



Sri

**SAIRAM**  
COLLEGE OF ENGINEERING  
Anekal, Bengaluru

ISO 9001:2015 certified Institution  
Approved by AICTE, New Delhi  
Affiliated to Visvesvaraya Technological University  
[www.sairamce.edu.in](http://www.sairamce.edu.in)

## **Internal Quality Assurance System**

**6.5.5**

***Incremental improvements made  
during the preceding five years***



## Governance, Leadership and Management

Incremental improvements made during the preceding five years

SLNO	Contents
1	Results incremental improvements
2	Innovation and Entrepreneurship Development Center
3	Total Quality Management
4	Research & Development Cell
5	Edumate Implementation
6	e-Shikshana (E-Learning Platform)
7	International conferences/Seminars/Workshops
8	Internal Quality Assurance Cell
9	Solar Energy Plant
10	Center of Excellence
11	Students Club Formation
12	Audio-Visual Hall
13	RO-Water plantation
14	Sri LeoMuthu Innovation Center
15	VLCI Lab Inauguration
16	Digital Library
17	Basic Electrical Lab
18	CCTV





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# Results

## For the years

### 2013-2018





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## Consolidated result Analysis

### Academic Year 2018-19 Semester wise -Result Analysis

ODD SEM DEPT	I SEM		III SEM		V SEM		VII SEM		COLLEGE PASS %	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass		
CSE	98	53	90	52	102	82	76	69	366/256	69.94
ECE	46	14	49	23	79	67	57	46	231/150	64.93
EE	16	6	28	17	23	21	15	15	82/59	71.95
MECH	24	11	54	25	72	43	64	64	214/143	66.82
<b>TOTAL</b>	<b>184</b>	<b>84</b>	<b>221</b>	<b>117</b>	<b>276</b>	<b>213</b>	<b>212</b>	<b>194</b>	<b>893/608</b>	<b>68.08</b>

EVEN SEM DEPT	II SEM		IV SEM		VI SEM		VIII SEM		COLLEGE PASS %	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass		
CSE	97	61	88	67	100	93	76	75	361/296	81.99
ECE	43	18	48	30	78	58	57	56	226/162	71.68
EE	14	7	28	14	23	17	15	15	80/53	66.25
MECH	21	10	54	21	71	46	64	63	210/140	66.66
<b>TOTAL</b>	<b>175</b>	<b>96</b>	<b>218</b>	<b>132</b>	<b>272</b>	<b>214</b>	<b>212</b>	<b>209</b>	<b>877/651</b>	<b>74.23</b>





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## Consolidated result Analysis

### Academic Year 2017-18 Semester wise -Result Analysis

ODD SEM DEPT	I SEM		III SEM		V SEM		VII SEM		COLLEGE PASS %	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass		
CSE	97	70	106	60	77	56	73	63	353/249	70.53
ECE	56	42	87	56	57	56	69	60	269/214	79.55
EE	32	23	21	7	16	14	14	13	083/057	68.67
MECH	59	24	75	30	67	44	101	84	302/182	60.26
TOTAL	244	159	289	153	217	170	257	220	1007/702	69.71

EVEN SEM DEPT	II SEM		IV SEM		VI SEM		VIII SEM		COLLEGE PASS %	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass		
CSE	95	73	106	66	77	71	76	69	354/279	78.81
ECE	51	45	85	43	57	50	73	71	266/209	78.57
EE	31	17	21	18	16	14	16	15	84/64	76.19
MECH	57	28	74	24	67	36	104	103	302/191	63.24
TOTAL	234	163	286	151	217	171	269	258	1006/743	73.85





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## Consolidated result Analysis

### Academic Year 2016-17 Semester wise -Result Analysis

ODD SEM DEPT	I SEM		III SEM		V SEM		VII SEM		COLLEGE PASS %	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass		
CSE	110	63	84	60	70	53	54	41	318/217	68.23
ECE	95	67	68	41	62	44	75	63	300/215	71.66
EE	24	17	24	10	17	11	13	11	78/49	62.82
MECH	93	36	100	12	101	64	133	113	427/225	52.69
<b>TOTAL</b>	<b>322</b>	<b>183</b>	<b>276</b>	<b>123</b>	<b>250</b>	<b>172</b>	<b>275</b>	<b>228</b>	<b>1123/706</b>	<b>62.86</b>

