Agenda Notes

9th Academic Council Meeting

of

KLE Technological University,

Hubballi, Karnataka

May 3, 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 03-05-2019 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.	Sri KNS Acharya	VP KPIT Technologies	Member
3.	Dr. Manjunath D	Prof IIT, Bombay	Member
4.	Dr Satyajit Majumdar	Professor, TISS Mumbai	Member
5.	Sri Vivek G Pawar	Chairman Sankalp Semiconductors Hubballi	Member
6.	Prof B L Desai	Registrar	Member Secretary
7.	Dr P G Tewari	Principal BVBCET & Dean Academic	Member
8.	Dr B B Kotturshettar	Head of School of Mechanical Engg. & Dean P&D	Member
9.	Dr Uma K Mudenagudi	Dean R & D	Member
10.	Dr Meena S M	Head of School of CSE	Member
11.	Dr Nalini	Head of School of ECE	Member
12.	Dr S S Quadri	Head of School of Civil Engg	Member
13.	Dr A.B.Raju	Head, E&E Dept	Member
14.	Prof Arun C Giriyapur	Head of ARE Dept	Member
15.	Dr U M Muddapur	Head of BT Dept	Member
16.	Prof Vinaya Hiremath	Head, School of Architecture	Member
17.	Dr P R Patil	Head of MCA Dept	Member
18.	Dr Sanjay Kotabagi	Head of Humanities Dept	Member
19.	Dr. S.V. Patil	Head of SMSR	Member
20.	Prof TVM Swamy	Freshman Coordinator	Member
21.	Dr A V Nandi	Controller of Examinations	Member
22.	Dr G H Joshi	Director CEER	Member
23.	Prof Nitin Kulkarni	Director CTIE	Member
24.	Prof C D Kerure	Placement Officer	Member

The following members have sought leave of absence:

SL	Name	Designation	Position
1	Dr Srinivas Viravalli	Professor, IIT Delhi	Member
2	Dr Lokesh Boregowda	Director, Vision Research	Member
3	Dr Balaji Holur	VP, Samsung R&D	Member

Agenda

Sl No	Particulars	Page No.
9.1	To read and confirm the minutes of the previous meeting held on 2nd March 2019.	1
9.2	To confirm the action taken report on the minutes of the previous meeting held on 2nd March 2019.	6
9.3	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same: a) VII & VIII Semesters of B.E.(2016-20) and b) B.Arch. (2016-21) programs	18
9.4	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same: a) V & VI Semesters of B.E.(2016-20) and B.Arch. (2017-22) programs b) V & VI Semesters of M.C.A program (2017-20)	20
9.5	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same: a) III & IV Semesters of B.E. (2018-22) and B.Arch. (2018--23) programs b) III & IV Semesters of M.Tech (2018-20) and IV, V & VI Terms of M.B.A (2018-20) programs c) III & IV Semesters of M.C.A (2018-21)	21
9.6	To consider and approve the recommendations of the respective Boards of studies for the academic programs mentioned below: a) Schemes for batches starting from 2019, 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 2019 of following programs: 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) c) Scheme of B.B.A. (I to IX Terms) & Syllabus of I, II & III Terms of B.B.A	22
9.7	Any other subject with the permission of the Chair	23

