

# **Minutes**

**10<sup>th</sup> Board of Governors Meeting**

**of**

**KLE Technological University,**

Hubballi, Karnataka

December 9<sup>th</sup>, 2018 at 2.00 pm

Venue: Conference Room, NOVOTEL Hotel

PUNE



**KLE** Technological  
University

Creating Value  
Leveraging Knowledge

The following are the minutes of the Board of Governors Meeting of KLE Technological University, Hubballi which was held on 9<sup>th</sup> December 2018 at 2.00 pm. at the Conference Room, NOVOTEL Hotel, Pune.

Prof. P.G. Tewari, Dean Academics was asked to conduct the meeting in the absence of Prof. B.L. Desai, Registrar & Member Secretary of BOG. Prof. P.G. Tewari welcomed all the members of the Board of Governors and with the permission of the Chair, Member Secretary, BOG began the deliberations on the Agenda items.

**The following Members were Present.**

SL	Name	Designation
1	Dr. Prabhakar B. Kore <sup>MP</sup> Chairman, Board of Management, KLE Society, Belagavi & Chancellor, KLE Technological University, Hubballi	Chancellor
2	Prof B. S. Sonde Former Vice Chancellor, Goa University & Former Professor, IISc Bangalore. Nominee of UGC.	Member
3	Dr. Sudha N. Murty Chairperson, Infosys Foundation, Bengaluru. Nominee of sponsoring body, KLE Society.	Member
4	Dr. Ashok S. Shettar Vice Chancellor KLE Technological University, Hubballi	Vice Chancellor
6	Prof. Prakash G. Tewari Dean Academics KLE Technological University, Hubballi	Member

**The following members have sought leave of absence:**

SL	Name	Designation
1	The Principal Secretary/Secretary, Higher Education, Government of Karnataka.	Member
2	The Principal Secretary/Secretary, Medical Education, Government of Karnataka.	Member
3	Prof R. Natarajan Former Chairman, AICTE, & Former Director, IIT Madras. Nominee of sponsoring body, KLE Society.	Member
4	Prof. M.I. Savadatti Former Vice Chancellor, Mangalore University, Veerbhadrha Kripa, Navodaya Nagar, Dharwad-580003	Member
5	Prof. B.L. Desai Registrar KLE Technological University, Hubballi	Registrar

# Agenda

Item No.	Particulars	Page No
BOG 10.1	To confirm the minutes of the previous meeting held on 11 <sup>th</sup> June 2018.	1
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BOG 10.3	<p>To consider and approve the recommendations of the Executive Council held on 20<sup>th</sup> September 2018 on the resolutions of Finance Council of the University held on 14<sup>th</sup> September 2018.</p> <ul style="list-style-type: none"> <li>• To consider and approve the Audited Statements of the Financial Year 2017-18</li> <li>• To consider and approve the Budget proposal for the year 2019-20.</li> <li>• To consider and approve term loan of Rs. 10 crores during F.Y 2018-19 and Rs. 7.5 crores in F.Y. 2019-20 for major capital expenditures.</li> </ul>	10
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BOG 10.5	To review progress of implementation of the 'Strategic Plan' of the KLE Technological University.	13
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BOG 10.7	To discuss and approve the University Annual Report for the academic year 2017-18.	16
BOG 10.8	Any other subject with the permission of the Chair.	17
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	<p>Prof. B.L. Desai, Registrar welcomed all the members of the Board of Governors. With the permission of the Chair, Member Secretary, BOG began the deliberations on the Agenda items.</p> <p>The 9<sup>th</sup> Board of Governors Meeting of KLE Technological University, Hubballi was held on 11<sup>th</sup> June 2018 at 10 am at the Senate Hall of KLE Technological University, Hubballi.</p> <p><b>The following Members were Present.</b></p> <table border="1" data-bbox="397 546 1461 1585"> <thead> <tr> <th>SL</th> <th>Name</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dr. Prabhakar B. Kore <sup>MP</sup> Chairman, Board of Management, KLE Society, Belagavi &amp; Chancellor, KLE Technological University, Hubballi</td> <td>Chancellor</td> </tr> <tr> <td>2</td> <td>Prof R. Natarajan Former Chairman, AICTE, &amp; Former Director, IIT Madras. Nominee of sponsoring body, KLE Society.</td> <td>Member</td> </tr> <tr> <td>3</td> <td>Prof B. S. Sonde Former Vice Chancellor, Goa University &amp; Former Professor, IISc Bangalore. Nominee of UGC.</td> <td>Member</td> </tr> <tr> <td>4</td> <td>Prof. M.I. Savadatti Former Vice Chancellor, Mangalore University, Veerbhadrha Kripa, Navodaya Nagar, Dharwad-580003</td> <td>Member</td> </tr> <tr> <td>5</td> <td>Dr. Sudha N. Murty Chairperson, Infosys Foundation, Bengaluru. Nominee of sponsoring body, KLE Society.</td> <td>Member</td> </tr> <tr> <td>6</td> <td>Dr. Ashok S. Shettar Vice Chancellor KLE Technological University, Hubballi</td> <td>Vice Chancellor</td> </tr> <tr> <td>7</td> <td>Prof. B.L. Desai Registrar KLE Technological University, Hubballi</td> <td>Member Secretary</td> </tr> <tr> <td>8</td> <td>Prof. Prakash G. Tewari Dean Academics KLE Technological University, Hubballi</td> <td>Member</td> </tr> </tbody> </table> <p><b>The following members have sought leave of absence:</b></p> <table border="1" data-bbox="397 1638 1461 1827"> <thead> <tr> <th>SL</th> <th>Name</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>The Principal Secretary/Secretary, Higher Education, Government of Karnataka.</td> <td>Member</td> </tr> <tr> <td>2</td> <td>The Principal Secretary/Secretary, Medical Education, Government of Karnataka.</td> <td>Member</td> </tr> </tbody> </table>	SL	Name	Designation	1	Dr. Prabhakar B. Kore <sup>MP</sup> Chairman, Board of Management, KLE Society, Belagavi & Chancellor, KLE Technological University, Hubballi	Chancellor	2	Prof R. Natarajan Former Chairman, AICTE, & Former Director, IIT Madras. Nominee of sponsoring body, KLE Society.	Member	3	Prof B. S. Sonde Former Vice Chancellor, Goa University & Former Professor, IISc Bangalore. Nominee of UGC.	Member	4	Prof. M.I. Savadatti Former Vice Chancellor, Mangalore University, Veerbhadrha Kripa, Navodaya Nagar, Dharwad-580003	Member	5	Dr. Sudha N. Murty Chairperson, Infosys Foundation, Bengaluru. Nominee of sponsoring body, KLE Society.	Member	6	Dr. Ashok S. Shettar Vice Chancellor KLE Technological University, Hubballi	Vice Chancellor	7	Prof. B.L. Desai Registrar KLE Technological University, Hubballi	Member Secretary	8	Prof. Prakash G. Tewari Dean Academics KLE Technological University, Hubballi	Member	SL	Name	Designation	1	The Principal Secretary/Secretary, Higher Education, Government of Karnataka.	Member	2	The Principal Secretary/Secretary, Medical Education, Government of Karnataka.	Member
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	<p>or comments on the minutes of the 8<sup>th</sup> BOG meeting, which was circulated earlier. There were no specific comments or observations on minutes of 8<sup>th</sup> meeting.</p> <p><b>Resolution 9.1: The Board of Governors confirmed the minutes of its 8<sup>th</sup> meeting of the Board of Governors held on 24<sup>th</sup> March 2018 at the Board Room of KLE University, J N Medical College campus, Belagavi.</b></p>
BOG 9.2	<p>To confirm the action taken report on the minutes of the previous meeting held on 11th June 2018.</p> <p><b>Discussion:</b> Participating in the discussions, Prof. B.S. Sonde, UGC nominee suggested reserving a small percentage for IIT-JEE to attract better ranking students as well as to promote diversity among students. Dr. Prabhakar Kore, Chairman BOG appreciated the suggestion and informed to keep 5% seats reserved for IIT-JEE rankings.</p> <p>Prof. M.I. Savadatti expressed the need to invite eminent persons from abroad and IIT/IIsc for a semester. Prof. B.S. Sonde also suggested identifying expert persons from North-Karnataka region who are serving in US and offer them positions in the University when they are visiting India on sabbatical leave.</p> <p>Prof. R. Natarajan wanted to know the experience of Dr. Ashok Shettar as Chairman of AICTE Examination Committee. To this Dr. Shettar informed the major reforms suggested in his report. He said the first part is about assessment; splitting ‘Programme Outcomes’ into Competencies and further into Performance Indicators and relating them to questions. Second part is about ‘How to overcome rote learning’. It also includes creating experiential learning for the students and how to assess. Prof. Natarajan expressed that the report should become a Handbook with relevant examples.</p> <p>Referring to curriculum structure of first year Prof. B.S. Sonde draw the attention of the members about AICTE’s model curriculum and 3 weeks ‘Induction Programme’.</p> <p><b>Resolution 9.2: Resolved to confirm the action taken report on the minutes of the previous meeting held on 24<sup>th</sup> March 2018.</b></p>
BOG 9.3	<p><b>To consider and discuss the revised curriculum structure and new academic initiatives of UG programs approved by the Academic Council.</b></p> <p><b>Discussion:</b> Dr. Prabhakar Kore, Chairman BOG asked the Vice-chancellor to send a team of 4 students to sugar Industry for internship. Referring to ‘Swachh Bharat Summer Internship’ (SBSI) Prof. B.S. Sonde expressed the need for some relevance to the students’ domain. Chairman BOG wanted to know how many Hubli-Dharwad students have registered for ‘Swachh Bharat Summer Internship’. Prof. M.I. Savadatti said if there is no clarity about how to do this type of internship then he wanted KLE Tech should develop guidance for doing this type internship and communicate to UGC/AICTE. Participating in the discussions Smt. Sudha Murty expressed the need for SBSI and expressed that to become excellent engineer one should be excellent human being. Further madam wanted to know whether University is giving any financial help to BE completed students to start their company. To this Vice-Chancellor said that at</p>

	<p>present only space, furniture and electricity are given, capital should be brought by the graduates who wish to start their company. Prof. B.S. Sonde suggested having neutral examiners to assess 'Start-up Internship Experience' course. To this Smt. Sudha Murty expressed that the startup may not be interested in 3<sup>rd</sup> person looking at their work.</p> <p><b>Resolution 9.3: BOG noted the revised curriculum structure that provides an opportunity for UG students to do 'Industry-Internship' for at least 5 months during their 8th semester and the following new academic initiatives of UG programs approved by the Academic Council:</b></p> <ol style="list-style-type: none"> <li><b>1. Swachh Bharat Summer Internship – 3 credit course</b></li> <li><b>2. Institutional Research Project (IRP) Internship – 6 credit course and</b></li> <li><b>3. Start-up Internship Experience (SIE) – 6 credit course</b></li> </ol>
BOG 9.4	<p><b>To consider and discuss the appointment of Vice-chancellor and Registrar for the second term.</b></p> <p><b>Discussion:</b> Dr. Prabhakar Kore, Chairman BOG enquired about the eligibility criteria for both Vice-chancellor and Registrar posts. To this Prof. B.S. Sonde, Prof. R. Natarajan and Prof. M.I. Savadatti replied and informed the eligibility criteria as per Government of Karnataka and UGC.</p> <p><b>Resolution 9.4: BOG resolved to ratify the action taken by the Chancellor in renewing the appointment of the Vice-chancellor and the Registrar for the second term as per the KARNATAKA ACT NO. 22 OF 2013 THE KLE TECHNOLOGICAL UNIVERSITY ACT, 2012 and the FIRST STATUTES OF THE KLE TECHNOLOGICAL UNIVERSITY.</b></p> <ul style="list-style-type: none"> <li>• <b>Dr. Ashok S. Shettar is re-appointed as the Vice-Chancellor of the KLE Technological University, Hubballi for a further period of three years and</b></li> <li>• <b>Prof. B.L. Desai is re-appointed as the Registrar of the KLE Technological University, Hubballi for a further period of one year.</b></li> </ul>
BOG 9.5	<p><b>Any other subject with the permission of the Chair.</b></p> <p><b>Table Agenda 1: To open the fixed deposit accounts with Axis Bank Ltd, Vidyanagar Branch, Hubballi.</b></p> <p>Discussions: The Vice Chancellor informed the BOG that the University had approached Axis Bank Ltd., Vidyanagar Branch for issuance of Fixed/ Term Deposit as per the rules.</p> <p><b>Resolution 9.5a: BOG considered the request of the Vice-Chancellor and accorded permission to:</b></p> <ul style="list-style-type: none"> <li>• <b>Open the fixed deposit accounts with Axis Bank Ltd., Vidyanagar Branch, Hubballi.</b></li> <li>• <b>Get Fixed Deposits issued from Axis Bank, Vidyanagar Branch for any specified amount as per the requirement of the University.</b></li> </ul>

	<p><b>Table Agenda 2: To consider and accord permission to raise a loan of Rs.10.00 Crores towards construction of Indoor Stadium.</b></p> <p>Discussions: The Vice Chancellor requested the BOG to accord permission to raise Rs. 10.00 Crores loan towards construction of a large indoor stadium that would cater to the needs of increasing student population on the campus. He said it will be designed in such a way that it will meet the needs of sports as well as conduct of University convocation and other big events.</p> <p><b>Resolution 9.5b: BOG considered the request of the Vice-Chancellor and accorded permission to raise Rs. 10.00 Crores loan towards construction of Indoor Stadium.</b></p>
<p><i>Chairman thanked all the members for their contributions and the meeting was concluded with a vote of thanks to the Chair.</i></p>	

**Action Requested:** To confirm the minutes of the 9<sup>th</sup> BOG meeting held on 11<sup>th</sup> June 2018.

**Discussion:** The member secretary requested honorable members for any observations or comments on the minutes of the 9<sup>th</sup> BOG meeting, which was circulated earlier. There were no specific comments or observations on minutes of 9<sup>th</sup> meeting.

**Resolution 10.1: The Board of Governors confirmed the minutes of its 9<sup>th</sup> meeting of the Board of Governors held on 11<sup>th</sup> June 2018 at the Senate Hall of the KLE Technological University, Hubballi.**

<b>BOG 10.2</b>	<b>To confirm the action taken report on the minutes of the previous meeting held on 11<sup>th</sup> June 2018.</b>	
<b>Agenda</b>	<b>Description</b>	<b>Action Taken</b>
BOG 9.1	<p>To confirm the minutes of the previous meeting held on 24<sup>th</sup> March 2018.</p> <p><b>Discussion:</b> The member secretary requested honorable members any observations or comments on the minutes of the 8<sup>th</sup> BOG meeting, which was circulated earlier. There were no specific comments or observations on minutes of 8<sup>th</sup> meeting.</p> <p><b>Resolution 9.1: The Board of Governors confirmed the minutes of its 8<sup>th</sup> meeting of the Board of Governors held on 24<sup>th</sup> March 2018 at the Board Room of KLE University, J N Medical College campus, Belagavi.</b></p>	Noted.
BOG 9.2	<p>To confirm the action taken report on the minutes of the previous meeting held on 11<sup>th</sup> June 2018.</p> <p><b>Discussion:</b> Participating in the discussions, Prof. B.S. Sonde, UGC nominee suggested to reserve a small percentage for IIT-JEE from attracting better ranking students as well as to promote diversity among students. Dr. Prabhakar Kore, Chairman BOG appreciated the suggestion and informed to keep 5% seats reserved for IIT-JEE rankings.</p> <p>Prof. M.I. Savadatti expressed the need to invite eminent persons from abroad and IIT/Ilsc for a semester. Prof. B.S. Sonde also suggested identifying expert persons from North-Karnataka region who are serving in US and offer them positions in the University when they are visiting India on sabbatical leave.</p> <p>Prof. R. Natarajan wanted to know the experience of Dr. Ashok Shettar as Chairman of AICTE Examination Committee. To this Dr. Shettar informed the</p>	The Board noted and approved the action taken report on the minutes of the 9 <sup>th</sup> meeting of the Board of Governors held on 11 <sup>th</sup> June 2018.

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1. **Swachh Bharat Summer Internship – 3 credit course**
2. **Institutional Research Project (IRP) Internship – 6 credit course and**
3. **Start-up Internship Experience (SIE) – 6 credit course**

India Chip	4	19	5
Humanoid	1	1	1
AEV	14	22	7
<b>IRP-2: Research Projects with External Funding</b>			
IDH	4	8	4
<b>Total</b>	<b>31</b>	<b>64</b>	<b>27</b>

3. **Start-up Internship Experience (SIE):** 93 students registered for this 6 credit course through CTIE with 11 startups on the campus. Students belonging to various engineering disciplines such as Computer Science, Mechanical Engineering and Biotechnology were exposed to various real-world projects during the internship.

The 8-week internship offered students a peek into the corporate world and made them aware of the real-world challenges and how innovation can help overcome these challenges. The experience was also an eye-opener for the young minds to consider entrepreneurship as a real option which might help them become the success stories of tomorrow.

Faculty guides were allocated by the respective department heads. Faculty guides along with industry mentor from the startup company monitored the progress. During 8 weeks of internship 2 reviews were conducted to award the marks.

BOG 9.4	<p><b>To consider and discuss the appointment of Vice-chancellor and Registrar for the second term.</b></p> <p><b>Discussion:</b> Dr. Prabhakar Kore, Chairman BOG enquired about the eligibility criteria for both Vice-chancellor and Registrar posts. To this Prof. B.S. Sonde, Prof. R. Natarajan and Prof. M.I. Savadatti replied and informed the eligibility criteria as per Government of Karnataka and UGC.</p> <p><b>Resolution 9.4: BOG resolved to ratify the action taken by the Chancellor in renewing the appointment of the Vice-chancellor and the Registrar for the second term as per the KARNATAKA ACT NO. 22 OF 2013 THE KLE TECHNOLOGICAL UNIVERSITY ACT, 2012 and the FIRST STATUTES OF THE KLE TECHNOLOGICAL UNIVERSITY.</b></p> <ul style="list-style-type: none"> <li>• <b>Dr. Ashok S. Shettar is re-appointed as the Vice-Chancellor of the KLE Technological University, Hubballi for a further period of three years and</b></li> <li>• <b>Prof. B.L. Desai is re-appointed as the Registrar of the KLE Technological University, Hubballi for a further period of one year.</b></li> </ul>	<p>Both Dr. Ashok S. Shettar and Prof. B.L. Desai have continued in their present posts as Vice-chancellor and Registrar of KLE Technological University respectively.</p>
BOG 9.5	<p><b>Table Agenda 1: To open the fixed deposit accounts with Axis Bank Ltd, Vidyanagar Branch, Hubballi.</b></p> <p>Discussions: The Vice Chancellor informed the BOG that the University had approached Axis Bank Ltd., Vidyanagar Branch for issuance of Fixed/ Term Deposit as per the rules.</p> <p><b>Resolution 9.5a: BOG considered the request of the Vice-Chancellor and accorded permission to:</b></p> <ul style="list-style-type: none"> <li>• <b>Open the fixed deposit accounts with Axis Bank Ltd., Vidyanagar</b></li> </ul>	<ul style="list-style-type: none"> <li>• University has opened the fixed deposit accounts with Axis Bank Ltd., Vidyanagar Branch, Hubballi to procure CNC machine from DMG MORI for our MakerSpace.</li> <li>• The loan of Rs. 10.00 crores towards construction of Indoor stadium will be raised shortly.</li> </ul>

	<p><b>Branch, Hubballi.</b></p> <ul style="list-style-type: none"> <li>• <b>Open Fixed Deposits at Axis Bank, Vidyanagar Branch for any specified amount as per the requirement of the University.</b></li> </ul> <p><b>Table Agenda 2: To consider and accord permission to raise a loan of Rs.10.00 Crores towards construction of Indoor Stadium.</b></p> <p>Discussions: The Vice Chancellor requested the BOG to accord permission to raise Rs. 10.00 Crores loan towards construction of a large indoor stadium that would cater to the needs of increasing student population on the campus. He said it will be designed in such a way that it will meet the needs of sports as well as conduct of University convocation and other big events.</p> <p><b>Resolution 9.5b: BOG considered the request of the Vice-Chancellor and accorded permission to raise Rs. 10.00 Crores loan towards construction of Indoor Stadium.</b></p>	
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**Action Requested:** The BOG is requested to confirm the action taken report on the minutes of the previous meeting held on 11<sup>th</sup> June 2018.

**Discussion:** Referring to agenda BOG 9.5 Prof. Ashok Shettar, VC informed the Board that the University has applied for Rs. 10.00 crores loan towards construction of Indoor stadium and it is expected to be sanctioned by the bank shortly.

**Resolution 10.2: Resolved to confirm the action taken report on the minutes of the previous meeting held on 11<sup>th</sup> June 2018.**

**BOG  
10.3**

**To consider and approve the recommendations of the Executive Council held on 20<sup>th</sup> September 2018 on the resolutions of Finance Council of the University held on 14/09/2018.**

- To consider and approve the Audited Statements of the Financial Year 2017-18 (attached as Annex 1).**
- To consider and approve the Budget proposal for the year 2019-20 (attached as Annex 2).**
- To consider and approve term loan of Rs. 10 crores during F.Y 2018-19 and Rs. 7.5 crores in F.Y. 2019-20 for major capital expenditures.**

The 4<sup>th</sup> Finance Council meeting was held on 14<sup>th</sup> September 2018 and the recommendations were placed before the Executive Council for consideration and approval on 20<sup>th</sup> September 2018. The Executive Council approved recommendations of the Finance Council are placed before the BOG for consideration and approval.

The details of the minutes of the finance council meeting are as below.

**Agenda Point 4.1: To read and confirm the minutes of the previous meeting held on 16<sup>th</sup> September 2017.**

**Resolution 4.1:** Resolved to confirm the minutes of the previous meeting held on 16<sup>th</sup> September 2017.

**Agenda Point 4.2: To consider and approve the Audited Statements of the Financial Year 2017-18**

**Resolution 4.2:** The audited statements of the year 2017-18 were approved. The same is recommended for consideration and approval by the Executive Council.

(Ref: Section 54 of Chapter VI of KLE Technological University Act 2012 and Section 19.8(i) of chapter IV of the statutes of KLE Technological University)

**Agenda Point 4.3: To consider and approve the Budget proposal for the year 2019-20.**

**Resolution 4.3:** The budget for the year 2019-20 is approved. The same is recommended for consideration and approval by the Executive Council.

(Ref: Section 19.8(i) of chapter IV of the statutes of KLE Technological University)

**Agenda Point 4.4: Any other subject with the permission of the Chair.**

**Table Agenda :** To consider and approve term loan of Rs. 10 crores during F.Y 2018-19 and Rs. 7.5 crores in F.Y. 2019-20 for major capital expenditures.

**Resolution 4.4:** Resolved to approve the term loan of Rs. 10 crores during F.Y 2018-19 and Rs. 7.5 crores in F.Y. 2019-20 for major capital expenditures.

Note: The loan for Rs.10 crores was approved in the 1<sup>st</sup> Finance Council Meeting. But one of the projects did not begin as planned and only Rs. 4 crores was utilized, hence fresh

approval is taken for the year 2018-19.
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**Action Requested:** The BOG is requested to consider and approve the recommendations of the Executive Council.

**Discussion:** Participating in the discussion Prof. B.S. Sonde asked for presence of any audit objections in the audited report. To this Vice-chancellor replied no objections were reported. Further, Prof. Ashok Shettar, VC informed that Rs. 12.5 Crores has been reserved for indoor stadium.

Prof. B.S. Sonde wanted to know whether depreciation on buildings is shown in the budget. He also advised to get handing over letter of 'RH Kulkarni Building' to the University.

Prof. B.S. Sonde also advised to set aside 7 to 10% amount for maintenance of buildings.

**Resolution 10.3: Resolved to approve the audited statements of the financial year 2017-18, budget for the year 2019-20 and term loan of Rs. 10 crores during F.Y 2018-19 and Rs. 7.5 crores in F.Y. 2019-20 for major capital expenditures as recommended by the 4<sup>th</sup> Finance Council, which was held on 14<sup>th</sup> September 2018.**

<b>BOG 10.4</b>	<b>To discuss and approve 'Intellectual Property (IP) Policy' of the University (attached as Annex 3).</b>
	KLE Tech recognizes the importance of innovations and assists in translating them into products, processes and services for both commercial benefits and achieves the widest public good. The features of this IP Policy aim to meet such needs and enable KLE Tech to achieve its vision. KLE Tech's IP policy is designed to identify, protect and leverage the bouquet of IPs that is generated from research– patents, copyrights, design rights and trademarks amongst others, that serve the purpose of knowledge diffusion and commercialization.

**Action Requested:** The BOG is requested to discuss and approve 'Intellectual Property (IP) Policy' of the University.

**Discussion:** Presenting the IP policy of the University Prof. Ashok Shettar informed how IP policy works with following three cases:

**I-A)** When IP is generated using KLE Tech's research facilities (significant resources) (Labs, workshops, software and computing systems) jointly by external party and KLE Tech personnel.

**I-B)** When IP is generated by external party using research facilities (significant resources) of KLE Tech.

**I-C)** When IP is generated by KLE Tech students and personnel while working with an external party and using their research facilities (significant resources).

Members expressed satisfaction over the 'IP Policy' of the University.

**Resolution 10.4: Resolved to approve the 'Intellectual Property (IP) Policy' of the University.**

<b>BOG 10.5</b>	<p><b>To review progress of implementation of the 'Strategic Plan' of the KLE Technological University.</b></p> <p>The Strategic Plan provides an overarching framework of goals and objectives that establishes priorities and informs decision making and annual budgets. KLE Technological University Strategic Plan 2017-22, as the guiding document for the institution was reviewed and approved by the Executive Council on December 27<sup>th</sup>, 2016 and the Board of Governors on 17<sup>th</sup> February 2017. The approved 'Strategic Plan' is being implemented. The first review of progress of implementation was carried out during 6<sup>th</sup> EC meeting held on 15<sup>th</sup> March 2018 followed by BOG on 24<sup>th</sup> March 2018 and the second review by EC was carried out on 20<sup>th</sup> September 2018 followed by BOG on the same day. The progress of implementation need to be reviewed and reflected upon annually.</p>
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**Action Requested:** The BOG is requested to review the progress of implementation of the 'Strategic Plan' of the KLE Technological University.

**Discussion:** Presenting the progress of implementation of strategic plan of the University the Vice-chancellor presented the need for 'OKR' method as KPIs are static and are of use only to make post-mortem. So, to have better control over progress and to make course corrections 'OKR' method is very effective. He presented 'OKRs' of Dean Academics and Dean R&D, which in-turn will get cascaded as HoDs OKRs. By this method there will be proper alignment, which will help to ensure the operational effectiveness by timely attainment of results.

**Resolution 10.5: BOG expressed its satisfaction over the progress made in implementation of the 'Strategic Plan' of the KLE Technological University and asked to focus on few goals at a time to get maximum impact.**

**BOG  
10.6**

**To discuss and ratify Undergraduate Minor Programme in 'Advanced Manufacturing for Aerospace Applications' that has been instituted by the University during summer semester of the academic year 2017-18 (attached as Annex 4).**

**Scheme and Syllabi of 'Advanced Manufacturing for Aerospace Applications' Minor Program.**

Background information:

The Indian aviation industry has grown at a rapid pace over the last decade. Now India is the ninth largest civil aviation market in the world and is projected to become the third largest by 2020. Over next 10-12 years, according to a joint report by India Electronics & Semiconductor Association (IESA), NASSCOM and Roland Berger, the market for India's aerospace and defence sector is projected to reach US\$ 70 billion from its present size of just US\$ 1.7 billion.

The Make in India initiative announced by Prime Minister Narendra Modi in September 2014, there are signs that things are changing for the better.

Evidently, as a recent report prepared by CII and its knowledge partner KPMG, explored the possibilities of the sector in India emerging as one of the **shining sectors** says: The aerospace sector in the country is at the inflection point, similar to the telecom and automotive sectors two or three decades ago. Hence it needs sustained government support to develop critical mass, skills and R & D to achieve its full potential.

India desperately needs to build up its aviation manufacturing base without losing further time.

Proposal:

India's fast growing civil aviation sector offers tremendous growth prospects for the aerospace industry in the country. While the Indian automobile industry and the space industry have done quite well, aviation-based manufacturing has lagged woefully behind. Seeing an opportunity here, the School of Mechanical Engineering has collaborated with AEQUS – a leading Indian aerospace sub systems' manufacturing company, located in SEZ, Belgaum to strengthen specialized skills through a Minor program in 'Advanced Manufacturing for Aerospace Applications'. Students spend about 1/3rd of their course duration on AEQUS campus to acquire real-time exposure to advanced processes, tooling and standards. Experts from AEQUS engage students through course offerings along with faculty members from the School. A 3-axis CNC VMC by DMG-MORI, Japan is being procured to help students practice gaining experience in an industry like environment. AEQUS has also offered internship and project work during eighth semester for the students who have successfully completed the minor program. This initiative is expected to enhance the employability of our students in the field.

**Minor Program in 'Advanced Manufacturing for Aerospace Applications'**

15 credits, 5 courses + Final semester project in an Aerospace Sub systems' Manufacturing Company.

**Action Requested:** The BOG is requested to discuss and ratify institution of 'Advanced Manufacturing for Aerospace Applications' undergraduate Minor programme and also note the scheme and syllabi of the programme.

**Discussion:** Prof. B.S. Sonde asked to explore offering SWAYAM, DIPLOMA and CERTIFICATE courses.

**Resolution 10.6: BOG ratified the institution of Undergraduate Minor Programme in 'Advanced Manufacturing for Aerospace Applications' and noted the scheme and syllabi of the programme.**

<b>BOG 10.7</b>	<b>To discuss and approve the University Annual Report for the academic year 2017-18.</b>
	<p>The KLE Technological University has completed its third year and the annual report for the academic year 2017-18 has been placed before the Board of Governors for approval.</p> <p>Annual Report is given in <b>Annexure 5</b></p>

**Action Requested:** The BOG is requested to review and approve the third annual report of the KLE Technological University.

**Discussion:** After reviewing the ‘Annual Report: 2017-18’ Mrs. Sudha Murty made following comments and volunteered to send two annual reports of Infosys Foundation.

- Opening page should carry Chairman’s message
- One page should carry ‘Connecting Line’. It should be heart touching.
- Use Indian quotes e.g. DVG, Shivarudrappa etc.
- For cover page design conduct competition among students by giving theme.
- Do not repeat photos.

Participating in the discussion Prof. B.S. Sonde mentioned that faculty are important stake holders of the University. Hence, the annual report should include list of retired people and achievers list. He also advised to include listing of faculty publications and he asked the University team to refer IISc reports.

Prof. B.S. Sonde emphasized the need to get NBA and NAAC accreditation. To this Prof. Ashok Shettar, VC mentioned that NBA has identified KLE Tech as one of the two institutions to which ‘Washington Accord’ team will visit during September 2019.

**Resolution 10.7: BOG approved the Annual report of the University for the academic year 2017-18.**

<b>BOG 10.8</b>	<b>Any other subject with the permission of the Chair.</b>

**Table Agenda No: 10.8a: To consider & approve the Institution of Bachelor of Business Administration a new program of study from the academic year 2019-20, with the student intake of 120.**

**Discussion:** Dr. Ashok Shettar, Vice-Chancellor informed the Board about the need and justification to start the BBA program at KLE Tech. Participating in the discussion Dean Academics informed that the following facilities have been created for the commencement of Bachelor of Business Administration at KLE Technological University.

<b>Sl.No</b>	<b>Facility</b>
1	Classroom of 60 capacity (Student Strength/60) – 2 Class Rooms
2	Computing facility- Computers (including Wi-fi network, software) 3:1 ratio
3	Library – Physical and Digital
4	Administrative (Office, Director/Principal chamber, Visitors Lounge...)
5	Faculty wing (Cubical and Utilities)
6.	Syndicate Rooms – 2 Nos

**Resolution 10.8a: Resolved to approve the institution of Bachelor of Business Administration (BBA) from the academic year 2019-20 at KLE Technological University with an intake of 120.**

**Table Agenda No: 10.8b : To discuss and ratify the Memorandum of Understanding with Coventry University, UK.**

**Discussion:** Vice Chancellor informed that the KLE Technological University wants to create a better learning environment to students and give them a multi-cultural exposure. Hence it has entered into a MoU with Coventry University, one of the leading universities of United Kingdom.

**Resolution 10.8b: Resolved to ratify the Memorandum of Understanding with Coventry University, United Kingdom.**

# Annexure-1

[Audited Statements of the Financial Year 2017-18]

**Financials**  
**KLE Technological University, Hubballi**  
**Income and Expenditure Statement for the year 2017-18**  
**(Includes Capital Expenditures)**

Income	Amount (Rs)	Revenue Expenditures	Amount (Rs)	Capital Expenditures	Amount (Rs)
Academic Receipts	443,016,131.00	Staff Payments & Benefits	291,323,101.00	Buildings	66,452,727.00
Grants and Donations	91,104,283.00	Academic Expenses	47,923,669.00	Equipments	21,850,190.00
Income from Investments	8,705,188.00	Administrative & General Expenses	46,502,987.00	Computers	16,095,372.00
Other Incomes	6,267,859.00	Transportation Expenses	704,839.00	Furnitures & Fixtures	28,323,013.00
		Repairs & Maintenance	38,170,208.00	Software	4,232,111.00
		Finance Costs	4,622,528.00	Books	1,523,340.00
		Research and Development	6,836,680.00	Vehicle	140,784.00
		Depreciation	36,663,392.00	Research and Development	10,062,851.00
<b>Total</b>	<b>549,093,461.00</b>	<b>Total</b>	<b>472,747,404.00</b>	<b>Total</b>	<b>148,680,388.00</b>
		Capital Expenditure Total	148,680,388.00		
To Deficit (Excess of Expenditure over Income)	72,334,331.00				
<b>Grand Total</b>	<b>621,427,792.00</b>	<b>Grand Total</b>	<b>621,427,792.00</b>		

## KLE TECHNOLOGICAL UNIVERSITY, HUBBALLI

# AUDIT REPORT

We have conducted the audit of the financial transactions of **KLE TECHNOLOGICAL UNIVERSITY, HUBBALLI** for the year ended on 31/03/2018 and examined the Balance Sheet of the institution as on 31/03/2018 and Income & Expenditure Account for the year ended on that date and the same are in agreement with the books of accounts maintained.

These financial statements are the responsibility of the Management of the University. Our responsibility is to express an opinion on these statements based on our audit.

We have conducted our audit in accordance with auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements/financial transactions revealed in the books and records maintained are free of material misstatement. An audit includes examining on a test basis, Evidence supporting the amounts and disclosures made. Accordingly we have carried out reasonable test checks and sampling techniques as deemed appropriate keeping in view the scope of audit. We believe that our audit provides a reasonable basis for our opinion.

We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of the audit.

In our opinion and to the best of our information and according to explanations given to us, and as per the Scope of Audit, our verification results into the specific observations given in the annexure enclosed hitherto, the said accounts, read with notes thereon, give,

- i) In case of Income & Expenditure A/c for the year ended on 31st March 2018, a true and fair view of the Surplus of the institution and
- ii) In case of Balance Sheet, the State of Affairs as on that date.