EVEN SEM DEPT	II SEM		IV SEM		VI SEM		VIII SEM		COLLEGE PASS %	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass		
CSE	108	70	84	66	70	60	54	49	316/245	77.53
ECE	89	58	67	42	62	48	75	75	293/223	76.10
EE	24	13	24	15	16	12	13	11	77/51	66.23
MECH	86	32	99	30	100	69	132	129	417/260	62.35
<b>TOTAL</b>	<b>307</b>	<b>173</b>	<b>274</b>	<b>153</b>	<b>248</b>	<b>189</b>	<b>274</b>	<b>264</b>	<b>1103/779</b>	<b>70.62</b>





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Anekal, Bengaluru

## Consolidated result Analysis

### Academic Year 2015-16 Semester wise -Result Analysis

ODD SEM DEPT	I SEM		III SEM		V SEM		VII SEM		COLLEGE PASS %	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass		
CSE	96	61	88	59	53	43	72	64	309/227	73.46
ECE	71	46	69	26	74	59	71	63	285/194	68.07
EE	21	12	19	11	16	6	7	7	63/36	57.14
MECH	106	58	115	55	132	48	95	83	448/244	54.46
<b>TOTAL</b>	<b>294</b>	<b>177</b>	<b>291</b>	<b>151</b>	<b>275</b>	<b>156</b>	<b>245</b>	<b>217</b>	<b>1105/701</b>	<b>63.43</b>

EVEN SEM DEPT	II SEM		IV SEM		VI SEM		VIII SEM		COLLEGE PASS %	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass		
CSE	95	64	86	62	52	45	72	72	305/243	79.67
ECE	69	55	68	43	74	56	71	68	282/222	78.72
EE	21	14	19	7	16	14	7	6	63/41	65.07
MECH	102	57	116	52	131	59	95	92	444/260	58.55
<b>TOTAL</b>	<b>287</b>	<b>190</b>	<b>289</b>	<b>164</b>	<b>273</b>	<b>174</b>	<b>245</b>	<b>238</b>	<b>1094/766</b>	<b>70.01</b>





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## Consolidated result Analysis

### Academic Year 2014-15 Semester wise -Result Analysis

ODD SEM DEPT	I SEM		III SEM		V SEM		VII SEM		COLLEGE PASS %	
	ADMISSION	PASS	ADMISSION	PASS	ADMISSION	PASS	ADMISSION	PASS		
CSE	95	30	53	33	80	55	69	60	297/178	59.93
ECE	79	32	85	42	76	60	74	69	314/203	64.64
EE	20	9	17	1	6	5	22	19	65/34	52.30
MECH	123	40	143	45	106	41	80	60	452/186	41.15
TOTAL	317	111	298	121	268	161	245	208	1128/601	53.28

EVEN SEM DEPT	II SEM		IV SEM		VI SEM		VIII SEM		COLLEGE PASS %	
	ADMISSION	PASS	ADMISSION	PASS	ADMISSION	PASS	ADMISSION	PASS		
CSE	90	53	50	37	80	61	68	67	288/218	75.69
ECE	75	42	83	32	76	29	74	72	308/175	56.81
EE	19	10	17	2	6	6	22	22	64/40	62.50
MECH	118	48	141	87	106	51	80	78	445/264	59.32
TOTAL	302	153	291	158	268	147	244	239	1105/697	63.07





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Anekal, Bengaluru

## Consolidated result Analysis

### Academic Year 2013-14 Semester wise -Result Analysis

ODD SEM DEPT	I SEM		III SEM		V SEM		VII SEM		COLLEGE PASS %	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass		
CSE	56	34	89	54	63	51	83	70	291/209	71.82
ECE	82	56	88	36	73	55	104	80	347/227	65.41
EE	12	6	9	6	23	10	40	34	84/56	66.66
MECH	131	71	120	53	82	41	98	76	431/241	55.91
TOTAL	281	167	306	149	241	157	325	260	1153/733	63.57

