academic initiatives proposed for the academic year 2019-20.

Discussion: Following are the observations/ comments/suggestions made by the honorable members:

New Academic Initiatives of Computer Science & Engineering:

- Data structures course using PBL: Dr. Manjunath suggested to get connected with Dr. Abhiram Ranade of IIT, Mumbai on building programming competence.
- Sri. Balaji wanted to know whether teachers are part of actions.
- Data science experience in curriculum: Mr. KNS and Sri. Balaji asked why this is not open for other branches.
- Exploratory data analysis as an elective: When Dr. Meena asked for the Academic Council inputs Dr. Manjunath advised not to ask AC inputs to run electives.
- Further he asked the source of data and enquired whether it is India relevant data?
- Sri. Balaji wanted to know whether school is collecting data from IoT based projects on campus and is it possible to get curated data from your IOT projects by May 2019? Is it possible to get bus data from KSRTC.

New Academic Initiatives of Electronics & Communication Engineering:

Dr. Shettar explained KLE Tech - NETRA India chip program and the shared vision for next 3 years. Mr. Balaji said he is very happy to know this initiative and it is very interesting.

Mr. Vivek expressed thanks to faculty for not giving up midway.

Sri. Balaji suggested to Mr. Pawar to involve TI and others in the project. Further he added that MITEY has a program on microprocessor design and IIT Mumbai and Madras are involved. If interested he would connect KLE Tech with Madhava - Manjunath.

New Academic Initiatives of Mechanical Engineering:

Dr. Manjunath suggested to get data about Dassault product customers from Dassault Systems so that KLE Tech can approach them for students' internship.

Dr. Shettar: We are starting machine learning and E-mobility verticals.

Mr. KNS offered his support on E-mobility and Mr. Balaji said deep learning convolutions have to be brought in for that we will come back.

Dr. Shettar: Do you think we need two courses in ML?

Sri. Balaji said Maths focus will be the differentiator between E&C and Mech engg. We can take this topic in May meeting.

Mr. KNS said a popular talk on applications of ML for all branches is essential.

Action Item No.8: Designing the structure for E-Mobility.

Person Responsible: Dr B B Kotturshettar & Dr A B Raju with Mr. KNS Acharya.

Action Item No.9: Applications of ML for Mechanical Engineering.

Person Responsible: Dr B B Kotturshettar & Mr. Balaji Holur

Resolution 8.4: Academic Council members appreciated the new initiatives taken by the Schools/ Departments and asked the Heads of School/ Department to work on these new initiatives and present the same in the next AC meeting after taking approval of the respective Board of Studies.

AC 8.5	<p data-bbox="391 226 1390 268">To discuss and approve results of previous examinations</p> <p data-bbox="391 270 1471 344">The results of the examination conducted since last Academic Council meeting (May/June 2018 and Dec 2018/ Jan 2019 are placed before the Council.</p>
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Action Requested: The Academic Council is requested to approve the results as presented by the Controller of Examination. The same results have been provisionally declared. The action taken in provisionally declaring the results may also be approved.

Discussion: Following are the observations/ comments/suggestions made by the honorable members:

Mr. KNS: Present the analytics. Let us spend 30 to 45 minutes on this agenda item. Quality time should be spent on 'Results & Analysis'. The presentation should give insight not just data. If required we (KPIT) will provide the template. You feed the data and draw inferences.

Sri. Balaji: Share the data with KPIT for data analytics.

Action Item No.10: Result Analysis – Present the analytics not mere data.

Person Responsible: Dr. A V Nandi supported by Ms. Gandhali Sopal of KPIT

Resolution 8.5: Resolved to approve the results analysis of May/June 2018 and Dec 2018/ Jan 2019 examination.