**For, Chennai Associates  
Chartered Accountants**

**Sd/-  
CA. Suresh K Chennai  
Proprietor  
M NO 26214 FRN: 000622S**

**PLACE: HUBBALLI  
DATE : 10/09/2018**

**KLE TECHNOLOGICAL UNIVERSITY  
BVB College Campus, Vidyanagar, Hubballi-31**

**BALANCE SHEET AS ON 31st MARCH 2018**

**(Amounts in Rs)**

<b>A</b>	<b>SOURCE OF FUNDS</b>	<b>Schedule</b>	<b>Current Year</b>	<b>Previous Year</b>
<b>1</b>	<b>UNRESTRICTED FUNDS</b>			
	Corpus	1	117,681,417	111,023,080
	General Fund	2	260,968,849	187,721,443
	Designated/Earmarked Funds	3	62,126,680	24,769,397
<b>2</b>	<b>RESTRICTED FUNDS</b>	4	3,600,682	3,229,471
<b>3</b>	<b>LOANS/BORROWINGS</b>	5		
	Secured		49,499,502	25,033,390
	Unsecured		-	
<b>4</b>	<b>CURRENT LIABILITIES &amp; PROVISIONS</b>	6	35,754,020	34,677,783
	<b>TOTAL (A)</b>		<b>529,631,150</b>	<b>386,454,565</b>
<b>B</b>	<b>APPLICATION OF FUNDS</b>			
<b>1</b>	<b>FIXED ASSETS</b>	7		
	Tangible Assets		326,464,665	168,634,867
	Intangible Assets		8,616,143	2,350,829
	Capital Work-In -Progress		12,042,773	23,203,921
<b>2</b>	<b>INVESTMENTS</b>	8		
	Long Term		108,413,274	105,322,314
	Short Term		-	
<b>3</b>	<b>CURRENT ASSETS</b>	9	55,348,799	60,214,241
<b>4</b>	<b>LOANS, ADVANCES &amp; DEPOSITS</b>	10	18,745,495	26,728,392
	<b>TOTAL (B)</b>		<b>529,631,150</b>	<b>386,454,565</b>

Note :The Accompanying Notes 1 To 10 are an integral part of the Financial Statements

As per our report of even date.

**Chenni Associates**  
Chartered Accountants

Sd/-  
Finance Officer  
KLE Technological University  
Hubballi

Sd/-  
Registrar  
KLE Technological University  
Hubballi

Sd/-  
CA Suresh K Chenni  
Proprietor  
M NO 26214 FRN 000622S

**PLACE : HUBBALLI**  
**DATE : 10/09/2018**

**KLE TECHNOLOGICAL UNIVERSITY  
BVB College Campus, Vidyanagar, Hubballi-31**

**INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD ENDING 31-03-2018**

(Amounts in Rs)

Sl No	Particulars	Sche dule	Unrestricted Funds			Restricted Fund	Current Year (Total)	Previous Year (Total)
			Corpus	Designated Fund	General Fund			
<b>A</b>	<b>INCOME</b>							
	Academic Receipts	11			443,016,131		443,016,131	301,917,428
	Grants and Donations	12			91,104,283		91,104,283	-
	Income from Investments	13			8,705,188		8,705,188	8,436,046
	Other Incomes	14			6,267,859		6,267,859	4,282,077
	<b>Total(A)</b>		-	-	<b>549,093,461</b>	-	<b>549,093,461</b>	<b>314,635,550</b>
<b>B</b>	<b>EXPENDITURE</b>							
	Staff Payments & Benefits	15			291,323,101		291,323,101	124,727,632
	Academic Expenses	16			47,923,669		47,923,669	20,905,914
	Administrative & General Expenses	17			83,166,379		83,166,379	38,147,466
	Transportation Expenses	18			704,839		704,839	124,194
	Repairs & Maintenance	19			38,170,208		38,170,208	13,983,843
	Finance Costs	20			4,622,528		4,622,528	2,156,949
	Other Expenses (R & D)	21			6,836,680		6,836,680	4,159,390
	<b>Total(B)</b>				<b>472,747,404</b>		<b>472,747,404</b>	<b>204,205,388</b>
<b>C</b>	<b>Balance being excess of Income over Expenditure (A-B)</b>		-	-	<b>76,346,057</b>	-	<b>76,346,057</b>	<b>110,430,162</b>
	<u>Transfer to:</u>						-	-
	Corpus Fund				2,404,760		2,404,760	2,188,703
	University Endowment Fund				15,227			
	University Development Fund				678,664		678,664	711,420
<b>D</b>	<b>Balance Being Surplus carried to General Fund</b>		-	-	<b>73,247,406</b>	-	<b>73,247,406</b>	<b>107,530,039</b>

Note : The Accompanying Notes 11 To 21 are an integral part of the Financial Statements

As per our report of even date.  
**Chenni Associates**  
Chartered Accountants

Sd/-  
Finance Officer  
KLE Technological University  
Hubballi

Sd/-  
Registrar  
KLE Technological University  
Hubballi

Sd/-  
CA Suresh K Chenni  
Proprietor  
M NO 26214 FRN 000622S

**PLACE : HUBBALLI  
DATE : 10/09/2018**

**KLE TECHNOLOGICAL UNIVERSITY  
BVB College Campus, Vidyanagar, Hubballi-31**

**Schedules Forming Part of Balance Sheet**

**SCHEDULE 1 - CORPUS**

Particulars	(Amounts in Rs)	
	Current Year	Previous Year
Balance as at the beginning of the year	111,023,080	102,062,500
Add: Contributions towards Corpus	2,404,760	2,188,703
Add: Assets Transferred from BVB College (KLE Society)	4,253,577	6,771,877
Deduct: Asset written off during the year created out of corpus	-	-
<b>BALANCE AT THE YEAR-END</b>	<b>117,681,417</b>	<b>111,023,080</b>

**SCHEDULE 2 - GENERAL FUND**

Particulars	(Amounts in Rs)	
	Current Year	Previous Year
Balance as at the beginning of the year	187,721,443	80,191,404
Add: Contributions towards General Fund	-	-
Add: Balance of Net income transferred from the Income & Exp A/c	73,247,406	107,530,039
<b>BALANCE AT THE YEAR-END</b>	<b>260,968,849</b>	<b>187,721,443</b>

**SCHEDULE 3 - DESIGNATED/EARMARKED FUND**

Particulars	FUND WISE BREAK UP			Current Year (Total)	Previous Year (Total)
	Depreciation Reserve	Development Fund	University Endowment Fund		
	a) Opening Balance of the funds	23,705,977	963,420		
b) Additions to the funds:	-	-	-	-	-
i) Doantion/grants	-	-	-	-	-
ii) Income from investments made of the funds	-	-	-	-	-
iii) Accrued interest on investments of the funds	-	-	-	-	-
iv) Current Year Depreciation	36,663,392	-	-	36,663,392	18,632,642
v) Other additions (trfd. from Income & Exp A/c)	-	678,664	15,227	693,891	711,420
<b>TOTAL (a+b)</b>	<b>60,369,369</b>	<b>1,642,084</b>	<b>115,227</b>	<b>62,126,680</b>	<b>24,769,397</b>
c) Utilization/Expenditure towards objectives of funds	-	-	-	-	-
i) Capital Expenditure	-	-	-	-	-
- Fixed Assets	-	-	-	-	-
- Others	-	-	-	-	-
Total	-	-	-	-	-
ii) Revenue Expenditure	-	-	-	-	-
- Salaries, Wages and allowances etc.	-	-	-	-	-
- Rent	-	-	-	-	-
- Other Administration expenses	-	-	-	-	-
Total	-	-	-	-	-
<b>TOTAL (c)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>NET BALANCE AS AT THE YEAR-END (a+b+c)</b>	<b>60,369,369</b>	<b>1,642,084</b>	<b>115,227</b>	<b>62,126,680</b>	<b>24,769,397</b>

**SCHEDULE 4 - RESTRICTED FUNDS**

Particulars	FUND WISE BREAK UP			Current Year	Previous Year
	Specific Grant	Netra			
a) Opening Balance of the funds	3,229,471	-	-	3,229,471	-
b) Additions to the funds:	-	-	-	-	-
i) Donation/grants	-	500,000	-	500,000	-
ii) Income from investments made on account of funds	-	2,211	-	2,211	-
iii) Accrued interest on investments of the funds	-	-	-	-	-
iv) Other additions (Specify)	-	-	-	-	-
<b>TOTAL (a+b)</b>	<b>3,229,471</b>	<b>502,211</b>	<b>-</b>	<b>3,731,682</b>	<b>3,229,471</b>
c) Utilization/Expenditure towards objectives of funds	-	-	-	-	-
i) Capital Expenditure	-	-	-	-	-
- Fixed Assets	-	-	-	-	-
- Others	-	-	-	-	-
Total	-	-	-	-	-
ii) Revenue Expenditure	-	-	-	-	-
- Salaries, Wages and allowances etc.	-	131,000	-	131,000	-
- Rent	-	-	-	-	-
- Other Administration expenses	-	-	-	-	-
Total	-	131,000	-	131,000	-
<b>TOTAL (c)</b>	<b>-</b>	<b>131,000</b>	<b>-</b>	<b>131,000</b>	<b>-</b>
<b>NET BALANCE AS AT THE YEAR-END (a+b-c)</b>	<b>3,229,471</b>	<b>371,211</b>	<b>-</b>	<b>3,600,682</b>	<b>3,229,471</b>

Note: Netra Grant received is utilized for Netra ESDM only.

**SCHEDULE 5 - LOANS/BORROWINGS**
**SECURED LOANS**

Particulars		(Amounts in Rs)	
		Current Year	Previous Year
1. Central Government		-	
2. State Government (Specify)		-	
3. Financial Institutions		-	
a) Term Loans			
b) Interest accrued and due	-		
4. Banks		49,499,502.00	25,033,390.00
a) Term Loans	49,499,502.00		
- Interest accrued and due			
b) Other Loans (specify)			
- Interest accrued and due	-		
5. Other Institutions and Agencies		-	
6. Debentures & Bonds		-	
7. Others (Specify)		-	
<b>Total</b>		49,499,502.00	25,033,390.00

Note: Amounts due within one year

**UNSECURED LOANS**

Particulars		(Amounts in Rs)	
		Current Year	Previous Year
1. Central Government		-	
2. State Government (Specify)		-	
3. Financial Institutions		-	
4. Banks		-	
a) Term Loans	-		
b) Other Loans (specify)	-		
5. Other Institutions and Agencies		-	
6. Debentures & Bonds		-	
7. Fixed Deposits		-	
8. Others (Specify)		-	
<b>Total</b>		-	

Note: Amounts due within one year

**SCHEDULE 6 - CURRENT LIABILITIES & PROVISIONS**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
<b>A. CURRENT LIABILITIES</b>				
1. Deposits from students		336,000		160,000
i. Caution Deposit	335,000		160,000	
ii. SC/ST Library Deposit	1,000			
2. Sundry Creditors		8,860,504		4,794,529
a) For Goods & Services				
i. Basant Flooring (P) Ltd			39,360	
ii. Universal Electronics			13,821	
iii. Wishtel India Care			72,507	
iv. V.B Kalyan Shettar			1,485,000	
v. Tontadaraya Press			116,153	
vi. Meharwade and Sons			54,218	
vii. Institute of KLE Technology, Gokul Road			18,835	
viii. Prof.K V Rameshwar	15,000		15,000	
ix. Other Sundry Creditors	83,220		9,005	
x. Hescom	1,711,235		-	
xi. KLE CTIE	1,200,773		-	
xii. Workplace Designs	284,049		-	
xiii. S G Hiregoudar	131,612		-	
xiv. Vadiraj Electricals	12,216		-	
b) Others				
i. Security Deposit from Contractors	5,422,399		2,970,630	
3. Advances Received		-		-
4. Interest Accrued but not due on:		-		-

<b>5. Statutory Liabilities</b>		5,923,503		3,334,033
a) Overdue	-		-	
b) Others				
i. TDS on Professionals	316,493		77,242	
ii. TDS On Salary	3,881,764		2,171,810	
iii. TDS On Contract	95,898		93,920	
iv. Professional Tax	76,600		35,200	
v. ESIC	129,105		65,307	
vi. Provident Fund and admin charges	1,292,788		788,914	
vii. KSS Welfare Fund	52,875		50,820	
viii. KST Benefits Fund	52,875		50,820	
IX. GST	25,105			
<b>6. Other Current Liabilities</b>		20,634,013		26,389,221
a) Salaries	12,773,417		7,596,392	
b) Scholarship Payable	2,791,240		14,533,100	
c) Group Gratuity Payable	4,013,199		3,524,550	
d) LIC Payable	304,793		251,037	
e) Refund of Fees	100,000		-	
f) Group Insurance	13,440		450	
g) Staff co-operative credit society	637,924		483,692	
<b>TOTAL (A)</b>		<b>35,754,020</b>		<b>34,677,783</b>
<b>B. PROVISIONS</b>				
1. For Taxation			-	
2. Gratuity			-	
3. Superannuation/Pension			-	
4. Accumalated Leave Encashment			-	
5. Expenses Payable			-	
6. Trade Warranties/ Claims			-	
7. Others (Specify)			-	
<b>TOTAL (B)</b>				
<b>TOTAL (A+B)</b>		<b>35,754,020</b>		<b>34,677,783</b>

**SCHEDULE 7 - FIXED ASSETS**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
<b>1. Tangible Assets</b>		326,464,666		168,634,867
a) Buildings	180,952,158		102,260,802	
b) Computers and Networkings	34,784,948		17,924,742	
c) Equipments	59,549,609		27,781,332	
d) Furnitures & Fixtures	44,634,843		15,946,998	
e) Books	3,735,875		2,054,544	
h) Vehicle	2,807,232		2,666,448	
<b>2. Intangible Assets</b>		8,616,143		2,350,829
a) Software	8,616,143		2,350,829	
<b>3. Capital Work-in-progress</b>		12,042,773		23,203,921
a) Civil Department 2nd Floor Building	-		3,852,575	
b) E&C Department	-		19,351,346	
c) Ceer Lab , RHK Building	790,490			
d) CTIE Building	8,439,080			
e) Exam Cell	31,687			
f) MBA Building	2,428,057			
g) CLITE Building	353,459			
<b>Total</b>		<b>347,123,582</b>		<b>194,189,617</b>

**SCHEDULE 8 - INVESTMENTS**
**A) INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
1. In Central Government Securities		-		-
2. In State Government Securities		-		-
3. Other approved Securities		-		-
4. Shares		-		-
5. Debentures and Bonds		-		-
6. Others		108,413,274		105,322,314
FD with Syndicate Bank Hbl -124440511564/1 (Development Fund)	283,726		267,420	
FD with Syndicate Bank Hbl -124440511564/2 (Development Fund)	738,358		696,000	
FD with Syndicate Bank Hbl -124440511564/5 (Development Fund)	620,000			
FD with Syndicate Bank Hbl -124440511550/1 (Endowment Fund)	115,227		107,692	
FD with Syndicate Bank Blg 05044570000040/1 (Corpus Fund)	50,000,000		50,000,000	
FD with Syndicate Bank Blg 05044570000040/2 (Corpus Fund)	50,000,000		50,000,000	
FD with Syndicate Bank Hbl 124440511547/1 (Corpus Fund)	2,322,244		2,188,703	
FD with Syndicate Bank Hbl 124440511547/2 (Corpus Fund)	2,188,022		2,062,500	
FD with Syndicate Bank Hbl 124440511547/4 (Corpus Fund)	2,145,697			
<b>Total (A)</b>		<b>108,413,274</b>		<b>105,322,314</b>

**B) INVESTMENTS OTHERS**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
1. In Central Government Securities		-		
2. In State Government Securities		-		
3. Other approved Securities		-		
4. Shares		-		
5. Debentures and Bonds		-		
6. Others (to be specified)		-		
<b>Total (B)</b>		-		
<b>TOTAL (A+B)</b>		<b>108,413,274</b>		<b>105,322,314</b>

**SCHEDULE 9 - CURRENT ASSETS**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
1. Stock:		-		-
2. Sundry Debtors:	109,000	109,000	4,487	4,487
3. Cash balances in hand (including cheques/drafts & imprest)	43,158	43,158	29,889	29,889
4. Bank Balances (to be further classified as pertaining to earmarked fund or otherwise)		22,807,657		35,454,196
a) With scheduled Banks:				
- In Current Accounts			-	
SBI Current A/C No: 17330	261,965		186,828	
SBI Current A/C No:17523	87,019		107,168	
SBI Current A/C No:17409	36,218		52,368	
SBI Current A/C No:17001	18,341		74,990	
SBI Current A/C No:17125	64,869		50,518	
SBI Current A/C No:17205	46,252		264,918	
SBI Current A/C No:64210970983	1,052,540		4,367	
- In Term deposit Accounts				
Fixed Deposit with Syndicate Bank			28,000	
Fixed Deposit with SBI Bank	1,810,000			
- In Savings Accounts				
<b>Earmarked/Designated Funds</b>				
Syndicate Bank A/c No. 201/19313	22,460		17,636	
Syndicate Bank A/c No. 201/19293	1,080		1,030	
Syndicate Bank A/c No. 201/19309	4,018		3,214	
<b>General</b>				
Syndicate Bank A/c No. 201/18548	1,948,808		1,094,256	
Syndicate Bank A/c No. 201/9267	4,700,080		14,125,388	
Syndicate Bank A/c No. 201/17082	1,479,649		2,044,682	
Syndicate Bank A/c No. 201/17078	1,122,564		4,271,651	
Syndicate Bank A/c No. 201/17097	1,234,239		996,472	
Syndicate Bank A/c No. 201/17102	1,873,987		2,249,072	
Syndicate Bank A/c No. 201/9271	1,164,259		2,569,648	
Syndicate Bank A/c No. 201/25284	43,615		4,956	
Syndicate Bank A/c No. 201/24920	3,251,698		1,115,560	
Syndicate Bank A/c No. 201/32745	1,005			
Syndicate Bank A/c No. 201/281111	25,257.00			
Syndicate Bank A/c No. 201/30572	9,411.00			
Syndicate Bank A/c. No. 201/32750	61,267.00			
Syndicate Bank A/c. No. 201/32764	161,158.00			
Syndicate Bank A/c. No. 201/32779	181,224.00			
Syndicate Bank A/c. No. 201/32783	849.00			
Syndicate Bank A/c No. 201/3247	473,410			
Axis Bank A/c No. 916010057762037	194,785		5,091,476	
Axis Bank A/c No. 917010033263038	10,051			
Axis Bank A/c No. 917010033247007	10,051			
Axis Bank A/c No. 917010032209198	10,051			
Axis Bank A/c No. 917010033168344	10,051			
Ratnakar Bank A/c No. 309003292994	1,435,426		1,100,000	
b) With non-scheduled Banks:				
- In Current Accounts			-	
- In Term deposit Accounts			-	
- In Savings Accounts			-	
5. Post Office- Savings Accounts				
6. Rent Receivable	56,740	56,740	36,430	36,430
7. Fees and Scholarship Receivable		31,310,685		24,689,240
7. Electricity Charges Receivable		1,021,559		
<b>TOTAL</b>		<b>55,348,799</b>		<b>60,214,241</b>

**SCHEDULE 10 - LOANS, ADVANCES & DEPOSITS**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
1. Advances to employees: (Non-interest bearing)				
a) Advance to staff for office expenses	1,097,952	1,097,952	612,326	612,326
2. Long Term Advances to employees: (Interest bearing)		-		-
3. Advances and other amounts recoverable in cash or in kind or for value to be received:		14,514,115		9,675,837
<u>Advance To contractors</u>				
a) Associated Designes and Interiors			6,360,000	
b) Butterfly Innovations Pvt Ltd			300,000	
c) Excel Infotech	90,275		90,275	
d) Lighting Concepts Pvt Ltd			240,000	
e) Mangalmurti Artist Management			711,562	
f) M.D Shirahatti			50,000	
g) Rafiqueahmed M Mulla			14,000	
h) Reidus Technologies Pvt Ltd			1,700,000	
i) Suresh Kumar			10,000	
j) Vadiraj Electricals			200,000	
k) Installation India			-	
l) Shrusti Constructions			-	
m) AD Media	109.00			
n) Anand Photo Spot	2.00			
o) Arunkumar Shetty	339.00			
p) Canara Caterers	262.00			
q) Compage Automation Systems Pvt Ltd	43,070.00			
r) DMG Asia Pte Ltd	945,720.00			
s) Fides Electronics	236.00			
t) Global Media	267.00			
u) Grapholabels	149.00			
v) Habyte	580.00			
w) Khushi Hotel	2,122.00			
x) New Homes Infrastructure	12,980,384.00			
y) Rajkumar Travels	107.00			
z) Shri Ganesh Tours & Travels	672.00			
zi) Shubham Creations	276.00			
zii) Tinius Olsen	447,990.00			
ziii) Vasanth Shetty	1,405.00			
ziv) Meharwade & sons	150			
4. Prepaid expenses	633,755	633,755	1,731,570	1,731,570
5. Deposits	2,250	2,250		-
6. Income Accrued		-		2,062,500
a) On Investments from Earmarked/Endowment Funds			2,062,500	
b) On Investments - Others			-	
c) On Loans and Advances			-	
d) Others ( includes income due unrealised- Rs . . . )			-	
7. Other Receivable		2,497,423		12,646,159
i) TDS & TCS	2,114,304		1,962,721	
ii) KLE CTIE			513,144	
iii) BVB College of Engineering & Technology -Scholarship	383,119		10,170,294	
<b>TOTAL</b>		<b>18,745,495</b>		<b>26,728,392</b>

As per our report of even date.

**Chennai Associates**  
 Chartered Accountants

 Sd/-  
 Finance Officer  
 KLE Technological University  
 Hubballi

 Sd/-  
 Registrar  
 KLE Technological University  
 Hubballi

 Sd/-  
 CA Suresh K Chennai  
 Proprietor  
 M NO 26214

**PLACE : HUBBALLI**  
**DATE : 10/09/2018**

**KLE TECHNOLOGICAL UNIVERSITY  
BVB College Campus, Vidyanagar, Hubballi-31**

**Schedules Forming Part of Income & Expenditure Account**

**SCHEDULE 11-ACADEMIC RECEIPTS**

(Amounts in Rs)

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
<b>Fees From Students</b>				
<b>Academic</b>				
1. Tuition Fees	353,070,565		244,117,623	
2. Registration Fees	5,045,500		4,265,500	
3. NASA Fees	318,000		238,000	
4. Specific Fees By Govt	1,306,510		1,034,970	
5. E-Learning Fees	1,762,500		1,178,500	
6. Specific Fees By University	6,237,880		4,273,150	
7. University Fees	682,500		760,300	
8. Course Re-Registration and Revaluation Fees	4,600,176		605,000	
9. UG Minor Programme Fees	2,160,000		1,520,000	
10. PHD Tuition Fees	1,273,000		242,500	
11. PHD Exam Fees	155,100		87,000	
12. PHD Registration Fees	140,000		-	
13. Bachelor of Science	1,620,000		-	
14. Media Certificate Course	160,000			
<b>Total (A)</b>		<b>378,531,731</b>		<b>258,322,543</b>
<b>Examinations</b>				
1. Annual Examination Fees	10,509,100		7,607,700	
<b>Total (B)</b>		<b>10,509,100</b>		<b>7,607,700</b>
<b>Other Fees</b>				
1. Other Fees	44,795,100		26,910,785	
2. Tablet, Drawing Tool Fees	8,875,300		9,073,200	
3. Eligibility Fees	191,900		3,200	
<b>Total (C)</b>		<b>53,862,300</b>		<b>35,987,185</b>
<b>Sale of Publications</b>				
1. Sale of PHD Application Forms	113,000			
<b>Total (D)</b>		<b>113,000</b>		<b>-</b>
<b>GRAND TOTAL (A+B+C+D)</b>		<b>443,016,131</b>		<b>301,917,428</b>

**SCHEDULE 12-GRANTS & DONATIONS**

Particulars	Current Year	Previous Year
	Amount(Rs)	Amount(Rs)
1. Central Government		
2. State Government(s)		
a) State Government Salary Grant	90,450,319	
3. Government Agencies	-	
4. Institutions/Welfare Bodies	-	
5. International Organisations		
a) GE Global Research (GEGR)	653,964	
6. Others (Specify)	-	
<b>TOTAL</b>	<b>91,104,283</b>	

**SCHEDULE 13- INCOME FROM INVESTMENTS**

Particulars	Current Year	Previous Year
	Amount(Rs)	Amount(Rs)
<b>Investment from Earmarked/Endowment Fund</b>		
<b>1. Interest</b>		
a) On Govt. Securities		-
b) Other Bonds/Debentures		-
c)FD Interest :		
-Corpus Fund	8,631,088	8,407,754
-Development Fund	65,373	19,275
-University Endowment Fund	7,535	7,692
d)SB Interest from:		
-Corpus Fund	825	992
-Development Fund	316	303
-University Endowment Fund	50	30
2. Income Received		
a) Each fund seperately		-
3. Income accrued		
a) Each fund seperately		-
4. Others (Specify)		
<b>TOTAL</b>	<b>8,705,188</b>	<b>8,436,046</b>

**SCHEDULE 14- OTHER INCOME**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
A. Income from Land & Building (Rent)	543,200	543,200	434,200	434,200
B. Sale of Institute's publications		-		-
C. Income from Holding Events		-		-
D. Interest on Term Deposits		2,581,880		2,315,415
a) With Scheduled Banks	2,581,880		2,315,415	
b) With Non- Scheduled Banks	-		-	
c) With Institutions	-		-	
d) Others	-		-	
E. Interest on Savings Accounts		1,517,030		1,476,854
a) With Scheduled Banks	1,517,030		1,476,854	
b) With Non- Scheduled Banks	-		-	
c) With Institutions	-		-	
d) Others	-		-	
F. Interest on Loans				
G. Interest on Debtors & Other Receivables				
H. Others		1,625,749		55,608
1.Miscellaneous Receipts	203,749		55,608	
2.Consultancy Revenue	895,000			
3.Research & Development - Revenue	527,000			
<b>TOTAL</b>		<b>6,267,859</b>		<b>4,282,077</b>

**SCHEDULE 15 - STAFF PAYMENTS & BENEFITS**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
a) Salaries & Wages				
Teaching Staff	230,688,704		101,196,190	
Non - Teaching Staff	40,475,145	271,163,849	11,082,174	112,278,364
b) Contribution to provident fund Employer Share & Admin Charges		6,778,398		4,196,211
c) Contribution to ESIC Employer Share		830,797		47,717
d) Group Gratuity		10,882,517		7,314,590
e) Honorarium to Visiting Staff		1,667,540		890,750
<b>TOTAL</b>		<b>291,323,101</b>		<b>124,727,632</b>

**SCHEDULE 16 - ACADEMIC EXPENSES**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
a) Seminar/ Workshop				
b) Payment to visiting Faculty				
c) Examination		9,178,289		3,919,408
d) Publications		140,193		275,668
e) Others (specify)				
i. Hand Book	1,383,321		680,632	
ii. Identity Card expenses	78,756		338,300	
iii. Student Development	5,526,574		4,521,634	
iv. Faculty Development	2,306,742		2,140,415	
v. Tablet, Drawing Tool etc	9,486,094		8,149,045	
vi. TA DA to Visiting Faculty	14,257		-	
vii. Medical Expenses	63,000			
viii. Other Academic Expenses	2,238,675		653,620	
ix. Students Events and Activities	17,507,768	38,605,186	227,192	16,710,838
<b>TOTAL</b>		<b>47,923,669</b>		<b>20,905,914</b>

**SCHEDULE 17 - ADMINISTRATIVE & GENERAL EXPENSES**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
a) Electricity & Water		8,279,651		3,388,286
b) Rent, rates & Taxes		2,377,418		558,933
c) Postage & Telegram		67,114		41,097
d) Telephone & Internet Charges		3,729,673		2,386,865
e) Printing & Stationery		1,343,987		722,410
f) Professional Charges		366,870		154,200
g) Advertisement & Publicity		7,460,479		4,693,469
h) Others		22,877,795		7,569,564
i. Consumables	7,430,639		2,271,614	
ii. Insurance of students	3,247,100		400,000	
iii. Security Charges	5,439,761		2,580,990	
iv. Placement and Training Expenses	786,068		37,359	
v. Meeting Expenditure	2,633,341		877,551	
vi. TA/DA To Staff	299,974		127,269	
vii. Consultancy Expenses	443,500			
viii. Miscellaneous Expenses	2,597,413		1,274,781	
i) Depreciation (As per Sch-17A)		36,663,392		18,632,642
<b>TOTAL</b>		<b>83,166,379</b>		<b>38,147,466</b>

**SCHEDULE 18 - TRANSPORTATION EXPENSES**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
1. Vehicles (owned by University)				
a) Running Expenses	531,885		44,714	
b) Repairs & Maintenance	99,076		6,548	
c) Insurance expenses	73,878	704,839	72,932	124,194
2. Vehicles taken on rent/ lease				
a) Rent/lease expenses		-		-
<b>TOTAL</b>		<b>704,839</b>		<b>124,194</b>

**SCHEDULE 19 - REPAIRS & MAINTENANCE**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
a) Building		8,923,024		2,627,159
b) Furniture & Fixtures		327,509		12,466
c) Plant & Machinery		-		-
d) Office Equipments		-		-
e) Cleaning Material & Services		-		-
f) Others				
i. Software Maintenance	6,837,323		1,290,534	
ii. Campus and Garden Maintenance	19,895,740		9,689,855	
iii. Computer/Equipment Maintenance	1,387,287		45,352	
iv. Electrical Maintenance	799,325	28,919,675	318,477	11,344,218
<b>TOTAL</b>		<b>38,170,208</b>		<b>13,983,843</b>

**SCHEDULE 20 - FINANCE COSTS**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
a) Interest on fixed Loans		-		-
b) Interest on Term Loan		4,437,308		33,390
c) Bank charges		59,069		10,169
d) Others (Specify)		126,151		2,113,390
i) Loan Processing Charges	126,151		388,390	
ii) Bank Commission			1,725,000	
<b>TOTAL</b>		<b>4,622,528</b>		<b>2,156,949</b>

**SCHEDULE 21 - OTHER EXPENSES**

Particulars	Current Year		Previous Year	
	Amount(Rs)	Amount(Rs)	Amount(Rs)	Amount(Rs)
a) Others (Specify)				
1) Research and Development		6,836,680		4,159,390
<b>TOTAL</b>		<b>6,836,680</b>		<b>4,159,390</b>

As per our report of even date.  
Chenni Associates  
Chartered Accountants

Sd/-  
Finance Officer  
KLE Technological University  
Hubballi

Sd/-  
Registrar  
KLE Technological University  
Hubballi

Sd/-  
CA Suresh K Chenni  
Proprietor  
M NO 26214 FRN 000622S

PLACE : HUBBALLI  
DATE : 10/09/2018

**KLE TECHNOLOGICAL UNIVERSITY**  
**BVB College Campus, Vidyanagar, Hubballi-31**

Depreciation Schedule - 17A

Details Of Fixed Assets And Depreciation As On 31st March 2017

(Amount in Rs)

Description	GROSS BLOCK				DEPRECIATION						NET BLOCK		
	Cost/Valuation as at beginning of the year	Additions during the year		Deduction during the year	Cost/Valuation at the year end 31-03-18	As at the beginning of the year	On additions During the year	On deductions during the year	Depreciation as on 31-3-18 (A)	Depreciation as on 31-3-17 (B)	Total Depreciation (A+B)	As on 31-03-2018	As on 31-03-2017
		Upto 30/09/2017	After 01/10/2017										
I. Land:													
a) Freehold	-				-	-	-	-	-	-	-	-	-
b) Leasehold	-				-	-	-	-	-	-	-	-	-
II. Buildings:													
a) On Freehold Land	-				-	-	-	-	-	-	-	-	-
b) On Leasehold Land	-				-	-	-	-	-	-	-	-	-
1) Automobile Dept 1st Floor	7,642,044				7,642,044	644,528	-	-	644,528	1,196,767	1,841,295	5,800,749	6,445,277
2) Learning Factory	3,036,865	526,980	127,791		3,691,636	288,502	59,088	-	347,590	151,843	499,433	3,192,203	2,885,022
3)KLE Technological University Building	73,418,748	4,333,879	1,708,080		79,460,707	6,974,781	518,792	-	7,493,573	3,670,938	11,164,511	68,296,196	69,747,810
4)Architecture Dept 1st Floor	10,694,818	965,704	4,087,298		15,747,820	1,016,008	300,935	-	1,316,943	534,741	1,851,684	13,896,136	10,160,077
5)Civil Department 1st Floor	2,933,967				2,933,967	278,727	-	-	278,727	146,698	425,425	2,508,542	2,787,269
6)PG Block 1st Floor	4,534,360	158,652	19,968		4,712,980	430,764	16,864	-	447,628	226,718	674,346	4,038,634	4,307,642
7) E & C Building			54,929,875		54,929,875	-	2,746,494	-	2,746,494	-	2,746,494	52,183,381	-
8) E & E Building		484,420	1,589,196		2,073,616	-	127,902	-	127,902	-	127,902	1,945,714	-
9) Biotech Dept Lab		155,777	1,236,552		1,392,329	-	77,405	-	77,405	-	77,405	1,314,924	-
10) Canteen			867,607		867,607	-	43,380	-	43,380	-	43,380	824,227	-
11) Civil Department 2nd Floor			5,183,600		5,183,600	-	259,180	-	259,180	-	259,180	4,924,420	-
12) MCA Computer Lab		759,469	64,157		823,626	-	79,155	-	79,155	-	79,155	744,471	-
13) Borewell		54,929	414,870		469,799	-	26,236	-	26,237	-	26,237	443,562	-
14) MCA Building		182,326			182,326	-	18,233	-	18,233	-	18,233	164,093	-
15) PG Building		840,225			840,225	-	84,023	-	84,022	-	84,022	756,203	-
c) Ownership Flats/Premises	-				-	-	-	-	-	-	-	-	-
d) Superstructures on Land not belonging to educational institutions	-				-	-	-	-	-	-	-	-	-
III. Plants, machinery & equipment	24,551,861	10,332,329	21,435,948		56,320,138	3,148,802	3,157,546	-	6,306,348	3,559,845	9,866,193	46,453,945	20,992,016
IV. Vehicle	2,666,448	140,784			<b>2,807,232</b>	338,049	21,118	-	359,167	412,788	771,955	2,035,277	2,253,660
V. Furniture & Fixtures	15,946,998	16,216,480	12,471,365		44,634,843	1,432,696	2,245,216	-	3,677,912	1,620,039	5,297,951	39,336,892	14,326,959
VI. Office Equipment	-				-	-	-	-	-	-	-	-	-
VII. Computer	17,924,742	13,792,161	3,068,045		34,784,948	3,431,558	6,130,474	-	9,562,031	9,345,848	18,907,879	15,877,069	8,578,894
VIII. Electric Installations	-				-	-	-	-	-	-	-	-	-
IX. Library books	2,054,544	273,822	1,407,509		3,735,875	339,645	391,031	-	730,676	1,205,433	1,936,109	1,799,766	849,111
X. Tube wells & Water supply	-				-	-	-	-	-	-	-	-	-
XI. Software	2,350,829	2,482,973	3,782,341		8,616,143	286,604	1,749,657	-	2,036,261	1,634,319	3,670,580	-	716,510
XII. Other fixed Assets													
a) Equipments out of Grants	3,229,471.20				3,229,471	-	-	-	-	-	-	3,229,471	3,229,471
<b>A. TOTAL</b>	<b>170,985,696</b>	<b>51,700,911</b>	<b>112,394,202</b>	<b>-</b>	<b>335,080,809</b>	<b>18,610,664</b>	<b>18,052,729</b>	<b>-</b>	<b>36,663,392</b>	<b>23,705,977</b>	<b>60,369,369</b>	<b>269,765,876</b>	<b>147,279,719</b>
XII. Capital work-in-progress													
a)Ceer Lab , RHK Building		145,029	645,461		790,490							790,490	-
b)CTIE Building		2,194,825	6,244,255		8,439,080							8,439,080	-
c) Exam Cell			31,687		31,687								-
d)MBA Building		6,838	2,421,219		2,428,057							2,428,057	-
e)CLITE Building			353,459		353,459							353,459	-
f)Civil Department 2nd Floor Building	3,852,575	571,857	759,168										3,852,575
g)E&C Department	19,351,346	2,209,681	33,368,848										19,351,346
Transfer To assets		(2,781,538)	(57,331,937)										
<b>B. NET WORK-IN-PROGRESS</b>	<b>23,203,921</b>	<b>2,346,692</b>	<b>(13,507,840)</b>	<b>-</b>	<b>12,042,773</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12,011,086</b>	<b>23,203,921</b>
<b>TOTAL (A+B)</b>	<b>194,189,617</b>	<b>54,047,603</b>	<b>98,886,362</b>	<b>-</b>	<b>347,123,582</b>	<b>18,610,664</b>	<b>18,052,729</b>	<b>-</b>	<b>36,663,392</b>	<b>23,705,977</b>	<b>60,369,369</b>	<b>281,776,962</b>	<b>170,483,640</b>

**Notes to statement of Accounts:**

1. Bank Guarantee of Rs. 5 Crores is given by Syndicate Bank, Nehru Nagar, Belagavi.
2. Corpus fund mentioned in schedule 1 is another name for Permanent Statutory Endowment Fund.
3. Details of Research and Development Expenditure for current year is as below:

Particulars	Amount (Rs)	Particulars	Amount (Rs)
<b>1.Revenue Generation</b>		<b>3.Revenue Expenditure</b>	
Workshops and Seminars	202,000.00	Salary	2,510,305.00
Consultancy Revenue	325,000.00	Research Meetings	70,184.00
Research Grant / Donation	653,964.00	Consumables	849,028.00
<b>Total</b>	<b>1,180,964.00</b>	Incentives	430,000.00
		Paper Presentations	192,974.00
<b>2.Capital Expenditure</b>		Patent	183,060.00
Equipments	7,596,625.00	Samsung Project Expenses	186,060.00
Computers	376,302.00	Software Maintenance (AMC)	115,992.00
Softwares	2,029,440.00	Workshops and Seminars	2,299,077.00
Books	60,484.00		
<b>Total</b>	<b>10,062,851.00</b>	<b>Total</b>	<b>6,836,680.00</b>

4. Fixed assets includes assets received as Corpus in the current year .Details are mentioned in the annexure below:

**Annexure Showing List of assets Transferred at W.D.V from BVB (KLE Society) to KLE Technological University in F.Y 2017-18**

Particulars	Equipments	Computers and softwares	Furnitures and Fixtures	Books	Buildings	Borewell	Total (Rs)
BVB MCA	2321462.38	392295.4	364831.67	97507.1	182326.21	54929	<b>3413351.76</b>
BVB PG AIDED					840224.27		<b>840224.27</b>
<b>Total (Rs)</b>	<b>2321462.38</b>	<b>392295.4</b>	<b>364831.67</b>	<b>97507.1</b>	<b>1022550.48</b>	<b>54929</b>	<b>4253576.03</b>

As per our report of even date.  
Chennai Associates  
Chartered Accountants

Sd/-  
Finance Officer  
KLE Technological University  
Hubballi

Sd/-  
Registrar  
KLE Technological University  
Hubballi

Sd/-  
CA Suresh K Chennai  
Proprietor  
M NO 26214 FRN 000622S

**PLACE : HUBBALLI**  
**DATE : 10/09/2018**

## **SIGNIFICANT ACCOUNTING POLICIES AND NOTES TO THE ACCOUNTS**

### **A: SIGNIFICANT ACCOUNTING POLICIES**

#### **1) BASIS OF ACCOUNTING**

The accounts are maintained under the historical cost convention on accrual basis as a going concern and in accordance with the applicable accounting standards issued by the Institute of Chartered Accountants of India.