EVEN SEM DEPT	II SEM		IV SEM		VI SEM		VIII SEM		COLLEGE PASS %	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass		
CSE	56	45	88	56	62	56	83	82	289/239	82.69
ECE	82	69	86	62	73	51	104	100	345/282	81.73
EE	12	9	9	5	23	21	40	40	84/75	89.28
MECH	131	95	120	67	81	38	98	94	430/294	68.37
TOTAL	281	218	303	190	239	166	325	316	1148/890	77.52





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# **Innovation and Entrepreneurship Development Center.**

## **Projects Undertaken from 2013-2018**



11/04/2013-NEB (C)  
Government of India  
Ministry of Science & Technology  
Department of Science & Technology

Technology Bhawan,  
New Mehrauli Road,  
New Delhi 110 016.  
10/07/2013

ORDER

Sub: Establishment of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College, Sai Leo nagar, Samandhur(P), Anekal, Bangalore 560 106 during 2013-14.

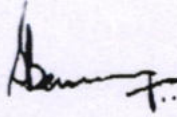
Sanction of the President is accorded for the establishment of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College, Sai Leo nagar, Samandhur(P), Anekal, Bangalore 560 106 at a total cost of Rs 13,30,000/- (Rupees thirteen lakhs thirty thousand only). Sanction of the President is also accorded for the release of an amount of Rs 530,000/- ( Rupees Five lakh thirty thousand only) as one time non-recurring (capital) grants. The recurring financial assistance to the IEDC from this Department would be available for a maximum period of five years. However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.

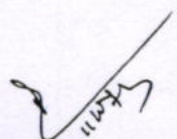
2. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.

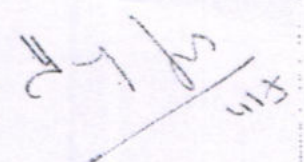
3. The coordinator should undergo Faculty Development Programmes (FDP) as early as possible, which are sponsored by the Department and other agencies for developing trainers in entrepreneurship area.

4. The manpower employed in the IEDC project would be co-terminus with the duration of the IEDC project and the Department(DST) would have no liability to meet the manpower costs beyond the duration of the project (Vide Order No. A-20020/11/97 IFD dt.16.8.2002). In order to ensure this, IEDC is advised to enter into yearly contract with the persons to be employed under the project.

5. The host institution should also appoint an Advisory Board to be headed by the Principal/Head of the institution to monitor the progress of implementation of the IEDC project and its activities. This Board may advice the host Institute for raising funds from other sources for the IEDC for its activities.









6. The Drawing & Disbursing Officer, Department of Science & Technology, shall arrange to release an amount of Rs. 530,000/- (Rupees five lakhs thirty thousand only) to Shirdi Sai Engineering College, Sai Leo nagar, Samandhur(P), Anekal, Bangalore 560 106 by means of RTGS as per the following details given below -

Name of the Account Holder	Shirdi Sai Engineering College
Name of the Bank	Central Bank of India
Branch Address	Jayanagar Extension Branch 547, New 50/4 & 5, ACH Layout RV road, II Block Jayanagar, Basavangudi Post, Bangalore - 560004
IFSC code	CBIN0281658
Account No.	3261705376
MICR Code	560016020

7. The sanction of this grant is subjected to the terms and condition mentioned in the Annexure.

8. The expenditure is debitible to Demand No. 85-Department of Science & Technology (DST) for the year 2013-14 (Plan):-

- 3425 Other Scientific Research (Major Head)
- 60 Other (Sub Major Head)
- 60.200 Assistance to Other Scientific Bodies (Minor Head)
- 08 Grants-in-aid for S&T programmes for Socio-economic Development
- 08.10 Science & Technology Entrepreneurship Development activities
- 08.10.35 Grants for creation of capital assets

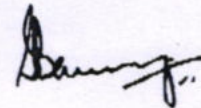
9. The grantee should submit a six monthly progress report of activities of IEDC to the Department.

10. The grantee will submit the Utilization Certificate and the Statement of Audited expenditure as per the enclosed format of the department after the end of the current F.Y. They may also forward the budget for the next F.Y. along with it after the approval of the competent authority/monitoring committee.

11. As per Rule 211(1) of GFRs, the accounts of all grantee institutions shall be open to inspection by the sanctioning authority audit whenever the institution is called upon to do so.