AC 9.1	**To read and confirm the minutes of the previous meeting held on 2nd March 2019**
	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
25.	Dr Ashok Shettar	Vice Chancellor	Chairman
26.	Dr Lokesh Boregowda	Director, Vision Research	Member
27.	Sri KNS Acharya	VP KPIT Technologies	Member
28.	Dr. Manjunath D	Prof IIT, Bombay	Member
29.	Dr Satyajit Majumdar	Professor, TISS Mumbai	Member
30.	Sri Vivek G Pawar	Chairman Sankalp Semiconductors Hubballi	Member
31.	Prof B L Desai	Registrar	Member Secretary
32.	Dr P G Tewari	Principal BVBCET & Dean Academic	Member
33.	Dr B B Kotturshettar	Head of School of Mechanical Engg. & Dean P&D	Member
34.	Dr Uma K Mudenagudi	Dean R & D	Member
35.	Dr Meena S M	Head of School of CSE	Member
36.	Dr Nalini	Head of School of ECE	Member
37.	Dr S S Quadri	Head of School of Civil Engg	Member
38.	Dr A.B.Raju	Head, E&E Dept	Member
39.	Prof Arun C Giriyapur	Head of ARE Dept	Member
40.	Dr U M Muddapur	Head of BT Dept	Member
41.	Prof Vinaya Hiremath	Head, School of Architecture	Member
42.	Dr P R Patil	Head of MCA Dept	Member
43.	Dr Sanjay Kotabagi	Head of Humanities Dept	Member
44.	Dr. S.V. Patil	Head of SMSR	Member
45.	Prof TVM Swamy	Freshman Coordinator	Member
46.	Dr A V Nandi	Controller of Examinations	Member
47.	Dr G H Joshi	Director CEER	Member
48.	Prof Nitin Kulkarni	Director CTIE	Member
49.	Prof C D Kerure	Placement Officer	Member
	Invitee		
1.	Dr 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

| AC 8.1 | To read and confirm the minutes of the previous meeting held on 28th April 2018.

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 [2nd March, 2019] **Resolution 6.2: Resolved to confirm the action taken report on the minutes of its 8th meeting held on 2nd Macrh,2019**
AC 8.3:	To review the academic progress of the University for the year 2018-19 (Information Agenda). **Discussion:** Based on the discussions following action items as agreed upon by everyone were finalized and the same were circulated to all the members on 4th March 2019. Persons responsible for these action items have already initiated the actions, which will be shared in the next academic council meeting. ***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.* ***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: Mr. Balaji Holur with Dr Uma K M.* ***Action Item No.4: Brand Positioning & Identifying branding agency.*** *Person Responsible: Inputs will be given by Prof. D Manjunath, Dr. Lokesh B. and Mr. KNS Acharya.* ***Action Item No.5: Support to use of MATLAB to teach Mathematics.*** *Person Responsible: Dr G B Marali & Prof A C Giriyapur with Mr. KNS Acharya.* ***Action Item No.6: Give credit benefit to students participating in 'Exchange Programs'.*** *Person Responsible: University top management.* ***Action Item No.7: Samsung will have a session on patents for all.*** *Person Responsible: Dr Uma K M & Mr. Balaji Holur.* **Resolution 8.3: The Academic Council noted the progress of the University for the academic year 2018-19.**
AC 8.4:	To discuss new academic initiatives proposed for the academic year 2019-20. **Discussion:** Based on the discussions on new academic initiatives following action items were finalized and the persons responsible have already initiated the actions. ***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 & Sri. 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:	To discuss and approve results of previous examinations.
	Discussion: Based on the discussions following action item was finalized and the persons responsible have already initiated the actions.
	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.**
	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 programs 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	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	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. Example: Course 18EMEC301 CAD Modeling; 4 credits (2-0-2). The hours for this course are computed as follows: 2 credits = 2 hours/week lectures

	amounting to a total of 4 credits.	0 credit = 0 hours/week tutorial
		2 credits = 2 × 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.
	b) Modified regulations governing PhD programmes. Details are given in annexure 1.	

AC 8.8	To discuss initiatives to streamline and enhance research productivity.
	Discussion: In order to improve the quality and research productivity following action item was suggested.
	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.
	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.
AC 8.10	**Any other subject with the permission of the Chair.**
	Table agenda: How to improve conduct of Academic Council meetings.
	Discussions: Mr. KNS Acharya opined that teaching English language is very important. He expressed that both teaching and non-teaching staff should speak in English. Further he added that 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. He urged the need to create opportunities.
	Based on the discussions following action items were finalized to improve the efficiency of conduct of the Academic Council meetings.
	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

Action Requested: To confirm the minutes of the previous meeting held on 2nd March 2019.