#### **2) FIXED ASSETS AND DEPRECIATION**

Fixed assets are stated at cost of acquisition inclusive of inward freight, duties and taxes and incidental and direct expenses related to acquisition (Gross Block). The Land and Buildings have been taken from KLE Society, Belagavi under lease. During the year some of the assets are transferred from KLE Society to KLE Technological University in accordance with Govt Policy, and Assets are accounted at Written down Value of the Assets as per KLE Society's Books as on the Date of Assets transferred. During the year Depreciation is charged as per the Income Tax Act 1961.

#### **3) RECOGNITION OF INCOME**

Fees Income is recognized as and when it becomes due.

#### **4) INCOME ON INVESTMENTS (INTEREST)**

Interest on Fixed Deposits is recognized on accrual basis and taking into account the amount of deposits and due entry at the year end is added to the Fixed Deposits and credited to the Interest account.

#### **5) INCOME ON EARMARKED FUNDS:**

Interest on Investments of Earmarked Funds is credited to Income and Expenditure account and then some portion is transferred to the respective Earmarked Funds.

#### **6) INVESTMENTS**

Investments are stated at cost of acquisition.

#### **7) FOREIGN CURRENCY TRANSACTIONS**

Transactions denominated in the Foreign Currency will be accounted for at the exchange rate prevailing at the date of transaction.

## 8) PROVISIONS, CONTINGENT LIABILITIES AND CONTINGENT ASSETS

Provisions are recognized for liabilities that can be measured only by using a substantial degree of estimation, if

- a) The institution has a present obligation as a result of a past event.
- b) A probable outflow of resources is expected to settle the obligation and
- c) The amount of the obligation can be reliably measured.

Reimbursement expected in respect of expenditure required to settle a provision is recognized only when it is virtually certain that the reimbursement will be received.

Contingent liability is disclosed in the case of

a) A present obligation arising from a past event, when it is not probable that an outflow of resources will be required to settle the obligation.

b) A possible obligation, unless the probability of outflow of resources is remote.  
Contingent assets are neither recognized nor disclosed.

## B: NOTES FORMING PARTS OF ACCOUNTS

1) Interest earned on Corpus and other Funds is treated as Interest income and such income is credited to Income & Expenditure Account and later some portion is transferred to the Respective Funds.

### 2) Liabilities and Assets

Balances grouped under Advances recoverable, Advances payable, etc are subject to confirmation from respective parties.

3) The University has accounted separately for the grants received from government and assets created there from in the line with the provisions of AS-12. The specific depreciation on their assets is also absorbed against the grants.

**For, Chennai Associates  
Chartered Accountants**

Sd/-  
**Finance Officer**  
KLE TECHNOLOGICAL UNIVERSITY,  
HUBBALLI

Sd/-  
**Registrar**  
KLE TECHNOLOGICAL UNIVERSITY,  
HUBBALLI

Sd/-  
**CA. Suresh K Chenni**  
**Proprietor**  
M NO 26214 FRN: 000622S

**PLACE: HUBBALLI**  
**DATE : 10/09/2018**



**KLE** Technological  
University  
Creating Value  
Leveraging Knowledge

# **BUDGET ESTIMATES Unaided Courses**

## **2019-2020**

**KLE TECHNOLOGICAL UNIVERSITY**  
**BVB COLLEGE CAMPUS, HUBBALLI-580031**

**BUDGET ESTIMATES OF UNAIDED COURSES FOR THE YEAR 2018-19**

Amount (Rs)

Sl. No	INCOME	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
<b>A</b>	<b>Revenue Income</b>					
	Academic Receipts	I - 1	421,558,000.00	414,537,531.00	529,705,600.00	673,550,600.00
	Grants and Donations	I - 2	6,000,000.00	653,964.00	8,000,000.00	8,000,000.00
	Income from Investments	I - 3	8,540,000.00	8,705,188.00	8,750,000.00	9,000,000.00
	Other Income	I - 4	2,750,000.00	5,817,385.00	4,450,000.00	8,600,000.00
<b>B</b>	<b>Capital Receipts</b>					
	Long Term Borrowings		100,000,000.00	25,000,000.00	75,000,000.00	75,000,000.00
	Depreciation Reserve		-	36,367,237.00	-	-
	Deficit			14,062,237.00	42,747,900.00	43,394,900.00
	<b>Total</b>		<b>538,848,000.00</b>	<b>505,143,542.00</b>	<b>668,653,500.00</b>	<b>817,545,500.00</b>

Sl. No	EXPENDITURE	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
<b>C</b>	<b>Revenue Expenditure</b>					
	Staff Payments & Benefits	E - 1	194,000,000.00	184,604,018.00	271,600,000.00	334,023,000.00
	Academic Expenses	E - 2	35,070,000.00	42,506,026.00	48,500,000.00	60,750,000.00
	Administrative & General Expenses	E - 3	36,425,000.00	42,917,045.00	43,902,500.00	69,102,500.00
	Transportation Expenses	E - 4	380,000.00	704,839.00	600,000.00	1,620,000.00
	Repairs and Maintenance	E - 5	27,058,000.00	35,167,498.00	33,375,000.00	46,450,000.00
	Finance Costs	E - 6	7,076,300.00	4,620,039.00	13,950,000.00	20,500,000.00
	Research & Development	E - 7	9,000,000.00	6,836,680.00	11,000,000.00	12,000,000.00
	Depreciation	E - 8	-	36,367,237.00	-	-
<b>D</b>	<b>Capital Expenditure</b>					
	Buildings	C - 1	125,000,000.00	66,452,727.00	125,000,000.00	125,000,000.00
	Equipments, Computers & Softwares		64,000,000.00	42,241,757.00	75,000,000.00	82,000,000.00
	Furniture & Fixtures		10,000,000.00	28,323,013.00	12,000,000.00	17,800,000.00
	Library Books		2,000,000.00	781,746.00	2,500,000.00	2,500,000.00
	Research and Development		13,500,000.00	10,021,768.00	16,500,000.00	21,700,000.00
	Principal Repayment of Borrowings		505,000.00	500,498.00	11,126,000.00	20,500,000.00
	Reinvestment In Funds		3,200,000.00	3,098,651.00	3,600,000.00	3,600,000.00
	Surplus		11,633,700.00			
	<b>Total</b>		<b>538,848,000.00</b>	<b>505,143,542.00</b>	<b>668,653,500.00</b>	<b>817,545,500.00</b>

**Summary of Revenue and Capital Income and Expenditure**

Amount (Rs)

INCOME	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
Total Revenue Income	438,848,000.00	429,714,068.00	550,905,600.00	699,150,600.00
Total Capital Receipts	100,000,000.00	61,367,237.00	75,000,000.00	75,000,000.00
Deficit		14,062,237.00	42,747,900.00	43,394,900.00
<b>Total</b>	<b>538,848,000.00</b>	<b>505,143,542.00</b>	<b>668,653,500.00</b>	<b>817,545,500.00</b>

EXPENDITURE	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
Total Revenue Expenditure	309,009,300.00	353,723,382.00	422,927,500.00	544,445,500.00
Total Capital Expenditure	214,500,000.00	147,821,011.00	231,000,000.00	249,000,000.00
Principal Repayment of Borrowings	505,000.00	500,498.00	11,126,000.00	20,500,000.00
Reinvestment In Funds	3,200,000.00	3,098,651.00	3,600,000.00	3,600,000.00
Surplus	11,633,700.00			
<b>Total</b>	<b>538,848,000.00</b>	<b>505,143,542.00</b>	<b>668,653,500.00</b>	<b>817,545,500.00</b>

**KLE TECHNOLOGICAL UNIVERSITY, HUBBALLI-31**  
**Schedules Annexured to Income Budget of Unaided Courses**

**Academic Receipts**

**Schedule I - 1**  
**Amount (Rs)**

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
<b>1</b>	<b><u>Under Graduate Engineering Program</u></b>					
	Tuition Fees	Annexure A	316,810,000.00	301,536,765.00	403,645,000.00	496,490,000.00
	Examination Fees		12,138,000.00	13,224,476.00	15,531,600.00	21,080,000.00
	Other Fees		36,261,000.00	41,047,940.00	50,876,500.00	81,406,400.00
	University Registration Fees		2,250,000.00	3,156,000.00	2,700,000.00	3,120,000.00
	Total		367,459,000.00	358,965,181.00	472,753,100.00	602,096,400.00
<b>2</b>	<b><u>BSC Program</u></b>			1,620,000.00		1,800,000.00
<b>3</b>	<b><u>Post Graduate Engineering Program</u></b>					
	Tuition Fees	Annexure B	18,925,000.00	15,035,110.00	19,985,000.00	25,100,000.00
	Examination Fees		1,407,600.00	1,101,600.00	1,428,000.00	1,581,200.00
	Other Fees		2,834,400.00	2,433,400.00	3,097,000.00	3,526,000.00
	University Registration Fees		600,000.00	490,000.00	750,000.00	750,000.00
	Total		23,767,000.00	19,060,110.00	25,260,000.00	30,957,200.00
<b>4</b>	<b><u>MBA Program</u></b>					
	Tuition Fees	Annexure C	12,620,000.00	12,480,610.00	12,860,000.00	12,860,000.00
	Examination Fees		566,100.00	562,700.00	576,300.00	666,700.00
	Other Fees		1,140,900.00	1,214,100.00	1,251,200.00	1,494,500.00
	University Registration Fees		300,000.00	290,000.00	300,000.00	300,000.00
	Total		14,627,000.00	14,547,410.00	14,987,500.00	15,321,200.00
<b>5</b>	<b><u>MCA Program</u></b>					
	Tuition Fees	Annexure D	12,750,000.00	13,170,330.00	13,545,000.00	14,805,000.00
	Examination Fees		867,000.00	875,500.00	877,200.00	1,103,300.00
	Other Fees		1,788,000.00	1,947,900.00	1,982,800.00	2,567,500.00
	University Registration Fees		300,000.00	350,000.00	300,000.00	300,000.00
	Total		15,705,000.00	16,343,730.00	16,705,000.00	18,775,800.00
<b>6</b>	<b><u>PHD</u></b>			1,681,100.00		1,500,000.00
<b>7</b>	<b><u>Others</u></b>					
A	Certificate Program			160,000.00		400,000.00
B	Minor Program			2,160,000.00		2,500,000.00
C	PG Diploma					200,000.00
	Total		-	2,320,000.00	-	3,100,000.00
	<b>Grand Total</b>		<b>421,558,000.00</b>	<b>414,537,531.00</b>	<b>529,705,600.00</b>	<b>673,550,600.00</b>

**Note:** As fees is increased for few existing courses and new courses are introduced, Academic receipts for the budget 2019-20 shows around 27% of increase.

**Grants & Donation****Schedule I - 2**

Amount (Rs)

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Research Grant		6,000,000.00	653,964.00	8,000,000.00	8,000,000.00
	<b>Total</b>		<b>6,000,000.00</b>	<b>653,964.00</b>	<b>8,000,000.00</b>	<b>8,000,000.00</b>

**Note:** Research Grant of Rs.80 Lakhs is likely to be released from Government in the year 2019-20.

**Income From Investments****Schedule I - 3**

Amount (Rs)

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	FD Interest From Designated Funds		8,540,000.00	8,703,997.00	8,750,000.00	9,000,000.00
2	SB Interest From Designated Funds			1,191.00		
	<b>Total</b>		<b>8,540,000.00</b>	<b>8,705,188.00</b>	<b>8,750,000.00</b>	<b>9,000,000.00</b>

**Other Income****Schedule I - 4**

Amount (Rs)

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	SB & FD Interest from Bank		1,600,000.00	3,664,036.00	3,500,000.00	4,000,000.00
2	Rental Income		450,000.00	531,200.00	450,000.00	600,000.00
3	R & D Revenue Generation			527,000.00		1,000,000.00
4	Miscellaneous Income		700,000.00	1,095,149.00	500,000.00	3,000,000.00
	<b>Total</b>		<b>2,750,000.00</b>	<b>5,817,385.00</b>	<b>4,450,000.00</b>	<b>8,600,000.00</b>

**Note:** WRT Sl. No. 4, Miscellaneous Income for Budget 2018-19 includes Consultancy Revenue.

**KLE TECHNOLOGICAL UNIVERSITY**  
**Schedules Annexed to Expenditure Budget of Unaided Courses**

**Staff Payment and Benefits**

**Schedule E- 1**  
**Amount (Rs)**

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Salary To Staff	173,600,000.00	164,444,766.00	243,700,000.00	299,751,000.00
2	Management Contribution to P.F	6,750,000.00	6,778,398.00	9,000,000.00	11,070,000.00
3	Management Contribution to Gratuity	11,800,000.00	10,882,517.00	16,000,000.00	19,680,000.00
4	Management Contribution to ESIC	850,000.00	830,797.00	1,400,000.00	1,722,000.00
5	Honorarium to Visiting Staff	1,000,000.00	1,667,540.00	1,500,000.00	1,800,000.00
	<b>Total</b>	<b>194,000,000.00</b>	<b>184,604,018.00</b>	<b>271,600,000.00</b>	<b>334,023,000.00</b>

**Academic Expenses**

**Schedule E- 2**  
**Amount (Rs)**

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Exam Expenditures	8,500,000.00	7,732,992.00	12,000,000.00	14,000,000.00
2	Students Events and Activities	6,000,000.00	16,565,979.00	8,500,000.00	20,000,000.00
3	Hand Book	1,200,000.00	1,047,970.00	1,500,000.00	1,600,000.00
4	Identity Card Expenses	150,000.00	8,546.00	300,000.00	150,000.00
5	Journals & Periodicals	3,000,000.00	140,193.00	4,000,000.00	4,000,000.00
6	Student Development	3,000,000.00	5,016,814.00	4,000,000.00	6,500,000.00
7	Tablets and Kits to Students	9,000,000.00	7,588,874.00	9,500,000.00	1,000,000.00
8	Foreign Collaboration	2,000,000.00		6,000,000.00	6,500,000.00
9	Faculty Development	1,500,000.00	2,151,726.00	1,800,000.00	4,000,000.00
10	Other Academic Expenses	720,000.00	2,252,932.00	900,000.00	3,000,000.00
	<b>Total</b>	<b>35,070,000.00</b>	<b>42,506,026.00</b>	<b>48,500,000.00</b>	<b>60,750,000.00</b>

**Notes:**

- 1)WRT Sl. No. 2, Various Students Events and activities like Zonal Nasa Convention and others took place in 2017-18, hence deviation in the Budget and actuals. 2017-18 Actuals is taken as base for 2019-20 Budget.
- 2) WRT Sl. No. 10, Other Academic expenses include Rs.14 Lakhs AICTE Fees and Other meeting expenditure includes UGC Expert committee Visit expenses around 10 lakhs, hence there is deviation.
- 3) WRT Sl. No. 9, No foreign Collaboration took place in 2017-18 as budgeted.

**Administrative and General Expenses**

**Schedule E- 3**  
**Amount (Rs)**

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Advertisement & Publicity	5,800,000.00	7,460,479.00	6,400,000.00	10,000,000.00
2	Consumables	6,000,000.00	6,869,112.00	7,000,000.00	12,000,000.00
3	Postage & Telegram	75,000.00	67,114.00	102,500.00	102,500.00
4	Printing & Stationery	900,000.00	1,343,987.00	1,050,000.00	1,600,000.00
5	Audit & Professional Charges	150,000.00	341,870.00	200,000.00	500,000.00
6	Meeting Expenditure	1,200,000.00	2,633,341.00	1,500,000.00	3,000,000.00
7	Rent, Rates & Taxes (Incl. Lease Rent)	700,000.00	2,021,418.00	900,000.00	2,500,000.00
8	Security Services	5,500,000.00	5,439,761.00	6,500,000.00	9,000,000.00
9	Telephone & Internet Charges	3,600,000.00	3,219,262.00	4,200,000.00	4,000,000.00
10	Water & Electricity	8,200,000.00	7,022,570.00	10,000,000.00	12,000,000.00
11	Insurance	600,000.00	2,581,150.00	800,000.00	6,000,000.00
12	Placement Expenditures	600,000.00	786,068.00	1,300,000.00	1,800,000.00
13	TA/DA to Staff	300,000.00	299,974.00	350,000.00	600,000.00
14	Consultancy Expenses		443,500.00		1,800,000.00
15	Other Expenses	2,800,000.00	2,387,439.00	3,600,000.00	4,200,000.00
	<b>Total</b>	<b>36,425,000.00</b>	<b>42,917,045.00</b>	<b>43,902,500.00</b>	<b>69,102,500.00</b>

**Notes:**

- 1)WRT Sl. No. 11, A new Insurance policy was taken for students in the year 2017-18, hence deviation. Budget 2019-20 is based on the number of students.

**Transportation expenses****Schedule E- 4  
Amount (Rs)**

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Vehicle Running Expenses	280,000.00	531,885.00	400,000.00	1,200,000.00
2	Vehicle Maintenance	35,000.00	99,076.00	75,000.00	200,000.00
3	Vehicle Insurance	65,000.00	73,878.00	125,000.00	220,000.00
	<b>Total</b>	<b>380,000.00</b>	<b>704,839.00</b>	<b>600,000.00</b>	<b>1,620,000.00</b>

**Repairs & Maintenance****Schedule E- 5  
Amount (Rs)**

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Building Maintenance	6,000,000.00	8,413,009.00	7,500,000.00	9,500,000.00
2	Campus and Garden Maintenance	16,000,000.00	17,403,045.00	20,000,000.00	24,000,000.00
3	Computer and Equipment Maintenance	1,233,000.00	1,387,287.00	1,400,000.00	1,800,000.00
4	Electrical Maintenance	550,000.00	799,325.00	700,000.00	1,600,000.00
5	Furniture Maintenance	75,000.00	327,509.00	75,000.00	550,000.00
6	Software Maintenance	3,200,000.00	6,837,323.00	3,700,000.00	9,000,000.00
	<b>Total</b>	<b>27,058,000.00</b>	<b>35,167,498.00</b>	<b>33,375,000.00</b>	<b>46,450,000.00</b>

Note: 1) WRT Sl. No. 1, Building Maintenance includes Housekeeping expenses.

2) WRT Sl. No 6, major part of Software Maintenance for 2019-20 is budgeted based on the increased number of subscriptions.

**Finance Costs****Schedule E- 6  
Amount (Rs)**

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Bank Charges & Commission	350,000.00	182,731.00	350,000.00	1,000,000.00
2	Interest on Borrowings	6,726,300.00	4,437,308.00	13,600,000.00	19,500,000.00
	<b>Total</b>	<b>7,076,300.00</b>	<b>4,620,039.00</b>	<b>13,950,000.00</b>	<b>20,500,000.00</b>

Note: Loan of around 7.5 crores is budgeted to be sanctioned in December 2019 with 1 year moratorium period, but interest @ 12% will begin from the date of Loan sanction. Other Existing loans is budgeted based on sanction data.

**Research and Development****Schedule E- 7  
Amount (Rs)**

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Research and Development	9,000,000.00	6,836,680.00	11,000,000.00	12,000,000.00
	<b>Total</b>	<b>9,000,000.00</b>	<b>6,836,680.00</b>	<b>11,000,000.00</b>	<b>12,000,000.00</b>

**Depreciation****Schedule E- 8  
Amount (Rs)**

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Depreciation		36,367,237.00		
	<b>Total</b>	<b>-</b>	<b>36,367,237.00</b>	<b>-</b>	<b>-</b>

**Notes:**

- Budgets are Based on accrual Method of accounting.
- Around 5% of Academic Receipts is allotted to Research and Development Revenue and Capital Expenditures.
- Loan expected to be released of Rs.4 Crores in 2017-18, was released in April 2018 hence deviation in the borrowings.

**Buildings****Schedule C- 1  
Amount (Rs)**

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	CTIE Building	8,000,000.00	8,439,080.00		
2	E & C Building	34,500,000.00	35,578,529.00		
3	MBA Building	2,500,000.00	2,428,057.00	17,000,000.00	
4	Civil 2nd Floor	1,500,000.00	1,331,025.00		
5	E & E Building	2,000,000.00	2,073,616.00		
6	CLITE Building	-	353,459.00	60,000,000.00	
7	Indoor Stadium	60,000,000.00		40,000,000.00	80,000,000.00
9	Architecture Department	5,000,000.00	5,053,003.00		
10	Campus Roads				20,000,000.00
11	Other Additions	11,500,000.00	11,195,958.00	8,000,000.00	25,000,000.00
	<b>Total (Amount in Rs)</b>	<b>125,000,000.00</b>	<b>66,452,727.00</b>	<b>125,000,000.00</b>	<b>125,000,000.00</b>

Note : As the Indoor stadium project was not started in 2017-18, hence deviations in the Buildings Budget. The same will start in 2018-19 and will continue till 2019-20.

**Annexure - A**  
**Budgeted strength of the students and fees for the year 2019-2020 of Under Graduate Course**

1.Tution Fees

(Amt in Rs)

**Tution Fees - 1st Year**

Particulars	Civil	Mechanical	Electronics & Communication	Electrical & Electronics	Computer Science	Bio Technology	Architecture	Automation and Robotics
Government Quota	27	81	108	27	135	27	36	27
University Quota	33	99	132	33	165	33	44	33
<b>TOTAL</b>	<b>60</b>	<b>180</b>	<b>240</b>	<b>60</b>	<b>300</b>	<b>60</b>	<b>80</b>	<b>60</b>
Government Quota Fee structure	59,400.00	59,400.00	59,400.00	59,400.00	59,400.00	59,400.00	59,400.00	59,400.00
University Quota Fee Structure	183,600.00	183,600.00	183,600.00	183,600.00	183,600.00	110,000.00	183,600.00	145,000.00
Government Quota Fees	1,603,800	4,811,400	6,415,200	1,603,800	8,019,000	1,603,800	2,138,400	1,603,800
University Quota Fees	6,058,800	18,176,400	24,235,200	6,058,800	30,294,000	3,630,000	8,078,400	4,785,000
<b>TOTAL (Rs)</b>	<b>7,662,600</b>	<b>22,987,800</b>	<b>30,650,400</b>	<b>7,662,600</b>	<b>38,313,000</b>	<b>5,233,800</b>	<b>10,216,800</b>	<b>6,388,800</b>
<b>TOTAL - A</b>								<b>129,115,800</b>

**Tution Fees -2nd Year**

Particulars	Civil	Mechanical	Electronics & Communication	Electrical & Electronics	Computer Science	Bio Technology	Architecture	Automation and Robotics
Government Quota (Including Lateral)	32	90	120	30	150	27	36	26
University Quota (Including Lateral)	37	105	132	37	168	33	44	36
<b>TOTAL</b>	<b>69</b>	<b>195</b>	<b>252</b>	<b>67</b>	<b>318</b>	<b>60</b>	<b>80</b>	<b>62</b>
Government Quota Fee structure	59,400.00	59,400.00	59,400.00	59,400.00	59,400.00	59,400.00	59,400.00	59,400.00
University Quota Fee Structure	183,600.00	183,600.00	183,600.00	183,600.00	183,600.00	110,000.00	183,600.00	145,000.00
Government Quota Fees	1,900,800	5,346,000	7,128,000	1,782,000	8,910,000	1,603,800	2,138,400	1,544,400
University Quota Fees	6,793,200	19,278,000	24,235,200	6,793,200	30,844,800	3,630,000	8,078,400	5,220,000
<b>TOTAL (Rs)</b>	<b>8,694,000</b>	<b>24,624,000</b>	<b>31,363,200</b>	<b>8,575,200</b>	<b>39,754,800</b>	<b>5,233,800</b>	<b>10,216,800</b>	<b>6,764,400</b>
<b>TOTAL - B</b>								<b>135,226,200</b>

**Tution Fees -3rd Year**

Particulars	Civil	Mechanical	Electronics & Communication	Electrical & Electronics	Computer Science	Bio Technology	Architecture	Automation and Robotics
Government Quota (Including Lateral)	34	90	95	34	140	24	27	29
University Quota (Including Lateral)	45	110	105	38	126	32	32	37
<b>TOTAL</b>	<b>79</b>	<b>200</b>	<b>200</b>	<b>72</b>	<b>266</b>	<b>56</b>	<b>59</b>	<b>66</b>
Government Quota Fee structure	56,000.00	56,000.00	56,000.00	56,000.00	56,000.00	56,000.00	56,000.00	56,000.00
University Quota Fee Structure	170,000.00	170,000.00	170,000.00	170,000.00	170,000.00	100,000.00	170,000.00	135,000.00
Government Quota Fees	1,904,000	5,040,000	5,320,000	1,904,000	7,840,000	1,344,000	1,512,000	1,624,000
University Quota Fees	7,650,000	18,700,000	17,850,000	6,460,000	21,420,000	3,200,000	5,440,000	4,995,000
<b>TOTAL (Rs)</b>	<b>9,554,000</b>	<b>23,740,000</b>	<b>23,170,000</b>	<b>8,364,000</b>	<b>29,260,000</b>	<b>4,544,000</b>	<b>6,952,000</b>	<b>6,619,000</b>
<b>TOTAL - C</b>								<b>112,203,000</b>

**Tution Fees -4th Year**

Particulars	Civil	Mechanical	Electronics & Communication	Electrical & Electronics	Computer Science	Bio Technology	Architecture	Automation and Robotics
Government Quota (Including Lateral)	34	95	112	33	142	17	25	28
University Quota (Including Lateral)	50	126	108	32	125	29	30	32
<b>TOTAL</b>	<b>84</b>	<b>221</b>	<b>220</b>	<b>65</b>	<b>267</b>	<b>46</b>	<b>55</b>	<b>60</b>
Government Quota Fee structure	55,000.00	55,000.00	55,000.00	55,000.00	55,000.00	55,000.00	55,000.00	55,000.00
University Quota Fee Structure	170,000.00	170,000.00	170,000.00	170,000.00	170,000.00	100,000.00	170,000.00	135,000.00
Government Quota Fees	1,870,000	5,225,000	6,160,000	1,815,000	7,810,000	935,000	1,375,000	1,540,000
University Quota Fees	8,500,000	21,420,000	18,360,000	5,440,000	21,250,000	2,900,000	5,100,000	4,320,000
<b>TOTAL (Rs)</b>	<b>10,370,000</b>	<b>26,645,000</b>	<b>24,520,000</b>	<b>7,255,000</b>	<b>29,060,000</b>	<b>3,835,000</b>	<b>6,475,000</b>	<b>5,860,000</b>
<b>TOTAL - D</b>								<b>114,020,000</b>

**Tution Fees -5th Year for Architecture**

Particulars	Fees	No of students	Total Fees
Government Quota (Including Lateral)	45000	25	1125000
University Quota (Including Lateral)	150000	32	4800000
<b>TOTAL - E</b>		<b>57</b>	<b>5925000</b>
<b>GRAND TOTAL (A+B+C+D+E)</b>			<b>496,490,000</b>

P.T.O

**2. University Examination Fees****(Amt in Rs)**

<b>Particulars</b>	<b>Fees</b>	<b>No of Students</b>	<b>Total</b>
Annual Examination Fees	2,500.00	4216	10,540,000.00
Internal Examination Fees	2,500.00	4216	10,540,000.00
		<b>Total</b>	<b>21,080,000.00</b>

**3. Other fees**

<b>Particulars</b>	<b>Fees</b>	<b>No of Students</b>	<b>Total</b>
1st Year	19,900.00	1040	20,696,000.00
2nd ,3rd , 4th and 5th Year	14,400.00	4216	60,710,400.00
		<b>Total</b>	<b>81,406,400.00</b>

**4. University Registration Fees**

<b>Particulars</b>	<b>Fees</b>	<b>No of Students</b>	<b>Total</b>
1st Year	3,000.00	1040	3,120,000.00
		<b>Total</b>	<b>3,120,000.00</b>

**Note:** For Academic Receipts 100% intake is budgeted for 1st year students whereas remaining years is budgeted on the current year strength of students.

**Annexure - B**  
**Budgeted Strength of the Students for the year 2019-20 of Post Graduate Courses**

**1. Tuition Fees**

(Amt in Rs)

Particulars	Govt. Quota	Amount (Rs)	TOTAL	University Quota	Amount (Rs)	TOTAL
<b>1st Year</b>						
Structural Engineering	14	85,000.00	1,190,000.00	4	125,000.00	500,000.00
Energy System	14	85,000.00	1,190,000.00	4	125,000.00	500,000.00
Production Management	14	85,000.00	1,190,000.00	4	125,000.00	500,000.00
Digital Electronics	18	85,000.00	1,530,000.00	6	125,000.00	750,000.00
Computer Science	18	85,000.00	1,530,000.00	6	125,000.00	750,000.00
VLSI Design & Embedded Systems	18	85,000.00	1,530,000.00	6	125,000.00	750,000.00
Machine Design	18	85,000.00	1,530,000.00	6	125,000.00	750,000.00
<b>2nd Year</b>						
Structural Engineering	12	85,000.00	1,020,000.00	2	125,000.00	250,000.00
Energy System	12	85,000.00	1,020,000.00	2	125,000.00	250,000.00
Production Management	12	85,000.00	1,020,000.00	2	125,000.00	250,000.00
Digital Electronics	12	85,000.00	1,020,000.00	2	125,000.00	250,000.00
Computer Science	18	85,000.00	1,530,000.00	6	125,000.00	750,000.00
VLSI Design & Embedded Systems	15	85,000.00	1,275,000.00	4	125,000.00	500,000.00
Machine Design	15	85,000.00	1,275,000.00	4	125,000.00	500,000.00
<b>TOTAL A</b>			<b>17,850,000.00</b>	<b>TOTAL B</b>		<b>7,250,000.00</b>
<b>GRAND TOTAL (A+B)</b>						<b>25,100,000.00</b>

**2. Examination Fees**

Particulars	Fees	No of Students	Total
Annual Examination Fees	3,400.00	268	911,200.00
Internal Examination Fees	2,500.00	268	670,000.00
<b>Total</b>			<b>1,581,200.00</b>

**3. Other Fees**

Particulars	Fees	No of Students	Total
1st Year	12,100.00	150	1,815,000.00
2nd Year	14,500.00	118	1,711,000.00
<b>Total</b>			<b>3,526,000.00</b>

**4. University Registration Fees**

Particulars	Fees	No of Students	Total
1st Year	5,000.00	150	750,000.00
<b>Total</b>			<b>750,000.00</b>

**Note:** For Academic Receipts 100% intake is budgeted for 1st year students whereas remaining years is budgeted on the current year strength of students.