12. This issues with the approval of Integrated Finance Division, Department of Science & Technology vide their sanction no.100/IFD/2413/2013-14 dated 10/07/2013.

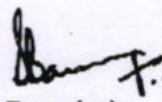
13. The sanction order has been entered in the sanction order register as per GFR-39 at Sl.No. of the register.





14. "The Institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant".

15. It is certified that no UC is pending from the grantee in regards to the grants-in-aid released under the programme.

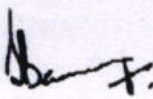
  
(Sujit Banerjee)  
Scientist F

To,

The Pay & Accounts Officer  
Department of Science & Technology  
New Delhi.

Copy to:

1. Dr TV Govindraju,  
Principal,  
Shirdi Sai Engineering College,  
Sai Leo nagar,  
Samandhur(P), Anekal,  
Bangalore 560 106
2. Office of the Principal Director & Audit, AGCR Building, III Floor, I.P. Estate,  
New Delhi-110002.
3. Office of the Accountant General, Karnataka
4. Head (NEB)/Sanction Folder
5. Cash Section/IFD/Accounts Section

  
(Sujit Banerjee)  
Scientist F



11/04/2013-NEB(G)  
Government of India  
Ministry of Science & Technology  
Department of Science & Technology

Technology Bhawan,  
New Mehrauli Road,  
New Delhi 110 016.  
12.07.2013

ORDER

Sub: Establishment of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College, Bangalore during 2013-14.

Sanction of the President is accorded for the establishment of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College, Bangalore at a total cost of Rs 13,30,000/- ( Rupees thirteen lakhs thirty thousand only). The financial assistance to the IEDC from this Department would be available for a maximum period of five years. However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.

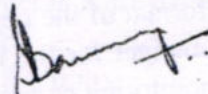
2. Sanction of the President is also accorded for the release of grants- in- aid of Rs 800,000/- (Rupees eight lakh only) as the recurring expenditure for the first year of operation of IEDC to Shirdi Sai Engineering College, Bangalore.

3. Head wise break -up of the approved budget is shown below:

Sl No	Items of expenditure	Amount Rs
	Recurring	
1	Student projects (five Nos @ Rs 1.00 lakhs each)	5,00,000
2	Contingencies (phone fax stationery travel and honorarium to the Co-ordinator of IEDC etc)	3,00,000
	Total	8,00,000

4. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.

5. The coordinator should undergo Faculty Development Programmes (FDP) as early as possible, which are sponsored by the Department and other agencies for developing trainers in entrepreneurship area.





11/04/2013-NEB (C)  
Government of India  
Ministry of Science & Technology  
Department of Science & Technology

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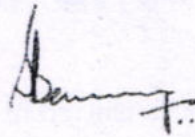
12/07/2013

ORDER

Sub: Establishment of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College, Sai Leo nagar, Samandhur(P), Anekal, Bangalore 560 106 during 2013-14.

Sanction of the President is accorded for the establishment of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College, Sai Leo nagar, Samandhur(P), Anekal, Bangalore 560 106 at a total cost of Rs 13,30,000/- (Rupees thirteen lakhs thirty thousand only). Sanction of the President is also accorded for the release of an amount of Rs 530,000/- ( Rupees Five lakh thirty thousand only) as one time non-recurring (capital) grants. The recurring financial assistance to the IEDC from this Department would be available for a maximum period of five years. However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.

2. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.
3. The coordinator should undergo Faculty Development Programmes (FDP) as early as possible, which are sponsored by the Department and other agencies for developing trainers in entrepreneurship area.
4. The manpower employed in the IEDC project would be co-terminus with the duration of the IEDC project and the Department(DST) would have no liability to meet the manpower costs beyond the duration of the project (Vide Order No. A-20020/11/97 IFD dt.16.8.2002). In order to ensure this, IEDC is advised to enter into yearly contract with the persons to be employed under the project.
5. The host institution should also appoint an Advisory Board to be headed by the Principal/Head of the institution to monitor the progress of implementation of the IEDC project and its activities. This Board may advice the host Institute for raising funds from other sources for the IEDC for its activities.

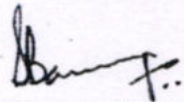


M.R.  
25/7



14. "The Institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant".