AC 8.6	To consider introduction of BBA program from the academic year 2019-20.
	<p>Proposal for Bachelor of Business Administration (BBA) program at School of Management Studies and Research (SMSR)</p> <p>School of Management Studies and Research, which is presently offering 2 years MBA program in Trimester mode intends to offer a high quality undergraduate program in Management (BBA). This UG program concentrates on outcomes like quantitative abilities, decisions, technology, communication, and leadership built on values, ethics and behavior. The program includes internships in all 3 years (6-8 weeks) to reinforce their learnings in classroom with real time experience at industry and social connect. The assessment includes both In-Term Assessment and Term-End Assessment. The program will be open to industry expectations but responds in a controlled manner. The program enables students to aspire for premier institutions to their Masters / PhD programs. There will be a scope for Entrepreneurship and Family Business for select and interested students.</p> <p>The University will conduct admission test followed by Group Discussions and Personal Interview to admit students. However national level admission tests such as UGAT, IIM Indore's IPM Aptitude Test scores will be considered for admission.</p> <p>The BBA program will have Trimester system with <i>Nine</i> terms and 130-140 credits to qualify for degree. The university adopts grading system and grade points will decide the merit of the student. The regulations of university will be applicable to this program as well.</p>

Action Requested: To discuss the introduction of BBA program from the academic year 2019-20.

Discussion: Mr. KNS wanted to know, the expectations of the industries from BBA graduates.

Resolution 8.6: Resolved to approve the introduction of BBA program from the academic year 2019-20.

AC 8.7	To discuss the proposed changes in Rules and Regulations governing UG, PG & Ph. D programs and approve the same.	
	Some of the regulations required modifications while some needed to be newly introduced because of the new academic initiatives taken at the University. The original regulations (if exists) and modified /new regulations are presented below.	
Regulation number	Earlier regulation	New regulation
21.2	Each course shall be represented in the form of 'L-T-P' where L, T, and P mean respectively, the number of lecture hours per week, number of tutorial hours per week, and number of practical hours per week. The number of credits assigned to the course shall be represented by C. The credits assigned to each course shall be calculated as $C = L + T/2 + P/2$. For example, '3-2-0' means three lecture hours and two tutorial hours amounting to a total of 4 credits.	<p>The course credits for each course shall be given as L-T-P. For example, 3-1-0 will mean that it is a lecture based course and has 3 lectures, 1 tutorial, and no practical assigned to it. Similarly, a course with 0-0-2 means that it is a practical course with 4 hours of class work. Credits will be assigned to seminar, dissertation, project etc. under the practical component.</p> <p>Example: Course 18EMEC301 CAD Modeling; 4 credits (2-0-2). The hours for this course are computed as follows:</p> <p>2 credits = 2 hours/week lectures 0 credit = 0 hours/week tutorial 2 credits = $2 \times 2 = 4$ hours/week practicals Total = $2 + 0 + 4 = 6$ hours</p> <p>Total contact hours for the course = (2 h Lectures + 0 h Tutorial + 4 h Practical) per week = 6 contact hours per week for 16 weeks.</p> <p>For each lecture or tutorial credit, the self-study component is 1-2 hours /week (for 100-300 level courses) and 3 hours /week (for 400-600 level courses). The self-study component for practicals is 1 hour for every two hours of practicals per week. In the above example, the student is expected to devote a minimum of $2 + 2 = 4$ hours per week on self-study in addition to class contact hours.</p>

Action Requested: To discuss the proposed changes in Regulations governing UG , PG & Ph.D programs of the KLE Technological University and approve the same.

Discussion: Dr. Manjunath expressed the opinion that the weekly self-study hours prescribed for the students may be dropped as it is difficult to monitor.

Resolution 8.7: Resolved to approve the proposed changes in section 21.2 of Regulations Governing Undergraduate and Postgraduate Programmes of KLE Technological University 2015; and regulations governing PhD programmes. Details are given in annexure 1.