**ANNEXURE C**  
**Budgeted Strength of the students and fees for the year 2019-2020 of MBA Course**

<b>1.Tuition Fees</b>			(Amt in Rs)
Particulars	Govt quota	University Quota	Total
<b>1st Year</b>			
No of Students	40	20	60
Fees	100,000.00	140,000.00	
Total (A)	4,000,000.00	2,800,000.00	6,800,000.00
<b>2nd Year</b>			
No of Students	34	19	53
Fees	100,000.00	140,000.00	
Total (B)	3,400,000.00	2,660,000.00	6,060,000.00
<b>Grand Total (A+B)</b>			<b>12,860,000.00</b>

<b>2. Examination Fees</b>			
Particulars	Fees	No of Students	Total
Annual Examination Fees	3,400.00	113	384,200.00
Internal Examination Fees	2,500.00	113	282,500.00
<b>Total</b>			<b>666,700.00</b>

<b>3.Other Fees</b>			
Particulars	Fees	No of Students	Total
1st Year	12,100.00	60	726,000.00
2nd Year	14,500.00	53	768,500.00
<b>Total</b>			<b>1,494,500.00</b>

<b>4. University Registration Fees</b>			
Particulars	Fees	No of Students	Total
1st Year	5,000.00	60	300,000.00
<b>Total</b>			<b>300,000.00</b>

**Note:** For Academic Receipts 100% intake is budgeted for 1st year students whereas remaining years is budgeted on the current year strength of students.

## Annexure D

### Budgeted Strength of the Students and fees for the year 2019-2020 of MCA Course

#### 1.Tuition Fees

(Amt in Rs)

Particulars	Govt quota	University Quota	Total
<b>1st Year</b>			
No of Students	35	25	60
Fees	75,000.00	90,000.00	
Total (A)	2,625,000.00	2,250,000.00	4,875,000.00
<b>2nd Year</b>			
No of Students	38	27	65
Fees	75,000.00	90,000.00	
Total (B)	2,850,000.00	2,430,000.00	5,280,000.00
<b>3rd Year</b>			
No of Students	36	26	62
Fees	75,000.00	75,000.00	
Total (C)	2,700,000.00	1,950,000.00	4,650,000.00
<b>Grand Total (A+B+C)</b>			<b>14,805,000.00</b>

#### 2.Examination Fees

Particulars	Fees	No of Students	Total
Annual Examination Fees	3,400.00	187	635,800.00
Internal Examination Fees	2,500.00	187	467,500.00
<b>Total</b>			<b>1,103,300.00</b>

#### 3.Other Fees

Particulars	Fees	No of Students	Total
1st Year	12,100.00	60	726000
2nd Year	14,500.00	65	942500
3rd Year	14,500.00	62	899000
<b>Total</b>			<b>2567500</b>

#### 4.University Registration Fees

Particulars	Fees	No of Students	Total
1st Year	5,000.00	60	300,000.00
<b>Total</b>			<b>300,000.00</b>

**Note:** For Academic Receipts 100% intake is budgeted for 1st year students whereas remaining years is budgeted on the current year strength of students.



**KLE** Technological  
University  
Creating Value  
Leveraging Knowledge

# **BUDGET ESTIMATES Aided Courses**

## **2019-2020**

**KLE TECHNOLOGICAL UNIVERSITY**  
**BVB COLLEGE CAMPUS, HUBBALLI-580031**

**BUDGET ESTIMATES OF AIDED COURSES FOR THE YEAR 2019-20**

**Amount (Rs)**

Sl. No	INCOME	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
<b>A</b>	<b><u>Revenue Income</u></b>					
	Academic Receipts	I - 1	30,282,100.00	28,478,600.00	41,635,350.00	45,241,000.00
	Grants and Donations	I - 2	99,700,000.00	90,450,319.00	91,000,000.00	105,400,000.00
	Income from Investments	I - 3	-	-	-	-
	Other Income	I - 4	527,000.00	450,474.00	537,000.00	737,000.00
<b>B</b>	<b><u>Capital Receipts</u></b>					
	Depreciation Reserve			296,155.00		
	Deficit		885,900.00	207,851.00	2,612,150.00	3,037,000.00
	<b>Total</b>		<b>131,395,000.00</b>	<b>119,883,399.00</b>	<b>135,784,500.00</b>	<b>154,415,000.00</b>

Sl. No	EXPENDITURE	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
<b>C</b>	<b><u>Revenue Expenditure</u></b>					
	Staff Payments & Benefits	E - 1	117,550,000.00	106,719,083.00	108,250,000.00	124,200,000.00
	Academic Expenses	E - 2	654,000.00	5,417,643.00	1,110,000.00	6,045,000.00
	Administrative & General Expenses	E - 3	2,165,000.00	3,585,942.00	2,347,500.00	5,885,000.00
	Transportation Expenses	E - 4	-	-	-	-
	Repairs and Maintenance	E - 5	4,725,000.00	3,002,710.00	6,375,000.00	7,880,000.00
	Finance Costs	E - 6	1,000.00	2,489.00	2,000.00	5,000.00
	Research & Development	E - 7	800,000.00	-	1,200,000.00	1,200,000.00
	Depreciation	E - 8	-	296,155.00	-	-
<b>D</b>	<b><u>Capital Expenditure</u></b>					
	Equipments, Computers & Softwares		3,500,000.00	76,700.00	13,650,000.00	6,000,000.00
	Furniture & Fixtures		500,000.00		650,000.00	700,000.00
	Library Books		300,000.00	741,594.00	400,000.00	1,000,000.00
	Research & Development		1,200,000.00	41,083.00	1,800,000.00	1,500,000.00
	Surplus					
	<b>Total</b>		<b>131,395,000.00</b>	<b>119,883,399.00</b>	<b>135,784,500.00</b>	<b>154,415,000.00</b>

**Summary of Revenue and Capital Income and Expenditure**

**Amount (Rs)**

INCOME	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
Total Revenue Income	130,509,100.00	119,379,393.00	133,172,350.00	151,378,000.00
Total Capital Receipts	-	296,155.00	-	-
Deficit	885,900.00	207,851.00	2,612,150.00	3,037,000.00
<b>Total</b>	<b>131,395,000.00</b>	<b>119,883,399.00</b>	<b>135,784,500.00</b>	<b>154,415,000.00</b>

EXPENDITURE	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
Total Revenue Expenditure	125,895,000.00	119,024,022.00	119,284,500.00	145,215,000.00
Total Capital Expenditure	5,500,000.00	859,377.00	16,500,000.00	9,200,000.00
Surplus				
<b>Total</b>	<b>131,395,000.00</b>	<b>119,883,399.00</b>	<b>135,784,500.00</b>	<b>154,415,000.00</b>

**KLE TECHNOLOGICAL UNIVERSITY, HUBBALLI-31**  
**Schedules Annexed to Income Budget of Aided Courses**

**Academic Receipts**

**Schedule I - 1**

**Amount (Rs)**

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	<b><u>Under Graduate Program</u></b>					
	Tuition Fees	Annexure A	16,630,000.00	13,847,750.00	22,260,000.00	22,772,800.00
	Examination Fees		3,280,200.00	3,134,800.00	4,422,600.00	5,265,000.00
	Other Fees		9,771,900.00	10,736,550.00	14,352,750.00	16,483,200.00
	University Registration Fees		600,000.00	759,500.00	600,000.00	720,000.00
	<b>Total</b>		<b>30,282,100.00</b>	<b>28,478,600.00</b>	<b>41,635,350.00</b>	<b>45,241,000.00</b>

**Grants & Donation**

**Schedule I - 2**

**Amount (Rs)**

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	State Govt. Maintenance Grant		99,700,000.00	90,450,319.00	91,000,000.00	105,400,000.00
	<b>Total</b>		<b>99,700,000.00</b>	<b>90,450,319.00</b>	<b>91,000,000.00</b>	<b>105,400,000.00</b>

**Income From Investments**

**Schedule I - 3**

**Amount (Rs)**

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	FD Interest From Designated Funds			-		
	<b>Total</b>		-	-		

**Other Income**

**Schedule I - 4**

**Amount (Rs)**

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	SB & FD Interest from Bank		500,000.00	434,874.00	500,000.00	700,000.00
2	Rental Income		12,000.00	12,000.00	12,000.00	12,000.00
3	Miscellaneous Income		15,000.00	3,600.00	25,000.00	25,000.00
	<b>Total</b>		<b>527,000.00</b>	<b>450,474.00</b>	<b>537,000.00</b>	<b>737,000.00</b>

**KLE TECHNOLOGICAL UNIVERSITY**  
**Schedules Annexed to Expenditure Budget of Aided Courses**

**Staff Payment and Benefits**

Schedule E- 1  
Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actuals 2017-18	Budget 2018-19	Budget 2019-20
1	Salary To Staff	117,400,000.00	106,719,083.00	108,050,000.00	124,000,000.00
2	Honorarium to Visiting Staff	150,000.00		200,000.00	200,000.00
	<b>Total</b>	<b>117,550,000.00</b>	<b>106,719,083.00</b>	<b>108,250,000.00</b>	<b>124,200,000.00</b>

**Note:** Actual Salary of Aided section is only for 12 months, whereas budgeted was for 13 months hence there is deviation.

**Academic Expenses**

Schedule E- 2  
Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actuals 2017-18	Budget 2018-19	Budget 2019-20
1	Hand Book	34,000.00	335,351.00	60,000.00	500,000.00
2	Identity Card Expenses	50,000.00	70,210.00	75,000.00	85,000.00
3	Journals & Periodicals	20,000.00		35,000.00	40,000.00
4	Student Events & Activities	300,000.00	941,789.00	690,000.00	1,500,000.00
5	Student Development		509,760.00		1,000,000.00
6	Faculty Development	150,000.00	155,016.00	150,000.00	300,000.00
7	Tablets & Kits to Students		1,897,220.00		400,000.00
8	Exam Expenditures		1,445,297.00		2,000,000.00
9	Medical Expenses		63,000.00		120,000.00
10	Other Academic Expenses	100,000.00		100,000.00	100,000.00
	<b>Total</b>	<b>654,000.00</b>	<b>5,417,643.00</b>	<b>1,110,000.00</b>	<b>6,045,000.00</b>

**Note:** WRT Sl. No.7 Tablet and other kits expenses is divided proportionately between aided and unaided sections, whereas in the budget 2017-18 whole expenditure was shown in only unaided section.

**Administrative and General Expenses**

Schedule E- 3  
Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actuals 2017-18	Budget 2018-19	Budget 2019-20
1	Consumables	500,000.00	561,527.00	500,000.00	1,000,000.00
2	Postage & Telegram	25,000.00		25,000.00	25,000.00
3	Printing & Stationery	60,000.00		75,000.00	100,000.00
4	Audit & Professional Charges	20,000.00	25,000.00	27,500.00	40,000.00
5	Rent, Rates and Taxes	450,000.00	356,000.00	500,000.00	500,000.00
6	Telephone & Internet Charges	350,000.00	510,411.00	400,000.00	600,000.00
7	Water & Electricity	540,000.00	1,257,081.00	600,000.00	1,500,000.00
8	TA/DA To Staff	120,000.00		120,000.00	120,000.00
9	Insurance		665,950.00		1,500,000.00
10	Other Expenses	100,000.00	209,973.00	100,000.00	500,000.00
	<b>Total</b>	<b>2,165,000.00</b>	<b>3,585,942.00</b>	<b>2,347,500.00</b>	<b>5,885,000.00</b>

**Notes:**

1) WRT Sl. No.9, A new Insurance Policy for students was taken in 2017-18, hence deviations in actuals & Budget 2017-18

**Transportation Expenses**

Schedule E- 4  
Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actuals 2017-18	Budget 2018-19	Budget 2019-20
1	Vehicle Running Expenses				
2	Vehicle Maintenance				
3	Vehicle Insurance				
	<b>Total</b>	-			

**Repairs & Maintenance**Schedule E- 5  
Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actuals 2017-18	Budget 2018-19	Budget 2019-20
1	Building Maintenance	250,000.00	510,015.00	300,000.00	800,000.00
2	Campus & Garden Maintenance	4,400,000.00	2,492,695.00	6,000,000.00	7,000,000.00
3	Computer & Equipment Maintenance	75,000.00		75,000.00	80,000.00
	<b>Total</b>	<b>4,725,000.00</b>	<b>3,002,710.00</b>	<b>6,375,000.00</b>	<b>7,880,000.00</b>

**Finance Costs**Schedule E- 6  
Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actuals 2017-18	Budget 2018-19	Budget 2019-20
1	Bank Charges & Commission	1,000.00	2,489.00	2,000.00	5,000.00
	<b>Total</b>	<b>1,000.00</b>	<b>2,489.00</b>	<b>2,000.00</b>	<b>5,000.00</b>

**Research and Development**Schedule E- 7  
Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actuals 2017-18	Budget 2018-19	Budget 2019-20
1	Research and Development	800,000.00		1,200,000.00	1,200,000.00
	<b>Total</b>	<b>800,000.00</b>		<b>1,200,000.00</b>	<b>1,200,000.00</b>

**Depreciation**Schedule E- 8  
Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actuals 2017-18	Budget 2018-19	Budget 2019-20
1	Depreciation		296,155.00		
	<b>Total</b>	<b>-</b>	<b>296,155.00</b>		

**Notes:**

1. Budgets are Based on accrual Method of accounting.
2. Few expenses for Actuals 2017-18 are apportioned between Aided and Unaided section based on the number of students and nature of expenditure.
3. More than 5% of Academic Receipts is allotted to Research and Development Revenue and Capital Expenditures.

## Annexure - A

### Budgeted strength of the students & fees for the year 2019-2020 of Under Graduate Course - Aided

#### 1. Tuition Fees

Tuition Fees - 1st Year	Civil	Mechanical	Electronics & Communication	Electrical and Electronics
Government Quota	57	57	57	57
University Quota	3	3	3	3
<b>TOTAL</b>	<b>60</b>	<b>60</b>	<b>60</b>	<b>60</b>
Government Quota Fees (15000 Rs)	855,000.00	855,000.00	855,000.00	855,000.00
University Quota Fees (183600 Rs)	550,800.00	550,800.00	550,800.00	550,800.00
<b>TOTAL (Rs)</b>	<b>1,405,800.00</b>	<b>1,405,800.00</b>	<b>1,405,800.00</b>	<b>1,405,800.00</b>
<b>TOTAL - A</b>				<b>5,623,200.00</b>

Tuition Fees -2nd Year	Civil	Mechanical	Electronics & Communication	Electrical and Electronics
Government Quota (Including Lateral)	65	66	67	66
University Quota (Including Lateral)	3	3	2	3
<b>TOTAL</b>	<b>68</b>	<b>69</b>	<b>69</b>	<b>69</b>
Government Quota Fees (15000 Rs)	975,000.00	990,000.00	1,005,000.00	990,000.00
University Quota Fees (183600 Rs)	550,800.00	550,800.00	367,200.00	550,800.00
<b>TOTAL (Rs)</b>	<b>1,525,800.00</b>	<b>1,540,800.00</b>	<b>1,372,200.00</b>	<b>1,540,800.00</b>
<b>TOTAL - B</b>				<b>5,979,600.00</b>

Tuition Fees -3rd Year	Civil	Mechanical	Electronics & Communication	Electrical and Electronics
Government Quota (Including Lateral)	64	65	65	66
University Quota (Including Lateral)	2	3	2	3
<b>TOTAL</b>	<b>66</b>	<b>68</b>	<b>67</b>	<b>69</b>
Government Quota Fees (15000 Rs)	960,000.00	975,000.00	975,000.00	990,000.00
University Quota Fees (170000 Rs)	340,000.00	510,000.00	340,000.00	510,000.00
<b>TOTAL (Rs)</b>	<b>1,300,000.00</b>	<b>1,485,000.00</b>	<b>1,315,000.00</b>	<b>1,500,000.00</b>
<b>TOTAL - C</b>				<b>5,600,000.00</b>

Tuition Fees -4th Year	Civil	Mechanical	Electronics & Communication	Electrical and Electronics
Government Quota (Including Lateral)	63	65	66	64
University Quota (Including Lateral)	2	3	2	3
<b>TOTAL</b>	<b>65</b>	<b>68</b>	<b>68</b>	<b>67</b>
Government Quota Fees (15000 Rs)	945,000.00	975,000.00	990,000.00	960,000.00
University Quota Fees (170000 Rs)	340,000.00	510,000.00	340,000.00	510,000.00
<b>TOTAL (Rs)</b>	<b>1,285,000.00</b>	<b>1,485,000.00</b>	<b>1,330,000.00</b>	<b>1,470,000.00</b>
<b>TOTAL - D</b>				<b>5,570,000.00</b>
<b>GRAND TOTAL (A+B+C+D)</b>				<b>22,772,800.00</b>

#### 2. University Examination Fees

Particulars	Fees	No of Students	Total
Annual Examination Fees	2,500.00	1053	2,632,500.00
Internal Examination Fees	2,500.00	1053	2,632,500.00
<b>Total</b>			<b>5,265,000.00</b>

#### 3. Other fees

Particulars	Fees	No of Students	Total
1st Year	19,900.00	240	4,776,000.00
2nd, 3rd Year & 4th Year	14,400.00	813	11,707,200.00
<b>Total</b>			<b>16,483,200.00</b>

#### 4. University Registration Fees

Particulars	Fees	No of Students	Total
1st Year	3,000.00	240	720,000.00
<b>Total</b>			<b>720,000.00</b>

**Note:** For Academic Receipts 100% intake is budgeted for 1st year students whereas remaining years is budgeted on the current year strength of students.



**KLE** Technological  
University  
Creating Value  
Leveraging Knowledge

# **BUDGET ESTIMATES**

## **Consolidated Budget (Aided & Unaided)**

### **2019-2020**

**KLE TECHNOLOGICAL UNIVERSITY**  
**BVB COLLEGE CAMPUS, HUBBALLI-580031**

**CONSOLIDATED BUDGET ESTIMATES FOR THE YEAR 2019-2020**

**Amount (Rs)**

Sl. No	INCOME	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
<b>A</b>	<b>Revenue Income</b>					
	Academic Receipts	I - 1	451,840,100.00	443,016,131.00	571,340,950.00	718,791,600.00
	Grants and Donations	I - 2	105,700,000.00	91,104,283.00	99,000,000.00	113,400,000.00
	Income from Investments	I - 3	8,540,000.00	8,705,188.00	8,750,000.00	9,000,000.00
	Other Income	I - 4	3,277,000.00	6,267,859.00	4,987,000.00	9,337,000.00
<b>B</b>	<b>Capital Receipts</b>					
	Long Term Borrowings		100,000,000.00	25,000,000.00	75,000,000.00	75,000,000.00
	Depreciation Reserve		-	36,663,392.00	-	-
	Deficit			14,270,088.00	45,360,050.00	46,431,900.00
	<b>Total</b>		<b>669,357,100.00</b>	<b>625,026,941.00</b>	<b>804,438,000.00</b>	<b>971,960,500.00</b>

Sl. No	EXPENDITURE	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
<b>C</b>	<b>Revenue Expenditure</b>					
	Staff Payments & Benefits	E - 1	311,550,000.00	291,323,101.00	379,850,000.00	458,223,000.00
	Academic Expenses	E - 2	35,724,000.00	47,923,669.00	49,610,000.00	66,795,000.00
	Administrative & General Expenses	E - 3	38,590,000.00	46,502,987.00	46,250,000.00	74,987,500.00
	Transportation Expenses	E - 4	380,000.00	704,839.00	600,000.00	1,620,000.00
	Repairs and Maintenance	E - 5	31,783,000.00	38,170,208.00	39,750,000.00	54,330,000.00
	Finance Costs	E - 6	7,077,300.00	4,622,528.00	13,952,000.00	20,505,000.00
	Research & Development	E - 7	9,800,000.00	6,836,680.00	12,200,000.00	13,200,000.00
	Depreciation	E - 8	-	36,663,392.00	-	-
<b>D</b>	<b>Capital Expenditure</b>					
	Buildings	C - 1	125,000,000.00	66,452,727.00	125,000,000.00	125,000,000.00
	Equipments, Computers & Softwares		67,500,000.00	42,318,457.00	88,650,000.00	88,000,000.00
	Furniture & Fixtures		10,500,000.00	28,323,013.00	12,650,000.00	18,500,000.00
	Library Books		2,300,000.00	1,523,340.00	2,900,000.00	3,500,000.00
	Research & Development		14,700,000.00	10,062,851.00	18,300,000.00	23,200,000.00
	Principal Repayment of Borrowings		505,000.00	500,498.00	11,126,000.00	20,500,000.00
	Reinvestment In Funds		3,200,000.00	3,098,651.00	3,600,000.00	3,600,000.00
	Surplus		10,747,800.00			
	<b>Total</b>		<b>669,357,100.00</b>	<b>625,026,941.00</b>	<b>804,438,000.00</b>	<b>971,960,500.00</b>

**Summary of Revenue and Capital Income and Expenditure**

**Amount (Rs)**

INCOME	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
Total Revenue Income	569,357,100.00	549,093,461.00	684,077,950.00	850,528,600.00
Total Capital Receipts	100,000,000.00	61,663,392.00	75,000,000.00	75,000,000.00
Deficit		14,270,088.00	45,360,050.00	46,431,900.00
<b>Total</b>	<b>669,357,100.00</b>	<b>625,026,941.00</b>	<b>804,438,000.00</b>	<b>971,960,500.00</b>

EXPENDITURE	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
Total Revenue Expenditure	434,904,300.00	472,747,404.00	542,212,000.00	689,660,500.00
Total Capital Expenditure	220,000,000.00	148,680,388.00	247,500,000.00	258,200,000.00
Principal Repayment of Borrowings	505,000.00	500,498.00	11,126,000.00	20,500,000.00
Reinvestment In Funds	3,200,000.00	3,098,651.00	3,600,000.00	3,600,000.00
Surplus	10,747,800.00			
<b>Total</b>	<b>669,357,100.00</b>	<b>625,026,941.00</b>	<b>804,438,000.00</b>	<b>971,960,500.00</b>

**KLE TECHNOLOGICAL UNIVERSITY, HUBBALLI-31**  
**Schedules Annexured to Income Budget of Aided and Unaided Courses**

**Academic Receipts**

**Schedule I - 1**

Amount (Rs)

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
<b>1</b>	<b><u>Under Graduate Engineering Program</u></b>					
	Tuition Fees	Annexure A	333,440,000.00	315,384,515.00	425,905,000.00	519,262,800.00
	Examination Fees		15,418,200.00	16,359,276.00	19,954,200.00	26,345,000.00
	Other Fees		46,032,900.00	51,784,490.00	65,229,250.00	97,889,600.00
	University Registration Fees		2,850,000.00	3,915,500.00	3,300,000.00	3,840,000.00
	Total		397,741,100.00	387,443,781.00	514,388,450.00	647,337,400.00
<b>2</b>	<b><u>BSC Program</u></b>		-	1,620,000.00	-	1,800,000.00
<b>3</b>	<b><u>Post Graduate Engineering Program</u></b>					
	Tuition Fees	Annexure B	18,925,000.00	15,035,110.00	19,985,000.00	25,100,000.00
	Examination Fees		1,407,600.00	1,101,600.00	1,428,000.00	1,581,200.00
	Other Fees		2,834,400.00	2,433,400.00	3,097,000.00	3,526,000.00
	University Registration Fees		600,000.00	490,000.00	750,000.00	750,000.00
	Total		23,767,000.00	19,060,110.00	25,260,000.00	30,957,200.00
<b>4</b>	<b><u>MBA Program</u></b>					
	Tuition Fees	Annexure C	12,620,000.00	12,480,610.00	12,860,000.00	12,860,000.00
	Examination Fees		566,100.00	562,700.00	576,300.00	666,700.00
	Other Fees		1,140,900.00	1,214,100.00	1,251,200.00	1,494,500.00
	University Registration Fees		300,000.00	290,000.00	300,000.00	300,000.00
	Total		14,627,000.00	14,547,410.00	14,987,500.00	15,321,200.00
<b>5</b>	<b><u>MCA Program</u></b>					
	Tuition Fees	Annexure D	12,750,000.00	13,170,330.00	13,545,000.00	14,805,000.00
	Examination Fees		867,000.00	875,500.00	877,200.00	1,103,300.00
	Other Fees		1,788,000.00	1,947,900.00	1,982,800.00	2,567,500.00
	University Registration Fees		300,000.00	350,000.00	300,000.00	300,000.00
	Total		15,705,000.00	16,343,730.00	16,705,000.00	18,775,800.00
<b>6</b>	<b><u>PHD</u></b>		-	1,681,100.00	-	1,500,000.00
<b>7</b>	<b><u>Others</u></b>					
	<b>A</b> Certificate Program		-	160,000.00	-	400,000.00
	<b>B</b> Minor Program		-	2,160,000.00	-	2,500,000.00
	<b>C</b> PG Diploma		-	-	-	200,000.00
	Total		-	2,320,000.00	-	3,100,000.00
	<b>Grand Total</b>		<b>451,840,100.00</b>	<b>443,016,131.00</b>	<b>571,340,950.00</b>	<b>718,791,600.00</b>

**Grants & Donation****Schedule I - 2**

Amount (Rs)

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	State Govt. Maintenance Grant		99,700,000.00	90,450,319.00	91,000,000.00	105,400,000.00
2	Research Grant		6,000,000.00	653,964.00	8,000,000.00	8,000,000.00
	<b>Total</b>		<b>105,700,000.00</b>	<b>91,104,283.00</b>	<b>99,000,000.00</b>	<b>113,400,000.00</b>

**Income From Investments****Schedule I - 3**

Amount (Rs)

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	FD Interest From Designated Funds		8,540,000.00	8,703,997.00	8,750,000.00	9,000,000.00
2	SB Interest From Designated Funds		-	1,191.00	-	-
	<b>Total</b>		<b>8,540,000.00</b>	<b>8,705,188.00</b>	<b>8,750,000.00</b>	<b>9,000,000.00</b>

**Other Income****Schedule I - 4**

Amount (Rs)

Sl. No	Particulars	Sch	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	SB & FD Interest from Bank		2,100,000.00	4,098,910.00	4,000,000.00	4,700,000.00
2	Rental Income		462,000.00	543,200.00	462,000.00	612,000.00
3	R & D Revenue Generation		-	527,000.00	-	1,000,000.00
4	Miscellaneous Income		715,000.00	1,098,749.00	525,000.00	3,025,000.00
	<b>Total</b>		<b>3,277,000.00</b>	<b>6,267,859.00</b>	<b>4,987,000.00</b>	<b>9,337,000.00</b>

**KLE TECHNOLOGICAL UNIVERSITY**  
**Schedules Annexed to Expenditure Budget of Aided and Unaided Courses**

**Staff Payment and Benefits**

**Schedule E- 1**

Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Salary To Staff	291,000,000.00	271,163,849.00	351,750,000.00	423,751,000.00
2	Management Contribution to P.F	6,750,000.00	6,778,398.00	9,000,000.00	11,070,000.00
3	Management Contribution to Gratuity	11,800,000.00	10,882,517.00	16,000,000.00	19,680,000.00
4	Management Contribution to ESIC	850,000.00	830,797.00	1,400,000.00	1,722,000.00
5	Honorarium to Visiting Staff	1,150,000.00	1,667,540.00	1,700,000.00	2,000,000.00
	<b>Total</b>	<b>311,550,000.00</b>	<b>291,323,101.00</b>	<b>379,850,000.00</b>	<b>458,223,000.00</b>

**Academic Expenses**

**Schedule E- 2**

Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Exam Expenditures	8,500,000.00	9,178,289.00	12,000,000.00	16,000,000.00
2	Students Events and Activities	6,300,000.00	17,507,768.00	9,190,000.00	21,500,000.00
3	Hand Book	1,234,000.00	1,383,321.00	1,560,000.00	2,100,000.00
4	Identity Card Expenses	200,000.00	78,756.00	375,000.00	235,000.00
5	Journals & Periodicals	3,020,000.00	140,193.00	4,035,000.00	4,040,000.00
6	Student Development	3,000,000.00	5,526,574.00	4,000,000.00	7,500,000.00
7	Tablets and Kits to Students	9,000,000.00	9,486,094.00	9,500,000.00	1,400,000.00
8	Foreign Collaboration	2,000,000.00	-	6,000,000.00	6,500,000.00
9	Faculty Development	1,650,000.00	2,306,742.00	1,950,000.00	4,300,000.00
10	Medical expenses	-	63,000.00	-	120,000.00
11	Other Academic Expenses	820,000.00	2,252,932.00	1,000,000.00	3,100,000.00
	<b>Total</b>	<b>35,724,000.00</b>	<b>47,923,669.00</b>	<b>49,610,000.00</b>	<b>66,795,000.00</b>

**Administrative and General Expenses**

**Schedule E- 3**

Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Advertisement & Publicity	5,800,000.00	7,460,479.00	6,400,000.00	10,000,000.00
2	Consumables	6,500,000.00	7,430,639.00	7,500,000.00	13,000,000.00
3	Postage & Telegram	100,000.00	67,114.00	127,500.00	127,500.00
4	Printing & Stationery	960,000.00	1,343,987.00	1,125,000.00	1,700,000.00
5	Audit & Professional Charges	170,000.00	366,870.00	227,500.00	540,000.00
6	Meeting Expenditure	1,200,000.00	2,633,341.00	1,500,000.00	3,000,000.00
7	Rent, Rates & Taxes (Incl. Lease Rent)	1,150,000.00	2,377,418.00	1,400,000.00	3,000,000.00
8	Security Services	5,500,000.00	5,439,761.00	6,500,000.00	9,000,000.00
9	Telephone & Internet Charges	3,950,000.00	3,729,673.00	4,600,000.00	4,600,000.00
10	Water & Electricity	8,740,000.00	8,279,651.00	10,600,000.00	13,500,000.00
11	Insurance to students	600,000.00	3,247,100.00	800,000.00	7,500,000.00
12	Placement Expenditures	600,000.00	786,068.00	1,300,000.00	1,800,000.00
13	TA/DA to Staff	420,000.00	299,974.00	470,000.00	720,000.00
14	Consultancy Expenses	-	443,500.00	-	1,800,000.00
15	Other Expenses	2,900,000.00	2,597,412.00	3,700,000.00	4,700,000.00
	<b>Total</b>	<b>38,590,000.00</b>	<b>46,502,987.00</b>	<b>46,250,000.00</b>	<b>74,987,500.00</b>

**Transportation Expenses**

**Schedule E- 4**

Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Vehicle Running Expenses	280,000.00	531,885.00	400,000.00	1,200,000.00
2	Vehicle Maintenance	35,000.00	99,076.00	75,000.00	200,000.00
3	Vehicle Insurance	65,000.00	73,878.00	125,000.00	220,000.00
	<b>Total</b>	<b>380,000.00</b>	<b>704,839.00</b>	<b>600,000.00</b>	<b>1,620,000.00</b>

**Repairs & Maintenance****Schedule E- 5**

Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Building Maintenance	6,250,000.00	8,923,024.00	7,800,000.00	10,300,000.00
2	Campus and Garden Maintenance	20,400,000.00	19,895,740.00	26,000,000.00	31,000,000.00
3	Computer and Equipment Maintenance	1,308,000.00	1,387,287.00	1,475,000.00	1,880,000.00
4	Electrical Maintenance	550,000.00	799,325.00	700,000.00	1,600,000.00
5	Furniture Maintenance	75,000.00	327,509.00	75,000.00	550,000.00
6	Software Maintenance	3,200,000.00	6,837,323.00	3,700,000.00	9,000,000.00
	<b>Total</b>	<b>31,783,000.00</b>	<b>38,170,208.00</b>	<b>39,750,000.00</b>	<b>54,330,000.00</b>

**Finance Costs****Schedule E- 6**

Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Bank Charges & Commission	351,000.00	185,220.00	352,000.00	1,005,000.00
2	Interest on Borrowings	6,726,300.00	4,437,308.00	13,600,000.00	19,500,000.00
	<b>Total</b>	<b>7,077,300.00</b>	<b>4,622,528.00</b>	<b>13,952,000.00</b>	<b>20,505,000.00</b>

**Research and Development****Schedule E- 7**

Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Research and Development	9,800,000.00	6,836,680.00	12,200,000.00	13,200,000.00
	<b>Total</b>	<b>9,800,000.00</b>	<b>6,836,680.00</b>	<b>12,200,000.00</b>	<b>13,200,000.00</b>

**Depreciation****Schedule E- 8**

Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	Depreciation		36,663,392.00		
	<b>Total</b>	<b>-</b>	<b>36,663,392.00</b>	<b>-</b>	<b>-</b>

**Buildings****Schedule C- 1**

Amount (Rs)

Sl. No	Particulars	Budget 2017-18	Actual 2017-18	Budget 2018-19	Budget 2019-20
1	CTIE Building	8,000,000.00	8,439,080.00		
2	E & C Building	34,500,000.00	35,578,529.00		
3	MBA Building	2,500,000.00	2,428,057.00	17,000,000.00	
4	Civil 2nd Floor	1,500,000.00	1,331,025.00		
5	E & E Building	2,000,000.00	2,073,616.00		
6	CLITE Building	-	353,459.00	60,000,000.00	
7	Indoor Stadium	60,000,000.00		40,000,000.00	80,000,000.00
9	Architecture Department	5,000,000.00	5,053,003.00		
10	Campus Roads				20,000,000.00
11	Other Additions	11,500,000.00	11,195,958.00	8,000,000.00	25,000,000.00
	<b>Total (Amount in Rs)</b>	<b>125,000,000.00</b>	<b>66,452,727.00</b>	<b>125,000,000.00</b>	<b>125,000,000.00</b>

**Note :** As the Indoor stadium project was not started in 2017-18, hence deviations in the Buildings Budget. The same will start in 2018-19