15. It is certified that no UC is pending from the grantee in regards to the grants-in-aid released under the programme.

  
(Sujit Banerjee)  
Scientist F

To,

The Pay & Accounts Officer  
Department of Science & Technology  
New Delhi.

Copy to:

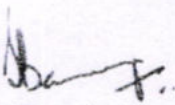
✓ 1. Dr TV Govindraju,  
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Shirdi Sai Engineering College,  
Sai Leo nagar,  
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Bangalore 560 106

2. Office of the Principal Director & Audit, AGCR Building, III Floor, I.P. Estate,  
New Delhi-110002.

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5. Cash Section/IFD/Accounts Section

  
(Sujit Banerjee)  
Scientist F



11/04/2013-NEB  
Government of India  
Ministry of Science & Technology  
Department of Science & Technology

Technology Bhawan,  
New Mehrauli Road,  
New Delhi 110 016.  
Date: 02/12/2014

**ORDER**

**Sub: Continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College- Karnataka during 2014-15.**

In continuation of this Department's sanction order of even no. dated 12/07/2013, sanction of the President is accorded for the continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College, Karnataka at a total cost of Rs.800,000/- ( Rupees eight lakh only). The financial assistance to the IEDC from this Department would be available for a maximum period of five years. **However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.**

2. Sanction of the President is also accorded for the release of grants- in- aid of Rs.764,787/- (Rupees seven lakh sixty four thousand seven hundred eighty seven only) as the recurring expenditure for the 2<sup>nd</sup> year of operation of IEDC to Shirdi Sai Engineering College- Karnataka. Sanction of the President is also accorded for c/f of Rs.35,213/- earned as bank interest.

Sl No	Items of expenditure	Amount Rs
	<b>Recurring</b>	
1	Student projects (five Nos @ Rs 1.00 lakhs each)	500,000
2	Contingencies (phone fax stationery travel and honorarium to the Co-ordinator of IEDC etc)	300,000
	Less bank interest	35,213
	Net release	764,787

3. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.

*[Handwritten signature]*

IEDC - MBG

IEDC - MBG

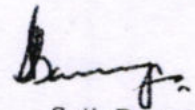
MBG

*[Handwritten signature]*

*[Handwritten signature]*



12. The grantee will submit the Utilization Certificate and the Statement of Audited expenditure as per the enclosed format of the department after the end of the current F.Y. They may also forward the budget for the next F.Y. along with it after the approval of the competent authority/monitoring committee.
13. As per Rule 211(1) of GFRs, the accounts of all grantee institutions shall be open to inspection by the sanctioning authority audit whenever the institution is called upon to do so.
14. This issues with the approval of Integrated Finance Division, Department of Science & Technology vide their sanction no.c/4560/IFD/2014-15 dated 21/11/14.
15. The sanction order has been entered in the sanction order register as per GFR-39-at Sl.No.127 of the register.
16. The institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute be adjusted towards further installment of the grant.
17. It is certified that no UC is pending from the grantee in regards to the grants-in-aid released under the programme.

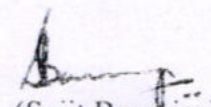
  
Sujit Banerjee  
Scientist F

To,

The Pay & Accounts Officer  
Department of Science & Technology  
New Delhi.

Copy to:

1. Dr. TV Govindraju  
Principal,  
Shiridi Sai Engineering College,  
Sai Leo Nagar, Samandhur(P), Anekal,  
Bangalore - 560 106.
2. Office of the Principal Director & Audit, AGCR Building, III Floor, I.P. Estate, New Delhi-110002.
3. Office of the Accountant General, Karnataka.
4. Head (NEB)/Sanction Folder
5. Cash Section/IFD/Accounts Section

  
(Sujit Banerjee)  
Scientist F



11/04/2013-NEB

Government of India  
Ministry of Science & Technology  
Department of Science & Technology

Technology Bhawan,  
New Mehrauli Road,  
New Delhi 110 016.  
Date: 29/02/2016

**ORDER**

**Sub: Continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College- Karnataka during 2015-16.**

In continuation of this Department's sanction order of even no. dated 02/12/2014, sanction of the President is accorded for the continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College, Karnataka at a total cost of Rs.800,000/- (Rupees eight lakh only). The financial assistance to the IEDC from this Department would be available for a maximum period of five years. **However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.**

2. Sanction of the President is also accorded for the release of grants- in- aid, of Rs.777,051/- (Rupees seven lakh seventy seven thousand fifty one only) as the recurring expenditure for the 3<sup>rd</sup> year of operation of IEDC to Shirdi Sai Engineering College- Karnataka. Sanction of the President is also accorded for c/f of Rs. 22,949/- earned as bank interest.