Discussion:

Resolution 9.1: Resolved to confirm the minutes of its 8th meeting held on 2nd March 2019

AC 9.2	To confirm the action taken report on the minutes of the previous meeting held on 2nd March 2019.	
Item No.	**Description**	**Action Taken**
AC 8.1	To read and confirm the minutes of the previous meeting held on 28th April 2018. **Resolution 8.1: Resolved to confirm the minutes of its 7th meeting held on 28th April 2018.**	Noted.
AC 8.2:	To confirm the action taken report on the minutes of the previous meeting held on 28th April 2018. **Resolution 6.2: Resolved to confirm the action taken report on the minutes of its 7th meeting held on 28th April 2018.**	The Academic Council Noted the actions taken on the minutes of the 7th AC meeting held on 28th April 2018.
AC 8.3:	To review the academic progress of the University for the year 2018-19 (Information Agenda). **Discussion:** Based on the discussions following action items as agreed upon by everyone were finalized and the same were circulated to all the members on 4th March 2019. Persons responsible for these action items have already initiated the actions, which will be shared in the next academic council meeting. ***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.* ***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*	The Academic Council noted the progress of the University and recommended certain action items identifying person responsible and timeline. ***Action Item No.1: Half/One day workshop for the 2020-21 batch, new game plan for PG programs.*** *ATR: Will be convened by the Dean Academics in the month of July 2019 and the specific date will be finalized during next AC meeting to be held on 3rd May 2019.* *Proposed dates: 13th or 20th July 2019* ***Action Item No.2: Invite representatives of Coventry Universities on 4th May 2019 to explore possibilities of Twinning Programs. Mr. KNS, Dr. Manjunath and Sri. Balaji will interact with them.***

	Action Item No.3: Inviting MD of QUALCOMM for the open house on 4th May 2019. *Person Responsible: Mr. Balaji Holur with Dr Uma K M.* *Action Item No.4: Brand Positioning & Identifying branding agency.* *Person Responsible: Inputs will be given by Prof. D Manjunath, Dr. Lokesh B. and Mr. KNS Acharya.* *Action Item No.5: Support to use of MATLAB to teach Mathematics.* *Person Responsible: Dr G B Marali & Prof A C Giriyapur with Mr. KNS Acharya.* *Action Item No.6: Give credit benefit to students participating in 'Exchange Programs'.* *Person Responsible: University top management.* *Action Item No.7: Samsung will have a session on patents for all.* *Person Responsible: Dr Uma K M & Mr. Balaji Holur.* **Resolution 8.3: The Academic Council noted the progress of the University for the academic year 2018-19.**	*ATR: Prof. G.H. Joshi has invited the Coventry team on 4th May 2019.* *Mr. Mark Holton, Coventry University has expressed his inability to participate in Prayog Vasant due to dates clash with another event.* *Action Item No.3: Inviting MD of QUALCOMM for the open house on 4th May 2019.* *ATR: Sri. Balaji has informed that MD of QUALCOMM will not be attending open house due to his prior commitments.* *Action Item No.4: Brand Positioning & Identifying branding agency.* *ATR: Director (Branding & Marketing) has been appointed.* *Action Item No.5: Support to use of MATLAB to teach Mathematics.* *ATR: Discussions are in progress between Prof. Arun Giriyapur and Mr. KNS Acharya.* *Discussions are in progress between Prof. Arun Giriyapur and Mr. KNS Acharya. Following are the inputs given by KPIT.* · <u>Learning</u> Resources · Tasks for learning and reinforcement · <u>ebook</u> *Action Item No.6: Give credit benefit to students participating in 'Exchange Programs'.*

		ATR: We do hold Student exchange program at KLE Tech University, Hubli, for which students from KLE Tech University get 3 credits.
		However, when this program happens in US and China, due to the following reasons credits are not offered, but a certificate is offered. 1. KLE Students have to pay **per credit fees of USD 1200-1400** over and beyond the living/travel expenses. This makes the program un-affordable. 2. Students if they are offered credit for US program, have to apply for F- visa (student visa) which is expensive and requires a lot of paper work. 3. Getting 3 credits in isolation has not much foreseeable value to our students, unless they chose to study in US university at a later date.
		Decision will be finalized during next AC meeting to be held on 3rd May 2019.
		Action Item No.7: Samsung will have a session on patents for all.
		ATR: Dr. Lokesh has suggested to Dr. Uma to have this session on patents for all during August/ September 2019.
AC 8.4:	To discuss new academic initiatives proposed for the academic year 2019-20. **Discussion:** Based on the discussions on new academic initiatives following action items were finalized and the persons responsible have already initiated the actions.	The recommendations of the Academic Council have been communicated to all the Heads of the Schools/Departments/ Centers with a request to take up the issues in their respective Board of Studies meetings.