**KLE TECHNOLOGICAL UNIVERSITY**  
**RVB College Campus, Vidyanagar, Hubballi-31**

**Details Of Fixed Assets And Depreciation As on 31st March 2018**

Depreciation Schedule - 17A															
Description	GROSS BLOCK				DEPRECIATION						NET BLOCK		(Amount in Rs)		
	Cost/Valuation as at beginning of the year	Additions during the year		Deduct ion during the year	Cost/ Valuation at the year end 31-03-18	As at the beginning of the year	On additions During the year	On deducti ons during the year	Depreciation as on 31-3-18 (A)	Depreciation as on 31-3-17 (B)	Total Depreciation (A+B)	As on 31-03-2018	As on 31-03-2017		
		Upto 30/09/2017	After 01/10/2017												
I. Land:															
a) Freehold	-			-	-	-	-	-	-	-	-	-	-	-	
b) Leasehold	-			-	-	-	-	-	-	-	-	-	-	-	
II. Buildings:															
a) On Freehold Land	-			-	-	-	-	-	-	-	-	-	-	-	
b) On Leasehold Land	-			-	-	-	-	-	-	-	-	-	-	-	
1) Automobile Dept 1st Floor	7,642,044			7,642,044	644,528	-	-	644,528	1,196,767	1,841,295	5,800,749	6,445,277			
2) Learning Factory	3,036,865	526,980	127,791	3,691,636	288,502	59,088	-	347,590	151,843	499,433	3,192,203	2,885,022			
3)KLE Technological University Building	73,418,748	4,333,879	1,708,080	79,460,707	6,974,781	518,792	-	7,493,573	3,670,938	11,164,511	68,296,196	69,747,810			
4)Architecture Dept 1st Floor	10,694,818	965,704	4,087,298	15,747,820	1,016,008	300,935	-	1,316,943	534,741	1,851,684	13,896,136	10,160,077			
5)Civil Department 1st Floor	2,933,967			2,933,967	278,727	-	-	278,727	146,698	425,425	2,508,542	2,787,269			
6)PG Block 1st Floor	4,534,360	158,652	19,968	4,712,980	430,764	16,864	-	447,628	226,718	674,346	4,038,634	4,307,642			
7) E & C Building			54,929,875	54,929,875	-	2,746,494	-	2,746,494		2,746,494	52,183,381	-			
8) E & E Building		484,420	1,589,196	2,073,616	-	127,902	-	127,902		127,902	1,945,714	-			
9) Biotech Dept Lab		155,777	1,236,552	1,392,329	-	77,405	-	77,405		77,405	1,314,924	-			
10) Canteen			867,607	867,607	-	43,380	-	43,380		43,380	824,227	-			
11) Civil Department 2nd Floor			5,183,600	5,183,600	-	259,180	-	259,180		259,180	4,924,420	-			
12) MCA Computer Lab		759,469	64,157	823,626	-	79,155	-	79,155		79,155	744,471	-			
13) Borewell		54,929	414,870	469,799	-	26,236	-	26,236		26,237	443,562	-			
14) MCA Building		182,326		182,326	-	18,233	-	18,233		18,233	164,093	-			
15) PG Building		840,225		840,225	-	84,023	-	84,022		84,022	756,203	-			
c) Ownership Flats/Premises	-			-	-	-	-	-	-	-	-	-	-	-	
d) Superstructures on Land not belonging to educational institutions	-			-	-	-	-	-	-	-	-	-	-	-	
III. Plants, machinery & equipment	24,551,861	10,332,329	21,435,948	56,320,138	3,148,802	3,157,546	-	6,306,348	3,559,845	9,866,193	46,453,945	20,992,016			
IV. Vehicle	2,666,448	140,784		2,807,232	338,049	21,118	-	359,167	412,788	771,955	2,035,277	2,253,660			
V. Furniture & Fixtures	15,946,998	16,216,480	12,471,365	44,634,843	1,432,696	2,245,216	-	3,677,912	1,620,039	5,297,951	39,336,892	14,326,959			
VI. Office Equipment	-			-	-	-	-	-	-	-	-	-	-	-	
VII. Computer	17,924,742	13,792,161	3,068,045	34,784,948	3,431,558	6,130,474	-	9,562,031	9,345,848	18,907,879	15,877,069	8,578,894			
VIII. Electric Installations	-			-	-	-	-	-	-	-	-	-	-	-	
IX. Library books	2,054,544	273,822	1,407,509	3,735,875	339,645	391,031	-	730,676	1,205,433	1,936,109	1,799,766	849,111			
X. Tube wells & Water supply	-			-	-	-	-	-	-	-	-	-	-	-	
XI. Software	2,350,829	2,482,973	3,782,341	8,616,143	286,604	1,749,657	-	2,036,261	1,634,319	3,670,580		716,510			
XII. Other fixed Assets	-			-	-	-	-	-	-	-	-	-	-	-	
a) Equipments out of Grants	3,229,471.20			3,229,471	-	-	-	-	-	-	3,229,471	3,229,471			
<b>A. TOTAL</b>	<b>170,985,696</b>	<b>51,700,911</b>	<b>112,394,202</b>	<b>-</b>	<b>335,080,809</b>	<b>18,610,664</b>	<b>18,052,729</b>	<b>-</b>	<b>36,663,392</b>	<b>23,705,977</b>	<b>60,369,369</b>	<b>269,765,876</b>	<b>147,279,719</b>		
XII. Capital work-in-progress															
a)Ceer Lab , RHK Building		145,029	645,461	790,490							790,490				
b)CTIE Building		2,194,825	6,244,255	8,439,080							8,439,080				
c) Exam Cell			31,687	31,687											
d)MBA Building		6,838	2,421,219	2,428,057							2,428,057				
e)CLJTE Building			353,459	353,459							353,459				
f)Civil Department 2nd Floor Building	3,852,575	571,857	759,168										3,852,575		
g)E&C Department	19,351,346	2,209,681	33,368,848										19,351,346		
Transfer To assets		(2,781,538)	(57,331,937)												
<b>B. NET WORK-IN-PROGRESS</b>	<b>23,203,921</b>	<b>2,346,692</b>	<b>(13,507,840)</b>	<b>-</b>	<b>12,042,773</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12,011,086</b>	<b>23,203,921</b>		
<b>TOTAL (A+B)</b>	<b>194,189,617</b>	<b>54,047,603</b>	<b>98,886,362</b>	<b>-</b>	<b>347,123,582</b>	<b>18,610,664</b>	<b>18,052,729</b>	<b>-</b>	<b>36,663,392</b>	<b>23,705,977</b>	<b>60,369,369</b>	<b>281,776,962</b>	<b>170,483,640</b>		

# Annexure-3

The Intellectual Property (IP) Policy

# The Intellectual Property (IP) Policy of KLE Technological University 2018

May 2018

## Section II: IntellectualProperty (IP) Policy, KLE Tech, Hubballi.

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3.	PartC: The Inventions IP Policy– (Patents, Trademarks, Designrights and related)	9
4.	Part D: TheExpressionsIP Policy (Copyrights related)	12
5.	Part E: Annexure	15

S.No	Annexure	Remarks
1.	Annexure 1	Defining the parties concerned & Significant Usage
2.	Annexure 2	Disclosure, Assessment and Protection
3.	Annexure 3	Revenue Sharing Structure
4.	Annexure 4	Role of Dean ( Research and Development)
5.	Annexure 5	Relevant Contracts and Agreements

## The Intellectual Property Policy of KLE Tech- 2018

### Part A:

#### Preamble:

This policy concerning Intellectual Property of KLE Tech is aligned to the vision and mission of KLE Technological University.

KLE Tech acknowledges the role of numerous stakeholders in the creation of its Intellectual Property (IP), namely the government, public, researchers, faculty, staff, postdoctoral fellows, research students, postgraduate and graduate students, guest researchers, sponsors, technology transfer units and the national IP offices. Being a public educational institute, interests of the various stakeholders have been attempted to be taken care of.

KLE Tech recognizes the importance of innovations and assists in translating them into products, processes and services for both commercial benefits and achieve the widest public good. The features of this IP Policy aim to meet such needs and enable KLE Tech to achieve its vision. KLE Tech's IP policy is designed to identify, protect, and leverage the bouquet of IP that is generated from research—patents, copyrights, design rights and trademarks among others, that serve the purpose of knowledge diffusion and commercialization.

The IP policy of KLE Tech is segregated into two primary subpolicies relating to (a) "inventions" and (b) "expressions" associated activities at the KLE Tech. The main IP policy presents the generic position of KLE Tech. The Inventions related IP Policy relates to patent, design, layout, trademark, bio-diversity and related rights whilst the Expressions related IP Policy provides direction for the Copyright and related rights. Various forms that explain in detail the sub processes, various situations and required documentation will be included as part of the implementation of this policy.

## Intellectual Property (IP) Policy, KLE Technological University, Hubballi

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### **Part B:**

#### **The KLE Tech Hubballi Intellectual Property (IP) Policy**

This policy is applicable to all the KLE Tech Personnel—students, faculty, staff, researchers, project engineers, research assistants, interns, visiting scholars and CTIE staff members.

Entrepreneurs, industry and external parties should be aware of KLE Tech's IP policy if they are working with KLE Tech to generate IP, share or license IP or any other IP related activity. Ownership of IP when external parties are involved is also addressed in this policy.

KLE Tech personnel are entitled to decide if the results of any research undertaken by them in the course of their employment/ engagement with the KLE Tech shall be disseminated through publications or disclosed as they wish in accordance with normal academic practice. However, the concerned parties should be aware of the various Intellectual Properties that get created in the course of their research, collaborations and teaching that has potential for increased productivity or breakthrough development/inventions and creative activities as a means of effective communication and dissemination.

Under situations where a particular invention /development comes under both the sub policies of Inventions vis-à-vis Expressions, the IP Inventions Policy will supersede. The KLE Tech's decision to grant waiver to the creators from non-application of the IP policy is delegated jointly to the Dean Research and Development (Dean R&D) and Vice Chancellor of KLE Tech OR to IP Steering committee of KLE Tech which includes VC and Dean R&D.

**I. Ownership:** The IP policy has to be accepted and signed by all KLE Tech Personnel. KLE Tech owns all the Intellectual Property (IP) that is produced by all KLE Tech personnel and external stakeholders who use significant resources of KLE Tech. Refer to the detailed relevant IP Inventions Policy (Part C) and Expression Policy (Part D) for exceptions. KLE Tech reserves the right to apply for IP protection in India/throughout the world/specific countries for suitable protection of the IP generated. KLE Tech will also decide about the continued maintenance of the IP.

The policy also addresses scenarios where KLE Personnel are working with external parties when IP is generated jointly. The following scenarios exist

**I-A)** When IP is generated using KLE Tech's research facilities (significant resources) (Labs, workshops, software and computing systems) jointly by external party and KLE Tech personnel. In this case the IP rights are mutually agreed upon by KLE Tech and external party - before the start of the collaboration. IP rights shall be jointly filed by KLE Tech and external party. An agreement (Annexure 5) is signed regarding sharing of monetized value of IP.

**I-B)** When IP is generated by external party using research facilities (significant resources) of KLE Tech. In this scenario IP rights are mutually agreed upon by external party and KLE Tech - before the start of the collaboration, and an agreement (Annexure 5) is signed regarding sharing of monetized IP value. IP rights can be filed jointly by KLE Tech or a third party.

Intellectual Property (IP) Policy, KLE Technological University, Hubballi

**I-C)**When IP is generated by KLE Tech students and personnel while working with an external party and using their research facilities (significant resources)and if the external party has no IP policy of its own and does not insist on IP rights, KLE Tech students and personnel can protect the IP generated by them during this period by filing for IP rights through KLE Tech and avail the benefits of the policy. If the external party insists on joint IP rights point I-B above can be applied.

**Annexure 1 :** Gives an explanation of what constitutes significant resources.

**II. Disclosure:** KLE Tech encourages timely disclosure of all potential IP/Inventions/Innovations generated (conceived or reduced to practice in whole or in part) by members of the faculty or staff (including research staff, doctoral students, students and visiting scholars) of the KLE Tech and external stakeholders in the course of their KLE Tech related activities. KLE Tech identifies the relevant statutory and other mechanisms not limited to Patent, Copyright, Trademark, Design Rights, Integrated Circuit, Plant Varieties and rest towards registration. Disclosure enables prompt action by KLE Tech to appropriately protect and disseminate the research activities occurring at KLE Tech. All requests/claims for IP must be routed through the office of Dean R&D, and appropriate approvals taken before-hand.

**Annexure 2:** Details the process of disclosure and protection of KLE Tech's Intellectual Property. All such disclosures are considered to be confidential.

**III. IP Licensing and Agreements**

KLE Tech understands the legitimate commercial needs and the security required in the form of IP especially for breakthrough technologies. KLE Tech strives to balance this critical requirement against the primary goal of academic and research dissemination leading to a practical usage of the technologies being developed.

The licensing is done by KLE Tech by considering the evaluation, marketing, negotiations and licensing of the entire KLE Tech owned IP (Refer Annexure 4 for details and Annexure 5 for information on Agreements). In certain cases, KLE Tech might use the services of a third party for licensing the technology developed, under mutually agreed terms and conditions with such party, within the framework of the KLE Tech IP Policy.

**IV. Licensing Types**

The type of license provided will depend on the nature of the invention/innovation. KLE Tech, being an academic institute, encourages non-exclusive licensing towards wider deployment of innovations being developed at KLE Tech. Under certain exceptions, KLE Tech might consider exclusive licensing.

In case of platform wide use of inventions / innovations and or where significant resources/effort have to be invested by the licensee in using the IP, KLE Tech might consider providing an application and/or region specific or a full scale exclusive license. Due-diligence, not limiting to business plan, business model, milestones and usage plan of

## Intellectual Property (IP) Policy, KLE Technological University, Hubballi

the IP discussion and other relevant information as required, would be undertaken, in order to determine the type of licensing to be provided.

Licenses are provided to a company and not to an individual. License may be limited to that particular IP discussion and not to its enhancements or modifications. Licenses provided are subject to periodic review including the working status and accessibility / availability of the IP used. Based on the review of the licensing activities, KLE Tech reserves the right to extend, modify or terminate the type of existing license provided.

### a) License Exemptions

In case of both the inventor(s) and external party(ies) requesting for the license of the same KLE Tech owned IP at the same time, preference for licensing may be provided to the inventor(s) based on the nature of technology amongst other considerations.

Irrespective of the license provided, KLE Tech retains the right for research exemption and experimental use for patents, design rights and under fair use of copyrights and trademarks on a KLE Tech wide perpetual license towards its basic objective of academics and enhancing research. This will include the right to publish, use of technical data, the method, product and related services that has resulted from earlier research which has been licensed for the activities mentioned earlier.

In the case of inventions by its faculty / students / research scholars / other KLE Tech Personnel under lien/sabbatical/visit/internship, KLE Tech exercises the right to the accesses of such IP created for the sole purpose of academic work and research under research exemption and fair use, being conducted within its jurisdiction. The stakeholders are encouraged to disclose the invention through appropriate invention disclosure form (IDF) of such developments during their external stay.

## V. Technology License/ Transfer Options

KLE Tech recognizes the inventor(s)/creator(s) as a key component for successful commercialization process. KLE Tech shall use the following options to utilize the IP generated. Licensing may be made either directly to third parties or through incubation or through licensing agents. It is to be noted that the IP generated would preferably be licensed and not assigned. KLE Tech reserves its march-in rights in the case of assigned IP. Any licensing done by KLE Tech will be on an as is where is basis.

1. Technology licensing: This would be as per the current policy and revenue earned will be shared with the inventor(s) in a 70:30 ratio. The 70% due to the KLE Tech inventor(s) will be distributed as per these separate inventors' agreement entered into between the inventors. In the case of multiple KLE Tech inventors, the default inventors' royalty share is done on an equal basis in the absence of an alternate revenue sharing agreement. Details of royalty sharing are given in Annexure 3. Salient features of the licensing include the following:

- i. Preferred mode is Non Exclusive licensing. Exceptions to this will be based on the funding of the project and any other relevant requirements.

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- ii. Exclusive license will be subjected to periodic review of license not limiting to usage status, application and/or region specific, royalty generation for continuing such license agreement.

2. Incubation through Center of Technology Innovation and Entrepreneurship (CTIE): KLE Tech inventors and community interested to incubate the technologies developed have an opportunity through CTIE. Salient features for CTIE incubation model include the following:

- i. Nature of license (exclusive, non-exclusive or transfer of know how) will be based on the nature of the technology developed and on any prior contract governing the IP to be licensed.
- ii. Exit time review of the earlier license provided would determine the future mode of license.
- iii. Exclusive licensing provided after exit from CTIE will be subject to periodic review based on various measures.
- iv. For IP involving multiple inventors, a No-objection Certificate (NoC) from all the inventors concerned is a necessity for an exclusive license to be considered. In the absence of NoCs from all concerned, a non-exclusive license ONLY will be provided to the requester(s).

3. Licensing through agents: In some cases, KLE Tech might utilize the services of third party licensing agents and mechanisms for effective deployment of the technology developed. Salient features for third party licensing agents include the following:

- i. The nature of the licensing would be generally non-exclusive.
- ii. Exclusive licensing will be subject to periodic review based on various measures.

For an IP which has not been licensed to any party, the creator(s) may also contact potential licensee(s) on their own initiative, maintaining confidentiality and taking all necessary care so as not to affect the value of the IP, through appropriate agreements such as Non-Disclosure Agreement (NDA) with the potential licensee(s) during technology marketing discussions.

If KLE Tech has not been able to commercialize the creative work in a reasonable time frame, the creator(s) may approach the Dean R&D for the assignment of rights of the invention(s) to them.

**VI. Infringements, Damages, Liability and Indemnity Insurance**

KLE Tech shall, in any contract between the licensee and KLE Tech, seek indemnity from any legal proceedings including without limitation manufacturing defects, production problems, design guarantee, upgrades, debug obligations and the content created. The policy also supports the need to indemnify KLE Tech personnel built into the license agreements for sponsored research and consultative work. KLE Tech shall retain the right to engage in any litigation concerning its IP and license infringements.

**VII. Conflict of Interest**

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The inventor(s) are required to disclose potential conflict of interest while undertaking any IP related activity. If the inventor(s) and/or their immediate family have a stake in a licensee or potential licensee company then they are required to disclose the stake they and/or their immediate family have in the company. A KLE Tech license to a company in which the inventor(s) also have a stake and management role shall be subject to the approval of the Dean R&D taking the above consideration into fact. All KLE Tech Personnel shall be bound by the conflict of interest related policy/ guidelines of KLE Tech as applicable from time to time.

### **VIII. Dispute Resolution**

In case of any disputes between KLE Tech and the inventors/ creators regarding the implementation of the IP policy, the aggrieved party may appeal to the Vice Chancellor of KLE Tech, and/or the IP Steering Committee. Efforts shall be made to address the concerns of the aggrieved party through the appointment of a committee of experts and the verdict of the Vice Chancellor is final.

### **IX. Jurisdiction**

All agreements to be signed by KLE Tech will have the jurisdiction of the court in Karnataka and shall be governed by appropriate laws of India.

## **PartC: The Inventionsrelated IP Policy**

### **1. Applicability & Requirements**

This policy is applicable to all KLE Tech personnel as defined in the overall IP policy and their range of activities such as, but not limited to, teaching, research, distance education and modules, continuing education programme, consultancy, sponsored work, collaborative research (internal and external) and the range of inventions includes patentable subject matter, trademark/service mark, geographical indicators, design registrations, integrated circuits layout, plant varieties, materials transfer and other related necessary Confidential Information.

Evaluation of academic work associated with IP creation will be subject to KLE Tech norms as applicable from time to time. Any agreement with an external agency, which requires delay in public disclosure for the purpose of IP protection, should usually not have effect for longer than three months from the time of notification by KLE Tech to the said agency.

The applicability of the IP policy will be covered through appropriate forms to be filled by the KLE Tech personnel.

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**2. Relevant inventions and Ownership**

Under this policy, title to such inventions including software where applicable, designs and integrated circuit layouts and patentable subject matter that are created in KLE Tech with the use of significant KLE Tech resources are assigned to and owned by KLE Tech, regardless of the source of funding, if any. In case the funding agency insists on IP rights, it shall be discussed before the start of the research and IP rights shall be shared with mutually agreed ratio.

All inventors/creators are required to ensure that an “inventor’s agreement” is filled at the time of submission of an invention disclosure to KLE Tech. This agreement would among other aspects, include ratio of sharing any revenue received from commercialization of the said technology amongst the KLE Tech inventors/ creators. Absence of such an agreement will be considered as equal sharing amongst the KLE Tech inventors/ creators.

**3. Ownership exemption**

The possibility of exemption to ownership is given in the following cases and KLE Tech reserves the right to revise these exemptions on a case to case basis.

- i. If the inventor / creator is not related with KLE Tech.
- ii. If the inventor/creator has not used significant resources of KLE Tech. The inventor(s)/creator(s) are to submit the lack of using significant resources (as described in Annexure 1) for exemption purposes.
- iii. If KLE Tech is not interested to take forward the disclosed invention/creation towards IP protection or through prior specific agreement.

In case of KLE Tech not protecting an IP, the inventor(s)/ creator(s) are provided with the permission to protect the same in countries of their choice.

**4. Externally Funded / Collaborative Development**

For the relevant invention(s) including software, designs and integrated circuit layouts, produced during the course of a sponsored and/or collaborative activity (internal/external), specific provisions related to IP made in contracts governing the collaborative activities are to be referred along with this policy. Cases where confidential data and results are to be used by the KLE Tech for its academic and research work, exclusive access to the relevant project members have to be provided. Relevant faculty, students and researchers who would contribute in such projects are to be duly notified of potential delay in approval for publication, academic and research related activities before accepting such project proposals. Based on such agreements assigned by KLE Tech, the following scenarios are envisaged:

- i. KLE Tech is the sole owner of the IP generated from the funding provided.
- ii. The IP generated is owned jointly with the collaborative partner having the first rights of refusal towards commercialization.
- iii. In the case of a collaborative/multiple consortium based IP generation, the IP terms of such agreement is to be considered along with the policy. In the absence of any specific mutually agreed IP agreement in such cases, KLE Tech follows its IP policy.

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- iv. KLE  
Tech can assign the IP generated, to the funding agency based on the nature of the technology, funding and specific applications.

Under all circumstances, KLE Tech always reserves the right to use the IP generated for its academic and research purposes.

### **5. Design Rights**

The design right for a created component (physical or graphic, any dimension) follows the IP inventions policy as indicated in this section.

### **6. Trade Mark(s)/ Service Mark(s)**

The logo of KLE Tech would be the trademark of the KLE Technological University. It is to be noted that the logo of KLE Tech cannot be used on any of the private communication of any of the KLE Tech personnel. Official activities that are part of the officially recognized bodies of KLE Tech, web pages hosted on the KLE Tech domain, project websites and reports in which KLE Tech is a project member, student thesis are allowed by default to have the KLE Tech logo.

The usage of the KLE Tech logo, KLE Tech name in full or partial for all other activities has to get due approval of KLE Tech.

### **7. Material Transfer Agreements (MTAs)**

This agreement is of relevance to activity which requires a physical material access for research. KLE Tech follows a material transfer agreement aligned with its academic and research needs. The MTA is used for both KLE Tech to provide a material (typically biological) to any other external party and also to request any material from external agency.

Such agreements are to be finalized in consultation with KLE Tech for all materials transferred to and from external agencies.

\*~\*~\* End of Inventions related IP Policy \*~\*~\*

## Part D: The Expressions related IP Policy

### 1. Applicability & Requirements

This policy is applicable to all KLE Tech personnel as defined in the overall IP policy and their range of activities during their engagement with KLE Tech such as, but not limited to, teaching, research, distance education, continuing education, consultancy, sponsored work, collaborative activity (internal and external), KLE Tech designated or sponsored work (academic, cultural) and the range of creations includes copyrightable works and related necessary confidential information.

This sub-policy is limited to the "literal" component of any deliverable and patentable / "inventions"-related content will be under the purview of the IP inventions policy. As an example, this is under the copyright policy of KLE Tech refer only to the literary work of the thesis.

Evaluation of academic work associated with IP creation will be subject to KLE Tech norms as applicable from time to time. Any agreement with an external agency, which requires delay in public disclosure for the purpose of IP protection, should usually not have effect for longer than three months from the time of notification by KLE Tech to the said agency.

### 2. Relevant creations and ownership

Title to such creations including literary works, software, music, cinematography, sound and other rights covered under the Copyright Act of India, 1956 and amendments thereof, where applicable, that are created in KLE Tech with the use of significant KLE Tech resources under this policy are assigned to and owned by KLE Tech.

KLE Tech is the owner to the administrative and other documents created as part of designated work. Examples include course outline documents, question papers, answer sheets, grade ranking sheet, and others such creations. All the creations are required to ensure that the "inventors' agreement" is filled at the time of submission to KLE Tech. This agreement would among other aspects, include ratio of sharing of any revenue received from commercialization of the said creation. Absence of such an agreement will be considered as equal sharing amongst the creators.

### 3. Ownership exemptions

Exemption to ownership is given in the following cases and KLE Tech reserves the right to revise these exemptions on a case to case basis. Copyright being present by default on any material being created, the policy provides the following ownership exemptions to the various creations that occur as part of KLE Tech personnel's activities. The copyright ownership is treated separately for the various creations identified.

#### Teaching/ Course material

1. KLE Tech acknowledges that the author is the owner of teaching materials created for teaching purposes during author's engagement with/stay at KLE Tech.

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2. As most of the course content is created cumulatively and in order to enable a wider usage and distribution of the teaching materials created, KLE Tech by default gets a license to the copyright and all other rights of the content created by the creator for fair dealing under academic and research context.
3. KLE Tech is not liable for any of the copyright violations by its personnel for the content created. The author is expected to carry out due diligence in the course of content creation.

**Thesis**

1. The student is the original creator of the thesis, fine-tuned with relevant contribution of the supervisor(s) and the copyright authorship rests with the student creator.
2. The ownership is jointly held by the student creator and the supervisor(s) concerned. The supervisor(s) can waive off their joint ownership if desired. Relevant forms will be made available for such waivers.
3. The supervisor(s) is(are) required to sign off at the time of the thesis submission, indicating the commercial/potential commercial/no commercial value of the work concerned.
4. KLE Tech reserves the right to identify potential IP generated through the submitted thesis and protect such identified IP before displaying the thesis in public domain. KLE Tech gets a non-exclusive, non-commercial license for the display and use of the thesis for academic and research purposes.
5. In the case of a thesis resulting from external funding, the joint ownership of the thesis extends to the external supervisor(s). Pending any specific agreement, the IP and Copyright policy of KLE Tech will be applicable by default in such cases.
6. Both the student and the faculty supervisor(s), where applicable, have the right to first refusal for any further adaptations and other derivative work that is intended to be done by either of the parties. They are given three months' time from the day the official request submitted, to exercise their right to refusal. The official request should include at the minimum the adaptations identified.
7. Failure to respond within the time duration of three months will be deemed to be an acceptance of the proposal presented. Either party can approach KLE Tech towards the resolution. The Vice Chancellor of KLE Tech authorizes the formation of a panel under the Dean R&D for a resolution process.
8. Irrespective of any agreement, KLE Tech reserves the right to use the thesis for educational and research requirements. KLE Tech may not prefer the use of NDA for its thesis evaluation.
9. KLE Tech gets an automatic right to display the thesis in soft and hard forms

### **Books, articles and related literary works**

KLE Tech encourages its personnel to spread knowledge and books, technical articles etc. are ways in which this vision can be achieved. In this respect, KLE Tech does not claim ownership of copyright on books authored by KLE Tech personnel. In cases where the books are related to the multiple research groups / faculty teaching the course in the KLE Tech, it is expected that the interested author shall get the relevant no objection certificate from co-authors/ other contributors.

Use of KLE Tech logo on any personal publications by the faculty/staff/student is prohibited. In cases of KLE Tech designated works and other works like the content development programme, the ownership rests with KLE Tech.

Students who wish to publish their thesis, prior to submission for an academic degree, as a book or any other type of publication are required to seek a prior written approval from Dean R&D -KLE Tech.

\*~\*~\* End of Expressions related IP Policy \*~\*~\*

**Part E:**

**Annexure 1– Defining parties concerned and significant usage**

In addition to faculty and staff (including project staff), the provisions of the KLE Tech's IP policy will extend to all students, research scholars and post-doctoral fellows, non-employees who participate or intend to participate in research projects at KLE Tech (including visiting faculty, industry personnel, visiting students, fellows, etc.) either in a direct or indirect relationship with KLE Tech or through any related activity.

1. Use of library facilities, internet connectivity, and occasional use of office equipment and office staff will not be considered "significant use" of KLE Tech facilities and equipment. In addition, the following are accepted as no significant usage of KLE Tech resources:
2. The inventor does not use any KLE Tech provided funds or KLE Tech administered funds in connection with the activity resulting in generation of IP.

Prior disclosure by the inventor of any intellectual property that closely resembles a specific research project at the KLE Tech, together with an explanation that such intellectual property did not arise through use of KLE Tech resources.

The KLE Tech requires the individual to provide supporting documentation towards the claim of no significant use of the KLE Tech resources and reserve the right to grant appropriate waivers. It is to be noted that in the event of further development or modification to an earlier individual work by making significant use of KLE Tech facilities, resources and related funding, KLE Tech may assert further rights in accordance with its IP policies.

Access to facilities for external registered students is limited to their related research and is bound by the IP policy of KLE Tech.

**Annexure 2– Disclosure, Assessment and Protection**

For all invention(s) produced at KLE Tech University, the inventor(s) who are KLE Tech Personnel are required to disclose the creative work to the IP Coordinator or Department IP representative at the earliest date using an Invention Disclosure form (IDF) of the KLE Tech.

Disclosure is a critical part of the IP protection process and it formally documents claims of inventorship, the date of the invention and other details of the invention. The inventor(s) shall assign the rights of the disclosed invention to KLE Tech.

For sponsored activity, the provisions of the contract pertaining to disclosure of creative work are applicable. For IP generated collaboratively with an external agency disclosure process can be adopted, however the IP rights shall be mutually agreed upon.

All KLE Tech personnel and non-KLE Tech personnel associated with any activity of KLE Tech shall treat all IP related information which has been disclosed to the KLE Tech and/or whose rights are assigned to KLE Tech, or whose rights rest with KLE Tech personnel, and/or whose rights are jointly owned as confidential. Such confidentiality shall be maintained till the date as demanded by the relevant contract, if any, between the

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concerned parties unless such knowledge is in the public domain or is generally available to the public.

In order to expedite and complete the procedural and legal formalities of IP protection, all inventors / creators of KLE Tech are required to sign such identified documents and provide assistance to empower and enable KLE Tech to complete these statutory requirements within stipulated time.

**Assessment of Inventions / Innovations for protection**

The KLE Tech shall assess the patentability of the invention and make one of the following recommendations:

1. KLE Tech shall take the responsibility of protection of the IP, in which case, KLE Tech will initiate appropriate processes.
2. In the event of KLE Tech not taking up the responsibility of protection of the IP, the inventor/creator(s) may then choose to protect the IP on their own. However, the ownership rights shall remain with KLE Tech. In such cases, the cost and revenue sharing will be governed by a separate agreement between KLE Tech and the inventor / creator(s).
3. Filings of IP Applications in foreign countries: Within a reasonable period of filing the complete IP application in India, KLE Tech shall, based on available information, decide on the suitability of protection of the invention in foreign countries.
4. If KLE Tech opts not to undertake such protection in any specific country requested by the inventor(s), the creator(s) may then choose to protect the creative work on their own. However, the ownership rights shall remain with KLE Tech. In such cases, the cost and revenue sharing will be governed by a separate agreement between KLE Tech and the inventor / creator(s).

**Renewal of IP Rights**

A decision on the annual renewal of IP rights will be taken by the KLE Tech. If KLE Tech decides not to renew the IP in any country, then it may assign the rights of the IP in that country to the creator(s) based on a request to that effect from the creator(s) and an internal review. In all cases where IP rights in any specific country have been reassigned to the inventor(s), KLE Tech shall not claim any share of proceeds earned through that IP in that country excepting for the costs already incurred by KLE Tech.

**Annexure 3– Revenue Sharing**

Net earnings from the commercialization of IP owned by KLE Tech would be shared as follows:

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1. The inventor(s)/creator(s) share would be declared annually (or as revenues are received) and disbursement will be made to the inventor(s)/creator(s), their legal heir, whether or not the inventor(s)/creators are associated with KLE Tech at the time of disbursement.
2. The revenue sharing ratio between the inventor team and KLE Tech will be fixed 70:30 in favor of the inventor team. IP protection costs will be part of the license revenue sharing agreement between KLE Tech and inventor(s).
3. Where applicable and when KLE Tech reassigns the rights of the IP to its creator(s) for any country, the cost and revenue sharing will be governed by a separate agreement between KLE Tech and the inventor / creator(s).

The inventors may at any time by mutual consent revise the distribution of IP earnings agreement.

### **Annexure 4– Role of Dean R&D**

Dean R&D KLE Tech provides guidance, support and resources to all KLE Tech personnel and facilitates protection and deployment of intellectual property. In achieving this goal, Dean R&D creates awareness about the importance and role of IP Rights, implements the IP policy, ensures transparency and fairness of implementation processes, solicits feedback regarding the fulfillment of the IP policy and periodically reviews the Policy to improve upon any shortcomings, strengthens the infrastructure and resources for protection and exploitation of IP and makes available expert inputs.

Issues of ownership, confidentiality, disclosure, patentability, technology transfer, revenue sharing, and conflict of interest among others play a very important role in any IP management and workshops/meetings are conducted by the KLE Tech to enhance awareness on related issues. Dean R&D also provides templates and guidelines for the contracts, agreements and MOUs governing the effective exploitation of the IP produced by KLE Tech. All such agreements and matters relating to claims, filing, confidentiality, infringements, damages, liabilities and compliance are administered by Dean R&D.

### **Annexure 5– Contracts and Agreements**

All agreements including but not limited to the following categories, for activities undertaken by any KLE Tech personnel need to be approved by KLE Tech.

1. Non-disclosure Agreement
2. License Agreement
3. Technology Transfer Agreement
4. Collaborative MOU with University / Organization

Dean R&D acts as the final signing authority in all categories of agreements listed above. Dean R&D facilitates the process of framing such agreements by way of providing templates and services through professional consultants.