a) Modified section 21.2 of Rules and Regulations governing UG & PG programs

21.2	<p>Each course shall be represented in the form of 'L-T-P' where L, T, and P mean respectively, the number of lecture hours per week, number of tutorial hours per week, and number of practical hours per week. The number of credits assigned to the course shall be represented by C. The credits assigned to each course shall be calculated as $C = L + T/2 + P/2$. For example, '3-2-0' means three lecture hours and two tutorial hours amounting to a total of 4 credits.</p>	<p>The course credits for each course shall be given as L-T-P. For example, 3-1-0 will mean that it is a lecture based course and has 3 lectures, 1 tutorial, and no practical assigned to it. Similarly, a course with 0-0-2 means that it is a practical course with 4 hours of class work. Credits will be assigned to seminar, dissertation, project etc. under the practical component.</p> <p>Example: Course 18EMEC301 CAD Modeling; 4 credits (2-0-2). The hours for this course are computed as follows:</p> <p>2 credits = 2 hours/week lectures 0 credit = 0 hours/week tutorial 2 credits = $2 \times 2 = 4$ hours/week practicals Total = $2 + 0 + 4 = 6$ hours Total contact hours for the course = (2 h Lectures + 0 h Tutorial + 4 h Practical) per week = 6 contact hours per week for 16 weeks.</p>
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b) Modified regulations governing PhD programmes. Details are given in annexure 1 below:

SL No.	Research Programmes Committee (RPC)	School Research Committee (SRC)	Research Review Committee (RRC)
	The Research Programmes Committee (RPC) is responsible for the monitoring of PhD programmes, approving recommendations from SRC, School heads, and any other issue related to PhD programs. This is an interface between schools offering PhD programs and the University.	School Research Committee (SRC) The SRC shall be formed for each of the school/department/center offering PhD program. SRC is responsible to verify, approve and forward the recommendations of RRC in all the matters related to PhD candidate to RPC. SRC is the link between RRC and RPC	The RRC shall be formed for each of the provisionally registered PhD research scholar. The RRC shall be responsible for reviewing and monitoring the progress of the research scholar from his/her commencement of PhD research to submission of the Thesis and send recommendations to SRC.
	Composition of the Research Programmes Committee: To be constituted by the Vice Chancellor and shall consist of: 1. Dean of Research - Chair person 2. Deans of faculty - Members 3. One of the senior faculty – Member Convener 4. Head of the Schools -Members	Composition of the School Research Committee (SRC): To be constituted by the Dean of Faculty and shall consist of: 1. Head of the School - Chair person 2. Two eligible Research Supervisors- Members 3. One external expert -Member 4. Senior Research Supervisor – Secretary The SRC may be re-constituted by the Dean of Faculty in the case of non- availability of existing member(s) or for any other valid reason, in consultation with the Head of the School/Dept./Center.	Composition of the Research Review Committee: To be constituted by the Head of the school/department/center for each research scholar, shall consist of: 1. Head of the School- Chair person 2. Two internal domain experts may be identified by the Head of the school/department/center on the recommendations of the Research Supervisor from time to time. 3. Research Supervisor(s)- Secretary The RRC may be re-constituted by the Head of the school/department/center in the case of non- availability of existing member(s) or for any other valid reason, in consultation with the Research Supervisor (s).
	Tenure and Frequency of meeting of Research Programmes Committee: 1. The tenure of the Research Programmes Committee shall be 3 years. The RPC shall meet at least <i>TWICE</i> a year. However, the Committee shall meet as often as required.	Frequency of meeting of SRC Committee: The School Research Committee shall meet at least <i>TWO</i> times a year. However, the Committee shall meet as often as required.	Frequency of meeting of RRC Committee: The Research Review Committee shall meet at least <i>TWO</i> times a year. However, the Committee shall meet as often as required
1.1.2 i	Scope/Functions/Responsibilities of the Research Programmes Committee shall be: 1. To review and approve list of Research scholars for: a. Comprehensive viva, b. Pre-synopsis presentations c. Synopsis submissions d. Thesis submissions e. Award of degree 2. To review and approve the recommendations of SRC regarding change of admission category or any other issue related to PhD program.	At 1.1.3, i a. Scope/Functions/Responsibilities of the School Review Committee shall be: 1. To select candidates for PhD Programme after interviews. 2. To Form of RRC and approve the Coursework for the research scholars. 3. To approve confirmation of PhD registrations. 4. To Recommend PhD candidates for Comprehensive Viva-Voce examination, Pre-synopsis presentations and thesis submission based on the progress of research scholars. 5. To communicate with the RPC/CoE for all research matters.	b. Scope/Functions/Responsibilities of the Research Review Committee shall be: 1. To review and finalize list of courses (Part-I) for the research scholar and recommend the same to SRC. 2. To conduct Comprehensive Viva-Voce (Part-II) and recommendation for the confirmation of the PhD registration to SRC. 3. To review/monitor periodically (at least once in six months) the research progress of each research scholar until his/her submission of the PhD Thesis, and send its recommendations to SRC. 4. To conduct pre-synopsis presentations and recommend submission of synopsis and Thesis to SRC.