	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 & Sri. 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.
		Action Item No.8: Designing the structure for E-Mobility.
		ATR: Both EE & ME programs have designed the E-mobility course structure and have shared the same with Mr. KNS Acharya of KPIT.
		
		Reply from Mr. KNS:
		
		I have got the content reviewed by our E-Powertrain practice and they have recommended the following to be included.
		Course Structure :
		   1) Reference architecture in EV:
		   a. Typical architectures used in - BEV, HEV, PHEV, FCEV;
		   b. Component used in BEV/HEV/PHEC/FCEV-selection criteria;
		   c. Communication protocol- their selection and its impact on the reference architectures;
		   d. Sensors interface- digital and analog sensors (speed, pressure, angle, torque, voltage, current);
		   e. Concept of functional safety & its impact on the selection of fail-safe mechanisms used in architecture;
		   2) Traction systems – modelling & control:
		   a. Basic concepts of traction system;
		   b. Mathematical model of electrical machine used in traction system (AC – Sync, Induction, PMSM, ….) – development of generalized control theory;

		c. Control of electrical drives (AC & DC machines);
		d. Hands on training/assignment- DTC/FOC/V/f ….. control using DSP -TI or similar real time processor;
		3) Power electronics converter & its control - with emphasis on battery charging of EV:
		a. Power converters – AC-DC, DC-DC and DC-AC;
		b. Selection of power converter for battery charging applications (role of Ah, charge acceptance of battery, string voltage) & its integration with battery management system;
		c. Control of power converter topologies commonly used for battery charging (all chemistries – LTO, NMC, Ni-cd,…);
		d. Realization of control methods using simulation tools, & DSP (ISR, calculation of PWM count, discretization of control loops – PID,-……);
		e. Hands on training/assignment- bi-directional charger (4-Q system) using DSP -TI or similar real time processor;
		Abbreviations for your records:
		· EV – Electrical Vehicle
		· BEV – Battery EV
		· FCEV – Fuel Cell EV
		· HEV – Hybrid EV
		· DTC – Diagnostic Troubleshooting Code
		· FOC – Field Oriented Control
		· AC-DC : Current Types

		· LTO, NMC, Li-Cd – battery chemistries Lithium Titanium Oxide, Nickel-Manganese-Cobalt Oxide, Lithium-Cadmium etc)
		Action Item No.9: Applications of ML for Mechanical Engineering.
		ATR: Head of School of Mechanical Engineering has suggested to have interaction meeting on 'ML for Mechanical Engineering' during 2nd or 3rd week of June 2019.
AC 8.5:	To discuss and approve results of previous examinations. **Discussion:** Based on the discussions following action item was finalized and the persons responsible have already initiated the actions. *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.**	**Action Item No.10: Result Analysis – Present the analytics not mere data.** *ATR: Controller of Examinations is working with Ms. Gandhali Sopal of KPIT and the outcomes of the work will be presented during the next AC meeting.*
AC 8.6:	**To consider 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.**	*The Academic Council approved BBA program was presented to the Executive Council on 16th March 2019 and to the BOG on 1st April 2019. Both have approved the introduction of BBA program from the academic year 2019-20. School of Management Studies & Research has been asked to release the advertisement and do all preparatory work to start the program.*
AC 8.7	**To discuss the proposed changes in Rules and Regulations governing UG, PG and PhD programs and approve the same.** **Discussion:** Dr. Manjunath expressed the opinion that the weekly self-study hours	*The Academic Council approved Rules and Regulations governing UG, PG and PhD programs were presented to the Executive Council on 16th*

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	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.	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. Example: Course 18EMEC301 CAD Modeling; 4 credits (2-0-2). The hours for this course are computed as follows: 2 credits = 2 hours/week lectures 0 credit = 0 hours/week tutorial 2 credits = 2 × 2 = 4 hours/week practicals

March 2019 and to the BOG on 1ˢᵗ April 2019. Both have approved the proposed changes.