# Annexure -4

Advanced Manufacturing for Aerospace Applications

Curriculum Scheme and Structure

**Minor Program: Advanced Manufacturing for Aerospace Applications 11/06/2018**

**Curriculum Scheme and Structure (2016-20)**

**Offered in collaboration with AEQUS-Aerospace sub system Manufacturers**

**Course Structure for Summer**

Sl no	Course	Course code	LTP	Credits	Contact hours
1	Advanced CNC Manufacturing	M17EASC301	2-0-0	2	24
2	PracticalsCNC	M17EASL301	0-0-3	3	80
3	Tool Engineering	M17EASC302	3-0-0	3	34
4	Aerospace QMS	M17EASC303	2-0-0	2	22
5	Process planning & design of fixtures	M17EASP301	0-0-5	5	160
	Total			15	320

**1.Advanced CNC Manufacturing: M17EASC301**

Details	No of hrs
Basics of CNC lathes and VMC-nomenclature,construction of 2 axes ,Basics of programming –G and M codes Programming using Canned cycles –G70,G71,G74,G75.G76.	2
Simple part programme on turning	2
Examples on CNC lathe programmes using Canned cycles.	2
Basics of VMC-axes nomenclature,construction of 3 axes VMC,basics of programming –G and M codes	2
Explantion of G and Mcodes in VMC	2
Tool nose radius compenstion –G41,G42 &G40	1
Cutter radius compensation G41,G42 &G40	1
Simple part programme on milling	1
Explanation of VMC tool holders,thru tool coolant,	1
Further examples on Milling programmes using software.	8
Use of software to machine pockect milling,Drilling and tapping.	2
Total	24

## 2).Practicals CNC: M17EASL301

Details	No of hrs
Introduction to CNC lathe- hands on training –manuai modes of operation x and z axis,MPG,taking tool offsets and entering in CNC controls,selection of tools,Optional stop,block skip,dwell ,single and continuos opertion,control of speeds and feeds during cutting, Use of constant surface feedsetc Circular interpolation G02 and G03.	16
Ex 1:-Simple facing and turning on CNC lathe	8
Ex2:- Exercise of turning using G02 nd G03-Radius turning	8
Ex3:-Exercise using Canned cycle G70 as nd G71	8
Ex4:-Exercise using Peck drilling(G74) and grooving (G75)	
Introduction to VMC-hands on training on manual operation,programme insertion in controls,taking tool offsets , entering tool length compensation,	16
EX5-exercise on stepmilling	8
Ex6- exercise on pocket milling with drilling at centre.	8
Ex7-Exercise in counter milling with circular i	8
Total	80

## 3).Tool Engineering: M17EASC302

Details	No of hrs
Basic nomenclature for turning inserts and tool holders,types of inserts Different inserts and tools for drilling ,reaming-types of reamers.coated drills with through tool colant.	7
Basic type of milling cutters-face mill,side and face cutters,end milling,slot cutters,spiral flue end mills.Calculation of milling feeds in milling-mm/min and feed per tooth.	7
Different types of tool holders in VMC –ISO,BT, HSK ,CAT.Advantages /disadvantages of different tool holders,Advantages and disadvantages.	4
Different types of tools mounting on tool holders- shrink fit,collets and hydrauliccollets- aplications and accuracies of each.	4
Up milling and down milling – how to identify the same,advantages of down milling.over up milling.	2
Rigid tapping and thread milling operations in VMC.	2
SMED-single minute exchange of dies-Basic defnitions,how ia it used by means of Schunk modules.-Vero s quick change pallet systems.-various types and advantages. –zero point clamping with Pneumatic systems.advantages over conventional clamping on VMCs.	2
Use of Vacuum chuck clamping system for aluminium flat components in aero space manufacturing-demo at AEUS 3-2-1 principle of fixture design	2
Points to be noted when using end mills and milling cutters like entry and exit of cutters,how much length of flute to be used in milling,ratio of depth of cut in radial and axial in end mills,Optimum L/D rato ,type of cycles to be used for pocket milling	4

either circular or straight cuts etc	
Total	34

#### 4)Quality Management systems QMS : M17EASC303

Details	No of hrs
1)Introduction to QMS in Aerospace industries	2
2)What is ISO9001-2015-explnation of clauses ,aplication to industries	2
3) AS9100-RevD as applied to aerospace industries.aerospace industries certification.	2
4)Clauses related to AS9100 –Rev D-explanation	2
5) PDCA cycle –its application and relation to clauses in AS9100	2
6) Counterfeit parts Actions to control the same. terms obsoeselence monitering,tracebility to original manufactuerers .clauses related to samr	2
7)Risk based thinking,stake holders .Interested paries explanation.	2
8)Scope of the clause 7.1.6 Organisaional knowlidge-what steps are taken to retain the same.	2
9) Stated and impied requirements of a customer.Importance to know implied requirements and how to identify and address the same,	2
10) What is bottle neck in a production process?Identification and steps taken to address the same.How this helps in JIT manufacturing.	2
11) Relation between ISO 9001 -2015 and AS9100 REV D.What are the advantages in following QMS particularly with relation to Aerospace industries.	2
Total	22

#### 4)Process control and design of fixtures: QMS : M17EASP301

Details	No of contact hrs
This is a project assignment in process planning and design . Having given an input and output component the students have to carry out the following activities	Contact hrs is 160 hrs,
1) Establish a detailed process on either a VMC or CNC lathe	
2) To draw a step wise operation sheet with input and output drawings at each stage.The input and output drawings at each stage should be fully dimensioned.	
3) At each stage or setup a list of cutting tools to be listed .	
4) To design fixtures at each stage in 3D models to take care of easy dismantling and loading,using principles of design of fixtures,SMED,disposal of chips,weight considerations for loading and unloading of fixturesand to check for interferance with cutting tools.	
5) A detailed report is to be made showing all the details .3Dsoftware is to be used to represent the fixtures along with the component at each stage.	
6) The students in a batch of 2 have to continuously interact with the faculty till it is approved by coordinator	
Total	160 hrs



# ANNUAL REPORT 2017 -18

KLE Technological University



**KLE** Technological  
University

Creating Value  
Leveraging Knowledge



Vidyanagar  
Huballi (India)

[www.kletech.ac.in](http://www.kletech.ac.in)



Our Parent Organization:

### **Karnataka Lingayat Education Society (KLE Society)**

Initiatives by private organizations and dedicated individuals have played a critical role in the growth of higher education in India. In 1916, a dedicated group of individuals enabled a dream. Their vision was to create a strong education base in the neglected areas of North Karnataka and Maharashtra. This resulted in establishment of KLE Society on 13th November 1916 at Belgaum. This Society was started by seven dedicated teachers and three generous patrons. Their mission was to provide education, basically to the children of the farming community who constitute a significant majority in Karnataka. With the strong support by philanthropists and intellectuals of the area, the KLE Society started to grow, and today, it has become an important entity in the educational scenario of the country.

Apart from establishing educational institutions, the KLE Society has earned the distinction in the field of health care and other community services. It has entered into collaboration with universities abroad in USA, UK & Malaysia. Through its 264 institutions, KLE Society is rendering services in the areas of:

- Health Care and Medicine
- Engineering and Technology
- Management Studies
- Agriculture
- Arts, Science and Commerce
- Teachers training
- Primary and secondary education
- Law

With a visionary leadership of Chairman Dr. Prabhakar Kore, and members of Board of Management, the society's institutions serve more than 1,25,000 students. Over 16,000 dedicated faculty and staff work together to meet the high standards set by the management.

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KLE TECH EXECUTIVE TEAM



## Foreword

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We are proud to present the third annual report of KLE Technological University, Hubballi, for the year 2017-18. This report summarizes the achievements and progress we have made over the last year to improve our academic offerings and student services.

Our faculty is making progress towards providing a truly world-class learning environment by adopting holistic curricular reforms and innovative pedagogical practices. We are working hard to create a dynamic research environment to promote research excellence. This year, we embarked on a significant examination reform initiative that has been recognized by the AICTE and asked our team to spread it across the country.

We would like to extend our sincere thanks to our faculty, staff, students, alumni and industry partners for their continued support and remarkable contributions. Looking ahead, we will continue to work towards realizing our vision to be a leader in engineering education, and advancing research and innovation to support socio-economic development of the region.



Dr. Ashok S. Shettar  
Vice Chancellor



Dr. Prabhakar Kore  
Chancellor



Creating Value  
Leveraging Knowledge

## Introduction

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KLE Technological University (KLE Tech) has its roots in one of the premier engineering institution of Karnataka, B. V. Bhoomaraddi College of Engineering and Technology, Hubli (BVB). The founding organization KLE Society, Belgaum, established BVB College in 1947 with an aspiration of creating an institution that would lay the foundation of modern engineering education in northern region of Karnataka. Over the years, it evolved to reach and hold a unique position of pride in the technical education system of India. As we entered into the 21st century, the college undertook comprehensive reform process to adapt to the challenging global engineering education scenario. In pursuit of academic excellence, the College attained academic autonomy from University Grant Commission (UGC) in the year 2007. As an autonomous College, BVB established its distinctive character in the academic space through its curriculum and outstanding student experience. Over the time it gained tremendous credibility with the industries and employers and emerged as a brand to reckon with. The Alumni of the Institute have done exceedingly well in all spheres of life at both national and international levels and brought name and fame for themselves as well as to their Alma Mater.

The times have changed, and the higher educational institutions need to continually innovate to maintain and enhance their relevance to meet the ever changing demands of global economies. Apart from delivering good quality education, the institutions are expected to develop their capacity in research and innovation. They also need to undergo a fundamental transformation in terms of their role in the society, mode of operation, and economic structure and the scale at which they operate.

Keeping the above challenges in mind BVB College of Engineering and Technology, undertook strategic initiative of transforming itself into a University of national distinction. In 2014 the College was recognized as a state private University by Government of Karnataka. The rich heritage of BVB College as one of the best Engineering College combined with brand equity of KLE Society are the starting points for KLE Technological University to emerge as a University with a national distinction.

# Student Enrollment

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## Admission Process

The University does not conduct a separate test for the admissions. The admission to the programs of University is based on the Government of Karnataka rules for professional education institutions. The following is the mode of selection of students for admissions (as per rules of Government of Karnataka).



1. Common Entrance Test (CET) by Karnataka examination Authority (KEA): Admission to 40 % of seats are done by government of Karnataka based on CET ranking and reservation policies of the state. The seats are distributed through central counseling done by KEA. For the aided intake the 95% of the seats are allotted by the KEA. Equal weightage is given to score in CET entrance test and qualifying examination score, while allotting the ranks.
2. All India Examination conducted by the Consortium of Medical, Engineering & Dental Colleges of Karnataka (COMED-K): Admissions to 30 % of seats in unaided courses are done on the basis of COMED-K-rankings. The seats are allotted by COMED-K through central counseling. Equal weightage is given to score in COMED-K entrance test and qualifying examination score, while allotting the ranks.
3. The remaining 5% seats in aided courses and 25% seats in unaided courses are filled as management seats on the basis of academic records of qualifying examinations.

For post graduate programs, Post Graduate Common Entrance Test (PGCET) conducted by Karnataka examination authority, is used for the selection of students.

## Undergraduate Programs

Sl.No.	Programme	Sanctioned Intake
1	Civil Engineering	<b>120</b>
2	Mechanical Engineering	<b>240</b>
3	Electrical & Electronics	<b>120</b>
4	Electronics & Communication	<b>240</b>
5	Computer Science & Engineering	<b>240</b>
6	Automation & Robotics	<b>60</b>
7	Bio Technology	<b>60</b>
8	Architecture	<b>60</b>
		<b>1140</b>

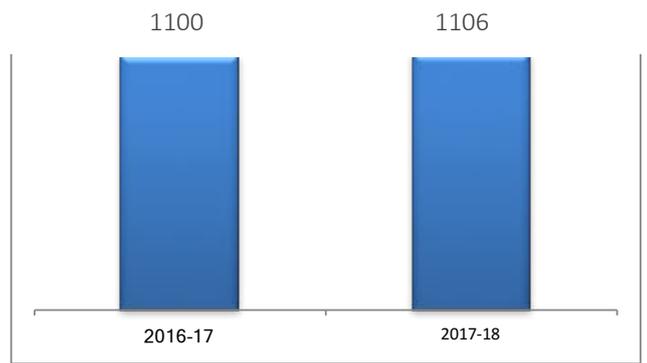
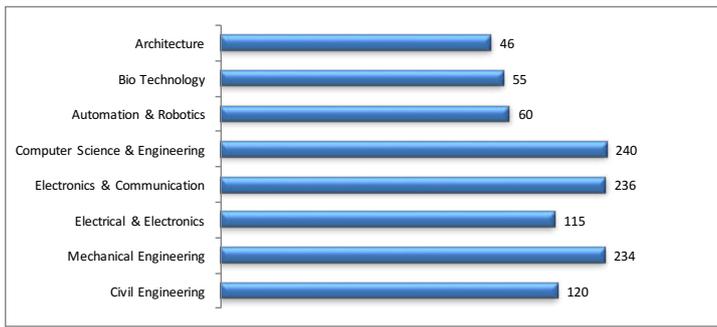
## Postgraduate Programs

Sl.No.	Programme	Sanctioned Intake
1	Structural Engg.	<b>18</b>
2	Production management	<b>18</b>
3	Energy Systems Engg.	<b>18</b>
4	Computer Science & Engg.	<b>24</b>
5	Digital Electronics	<b>24</b>
6	VLSI Design & Testing	<b>24</b>
7	Machine Design	<b>24</b>
8	Master of Computer Application	<b>60</b>
9	Master of Business Administration	<b>60</b>
		<b>270</b>

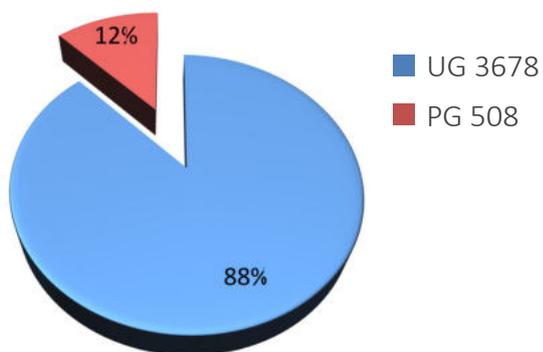
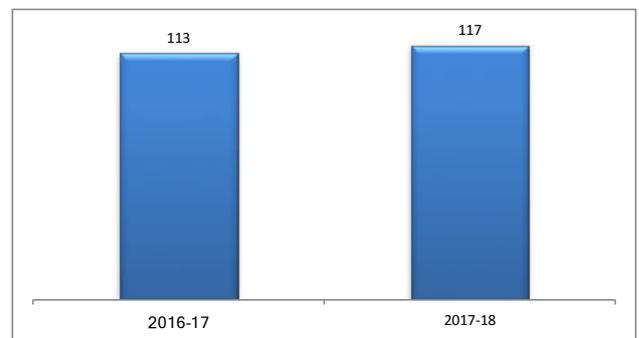
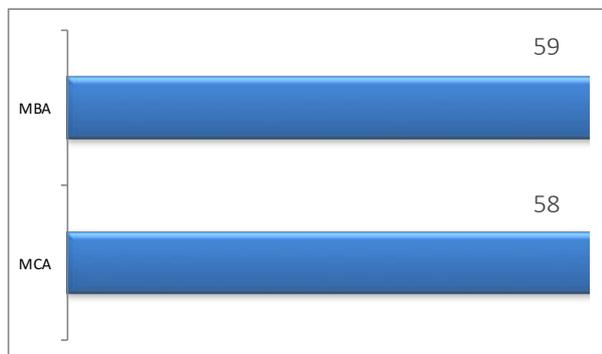
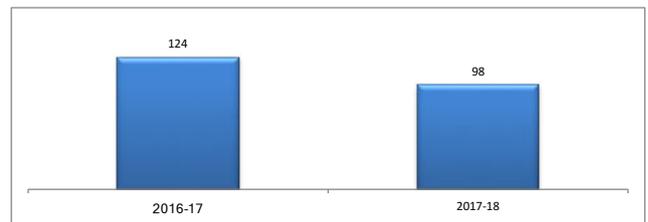
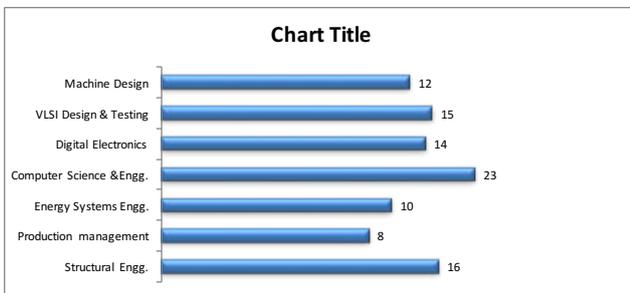
## Research Programs

Sl.No.	Programme
1	School of Civil and Environmental Engineering
2	School of Computer Science & Engineering
3	School of Electronics and Communication Engineering
4	School of Mechanical Engineering
5	School of Management Studies and Research
6	Department of Electrical and Electronics Engineering
7	Department of Humanities & Social Science
8	Department of Biotechnology
9	Department of Physics
10	Department of Chemistry
11	Department of Mathematics
12	Center for Engineering Education Research

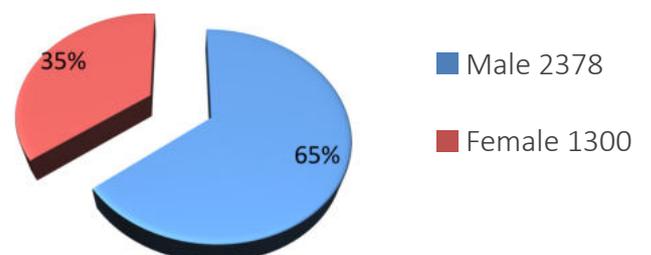
## Student admissions for the year 2017-18- UG



## Student admissions for the year 2017-18- PG



Student Enrollment 2017-18



Student Gender (UG) 2017-18



## Academic Quality

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Engineering education is going through a profound transformation driven by the new realities and opportunities created by the global knowledge society. To ensure the fitness of higher education system to negotiate new challenges, adaptation of proper academic frameworks and strategic interventions are necessary. Outcome Based Education (OBE) framework has emerged as a major reform model in the global engineering education scenario and has been mandated for accreditation of engineering programs for the Washington accord signatories. The OBE approach is based on a student centered learning philosophy

and focuses on the output (outcomes) instead of the input (content). KLE Tech reform process by adopting OBE framework. The framework gives us an opportunity to build a culture of continuous improvement that strengthens our academic quality and inspires student achievement.

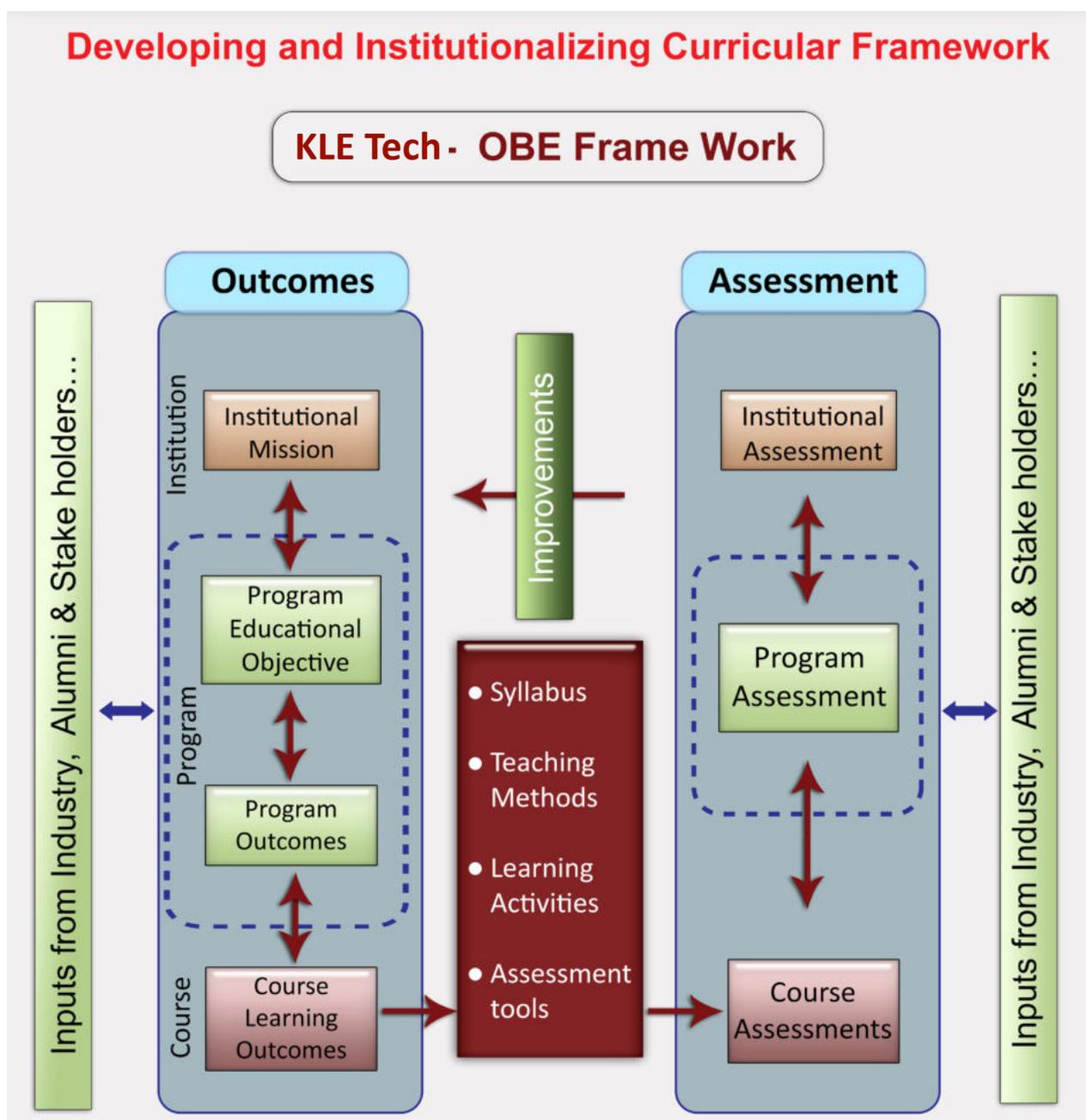
The initiatives undertaken to enhance the quality of education and student performance are presented under following three tenets of academic quality

- Advances in Curriculum
- Faculty Development
- Student achievements

## Advances in Curriculum

The curriculum of all the programs offered by KLE Tech are designed understanding the expectations of the stakeholders. Outcome Based Education (OBE) framework is used to design the curriculum. Each program has formulated Program Outcomes (POs) in line with Graduate attributes of NBA. These POs describe what students are expected to know and be able to do by the time of their graduation. These POs relate to the knowledge, skills, and behaviours that students acquire as they progress through the program. The courses designed for the programs are aligned to the expectations of POs.

Learning experiences in each of the programs are created focusing the millennial learner. Problem solving skills, research and entrepreneurship are embedded in the curriculum through a host of program core, program elective and open elective courses. Active, blended, collaborative, experiential and project based learning (PBL) practices are used bringing student to the centre of teaching – learning process. Assessment and evaluations are done aligning to learning outcomes to inform both the learner and the system. The frame work adopted by the University is depicted in the Figure below.



# Major Academic initiatives Undertaken:

During the academic year 2017-18 following are the major academic initiatives undertaken to improve the teaching and learning process.

## School of Computer Science and Engineering

### Algorithmic Problem Solving

A six credit competitive programming course was introduced at sixth semester level to hone the programming skills and go beyond the traditional thinking. While most companies have now started hiring through online coding platforms, many most others are moving towards it. Excelling in competitive programming, making programming as a daily habit, approaching the expertise by solving challenging problems, and working in constrained environment were the major objectives with which the course was introduced.

The course was conducted on HackerRank platform including the minors and semester end exam. The course had lecture sessions, discussion and coding in each of the three hours classes which was scheduled twice a week. University CodeSprint 04 was evaluated as minor 01 for students. A total of 5415 participants participated all over the world. 86% of our students were in top 25% in the contest. The class had bagged two silver and 31 bronze medals. World Code Sprint 13, a 2 day coding contest, hosted on HackerRank was semester end examination for the course. A total of 4126 participants participated in the contest. 100% of our students were in top 25% in the contest who secured bronze medals.

Infosys conducted HackWithInfy, a nationwide competitive programming contest where 7 of our students have been offered with various Programmer roles. 3 out of 7 have been offered with 8L offer and 5 out of 7 students are from APS course.

### Blueprint Pedagogy for Mini Project + Software Engineering

The primary objective of software engineering is to demonstrate competence in communication, planning, analysis, design, construction and deployment of a product life cycle. Theories, models and techniques are the foundational basis in a software lifecycle.

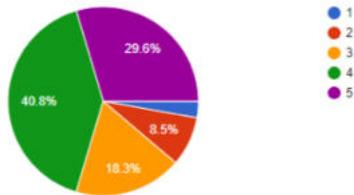
When a product goes into design and implementation, it comes with challenges namely: how well are the requirements understood, are the designs and conceptualizations in-line with requirements and how easily a future requirement can be embedded into the system. Over time, these challenges have been tackled through various methodologies. We introduced – 'Blueprint' pedagogy, which adapts the design thinking methodology to achieve the said challenges.



Through Blueprint Method, the initial brainstorming of design, functionality, flow, process and user interface of the selected problem happens on A4 paper sheets- all hand drawn (using pencil, eraser, ruler). The hand drawn designs are re-iterated until a satisfactory model is reached. The final model is then transferred into documentation using Software Engineering principles and tools. The first hand made draft and the subsequent process of reading through and interacting with the design by annotating, correcting, editing, and reshaping it as a whole is a major advantage as against typing where instead we edit as we go which potentially interferes with the organic flow of ideas. Hand drawing can help us slow down and fully engage with our thoughts. Thoughts need to breathe and drawing by hand conveniently holds such a space for thoughts to fully form before being set down into a holistic form.

### Overall effectiveness of the method

71 responses

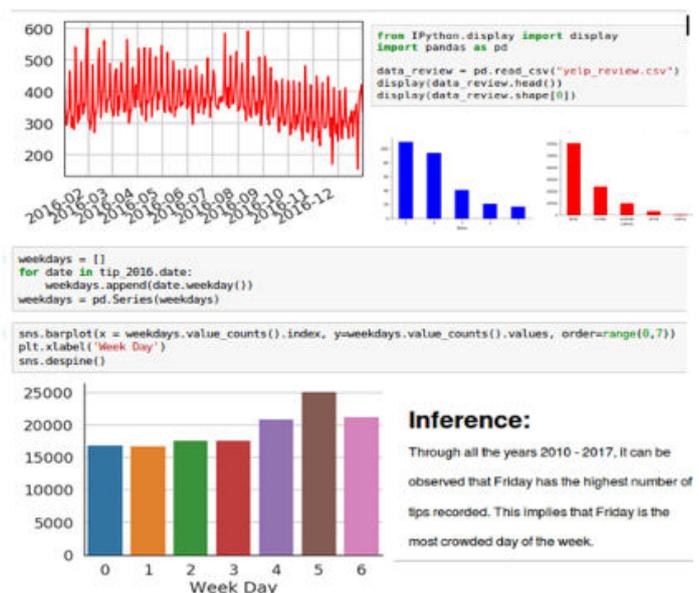


A faculty workshop was conducted to train on 'Blueprint' so that they can carry over the method for the guiding student teams. The team from Accenture visited the studio mode labs and appreciated the design thinking process introduced into the project lab. They as well carried back a copy of Blueprint handouts provided to students. Akamai and other companies, which came to hire have appreciated the student's comprehension capabilities over the projects carried out.

The overall effectiveness as stated in student feedback of the method can be seen beside. Students rated between 1 to 5 where 1 being the lowest and 5 being the highest.

## Machine Learning

In order to meet the industry demands of data exploration, data mining and analysis and data visualization, Data Mining and Analysis course was introduced with real time data analysis challenges where students had to pick online challenges for course project. A sample project analysis can be seen in the picture. Considering this, Machine learning course was designed to further enhance the projects with supervised, unsupervised and reinforcement learning. Laboratory was designed to train and use the Machine Learning tools and techniques where students apply the concepts of regression, classification and reinforcement learning for the real world example. The course knowledge was further extended to project level. The mini projects that were carried out were on the domains : Indian digital heritage projects (government funded), blind spot detection, plagiarism detection, pot hole detection. The minor project student teams were able to create a crowd source platform and run classification algorithm to store and retrieve heritage images, to name some. The projects carried out led to publications as well. Sample other projects carried out are: Plagiarism Check using Robin Karp algorithm and SVM, Developing an model to predict and classify the heritage images with appropriate labels ( Multi class), Road Fighter games using Reinforcement & Q Learning, Image prediction using CNN etc.



# School of Electronics and Communication Engineering

## **Automotive Electronics Initiatives**

School of ECE offers automotive electronics as one of the application course to strengthen Embedded Systems vertical. It has a vibrant collaboration with industry giants namely RBEI (BOSCH), and KPIT for course design and delivery. In automotive electronics the evolving technology now-a-days is focused on Model Based Design (MBD) with its application ranging from control prototyping to a system modeling, simulation, and synthesis paradigms. MBD simulation is part of “V” design model which is used for developing functionalities of automotive ECUs. This industry specific technology is introduced at third year of engineering. The theory and laboratory components of the course are designed in such a way that the functionalities of an automotive application are built using model based design approach. The course includes a platform for state-of-the art engine-in-the-loop (EIL) simulation facility for system-level experimental evaluation of power-train interactions. The outcomes of the activity are measured by industry specific rapid prototyping skills demonstrated by the students. MBD technique incorporated in automotive electronics course has contributed in making students industry ready. This has led to increase in placements by the companies in the field of automotive electronics in Bosch, KPIT, Continental and Delphi, this has also enabled RBEI to award the college with highest number of placements across India in 2018-19. Students actively participate and win prizes at the national level competitions like KPIT Sparkle and Bosch Inscribe, which foster innovation in them.

## **Embedded Systems Initiatives**

Embedded Systems is one of the major vertical in Electronics and Communication Engineering supported by relevant courses and projects at multiple levels. Students are well exposed in the embedded system verticals with industry supported labs, courses as well as industry guided projects for designing real time embedded systems. As embedded systems became bigger, intelligent and complex, millions of lines of code are to be optimized to meet system deadlines, fit into the available memory, and meet power requirements to achieve the desired functionality. Developing such embedded system, to meet multiple design constraints is a considerable challenge. In order to meet this challenge code optimization techniques at multiple levels are introduced in curriculum focusing on machine dependent and independent optimizations. Architecture specific machine dependent optimization techniques are addressed at lower level courses like 8051 Microcontrollers and ARM processors, while machine dependent and independent optimization techniques are addressed at higher level courses like Real Time Embedded System and Course Projects. This exposure enables our students to be prepared for industry requirements and challenges, and has resulted in increased placements in embedded industries.

## **VLSI Initiatives @ KLE Technological University**

To meet the contemporary demands of semiconductor industry, KLE Technological University (KLE Tech) has undertaken an initiative to create specialised talent pool in the areas of digital and analog VLSI. The focus of the initiative is to reform the curriculum and learning experience to enable the graduates to be industry ready.

Collaborating with experienced personnel from VLSI industry and IESA, reorientation of curriculum from foundational courses to advanced courses has been undertaken. Special emphasis is on project based learning wherein students gain proficiency in industry- standard state-of-art VLSI EDA tools while solving problems relevant to the industry.

These initiatives are driven by joint group of experienced faculty, under the mentorship of industry experts

- Dr. Anand Bariya, Sr. Director at Broadcom, Ex Managing Director at NetLogic Microsystems
- Shri Shripad Annigeri, Ex- director Mega chips, Consultant in VLSI Industry.
- Mrs. Poornima Mohanachandran, Director Eklakshya.

Program Electives in VLSI stream handled in collaboration with industry

- Analog Circuit design and Layout
- Analog and Mixed Mode Circuits

**Collaboration with Sankalp Semiconductors**

- Advanced Digital Logic Design
- Advanced Digital Logic Verification

**Collaboration with SEER and IESA**

- CMOS ASIC design

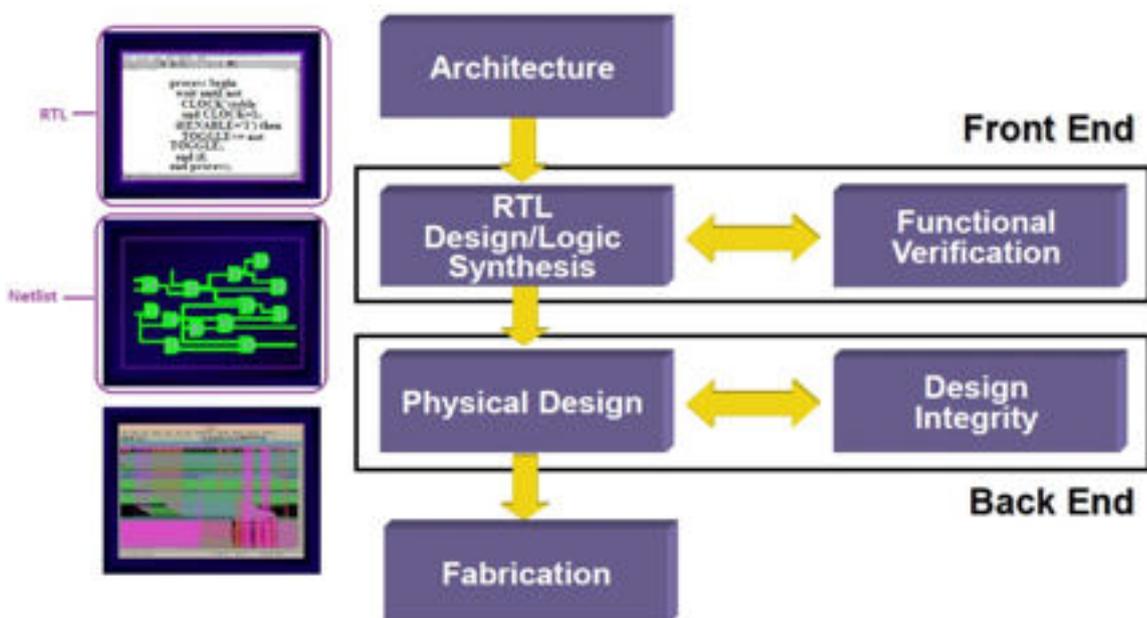
**Co-teaching by Dr. Anand Bariya and in-house faculty**

- Physical Design- Analog

**Co-teaching by Eklakshya and in-house faculty**

**Chip Initiatives @ KLE Technological University**

To get an industry like experience of complete chip creation, from concept to post silicon testing, selected students undergo close to two years of professional exercise., As part of this initiative, a Tri partner agreement between KLE Tech., IESA and SEER, University has enabled design a program to create a, mixed signal IC- Elapsed Time Counter in UMC 0.18µm technology, under the guidance of faculty and industry experts.



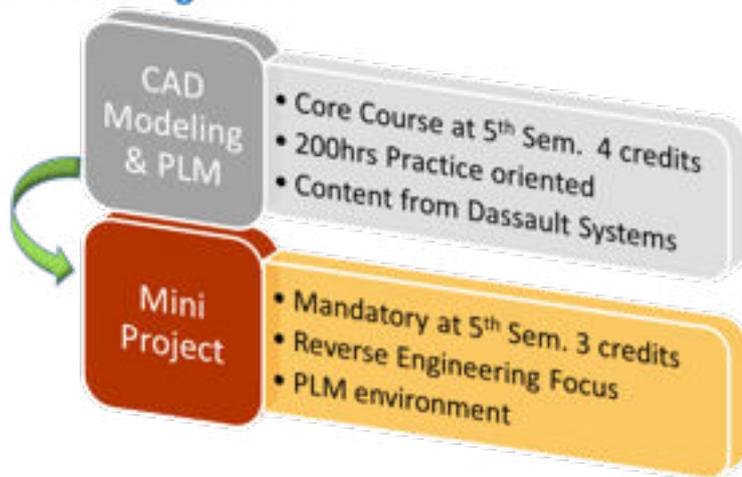
# School of Mechanical Engineering

The School of Mechanical Engineering has recognized changing trends and ventured into number of new initiatives to overcome the gaps that exist in the curriculum. The pedagogical initiatives relate to new courses developed by School of Mechanical Engineering in collaboration with leading industries to impart employment linked specialized knowledge and skills through design thinking led innovative curriculum interventions for assured campus recruitments.

A glimpse of the course designed to be part of the curriculum is indicated below.