SI No	Items of expenditure	Amount Rs
	<b>Recurring</b>	
1	Student projects (five Nos @ Rs 1.00 lakhs each)	500,000
2	Contingencies (phone fax stationery travel and honorarium to the Co-ordinator of IEDC etc)	300,000
	Less bank interest	22,949
	Net release	777,051

3. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.

4. The coordinator should undergo Faculty Development Programmes (FDP) as early as possible, which are sponsored by the Department and other agencies for developing trainers in entrepreneurship area.

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*9/3*

*manje*

*Bunif.*

*IEDC*

*Govt*

*copy to S.O*

*copy to H.O with letter  
Amount deposited in IC*

*same*

*g*



5. The manpower employed in the IEDC project would be co-terminus with the duration of the IEDC project and the Department(DST) would have no liability to meet the manpower costs beyond the duration of the project (Vide Order No. A-20020/11/97 IFD dt.16.8.2002). In order to ensure this, IEDC is advised to enter into yearly contract with the persons to be employed under the project.

6. The host institution should also appoint an Advisory Board to be headed by the Principal/Head of the institution to monitor the progress of implementation of the IEDC project and its activities. This Board may advise the host Institute for raising funds from other sources for the IEDC for its activities.

7. The Drawing & Disbursing Officer, Department of Science & Technology, shall arrange to pay an amount of Rs.777,051/- ( Rupees seven lakh seventy seven thousand fifty one only) to Shirdi Sai Engineering College, Sai Leo Nagar, Samandhur(P), nekal, Bangalore 560 106 by means of RTGS as per the details given below :

Name of the account holder	Shirdi Sai Engineering College
Name of the Bank	Central Bank of India
Branch Address	Jayanagar Extension Branch 547, New 50/4 &5, ACH Layout, RV road, II Block Jayanagar, Basavangudi post, Bangalore 560004.
IFSC Code	CBIN0281658
Account No.	3261705376
MICR Code	560016020

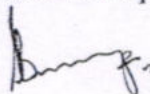
9. The sanction of this grant is subjected to the terms and condition mentioned in the Annexure.

10. The expenditure is debitale to Demand No. 86-Department of Science & Technology (DST) for the year 2015-16 (Plan):-

3425 Other Scientific Research (Major Head)  
60 Other (Sub Major Head)  
60.200 Assistance to Other Scientific Bodies (Minor Head)  
08 Grants-in-aid for S&T programmes for Socio-economic Development  
08.11 Science & Technology Entrepreneurship Development activities  
08.10.31 Grants -in -aid General

11. The grantee should submit a six monthly progress report of activities of IEDC to the Department.

12. The grantee will submit the Utilization Certificate and the Statement of Audited expenditure as per the enclosed format of the department after the end of the current F.Y. They may also forward the budget for the next F.Y. along with it after the approval of the competent authority/monitoring committee.





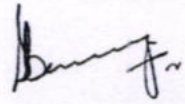
13. As per Rule 211(1) of GFRs, the accounts of all grantee institutions shall be open to inspection by the sanctioning authority audit whenever the institution is called upon to do so.

14. This issues with the approval of Integrated Finance Division, Department of Science & Technology vide their sanction no.c/5474 /IFD/2015-16 dated 22/02/2016.

15. The sanction order has been entered in the sanction order register as per GFR-39 at Sl.No175 of the register.

16. The institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute be adjusted towards further installment of the grant.

17. It is certified that no UC is pending from the grantee in regards to the grants-in-aid released under the programme.



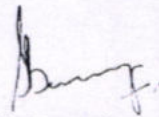
Sujit Banerjee  
Scientist F

To,

The Pay & Accounts Officer  
Department of Science & Technology  
New Delhi.