		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.	
	b) Modified regulations governing PhD programmes. Details are given in annexure 1.		
AC 8.8	To discuss initiatives to streamline and enhance research productivity.	**Action Item No.11: No vacation for PhD registered candidates.**
	Discussion: Following are the observations/ comments/suggestions made by the honorable members:	*ATR: Registrar and Dean Academics have discussed the issue with the Vice-chancellor and have agreed in principle to the Academic Council proposal that 'No vacation for PhD registered candidates' of KLE Tech to ensure timely progress of research work.*
	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. **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.**	*The Academic Council ratified changes in the BoS & BoE members were presented to the Executive Council on 16th March 2019 and to the BOG on 1st April 2019. Both have approved the proposed changes. The heads of School and Departments have been informed about the same.*
AC 8.10	**Any other subject with the permission of the Chair.** ***Table agenda: How to improve conduct of Academic Council meetings.*** ***Discussions:*** Mr. KNS Acharya opined that teaching English language is very important. He expressed that both teaching and non-teaching staff should speak in English. Further he added that It is good to know that international events are happening on campus but the question is how many students of KLE Tech are	***Action Item No. 12: Actions listed during the meeting should be mailed within 48 hours clearly indicating person responsible and timeline.*** *ATR: Already complied. The actions were mailed to all the members on 4th March 2019.* ***Action Item No. 13: Specify time-allotted for each agenda from the next academic council meeting.***

getting international exposure. He urged the need to create opportunities. ***Based on the discussions following action items were finalized to improve the efficiency of conduct of the Academic Council meetings.*** ***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*	*ATR: Time allotted for each agenda item will be mentioned in the pre-agenda notes.* ***Action Item No. 14: Parallel mechanism to write minutes during the meeting.*** *ATR: One of the Academic Council member will be asked to write the minutes during the meeting.*

Action Requested: The Academic Council is requested to confirm the action taken report on the minutes of the previous meeting held on 2nd March 2019.

Discussion: Based on the discussions following action items as agreed upon by everyone were finalized and the same were circulated to all the members on 5th May 2019. Persons responsible for these action items have already initiated the actions, which will be shared in the next academic council meeting. ***Members agreed to hold the Half/One day workshop for the 2020-21 batch, on 27th July 2019 to discuss the new game plan for PG programs.***

- With reference to inviting members from Coventry University it was felt that it is better to invite engineering faculty rather than administrative officials.

- With reference to giving credit to student exchange programs it was suggested to assess the students about their learnings from the exchange program at KLE Tech and give credits.

- With reference to branding & marketing Prof. Ashok Shettar mentioned that even though we have appointed a Director for banding & marketing but Strategy development is yet to be done.

- Mr. KNS Acharya asked to build a common layer for all braches that includes AI, ML and Analytics and suggested to build branch specific experience after this. He also volunteered to share case studies on this for Mechanical engineering.

- Ms. Gandhali and KNS made presentation on results analysis. Ms. Gandhali Sopal said it is better to have one big file instead of 104 files. Better to have a Master Data Base. The common link should be 'Course Number' instead of 'Student Registration Number'. Repeated changes in course code for the same subject leads to difficulty in analysis. Is it possible to have an unique course code.

- Life cycle of a course, student and faculty need to be done.

- Dr. Satyajit Majumdar suggested to look at 'Learning Management System' and other practices. He questioned what is it we want to do with analysis? And suggested to build statistical significance tests.

- Dr. Manjunath suggested to have a 'Office of Analysis'.

- Mr. Vivek Pawar opined that 'Data Integrity' is very important and unless the decisions are based upon the data analysis, data is of little use. Data is overwhelming. Identify things that you want to appreciate and build analytics around these. Communicate to stakeholders directly using this data. He also suggested to introduce Balance Score Card.

- Classify the data related to faculty into Top and Bottom. Further make the data related to 'Top' group public and 'Bottom' group private.

- Mr. KNS Acharya asked whether it is possible to BE degree with specialization.

- Dr. Manjunath suggested instead of providing BE degree with specialization, it is better to handle this issue with the verticals and brochure.

- Mr. Vivek Pawar: in the present job market low end jobs have gone and only high end jobs are present. Industries are reluctant to spend time on training.