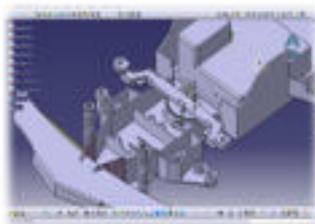
## Project based Experiential Learning

### CAD Modelling & PLM

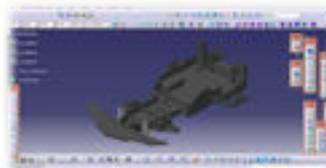


### CAD Modelling & PLM

#### Reverse Engineered Products



Steering parts assembly

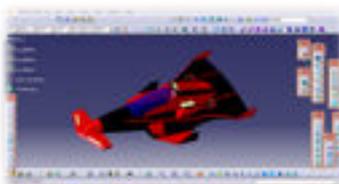


Chassis part body

#### Model building in collaborative Environment



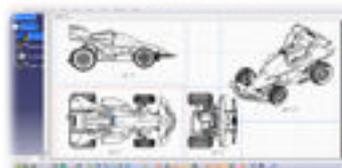
Chassis Assembly



Outer aerodynamic body frame



F1 RACING CAR



Assembly Drafting



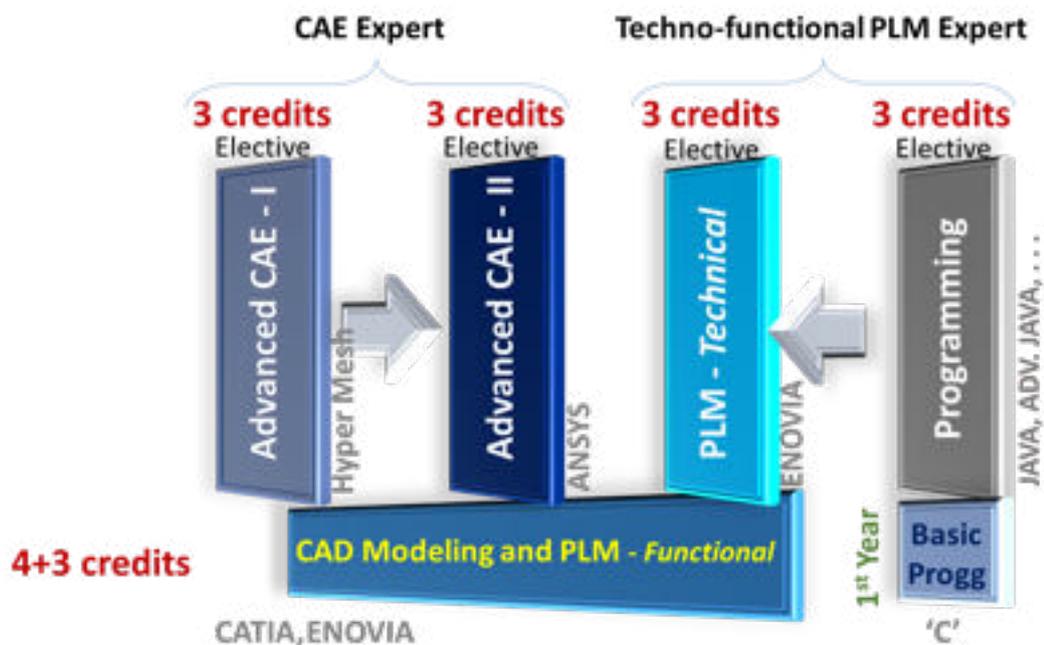
CAD model

The students who have undergone the course have expressed their appreciation for unique experience they gained during problem solving in a collaborative environment. About 80% of the students expressed that the course significantly improved modelling and analysis skills in an integrated environment.

## Engineering Services – Niche Verticals

The Engineering Services is one such sectors with promising employability index to competent engineering graduates. The courses are developed in niche areas of this sector in modelling, analysis & simulation for product innovation. The focus was to develop a single, easy-to-use, 3D-design, analysis and simulation environment with features of being collaborative and interactive interface to develop industry solutions. Product lifecycle management (PLM) poised to become a major functional discipline fosters integration and promotes efficiency in future factories that would work on increasingly complex and customized products. These attributes of PLM made it an obvious choice for our student needs that lead to adopt a PLM-centric approach platform for our curriculum innovation.

## Engineering Services – Niche Verticals



### Course: **Advanced CAE**

160 hours of extensive hands-on training Associated Project work on Industry Cases

Tools: HyperMesh and ANSYS

**Specialist in Complex Problem Analysis & Solving using FEA concepts**



### Course: **PLM - Technical**

160 hours of extensive hands-on training Associated Project work on Industry Cases

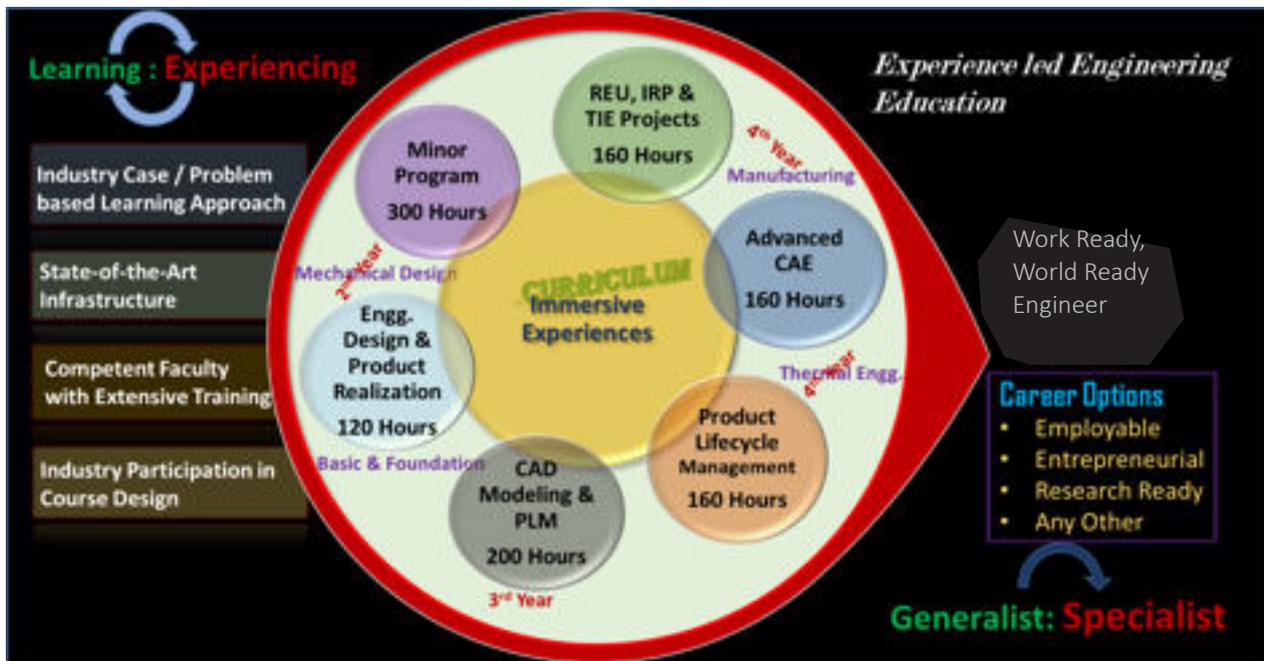
Tools: ENOVIA

**Specialist in PLM - Customization, Configuration and Integration**



## Learning to Experiencing Engineering

The courses in niche areas are developed to provide immersive learning experience to students and augment them with the skill sets that are in demand in industry. The University has invested judiciously on infrastructure development, faculty training and engagement of industry experts in structuring the courses, pedagogy and assessment.



## Minor Program in ‘Advanced Manufacturing for Aerospace Applications’

15 credits, 5 courses + Final semester project in an Aerospace Sub systems’ Manufacturing Company

India’s fast growing civil aviation sector offers tremendous growth prospects for the aerospace industry in the country. While the Indian automobile industry and the space industry have done quite well, aviation-based manufacturing has lagged woefully behind. Seeing an opportunity here, the School of Mechanical Engineering has collaborated with AEQUUS – a leading Indian aerospace sub systems’ manufacturing company, located in SEZ, Belgaum to strengthen specialized skills through a Minor program in ‘Advanced Manufacturing for Aerospace Applications’.

**Minor Program:**  
**Advanced Manufacturing for Aerospace Applications**

*Offered in Collaboration with AEQUUS – Aerospace Sub-system Manufacturers*

NEW, June 2018



DMG MORI make, CMX 600V Vertical Machining Centre With 3D-control HEIDENHAIN TNC 620 with ASCII keyboard (15" TFT) Control System.

Students spend about 1/3rd of their course duration on AEQUUS campus to acquire real-time exposure to advanced processes, tooling and standards. Experts from AEQUUS engage students through course offerings along with faculty members from the School. A 3-axis CNC VMC by DMG-MORI, Japan is procured to help students practice gaining experience in an industry like environment. AEQUUS has also offered internship and project work during eighth semester for the students who have successfully completed the minor program. This initiative is expected to enhance the employability of our students in the field.



## aeroKLE – Aero Modelling Club

Our team of 18 students drawn from first year to final year representing different disciplines participated in national level SAE India Aero Design Challenge 2018 competition. The debut team positioned 8th in the overall ranking tally in the country, is highly motivated to excel its performance in coming years.



**SAEINDIA  
AERO DESIGN CHALLENGE 2018**



**Best Technical Presentation –  
All India 2<sup>nd</sup> Rank**

## Department of Electrical & Electronics Engineering

Curriculum structure of Department of Electrical and Electronics Engineering is designed to have three specializations which are relevant to current industry requirements and to maximize student placement opportunities. They are: 1. Embedded Systems, 2. Power Electronics & Drives, and 3. Modern Power and Energy Systems.

Flipped classroom describes a reversal of traditional teaching where students gain first exposure to concepts outside the classroom through lecture videos. Conventional lecture hours are used for discussion & problem solving of concepts learnt through videos. It promotes student centred learning and collaboration. This concept is being used to teach two courses in the department.

‘Engineering Design’ course is being offered to Mechanical and Electrical domain students at the sophomore level has been restructured to offer product development experience in an inter-disciplinary environment. It give students a flavour of the design process to solve ill-structured real-time problems. Since its inception, the class is evolved over the years to become an interdisciplinary course in 2017-2018. PCB design software like ORCAD, Eagle and Proteus are introduced to students to build reliable electronic designs. Also, students are trained to perform co-simulation using software like LabVIEW and SolidWorks across the departments. Further, product realization course is delivered in the fourth semester to complement the learnings of the design process in the third semester.

A good algorithm usually comes together with a set of good structure that allow the algorithm to manipulate the data efficiently. Data Structure using ‘C’ is introduced to sophomore students. This course will help students to understand what is going on inside a particular built-in implementation of a data structure. Students learn these data structures with hands on experience implementing them and applying for real world problems.

To cope with industry requirements Machine learning, being one of the areas of Artificial Intelligence, is introduced as a part of curriculum for the 3rd year students. Machine Learning is the basis for the most exciting careers in Data Analytics today. Students learn the rudimentary concepts and apply them to typical real world problems using Python Stack.

The explosive growth of Internet of Things (IoT) is changing our world. A course on Internet of Things covers basic concepts of networking for building the base of IoT and some aspects of embedded systems, Raspberry Pi platform, and the Arduino environment for building devices that can control physical world. Students demonstrate these learned skills by designing and building an embedded product in the course project.

Learning from textbooks, lectures and other study material does not suffice for holistic learning. Practical, hands-on learning are essential for better understanding of work processes and business functions. Industrial visits give greater clarity about important engineering concepts, as students practically experience how these concepts are put into action. In view of this background various industry visits were organized by the department for students of all semesters like Nuclear Power Plant Kaiga, Hydro Power Plant Dandeli, 220 kV Sharavati Receiving Station, Hubli, Diesel Loco Shed Hubli, Kirloskar Electric Company, Hubli and Solar Photovoltaic Power Plant at Chikkodi, Belgaum District.

## Placement



Placements were good for the year 2017-18. Core companies recruited large numbers.

Robert Bosch recruited 69, which was among highest in India. College was given special award by Robert Bosch for the same during Placement Officers Meet.

Further, other core companies also recruited big include -- Mercedes Benz R&D India 19, Toshiba 10, Continental 18, KPIT 52, Juniper Networks 7, BEL 8.

Among Software Services companies, Accenture recruited 267 and Infosys 150, which are considered good number in current scenario.

New companies visited include-- Tata Hitachi, SLK Software, Ducom, DiFACTO A&R

Total number of offers is 800+.

**Highest salary package offered is 14 LPA**

**Average Package offered is around 4.5 LPA**

## Research and Innovation

To meet its growth aspirations, one of the challenges faced by the University is to transform itself from a good teaching institute to an excellent teaching and research institute. It is important that we need to further the research and developmental activities for the following:

- To sustain academic and professional reputation in knowledge-based economy
- To attract and retain high quality faculty and students
- To maintain cutting-edge curriculum and create stimulating learning environment
- To improve undergraduate teaching, because a researcher; (i) is a better thinker and problem solver, (ii) can promote active teaching & (iii) can create enthusiasm
- To align academic activities with economic development of the region.

### Research centers

KLE TECH has 12 research centers with 79 doctoral faculty guiding 87 registered doctoral students at KLE Tech and 70 faculty registered in other universities. The following table presents details about the research centers.

**Table 1: Details of registered and awarded candidates at 12 research centers**

Sl. No.	Name of School/Department/Center	No. of Name of Eligible Supervisors	No. of PhD's registered at KLE Tech	No. of PhD's registered at other universities
1	Civil and Environmental Engineering	9	7	0
2	Computer Science & Engineering	12	24	16
3	Electronics & Communication Engg	9	2	18
4	Mechanical Engineering	20	18	12
5	Biotechnology	5	8	01
6	Electrical & Electronics Engg.	2	5	01
7	Management Studies and Research	3	2	05
8	Humanities and Social Sciences	1	3	0
9	Engineering Education and Research	3	2	0
10	Chemistry	4	6	1
11	Mathematics	9	4	7
12	Physics	2	6	9
	<b>Total</b>	<b>79</b>	<b>87</b>	<b>70</b>

## Summary of publications

The following table summarizes the number of publications of research work in refereed conferences and journals at national and international level.

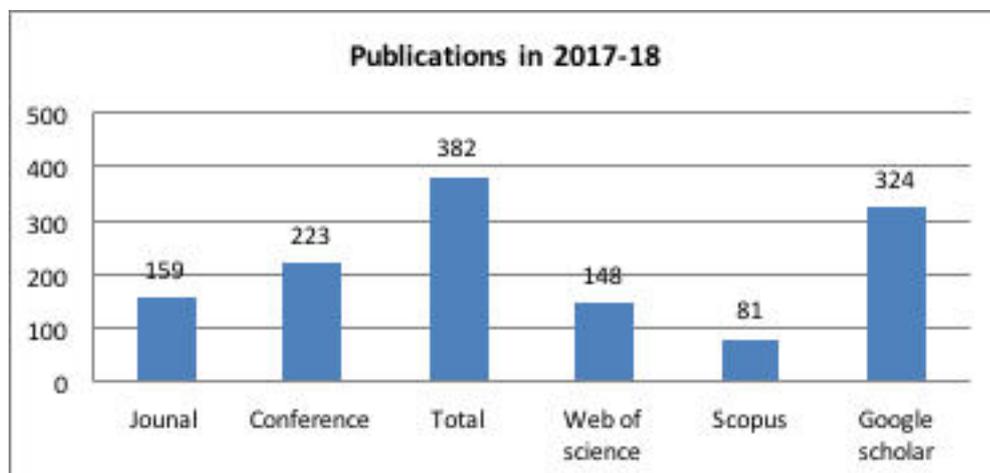
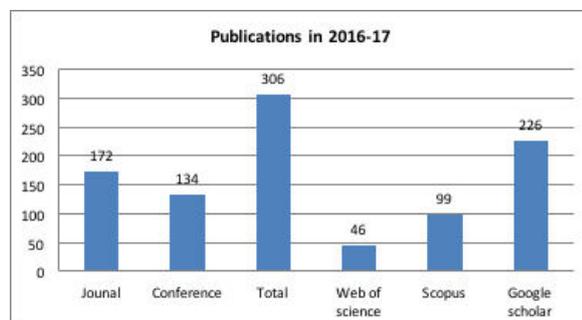
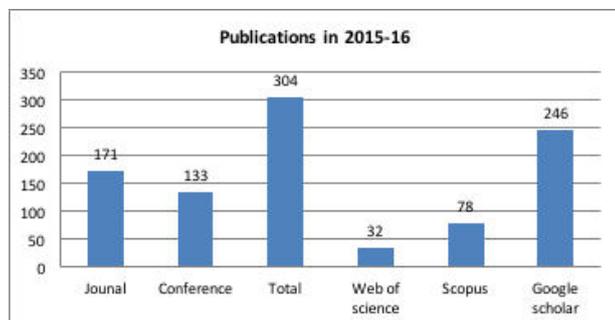
**Table 2: Summary of papers published during 2015-16, 2016-17, 2017-18**

Indexed in: W- Web-of science S- Scopus G- Google scholar

Details	2015-2016				2016-17				2017-18			
	Journal		Conference		Journal		Conference		Journal		Conference	
	IJ	NJ	IC	NC	IJ	NJ	IC	NC	IJ	NJ	IC	NC
# of Publications	154	17	123	10	154	18	126	8	151	8	222	11
	171		133		172		134		159		233	
W	32				46				148			
S	78				99				81			
G	246				226				324			

Indexed in W—Web of science, S-Scopus, G-Google scholar

### Graphs



## Summary of Patents

### Summary of patents 2014 to 2017

Total Number of Patents filed	: 13
Total number of patents approved	: 09
Total number of provisional patents	: 04

### Summary of patents in 2018

Total Number of Patents filed	: 01
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## Summary of External funded projects

### Research grants received: 2013-2018

Sl. No.	Year	Number of projects	Amount sanctioned	Funding Agency
1	2012-2013	02	34.56	VGST, DST
2	2013-2014	08	58.6	AICTE, NRB, VTU
3	2014-2015	01	4.0	VGST
4	2015-2016	03	32.55	DST, USAD
5	2016-2017	07	278.51	UASD, DST, DRDO, Continental, BBC (K-BITS), BTFS
6	2017-2018	04	60.5	GoK-USAD, SRIB, VGST
	<b>TOTAL</b>	<b>24</b>	<b>468.72</b>	

## External funded projects

### Summary of External Funding

Consolidated list of projects from 2013 to 2017				
Name of School/Dept.	2013 to 2017		2017-18	
	# of projects	Amount in Lakhs	# of projects	Amount in Lakhs
Civil	01	20.00	0	0
CSE	02	32.50	0	0
ECE	10	81.66	02	15.26
MECH	07	112.80	02	4.00
BT	01	162.50	02	40.00
<b>Total</b>	<b>21</b>	<b>409.46</b>	<b>04</b>	<b>59.26</b>

## Research Experience for Undergraduates (REU)

Undergraduate research opportunities help the student to experience and learn how to identify and define the problems and solve them, how to find and evaluate evidence, how to consider and assess competing interpretations, how to form and test their own analysis and interpretations and how to communicate their ideas and findings. These learnings enable them to take part in the research missions in their future career inside or outside academia.

Probably our college is the first institution in India to introduce 'Research Experience for Undergraduate (REU)s' in the curriculum as an optional course. The response from the students and faculty mentors has been overwhelmingly positive. The students and faculty mentors have devoted considerable time and effort to make the experience worthwhile and fruitful.

Summary of outcome of the REU course is reflected in the following table. In the first year, 19 REU students have published 25 papers in international conferences and journals, and 8 of them have either completed or doing post graduation. About 25% of the total REU students from 2011-14 are doing post graduation either in India or abroad

<b>Year</b>	<b># REU students</b>	<b># REU Supervisors</b>	<b># of Publications from REU</b>	<b># REU students pursuing PG</b>
2011-12 (completed)	18	22	25	8
2012-13 (completed)	31	40	20	8
2013-14 (Completed)	30	44	23	5
2014-15 (Completed)	46	48	26	4
2015-16 (Completed)	67	54	31	6
2016-17 (Completed)	68	60	20	4
2017-18 (Completed)	73	68	68	2

# Research Promotion Schemes

## University -Research promotion Schemes

To promote research in emerging and high impact areas, the institute has undertaken initiative to identify and nurture research clusters/research groups (RC/RGs) and fund for Product Design and Development Grant (PDDG) and faculty student start-up grant (FSSG) initiatives.

- **Research Cluster (RC):** Research Cluster is theme centered, e.g. energy, material science, ESDM etc. These centers synergize the efforts and expertise of faculty across the departments and create a platform towards building higher levels of inter-disciplinary research/development/technology-translation/productivity. The aim is to get recognition and visibility in a chosen theme
- **Research Group (RG):** This is similar to RC, however collaborating faculty can be from the same department or across departments. Research group leads to initiation of research clusters in the collaborating area over a period of time
- **Product Design and Development Grant (PDDG):** This grant is given to a faculty or group of faculty who involve in product innovation, design and development activity of the institute and supports start-ups and industry. These faculty groups bring together the skill set and expertise of multidisciplinary group of researchers from schools, departments, RCs/RGs and industry towards technology translation, design and development activity of a product.
- **Faculty Student Startup Grant (FSSG):** This grant is given to a faculty or group of faculties who involve with the startup and students towards a product development and deployment.
- **Institute Research Projects (IRP):** IRP internships are allowed in the following cases:
  - o IRP-1: Institutional research projects approved by the university R&D center.
  - o IRP-2: The research projects which have received external funding.
- **Two new RGs are identified in 2018-19**
  - High Performance Computing (HPC)
  - Smart system for early detection of plant diseases
- **Two Faculty Student Startup Groups (FSSG) are identified in 2018-19**
  - Semantics & mathematical modelling
  - Product design and development for agriculture

- **Identified Institute Research Projects (IRP) 2018-19**

- IRP-1 groups
  - A. Autonomous Electrical Vehicle
  - B. Water management
  - C. India Chip
  - D. Security and Surveillance.
  - E. Humanoid
- IRP-2 groups
  - A. India Digital Heritage

- **From 2017-18, 5% of Revenue Income of University is allotted for promoting Research and Development and table provides details of utilized and planned funding for the year 2017-18 and 2018-19.**

### Budget Utilized in 2017-18

SL No.	Head planned	2017-18		
		Budgeted amount in L	Sanctioned amount in L	Utilized amount in L
1	Research clusters and groups	150.00L	152.64	128.73
2	Capacity building	50.00L	27.92	22.85
3	Others	50.00L	50.00L	10.49
	Conferences to conduct: 10.00			
	Conference to attend. : 15.00			5.30
	Training (FDPs) : 10.00			0.44
	Patenting : 10.00			0.45
	Incentives : 5.00			4.30
	<b>Total</b>	<b>250.00L</b>		<b>162.07</b>

## Institute funded projects under RC/RG/PDDG

Sl.No	Name	Title of the research group/ cluster/PDDG faculty group	Sanctioned 2017-18	Utilised 2017-18
1	Dr. Nalini C Iyer	RG: Center for Automotive research	10.00	12.00
2	Dr. Uday Muddapur	RG: Bioresource Development	06.00	3.50
3	Dr. Ravi Guttal	PDDG faculty group: Platform for Product Innovation, Design and Development	32.00	16.78
4	Dr. Meena S M	RG: Intelligent Systems (IntS)	20.00	11.8
5	Dr. Saroja V. S	RC: ESDM	32.00	24.35
6	Dr. N.R.Banapurmath	RC: Material Science Cluster	40.00	47.32
7	Dr. S S Quadri	RG: Advanced Pavement Research Lab	12.64	12.98
<b>New RC/RG/PDDG Projects 2018-19</b>				
8	Dr. Satyadhyan C	High Performance Computing,		120.00
9	Mr. Prakash B Hegade	Semantics & mathematical modelling		0.50
10	Dr. P R Patil	Smart system for early detection of plant diseases.		2.35
11	Mr. Aditya Deshpande	Product design and development for agriculture		2.10
		<b>Total</b>	<b>152.64</b>	<b>128.73</b>

## Institute funded capacity building projects for Individual faculty

Year	Total projects	Total amount in Lakhs
2011-12	17	9.9
2012-13	14	12.44
2013-14	14	11.6
2014-15	22	14.07
2015-16	15	13.25
2017-18	25	27.92

## Incentives given to faculty for good publications, funded research and guiding doctoral students

SL No	Year	Total projects	Total amount
1	2015-16	3	19,000/-
2	2016-17	10	2,33,320/-
3	2017-18	31	4,30,000/-
<b>Total</b>			<b>6,82,320/-</b>

## Collaboration with Industry for Research: Collaboration with SAMSUNG Research India Bangalore (SRI-B)

- SRI-B senior team Dr. Balaji Holur, Senior VP and Dr. Lokesh Boregowda, Director are member of our Academic council.
- Large scale changes in the courses: (i) Introduction of new core course 'Machine Learning' for CSE and ECE students
- Workshops for 1-2 days on advanced topics
- Research projects for students and faculty
- Project collaboration through NDA and university MOU in common areas of interest
- One collaborative project on 3D reconstruction is completed
- 12 Faculty are trained for a week on embedded intelligence computing
- 2 Faculty registered for PhD are selected by Samsung for 9 months internship to carryout their research work
- 8 hours CODETHON in collaboration with COSDCHEFF and SAMSUNG on 29th Sept 2018: Unique initiative by Samsung, first of its kind being held in north Karnataka and targeting north Karnataka talent.
- 14 research problems are taken up by 11 faculty and 40 students in the area of embedded intelligence computing
- Uma Mudenagudi is invited to present outcomes of collaborative project at India Research Network (IRN) 2018 meeting being held at Samsung R&D Institute India-Bangalore (SRI-B) on 6,7 Sept. 2018

# Entrepreneurship

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## Centre for Technology Innovation and Entrepreneurship (CTIE):

Entrepreneurship is the key driver for development and job creation in any nation. Higher the entrepreneurship orientation of people, more can be innovative solutions, improved quality of life and better economic development of its citizens. Centre for Technology Innovation and Entrepreneurship -CTIE at KLE Tech aims to build this culture of startups at the University. Using a seven step framework to build technology ventures, KLE Tech-CTIE boasts having 38 companies at its University campus and is growing.

- | Develop entrepreneurial thinking and liking in the mind of students
- | Excite students to take on socially relevant challenges and help build solutions
- | Develop ability to build business around tech. solutions
- | Engage entrepreneurially aligned people to come together to be a part of the business ecosystem

## CTIE Strategy:

To help build a technology entrepreneurship ecosystem, CTIE followed a two pronged approach. The first is to encourage external entrepreneurs with a good business plan and cultural fit to start their business on University campus. This enabled quick ramping up of companies with commercial interest that served as a beacon to engage students in a variety of collaborative activities. Alumni of BVB responded to this call effectively and many businesses made CTIE as their home. Simple and no strings- attached policies of CTIE helped to attract serial entrepreneurs and young engineers to build their ventures. The second path focused on building the pipeline of eligible students who are open enough to experience career of an entrepreneur. A good mix of credit based and non-credit activities were undertaken as a part of this approach.

The entrepreneurship interventions designed at KLE Tech focused mainly on, Building entrepreneurship culture on campus Opportunity identification and technology solutions Commercialization strategies As a result of such blended approach to entrepreneurship, CTIE has following to claim.

- 33 technology companies on campus
- 12% of these are student/fresh graduate start-ups
- Over 25,000 sq. ft of incubation space given away
- Over 9000 Sqft Techpark / Accelerated
- Over 200 plus jobs created

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## Launch of Next Big Idea Contest by Zone Startups

KLE – CTIE was one of the regional partners for the Launch event of Next Big Idea Contest by Zone Startups on 23rd August 2017. KLE – CTIE was hosted this launch event at KLE Tech. University and had a panel session on “Think Beyond Silicon Valley” Mr. Niranjan Demanna, Team Zone Startups, Mr. Sasi Shekar Krish, Founder & CEO, NanoPix Technologies Pvt. Ltd., Mr. Prasad Patil, Founder & CEO, Aissel Technologies and Prof. Nitin Kulkarni were the panelists and shared their views on entrepreneurship. Total 45 participants attended the session.



## PUPA-2017

PUPA is an accelerated entrepreneurial experience for students. PUPA 2017 saw the biggest number of registrations and exhibiting participants since its inception in 2013, Over 400 teams and 1500 participants had taken part in PUPA-2017. PUPA, as the name suggests, is a transient state where in student teams garner key resources and turn out products just like a beautiful and lively Butterfly over 4 weeks. PUPA 2017 witnessed the collection of amazing technical products. LED cube with equalizer, which had



dancing led patterns synchronized with the music beats gave an eye-catching show. Remote controlled Vacuum cleaner that cleans the surface as it slides over it. A remote controlled, ‘Smart switch’ that automatically switches off after a pre-set time, presented a new way of power saving. Bluetooth Speakers that give a mesmerizing audio effect opened a way of innovation in entertainment. Smart display, solar chargers, cost efficient power banks, Smart Gloves and many more technical innovations led the innovation extravaganza.



## Student Exchange Program 2017-2018

December 29, 2017 to January 12, 2018 at KLE Technological University Hubli, India

Faculty – Nitin Kulkarni (KLE, India), Ashwin Mehta (UML, US, Xu Xia (NUPT, China))



Over 50 students from US, India, Japan and China assembled in Hubli, India for 2 weeks of intensive entrepreneurship learning in a multi-cultural, multi-disciplinary environment! Since its inception in 2013, students from 8 countries have participated in the program, held in Hubli, USA and China.

## Intel Ideation Camp

The Ideation of Ideas started with collective effort of Team MIB led by the director of CTIE, Mr. Nitin Kulkarni on 14th & 15th February 2018 at KLE Tech. From around 170 applicants, 70 of them were scrutinized and selected based on their skills in expressing themselves on the paper. A set of three different topics were given based on their need in today's world and their effect on our surroundings. They were Smart city, Indian Agriculture and Cyber Security.

## Design thinking workshop

The workshop held on February 18th 2018 by Mr. Rajeev Mankar on design thinking was organized with the aim of making the participants think from multiple angles and understanding the needs & expectations of multiple stakeholders while designing a product. The workshop was conducted for employees and employers of all startups incubated in KLE-CTIE.



## E-Summit 2017

KLE-CTIE hosted its annual event E-Summit 2017 on 8th, 9th & 10th March 2018 at KLE Technological University. Event was organized by KLE-CTIE and more than 500+ students from different institution and entrepreneurs attended the event. An exhibition was also arranged on the last two days for all the startups to exhibit their innovative ideas to the outside world.

We had successful entrepreneurs and experts shared their expertise and interacted with students and startups.



### List of the Speakers who shared and interacted with students and startups

Mr. Venkatesh Iyer- Founder and CEO Goli Vadapav

Mr. Abhishek Chandrashekar- Co-Founder Royal Brothers

Mrs. Deepali Gotadke- Founder and Business Owner, Web Dreams

Mr. Giriendra Kasmalkar- Alacrity India Fund

Mr. Apul Nahata- Co-Founder, Kalpnik Tech, Mentor-in Residence Brigade REAP Pvt. Ltd.

Mr. Ramnath Bhat- COO, Repose Mattresses Pvt. Ltd

Mr. Dhananjay DJ- Co-Founder, Olopie

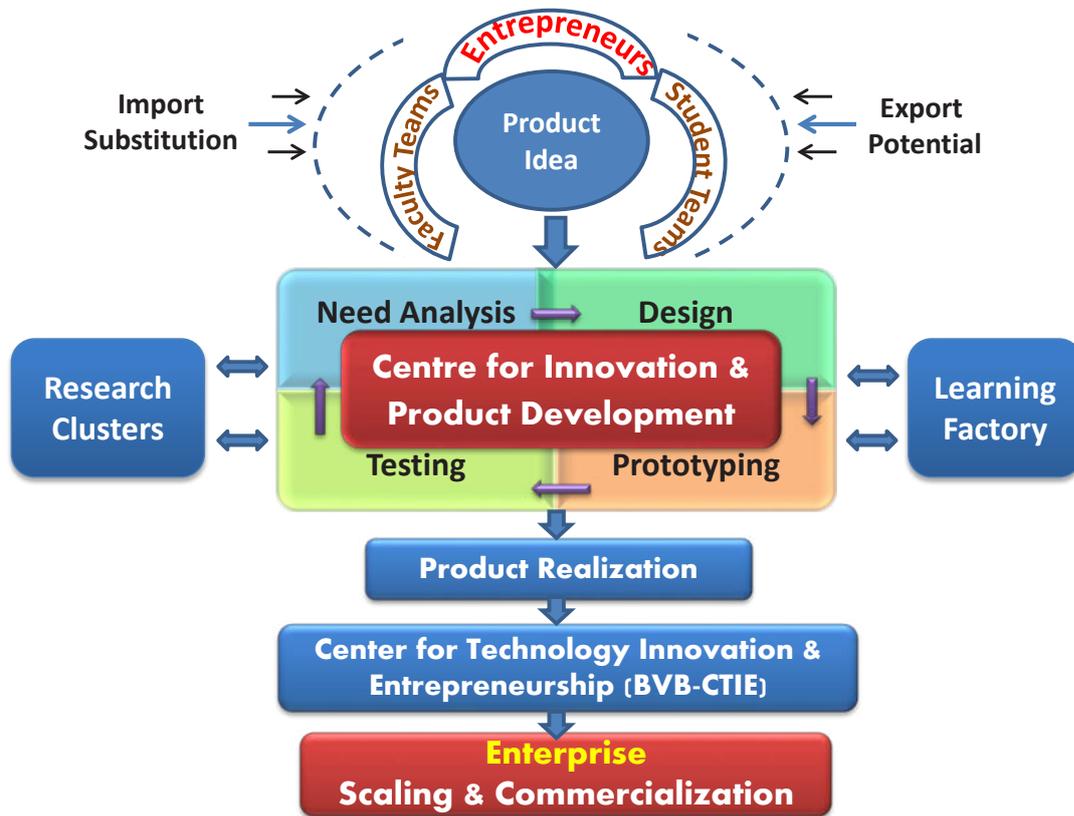
Mr. Guru Ganesan- President & Managing Director, ARM-India Operations, ARM

The event had various competitions such as CEO- where 250 students participated and 3 winners were announced at the end of 3 rounds. B-Plan Hackathon had 192 participants, 3 winners were announced after 7 rigorous stages. Battle for Sharks had 54 teams competing against each with the total prize money being worth INR 1,00,000/-

# CIPD - Centre for Innovation & Product Development

Over arching philosophy of CIPD

## KLE Tech Centre for Innovation & Product Development [KLE Tech - CIPD]



The Center has been established to develop capabilities in Product Innovation and Development for students, faculty and start-ups within KLE Technological University.

The Mission: To be a premium product innovation and development center in India by 2020 within the academic arena

One small step towards achieving our mission this year was to address a challenging social cause of sugarcane biomass burning and create a win-win situation for farmers and society as a whole.

BEACON : Biomass Energy And CONservation (BEACON) is an strategic initiative deployed by CIPD to utilise the biomass to generate energy, and improve livelihoods in rural India

This Initiative achieved the following goals :

1. REDUCE ENVIRONMENTAL IMPACT BY NOT BURNING SUGARCANE BIOMASS
2. IMPROVE RURAL EMPLOYMENT
3. EXTRA INCOME FOR FARMERS
4. SUSTAINABLE BUSINESS MODEL FOR ENTREPRENEURS AND STAKEHOLDERS

This endeavor was first of its type in terms of collaboration between educational institute (KLE Technological University), Industry (EID Parry) and NGO (Cherysh Foundation).

The business model is adopted by 4 entrepreneurs in North Karnataka and CIPD has introduced two design patented products to enable the biomass energy conversion process.