AC 8.8	To discuss initiatives to streamline and enhance research productivity.
	Dean R&D will present the new initiatives during the meeting.

Action Requested: To discuss the initiatives to streamline and enhance research productivity.

Discussion: Following are the observations/ comments/suggestions made by the honorable members:

Prof. Ashok Shettar, VC presented the challenges and three initiatives.

Mr. KNS: What is research agenda (grand themes) of KLE Tech? Are the research problems picked up by researchers aligned with that of KLE Tech? What efforts are you making in having partnership with your collaborating Universities in PhD ?

Dr. Shettar: Research canvas is ready. Faculty problems are aligned. At this point of time we can open up only with IITs.

Mr. KNS: For me the proposed solutions look tactical but not strategic.

Sri. Balaji: Good news is that we know the reality. Faculty lack writing and communication skills (needed for research). Question is how to improve the foundation for research. In two years of time, if they can't write proposal, then they are not ready for research. The research topics should be tied to real life problems. Involve industry experts to define problems.

Dr. Manjunath: H-index is useful, but that alone is not reasonable. Problem selection is very important. Otherwise H-index won't improve. Encourage faculty to go for good conferences. Have MoUs with IITs and IIITs. Invite a few of us experts to review, after course work.

Dr. Majumdar: Document research process. Have a doctoral advisory committee (it works) with external member. It is a legacy issue, have softer interventions.

Mr. KNS: It is difficult to grow organically. Try alumni who could come on tenure.

Action Item No.11: No vacation for PhD registered candidates.

Person Responsible: Dean Academics & Registrar

Resolution 8.8: The Academic Council noted the initiatives taken by the University to streamline and enhance research productivity and appreciated the action taken by the Vice-chancellor.

AC 8.9	To ratify Board of Studies and Board of Examiners
	As per sections 6 and 7 of Regulations Governing Undergraduate and Postgraduate Programmes of KLE Technological University 2015, the Dean Academic Affairs / The concerned Dean of Faculty may constitute the requisite number of Departmental Board of Studies and Boards of Examiners respectively with the approval of the Academic Council. The Academic Council is requested to ratify the action taken by the Dean (Academics) in constituting departmental Board of Studies and Boards of Examiners.

Action Requested: The Academic Council is requested to ratify the changes made in the Board of Studies and Board of Examiners.

Discussion:

Resolution 8.9: Resolved to ratify the action taken by the Dean (Academics) in making changes in the Board of Studies and the Board of Examiners of Biotechnology department, Mechanical Engineering and Automation & Robotics of KLE Technological University.

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AC 8.10	Any other subject with the permission of the Chair.

Suggestions for improvements:

Mr. KNS: What is hurting is culture. Teaching English language is very important. Both teaching and non-teaching staff should speak in English. It is good to know that international events are happening on campus but the question is how many students of KLE Tech are getting international exposure. We need to create opportunities.

Action Item No. 12: Actions listed during the meeting should be mailed within 48 hours clearly indicating person responsible and timeline.

Person Responsible: Dr. P G Tewari & Prof. B L Desai

Action Item No. 13: Specify time-allotted for each agenda from the next academic council meeting.

Person Responsible: Dr. P G Tewari & Prof. B L Desai

Action Item No. 14: Parallel mechanism to write minutes during the meeting.

Person Responsible: Dr. P G Tewari & Prof. B L Desai