- Mr. KNS Acharya inquired whether each department has the list of skills required by the industries relevant to their programs. Further he suggested to highlight skills of students in their testimonials.

Action points suggested by the members during the meeting are as follows:

S.No.	Issue raised in the 9th AC Meeting	Person Responsible	Time-line
1.	Contact Gubbi Labs	Dr Manjunath and Mr. M.S. Kolhar	Before 30th June 2019
2.	TIST: Explore engagement with Milind Sohoni and CTARA	Dr Manjunath , Dr. Gopal Joshi & Dr. Sanjay Kotabagi	by 27th July 2019
3.	Start office for data analysis	Dr. A V Nandi supported by Ms. Gandhali Sopal of KPIT	By 15th July 2019
4.	Provide Degree with Testimonial	Dr. Satyajit Majumdar and Dr. S.V. Patil.	by 10th May 2019 HOS/HOD to implement after students' Graduation.
5.	Branding of verticals: Coordination between program heads, Placement Office and Director Branding & Marketing	HOS/HOD, Prof Kerure and Mr. Kolhar	by 30th July 2019
6.	Making the PhD programs more relevant: Develop a model for industry researchers to jointly supervise research scholars	Dr. Manjunath, Dr. Satyajit Majumdar, Prof KNS Acharya and Dr. Uma	17th May 2019
7.	Program with Coventry University	Mr. KNS Acharya and Dr. Goplakrishna Joshi.	25th July 2019
8.	ML: Case studies relevant to Mechanical Engineering	Mr.KNS Acharya and Dr. BB Kotturshettar.	by 10th June 2019
9.	PhD Review & Oversight Committee	Dr. Manjunath and Dr. Uma	by 17th May 2019

Resolution: 9 .2 Resolved to confirm the action taken report on the minutes of its 8th meeting held on 2nd March 2019. The Academic Council appreciated the new initiatives taken by the Schools/ Departments.

AC 9.3	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same: a) VII & VIII Semesters of B.E.(2016-20) and b) B.Arch. (2016-21) programs
	The different Boards of studies constituted for different programs of the University, namely, B.E., and B.Arch have recommended the syllabi for 7th and 8th semesters of 2016-20 (BE); and 2016-2021 (B.Arch) batches.

Action Requested: The Academic Council is requested to discuss and approve the schemes and syllabi of the B.E, and B.Arch Programmes placed before it.

Discussion:

Prof. Prakash Tewari, Dean Academics briefed the broad changes in curriculum of various programs and presented the overview of the curriculum structure and content as approved by the respective Board of Studies of both UG and PG programs for review and approval.

- Mr. KNS wanted to know whether KLE Tech is allowed to start a new program. To this the Vice-chancellor's reply was yes, but if it doesn't fit into AICTE guidelines then such program will not get recognition.

- Mr. KNS Acharya informed that the 'Design Processes' are getting automated and School of Mechanical Engineering should take a note of it. He suggested to think on CAE with Design automation feature (Customization of CAE+ CATIA).

- Dr. Satyajit Majumdar wanted to know the selection criteria for 'Technology and Innovation for Social Transformation' (TIST) program. He suggested to design Assessment Rubrics for the new courses to be offered under TIST and should drive Techno-Social research activities. Supporting the idea Dr. Manjunath suggested to visit IIT, Mandi to know more about research opportunities.
- Mr. KNS Acharya wanted to know whether TIST in anyway connected to the institutional CSR. To this Prof. Ashok Shettar replied that it is related to the University mission. Further he suggested to stich a story and publish in social media.
- Dr. Manjunath informed that there are many industry experts with PhD who are eager to guide research scholars. Co-opt these experts from industry for PhD mentoring and they may be called as 'Professors of Practice' or 'Professors of Research & Practice'. Further he

explained about Joint Degree Program. To award degree jointly with other organizations he suggested to study the model of DAIT Pune.

- Prof. Ashok Shettar mentioned that two Samsung employees will enroll in KLE Tech and Dr. Lokesh will be their research supervisor.

- Mr. KNS Acharya suggested to prepare a pool of research supervisors/mentors who can guide research scholars and volunteered to contribute 4 to 5 names. Dr.Manjunath agreed to recommend 3 to 4 names.