This unique project has converted a vicious cycle of sugarcane biomass burning to a virtuous cycle by providing value to the sugarcane biomass

**The following strategic initiatives shall be deployed to achieve our goal:**

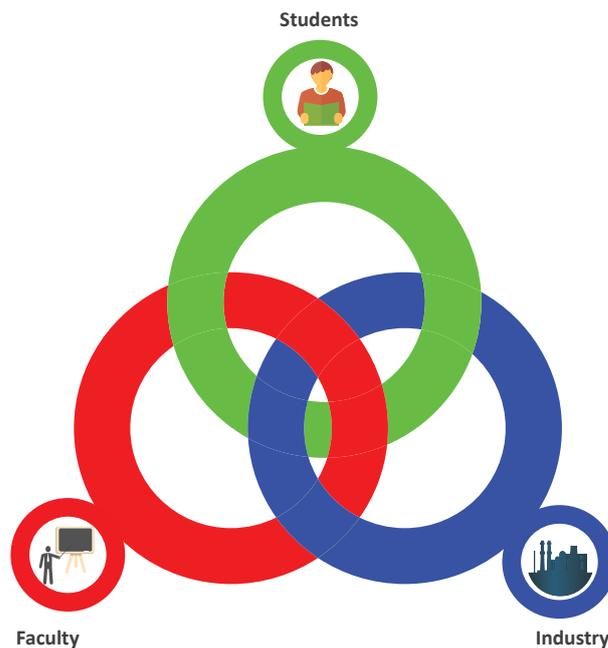
- Collaboration: With Industry, students, faculty and society to develop innovative product ideas
- Organizational alignment: Academic courses to be aligned to achieve an end goal of product realization. All New Product Introduction, Innovation and Product Design & Development courses to be aligned towards a common goal. Faculty members from various departments to be in a team which shall work towards the 2020 goal
- Develop eco-system for product innovation and Intellectual Property Management – processes and tools
- Capability Building: Develop Product Innovation, Design and Development curriculum; Training programs and workshops for faculty and industry partners

# MakerSpace

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The 'MakerSpace' is a central facility created to promote product development and realization eco-system on the campus. It intends to provide students with unique learning experiences on real industry problems and products in a work-emulating environment. It helps them understand industry needs, professional requirements and the product realization process. The MakerSpace provides modern design, prototyping, and manufacturing facilities required for realization of any electro- mechanical product. It also provides expert supervision and training to use the facilities. The MakerSpace

is administered by the University as a resource for all engineering departments. Facilities, with an investment of about 3.0 crores of rupees, occupying 10,000 square feet, include a machine shop (4000sq.ft), model shop (2000sq.ft) and project work area (4000sq.ft). Engineering student can use the MakerSpace for concept design & realization, course-related activity and/or competition projects such as SAE Formula, SAE-BAJA, SAE- ecokart, SAE-Efficycle, ROBOCON, etc. The shop is open 8 am-8 pm weekdays and on weekends as needed.



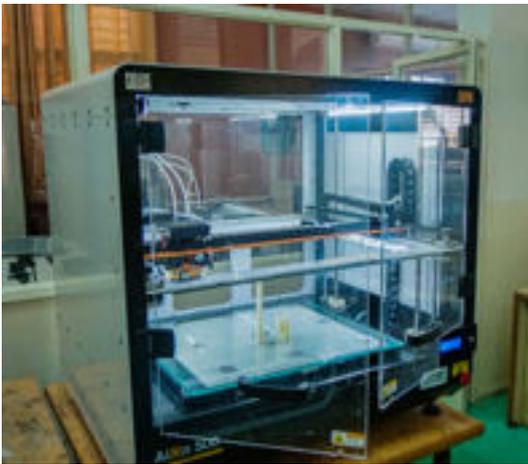
## MakerSpace

## MakerSpace – Added with more facilities



DMG-MORI 600V  
Vertical Milling Machine

It is a state-of-the-art machine extensively used by aerospace parts manufacturers. Students will gain exposure on machining aerospace parts on this same machine.



AION-500 3D Printing Machine

Another addition to existing 3D Printers' family with a capability to print bigger parts i.e. 500mmx500mmx500mm

## 12 Station Assembly Arena with Power Tools

Student teams can assemble a product/prototype without having to roam around for tools.



# Industry Partnership

It is essential that the institute continues to strengthen its association with the industries to enhance its student learning experience and relevance of its research activities.

## Curriculum intervention:

Board of studies of every program is having at least two senior members from Industries like Microsoft, GE, Tata motors, TCS, Samsung, Sankalp etc.



## Industry Oriented Courses:

**Fundamentals of Gas Turbines:** Has been offered for the Mechanical stream departments in collaboration with Quest Global (now Aequs).

**Active Directory Services:** Has been offered in Collaboration with Microsoft IGTSC for the students of CSE, ISE and EC branches.

### Parallel Computing and Applied

**Parallel Computing:** Has been offered In Collaboration with NVIDIA for UG and PG courses of CSE and ISE.

**Fundamentals of IT:** Has been offered by the Mechanical stream departments in collaboration with Infosys.

**Automotive electronics:** Has been offered in Collaboration with Robert Bosch and KPIT. This has led to increase in placements by 150 % for the companies in the field of automotive electronics in Bosch, KPIT, Continental and Delphi.

**Aircraft Systems and Design of Aircraft Structures:** Has been offered by the Mechanical stream departments in collaboration with Infosys.

**Manufacturing technology:** Has been offered for the Mechanical stream departments in collaboration with Quest Global (now Aequs).

## Industry based projects:

Around 80 capstone projects have been carried out in collaboration with Industries like Microsoft, Juniper Networks, Sankalp, Ion Idea, Nano pix, Hi-WI etc.

## Smart India Hackathon 2018:

Smart India Hackathon was organized in association with MHRD, Ministry of Statistics and Programme Implementation and other Industries.



## 2nd INS-Zoom Hackathon :

2nd edition of the INS-Zoom hackathon was conducted in association with INS-Zoom.

## Internships:

114 students were offered full time Internship by various Industries:

Cisco	6
GDV Pvt Ltd	3
Informatica	3
Infosys	15
INSZoom	2
Juniper CSG	3
Juniper Test Div	2
Kooki	2
Microsoft	9
Quest Global	3
Robert Bosch	24
Sankalp Semi	5
United Heat Transfer	4
Walmart Labs	10
Various Biotech Companies	23

# Education Research

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## Centre for Engineering Education Research (CEER)

### About CEER:

KLE Tech is playing the important role of creating engineering education system offering opportunities for students to realise their potential and prepare themselves for professional career. This includes design of industry relevant curriculum, practicing of active, collaborative and experiential learning pedagogies and assessment and evaluation. Today KLE Tech is recognised for innovations in this space. Need to learn from these innovations and sustain them resulted in establishing Centre for Engineering Education Research (CEER). CEER was established in 2010 to promote innovations in engineering education, learn from these innovations, collect best practices and institutionalise them. CEER works with the following goals:



1. Empower faculty members with the best practices in curriculum design, teaching – learning and assessment through trainings, workshops and allied activities
2. Encourage innovation in curriculum design, teaching – learning and assessment
3. Influence faculty mindsets to recognise the importance of research driven instructional practices
4. Share the experiences with community through outreach activities like publications, workshops, trainings and conferences
5. Design and offer innovative courses and programs

The processes and practices towards accomplishing these goals have made significant contributions to enriching the engineering education ecosystems of the University. The number of engineering education research publications is growing steadily since the last five years. CEER has earned a respectable position among the practitioners of engineering education. Good number of Engineering Colleges in India have taken inspiration and have setup such centres in their respective Institutions taking best practices and courses from.

# Innovations in Engineering Education

## Engineering Exploration course and Prayog

The first year course – “Engineering Exploration” is a unique innovation born in the educational ecosystem of KLE Tech. This is a co-designed and co-taught course that focuses on problem solving, engineering design, multi-disciplinary skills, ethics and sustainability. Initiated in the year 2015-2016, the course has matured to a Project Based Learning course. Students collaboratively solve identified problems to design mechatronic prototypes. The learning spaces are designed to promote teamwork and collaboration. Students ideate, design and build prototypes in a safe and friendly prototyping facility - “Tinkering Lab” which is equipped with necessary modern tools and equipments.

The course culminates with the celebration of students’ success in the form of an exhibition - Prayog. Prayog is an event to showcase the projects done by students in Engineering Exploration course. It is conducted twice a year (Prayog Sharat - Odd Semester, Prayog Vasant - Even Semester) on the last working Saturday of both semesters. It serves as a platform for peer learning. The details of Prayog for the academic year 2017-2018 are shown in Table 1. During 2018, Senior Vice President Samsung Research Institute Dr.Balaji Holur, Samsung CTO Dr. Alok Nath also visited the exhibition.

Table 1. Details of Prayog-Vasant and Sharat

	Number of projects	Date
Prayog Vasant	147 projects by 550 freshmen	April 27 2018
<b>Sharat</b>	<b>127 projects by 480 freshmen</b>	<b>Dec 3, 2017</b>

Over the past one two years, this course has evolved as a test bed for innovations in engineering education. Besides, it is offering good learning platform for faculty members wanting to get exposure to innovative experiments in pedagogy and assessment practices. The course is listed as one of the PBL practices in Alborg University’s UNESCO chair for PBL.



## PhD in Engineering Education

KLE Tech is one of the few Institutions in India offering PhD in Engineering Education. This program is started in 2015-2016 and has been designed with a vision of contributing to leadership development in Engineering Education. Experiences of a few of the leading universities in the world are used in designing the program.

The advisory board for CEER consists of leaders in engineering education from prestigious universities.



Prof. Vinod Lohani  
Virginia Tech.



Prof. William Oakes  
Purdue University



Dr. Sohumi Sohoni  
Arizona State University



Dr. Yogesh Velankar  
KLE Tech



Prof. Ashok Shettar  
Vice Chancellor



Prof. Prakash Tewari  
Dean (Academic)



Prof. Gopalkrishna Joshi  
Director, CEER

# Research in Engineering Education

## Current Focus Areas

Engineering Education Research is the most rigorous form of scholarship that lies along the following spectrum:



For CEER, the progression along the continuum has been steady in the last five years. There has been a meditated and conscious movement from innovative curriculum design to understanding “How students learn engineering?”. In this endeavour, Engineering Exploration has served as a test bed for many educational experiments.

There were efforts to address the following research questions during the year 2017-2018:-

1. What is the current state of secondary and higher secondary education in India with respect to introducing engineering thinking and what could be the possible ways of introducing engineering thinking at secondary and higher secondary education?
2. How does process and pedagogy influence the outcomes of the problem definition phase of the Engineering Design process?
3. How ‘Jugaad’ mind-set gets manifested in students’ project prototype, what are its root causes and how can we design interventions to overcome this mindset?

The details from KLE Tech, in engineering education research during 2017-2018 are as shown below:-

Year	Conference	Journal	Total
2018	ICTIEE-19	JEET- 05	24

## REU Experiences

Research Experience for Undergraduates (REU) is an integration of research and education at KLE Tech. During the summer of their third year, the students undergo six credits research experience with a scholarly faculty which culminates in a research publication. This leads to a broad range of cognitive and personal abilities in undergraduates which has shown to motivate them for graduate studies. At CEER, faculty-student partnership in SOTL was achieved a through structured initiation of students into the research process through collaborative mentoring and cohort learning. The research topics for the academic years 2017-2018 are shown in table below

Sl.No	Research Topic
1	Social media data analytics for personality modelling
2	A study of team formation strategies and their impact on individual student learning using EDM
3	A Study of Impact of Experiential Learning on Student Success using EDM.

# Collaboration

## IESA-NETRA

India Electronics and Semiconductors association is promoting Electronics System Design and Manufacturing and entrepreneurship in India through select educational institutes and universities in India. This is being pursued through NETRA (National ESDM Training and Research Academy) which has been created for this aforementioned purpose.

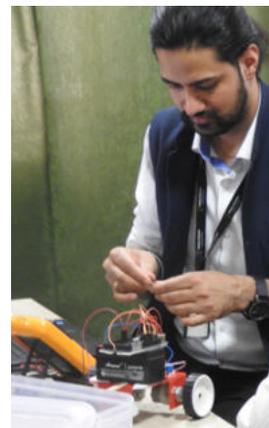
As a part of this program, MoU has been signed between IESA-NETRA and CEER, KLE Tech to take Engineering Exploration to develop ESDM skills in select universities / engineering colleges in India. This collaboration covers:-

1. Sharing of curriculum content with select institutes
2. Empowering faculty members through workshops
3. Mentoring to create a required learning environment in these institutes
4. Periodic review and impact assessment

This collaboration signed during September 2017 is for a three-year period. Two Master Trainers Workshop on Engineering Exploration were conducted during 2017-2018 the details of which are shown in table below. As of date, a number of institutes in India have started Engineering Exploration course.

FDP	Institutes	Number of participants	Date
First	8	22	Nov 29-Dec 1, 2017
Second	13	64	May 14-18, 2018

Master Trainers Workshop 1



Glimpses of faculty in action during workshop 1 and workshop 2



## IESA-NETRA

### Collaboration with IUCEE

KLE Tech is a major beneficiary of the initiatives of Indo Universal Collaboration for Engineering Education ( IUCEE) in its transformational journey since inception of IUCEE. Through a number of initiatives KLE Tech shares it's experiences with professional community in collaboration with IUCEE.

#### Two-day institutional Exposure program



The two day institutional exposure program brings to forefront the best practices in curricular innovations, teaching-learning processes, research activities and infrastructural facilities at KLE Tech. The visiting administrative heads and faculty members visit the institutional facilities like Makers Space, Learning Factory, Centre for Engineering Education Research (CEER), Centre for Technology Innovation & Entrepreneurship (CTIE), Incubation Centre and individual departments.

During the academic year 2017-2018, 326 members from 34 institutes from different parts of India have participated in this program.

#### IUCEE KLE Tech., Webinar course on OBE

KLE Tech has started offering an online certificate course on Outcome Based Education in collaboration with Indo Universal Collaboration for Engineering Education. Dr.Ashok Shettar, Dr.Prakash Tewari and Dr.Gopalkrishna Joshi are the resource persons for this course. This year's webinar is the second in the series which was started in 2016. A series of 12 webinars were conducted between September and December, 2017.

## Outreach activities

To disseminate the scholarly practices to audiences, CEER engages with institutes through a range of faculty development programs which vary in the depth and scope.

#### Immersive Training on Pedagogy, Assessment and Institutionalisation of best practices

The five-days training on Pedagogy, Assessment and Institutionalization of Best practices is conducted for 10-15 multi-disciplinary faculty members from a single selected institute. The training focuses on the following:-

1. To create awareness about with best practices in curriculum design, pedagogy and assessment
2. To help develop an institutional and departmental plan of action for deploying innovative pedagogies, assessment strategies at parent institute

Initiated during February, 2017, six trainings have been conducted so far, reaching 62 participants from 3 institutes. The details for the training conducted during academic year 2017-2018 are as shown in table below.

Institute Name	Participants	Dates
SR Engineering College, Warangal	10	Oct 9-13, 2017
St. Joseph Engineering College, Mangalore	15	Jan 29- Feb2, 2018



Joseph Engineering College, Mangalore



SR Engineering College, Warangal

## Faculty Development Program on Student Centred Teaching and Learning

Research has shown that engagement with content and peer interaction is shown to be one of primary contributors to students' academic achievement. This engagement can be increased by adopting student centred teaching-learning practices.

The 2-days faculty development program on student centred teaching learning takes the faculty through the content, assessment and pedagogy of Engineering Exploration course by focusing on the student centred teaching-learning practices practiced in it.

The details for the training conducted during academic year 2017-2018 are as shown in table below.

Institute Name	Participants	Dates
KLE's MSSCoE, Belgaum	80	July 02-03, 2018
KLE IT, Hubballi	40	July 30-31, 2018



## Faculty Conclave 2018

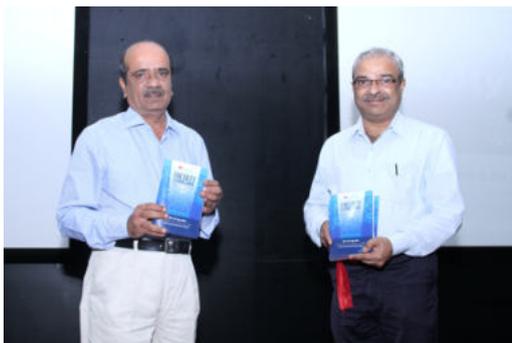
A Two-day Faculty Conclave-2018 was organized by Centre for Engineering Education Research (CEER), KLE Technological University, Hubballi on 26-27th, July, 2018. Being initiated in 2011, this event was eight in the series.

The Faculty Conclave provides a platform to showcase new pedagogical practices and research in the realm of engineering education at KLE Technological University, Hubballi. The event showcased 50 paper presentations and 09 posters by the faculty members belonging to different schools and departments of the university.

Spread over eight sessions, the five distinct themes of the event are:-

1. Curriculum Innovation
2. Outcomes Assessment
3. Experiential Learning
4. Pedagogies in Engineering Education
5. Research Experiences, Entrepreneurship and Industry – Institute Collaboration
6. Graduate Program Experiences
7. Technology Enhanced Learning & MOOC Experiences

The faculty of the institute actively participated in the deliberations during the conclave. The event served as a forum for exchange of ideas and practices followed across the various schools and Departments of the KLE Technological University.



## Outcome Based Education

The understanding and experience of practicing outcome based education in KLE Tech, is being shared with the community of engineering educators in the form of induction programs, workshops, webinars and courses. The details for the training conducted during academic year 2017-2018 are as shown in table below. Dr.Prakash Tewari and Dr.Gopalkrishna Joshi are the resource persons for this workshop.

Institute Name	Participants	Dates
Babasaheb Ambedkar Marathwada University, Aurangabad	80	Nov 8-9, 2017
Vignan's Institute of Information Technology, Visakhapatnam	120	May 4-5, 2018

## Distinguished Visitors to CEER

During 2017-2018, a number of leaders in engineering education visited CEER with the intention of collaborating and nurturing the research culture at CEER..



### Dr. Vinod Lohani

Dr. Vinod K. Lohani is a Professor of Engineering Education and serves as the Director (Education and Global Initiatives) for the Institute for Critical Technology and Applied Sciences, Virginia Tech.

Dr. Lohani visited CEER on Dec 15, 2017 during which he assessed the progress made in implementing the Engineering Exploration course and sharing of best practices through CEER outreach activities.



### Dr. Sohumi Sohoni

Dr. Sohumi Sohoni is an Assistant Professor in Engineering at The Polytechnic School at Arizona State University. He is a computer engineer and is active in the area of computer science and engineering education research.

Dr. Sohoni visited CEER during Dec 11-12, 2017 and again during July, 2018 to help nurture the PhD program on Engineering Education Research and set the path forward.



### Prof. Krishna Vedula

Prof. Krishna Vedula, Dean -Emeritus, University of Massachusetts-Lowell, Founder and Executive Director of Indo -Universal Collaboration for Engineering Education visited during Aug 06, 2018. The purpose of his visit was to get updates on Innovations in Engineering Education at KLE Tech and strengthen the collaboration.



### Prof. William Oakes

Prof. William Oakes, Professor of Engineering Education, Director of EPICS, Purdue University visited on 7th March, 2018. He reviewed the PhD program in Engineering Education.



## Recognitions

### KLE Tech awarded by IUCEE

KLE Tech awarded as Ranked No 1 for “Outstanding Institutional Transformation in Engineering Education” at Bennett University, New Delhi by IUCEE (India US Council for Engineering Education) for the second consecutive year.



### Techno Visionary Award

Dr. Ashok Shettar, VC KLE Tech University, receiving Techno Visionary Award for Outstanding performance in ESDM research and eco system by Honourable minister for IT Nara Lokesh of Andhra Pradesh on 27th Feb 2018.

- 1) KLE Technological University has joined Purdue University consortium for LASER PULSE project. US Agency for International Development (USAID) has awarded the LASER project to this consortium which consists of Catholic Relief Services, Indiana University, Makerere University, and the University of Notre Dame.  
LASER PULSE is an acronym for Long-Term Assistance and Services for Research (LASER) Partner University-Led Solutions Engine (PULSE). The LASER PULSE consortium convenes and catalyzes a global network of Universities, government agencies, non-governmental organizations, and the private sector for research-driven, practical solutions to critical development challenges in low and middle-income countries. This is a five-year program starting from 2019 with research grants of up to US\$ 5 million.
- 2) KLE Tech, in its endeavour to create better learning environments to students and giving them multi-cultural exposure, has entered into a MoU with Coventry University ([www.coventry.ac.in](http://www.coventry.ac.in)), one of the leading universities of United Kingdom. Prof. Ashok Shettar, Vice Chancellor signed the MoU with Prof. Richard Dashwood, Deputy Vice-Chancellor (Research) of Coventry University on October 08, 2018.  
As per this MoU, both Universities would be collaboratively working in the areas of research, faculty development and faculty and students mobility between both universities.  
Coventry University is known for its student centered innovations and collaborative industry practices. It is recognised as University of the Year for Student Experience by The Times and Sunday Times Good University Guide 2019. As per Guardian University Guide 2019, it is ranked number 13 in the United Kingdom. From this collaboration all the stakeholders of KLE Tech are expected to be benefitted.

- 3) Council of Architecture (COA) has instituted award for “Excellence in Documentation of Architectural Heritage” in India. The COA Heritage Award has been instituted with an objective to encourage interest and talent of students for understanding, documentation of heritage buildings and to develop and promote sensitivity and awareness towards India’s architectural heritage amongst students of architecture across the country. For COA Heritage Awards 2018, School of Architecture, KLETECH had sent two documentation projects as entries to participate in Zonal Level (5 entries to be shortlisted for National Jury). Both our Entries were Winners and selected for National Jury to be held in Ahmedabad in November 2018 and awarded Rs 10,000/- + Certificate each.
- 4) BVBCET, Hubli (Now KLE Tech) was given Appreciation Award by Robert Bosch for Maximum Campus Selections for the year 2017-18 Batch. Award was given during Placement Officers Meet called “Sambandh-2018” held on 1st June, 2018 at Robert Bosch Bangalore Office. Robert Bosch has recruited a total of 69 Students from our college 2017-18 Batch.
- 5) KLE Tech Academic Private Cloud is a cloud orchestration and management software for on-demand provisioning of cloud services. It is developed to provide a common infrastructure and research environment for students and faculty working in the area of Cloud, SDN, Big Data Analytics and IoT. At present, KLE TECH Cloud is deployed with 8 servers with total of 41 cores, 288 GB RAM and 9 TB of virtualized storage. The work is in progress to extend Cloud with additional 8 servers with a total of 64 cores, 1024 GB of RAM and 80 TB of virtualized storage.
- 6) The Smart Stick “Drishti” developed by Students of fourth semester BE of Engineering Design and Product Realization course has been awarded with “National Budding Innovators Award of the Year 2017” by National Research Development Corporation (NRDC) on behalf of the Department of Scientific and Industrial Research (DSIR), Ministry of Science & Technology, Government of India organized a contest for demonstrating innovative prototypes for start-ups with an objective to encourage inventive talent in the Country. The team demonstrated their prototype at Vigyan Bhavan, Rajpath Road Area, Central Secretariat, New Delhi during the National Technology Day Awards Function on National Technology Day, 11th May, 2018 and were awarded with a cash prize of Rs.1,00,000
- 7) A team of 18 students from AeroKLE club, KLE Technological University had participated in SAE (Society of Automotive Engineers) India “Aero Design Challenge-2018” competition held at “Anna University Chennai”, and won 2nd rank in Technical Presentation and top 8th position in all India Ranking out of 109 teams that participated from various states of India. For this competition students Designed, Manufactured and Tested two remote-controlled Aeroplanes in the “Maker’s Space” facility of the KLE Technological university
- 8) AJIT 1.0 is a humanoid robot built by the students of Automation and Robotics department. It is built as an open platform and will be available as an experimental platform. Its main application is to develop artificial intelligence, social and service robots. Version 1.0 will be wheel based locomotion and version 2.0 will be legged motion.
- 9) KLE Tech awarded as Ranked No 1 for “Outstanding Institutional Transformation in Engineering Education” by IUCEE (Indo Universal Collaboration for Engineering Education)
- 10) Dr. Ashok Shettar, Vice-chancellor KLE Technological University, received the Techno Visionary life time achievement Award from Indian Electronics & Semiconductor Association (IESA) for his contribution in building ESDM ecosystem on 27th Feb 2018.

# IT Platforms and Services

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The present IT infrastructure of KLE TECH was redesigned in the year 2014-15, as to cater modern engineering day's needs and challenges. We have upgraded the basic network infrastructure under TEQIP Grants; we upgraded Campus back bone from Copper to OFC.

## **Key features of BVBCET IT Infrastructure:**

- | Campus back bone is of OFC (Ring structure) 10Gbps.
- | Department Internal LAN is 1Gbps.
- | Number of nodes in Campus is 2700 plus (desktops).
- | With 8 VLANs / sub nets and internal LAN with different topologies.
- | Internet bandwidth is 375 Mbps leased line (service provider is BSNL and TATA).
- | 75 wireless access points across campus and 85 across hostels. (with SSID KLE\_Tech)
- | More than 50 servers to cater academic needs of students.
- | Firewall, AAA Server, Access point controller unit which can withstand 30 lakh concurrent sessions with highly secured network. (viz. Sophos, Aruba Controller etc..)
- | Every single machine in campus is connected with internet facilities.
- | Every single classroom and laboratories in campus are well equipped with audio visual facilities.
- | Video conferencing and teleconferencing tools at seminar halls. (Polycom)
- | 15 classrooms are equipped with lecture capturing systems(impartus)

## New infrastructure

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Our infrastructure is the key enabler for us to deliver world-class educational experience for our students. A major building project construction of School of Computer Science & Engineering is being undertaken.

Continuing our efforts to develop ambient green campus, new landscape projects were undertaken. The new landscape focuses on creating informal interaction space for the students in the campus.



School of Computer Science & Engineering



KLE Techpark

## Board of Governors

Name	Designation
Dr. Prabhakar B. Kore	Chairperson
Prof Ashok S. Shettar	Member
The Principal Secretary/Secretary, Higher Education, Government of Karnataka.	Member
The Principal Secretary/Secretary, Medical Education, Government of Karnataka.	Member
Prof M. I. Savadatti	Member
Prof R. Natarajan	Member
Prof B. S. Sonde	Member
Dr. Sudha N. Murty	Member
Prof P. G. Tewari	Member
Prof B. L . Desai	Member Secretary

# Student accolades

## KLE Tech sweeps 1st prize at BOSCH

KLE Tech 6th sem Mechanical Engg students have won the 1st Prize at prestigious all India " Bosch iNSCRIBE-2017 " Technical Paper Presentation Contest. The Finals of the Contest was held on 23rd January,2018 at Robert Bosch Office in Bangalore. Total Top 31 colleges participated in the Contest. Total 13 Teams were shortlisted for Finals. In this 6 were from KLETech



## KLE TECH – BVBCET LEAVES A MARK! 4th RANK OVERALL



Team Vegadooth Racing is a formula student team of KLE Technological University, revelatory part of BVB Motorsports Club that participated in SUPRA SAEINDIA 2017. The team consistently bagged 4th position among 111 teams, successfully completing all the events in both the years and leaving a mark in the competition.

## Team BVB Electromacs Wins National Electric Kart Championship (NEKC) 2018

The objective of the competition was to design, conceive and fabricate an Electric Go-Kart Vehicle. The competition consisted of two rounds, namely, Virtual and Dynamic. "Team Electromacs" stood 4th place in Virtual Round competition.



## RC Aeroplane: Best Technical Presentation Award

A team of 18 students from AeroKLE club, KLE Technological University had participated in SAE (Society of Automotive Engineers) India "Aero Design Challenge-2018" competition held at "Anna University Chennai", and won 2nd rank in Technical Presentation and top 8th position in all India Ranking out of 109 teams that participated from various states of India.



## DRUSHTI team wins "National Budding Innovators Award"

The smart stick "DRUSHTI" is designed to perform better compared to other smart canes available in market. The smart stick can assist the blind people without the human need and their dependency. It is well known that the blind people carry a handy stick with them whenever and wherever they need a support. This stick can even be used to protect themselves from the hazardous animals to save themselves and avoid any harm. As this product is handy and all the circuits are operated away from the body so there would be no harm to human body. It is easy to maintain and due to simple placement of the circuits on the stick and it is easily affordable.

# Financials

## Income and Expenditure Statement for the year 2017-18 (Includes Capital Expenditures)

Income	Amount (Rs)	Revenue Expenditures	Amount (Rs)	Capital Expenditures	Amount (Rs)
Academic Receipts	443,016,131.00	Staff Payments & Benefits	291,323,101.00	Buildings	66,452,727.00
Grants and Donations	91,104,283.00	Academic Expenses	47,923,669.00	Equipments	21,850,190.00
Income from Investments	8,705,188.00	Administrative & General Expenses	46,502,987.00	Computers	16,095,372.00
Other Incomes	6,267,859.00	Transportation Expenses	704,839.00	Furnitures & Fixtures	28,323,013.00
		Repairs & Maintenance	38,170,208.00	Software	4,232,111.00
		Finance Costs	4,622,528.00	Books	1,523,340.00
		Research and Development	6,836,680.00	Vehicle	140,784.00
		Depreciation	36,663,392.00	Research and Development	10,062,851.00
<b>Total</b>	<b>549,093,461.00</b>	<b>Total</b>	<b>472,747,404.00</b>	<b>Total</b>	<b>148,680,388.00</b>
		Capital Expenditure Total	148,680,388.00		
To Deficit (Excess of Expenditure over Income)	72,334,331.00				
<b>Grand Total</b>	<b>621,427,792.00</b>	<b>Grand Total</b>	<b>621,427,792.00</b>		

# Alumni Association

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Following are the BVB KLE Tech Alumni Chapters in functioning in India as on today.

<b>Alumni Chapter Name</b>	<b>Admin on Whatsapp group</b>	<b>No. of members</b>
BVB KLE Tech Alumni Pune chapter	B.L.Desai, T.V.Swamy, Dilip Miskin, Anant Kembhavi, Anil Sahasrabudhe, Chetana Rao, Prasad Gore, Nadagouda, Vishwajeet	<b>181</b>
BVB KLETech Alumni Bengaluru chapter	B L Desai, T V Swamy, Swetha Hooli, Akshay Anand, Jayashri Karamadi,	<b>162</b>

Following are the WhatsApp Groups formed for BVB KLE Tech Alumni in different countries across the Globe during 2017-18. Thanks to Prof.B.L.Desai who pushed his students abroad to take this initiative to create the presence of BVB Brand across Globe.

## **INTERNATIONAL WhatsApp Groups**

<b>Alumni Chapter Name</b>	<b>Admin on Whatsup group</b>	<b>No. of members</b>
BVB KLE Tech Alumni WC-USA	B.L.Desai, T.V.Swamy, Basu Ullagaddi, Shivu Vibhuti, Mahadev Karadigudda, Sid Shettar	<b>122</b>
BVB KLE Tech Alumni UK	B.L.Desai, Prakash Tewari, T.V.Swamy, Arun Patil, Laxman, Yasodha, Mahesh V, Srikant Alla, Shahid, Nachi, Gangadhar, Raju Hiregoudar, Arvind Kulkarni, Anand, Basavaraj Patil, Prashant Totad	<b>47</b>
BVB KLE Tech Alumni USA	B.L.Desai, T.V.Swamy, Basu Ullagaddi, Shivu Vibhuti, Mahadev Kaadigudda, Raj Galagali,	<b>185</b>
BVB KLE Tech Alumni Germany	B.L.Desai, T.V.Swamy, Om Garagatte,	<b>37</b>
BVB KLE Tech Alumni AU (Australia)	B.L.Desai, T.V.Swamy, Savitri (Lata) Koppa	<b>38</b>

## Annual General Body meeting

Annual General Body meeting was held on the 26th November, 2017 in BT Seminar Hall on University campus. Following are the highlights of the meeting.

During the program 23 beneficiaries were given scholarship of Rs.20000 each for their hostel needs under Nurture Merit @ BVBCET Project.



During the program 23 beneficiaries were given scholarship of Rs.20000 each for their hostel needs under Nurture Merit @ BVBCET Project.

## Alumni Meet

With Mr.Nikhil Bhagwat leadership 19 Civil Engineering alumni of 1997 batch came together on University campus and held a meeting with their teachers on 11th December, 2018.



## Alumni Meet

Prof.A.K.Kulkarni took initiative when he visited London to put the BVBians together on 15th July, 2018.



## Alumni Meet in San Francisco Bay area, USA

Prof.B.L.Desai 1973 E&E alumnus and Registrar KLE Tech organized BVB Alumni Meet in San Francisco Bay area, USA – where nearly one hundred BVBians gathered for the first time. USA BVB alumni presented a memento to Prof.B.L.Desai with following words.

“Thank you for inspiring the engineer in us”



## 2018 INSZoom - BVB KLE Tech Hackathon

conducted by the BVB Alumni Association in the United States. We brought over 100 students and alumni in India and U.S. to create solutions for the immigration industry. Participants were asked to build solutions for challenges of Online Document Management, Online PDF Management, Web Scraping and Address Intellisense for enhancing the online immigration case management experiences for our customers offline.



U.S. Hackathon Participants pose with INSZoom CEO – Umesh Vaidyamath and the organizing committee



## KLE Tech Executive Leadership Team

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Dr. Ashok Shettar  
Vice Chancellor



Prof. B. L. Desai  
Registrar



Dr. P. G. Tewari  
Dean- Academics



Dr. B. B. Kotturshettar  
Dean- Planning & Development



Dr. Uma Mudenagudi  
Dean- Research & Development



Prof Gopal Joshi  
Dean, Curriculum Innovation  
& programme assessment



Prof. S. B. Kurubar  
Dean- Examinations



Dr. Anil Nandi  
Controller of Examinations



Dr. Sanjay Kotabagi  
Dean- Student Welfare

## Heads of Schools / Departments

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Dr. B. B. Kotturshettar  
Mechanical



Dr. Nalini Iyer  
Electronics &  
Communication



Dr. Meena M  
Computer Science



Dr. S. S. Quadri  
Civil



Dr. A. B. Raju  
Electrical & Electronics



Prof. A. C. Giryapur  
Automation & Robotics



Prof. Uday Muddapur  
Biotechnology



Prof. Gururaj Joshi  
Architecture



Prof. P. R. Patil  
Master of Computer  
Applications



Prof. S. V. Patil  
Master of Business  
Administration



Prof. Sanjay Kotabagi  
Humanity



Prof. T. V. Swamy  
First Year

## Center Heads

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Prof. Nitin Kulkarni  
Director, KLE CTIE



Prof. Gopal Joshi  
Director, CEER



Dr. Satyadhyan Chickerur  
Coordinator, CIAP



Prof. C. D. Kerure  
Placement Officer



Prof. Parikshit Hegde  
Head, Infocell



Dr. M. R. Patil  
Head, C & M Cell

# Campus Snapshots





Annual Report 2017-18

## KLE Technological University

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