- The new model suggested will have an academic guide and an industry guide for each industry research scholar.

- Mr. KNS Acharya opined that the new model should not be just a degree awarding model. One should also look into the value add for the University. Further he suggested that the University should recognize the industry courses and faculty should be deputed to industry for an agreed period of time for joint supervision. The advantage of this will be industry feel that its courses are recognized and faculty get trained in industry courses and gain expertise. Mr. Vivek Pawar also supported to this idea and said that faculty also get knowledge.

(The scheme and syllabi of all the departments are placed for the council approval in the form of book separately)

Resolution 9.3: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies:

a) **VII & VIII Semesters of B.E.(2016-20) and**

b) **B.Arch. (2016-21) programs**

AC 9.4	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same: a) V & VI Semesters of B.E.(2017-21) and B.Arch. (2017-22) programs b) V & VI Semesters of M.C.A program (2017-20)
	The different Boards of studies constituted for different programs of the University, namely, B.E., B.Arch., and M.C.A. have recommended the syllabi for 5th and 6th semesters of 2017-21 (BE); 2017-2022 (B.Arch); and 2017-2020 (MCA) programmes.

Action Requested: The Academic Council is requested to discuss and approve the schemes and syllabi of the B.E, B.Arch and MCA Programmes placed before it.

Discussion:

(The scheme and syllabi of all the departments are placed for the council approval in the form of book separately)

Resolution 9.4: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies:

a) V & VI Semesters of B.E.(2017-21) and B.Arch. (2017-22) programs

b) V & VI Semesters of M.C.A program (2017-20)

AC 9.5	To consider the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Boards of studies and approve the same:
	a) III & IV Semesters of B.E. (2018-22) and B.Arch. (2018-23) programs
	b) III & IV Semesters of M.Tech (2018-20) and IV, V & VI Terms of M.B.A (2018-20) programs and
	c) III & IV Semesters of M.C.A (2018-21)
	The different Boards of studies constituted for different programs of the University, namely, B.E., B.Arch., and M.C.A. have recommended the syllabi for 3rd and 4th semesters of 2018-22 (BE); 2018-2023 (B.Arch); 2018-2021 (MCA) and 2018-2020 (M.Tech & MBA).

Action Requested: The Academic Council is requested to discuss and approve the schemes and syllabi of the B.E, B.Arch, M.Tech, MCA and MBA Programmes placed before it.

Discussion:

(The scheme and syllabi of all the departments are placed for the council approval in the form of book separately)

Resolution 9.5: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies:

a) III & IV Semesters of B.E. (2018-22) and B.Arch. (2018-23) programs

b) III & IV Semesters of M.Tech (2018-20) and IV, V & VI Terms of M.B.A (2018-20) programs and

c) III & IV Semesters of M.C.A (2018-21)

AC 9.6	To consider and approve the recommendations of the respective Boards of studies for the academic programs mentioned below:
	
	a) Schemes for batches starting from 2019, 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 2019 of following programs:
	   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)
	c) Scheme of B.B.A. (I to IX Terms) & Syllabus of I, II & III Terms of B.B.A

	The different Boards of studies constituted for different programs of the University, namely, B.E., B.Arch., M. Tech., M.C.A. and MBA have recommended the schemes for 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) and syllabi for 1st and 2nd semesters of 2019-23 (BE); 2019-2024 (B.Arch); 2019-2022 (MCA); 2019-2021 (M.Tech & MBA) and 2019-2022 (B.Sc) batches.

Action Requested: The Academic Council is requested to discuss and approve the schemes and syllabi of the B.E, B.Arch, M.Tech, MCA MBA and B.Sc Programmes placed before it.

Discussion:

(The scheme and syllabi of all the departments are placed for the council approval in the form of book separately)

Resolution 9.6: Resolved to approve the Schemes and Syllabi of the below mentioned academic programs as recommended by respective Board of studies:

a) Schemes for batches starting from 2019, 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 2019 of following programs:
   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)

c) Scheme of B.B.A. (I to IX Terms) & Syllabus of I, II & III Terms of B.B.A

AC 9.7	Any other subject with the permission of the Chair.
	Nil