Copy to:

- ✓ 1. Dr. TV Govindraju  
Principal,  
Shiridi Sai Engineering College,  
Sai Leo Nagar, Samandhur(P), Anekal,  
Bangalore - 560 106.
2. Office of the Principal Director & Audit, AGCR Building, III Floor, I.P. Estate, New Delhi-110002.
3. Office of the Accountant General, Karnataka.
4. Head (NEB)/Sanction Folder
5. Cash Section/IFD/Accounts Section



(Sujit Banerjee)  
Scientist F



11/04/2013-NEB  
Government of India  
Ministry of Science & Technology  
Department of Science & Technology

Technology Bhawan,  
New Mehrauli Road,  
New Delhi 110 016.  
22/2/2017

**ORDER**

**Sub: Continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College Karnataka during 2015-16.**

In continuation of this Department's sanction order of even no. dated 02/12/2014, sanction of the President is accorded for the continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College, Karnataka at a total cost of Rs.800,000/- ( Rupees eight lakh only). The financial assistance to the IEDC from this Department would be available for a maximum period of five years. **However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.**

2. Sanction of the President is also accorded for the release of grants- in- aid of Rs.777,810/- (Rupees Seven lakh seventy seven thousand Eight hundred Ten only) as the recurring expenditure for the 4th year of operation of IEDC to Shirdi Sai Engineering College- Karnataka. Sanction of the President is also accorded for carry forward of Rs. 22,190/- earned as bank interest.

Sl No	Items of expenditure	Amount Rs
	Recurring	
1	Student projects (five Nos @ Rs 1.00 lakhs each)	500,000
2	Contingencies (phone fax stationery travel and honorarium to the Co-ordinator of IEDC etc)	300,000
	Less bank interest	22,190
	Net release	777,810

3. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.

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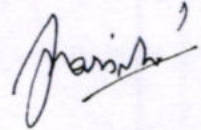
EEE-  
10-3-17

Prankh

22/2/2017



12. The grantee will submit the Utilization Certificate and the Statement of Audited expenditure as per the enclosed format of the department after the end of the current F.Y. They may also forward the budget for the next F.Y. along with it after the approval of the competent authority/monitoring committee.
13. As per Rule 211(1) of GFRs, the accounts of all grantee institutions shall be open to inspection by the sanctioning authority audit whenever the institution is called upon to do so.
14. This issues with the approval of Integrated Finance Division, Department of Science & Technology vide their sanction no.c/ 5748/IFD/2015-16 dated 22/02/2017.
15. The sanction order has been entered in the sanction order register as per GFR-39 at Sl. No. 191 of the register.
16. The institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute be adjusted towards further installment of the grant.
17. It is certified that no UC is pending from the grantee in regards to the grants-in-aid released under the programme.



(Naveen Vasishta)  
Scientist E

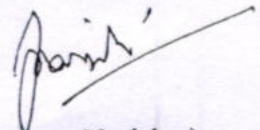
To,

The Pay & Accounts Officer  
Department of Science & Technology  
New Delhi.

Copy to:

✓ 1. Dr. TV Govindraju  
Principal,  
Shiridi Sai Engineering College,  
Sai Leo Nagar, Samandhur(P), Anekal,  
Bangalore - 560 106.

2. Office of the Principal Director & Audit, AGCR Building, III Floor, I.P. Estate, New Delhi-110002.
3. Office of the Accountant General, Karnataka.
4. Head (NEB)/Sanction Folder
5. Cash Section/IFD/Accounts Section



(Naveen Vasishta)  
Scientist E



File No. 11/04/2013-NEB  
Government of India  
Ministry of Science & Technology  
Department of Science & Technology

Technology Bhawan,  
New Mehrauli Road,  
New Delhi 110016

Dated 14/09/2018

ORDER

**Sub: Continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at Shirdi Sai Engineering College, Sai Leo nagar, Samandhur(P), Anekal, Bangalore 560106 during 2018-19. 5th year operations.**

1. In continuation of this Department's sanction order of even no. dated 22/02/2017, sanction of the President is accorded for the continuation of an Innovation and Entrepreneurship Development Centre (IEDC) at **Shirdi Sai Engineering College, Sai Leo nagar, Samandhur(P), Anekal, Bangalore** at a total cost of Rs.800,000/- (Rupees eight lakh only). The financial assistance to the IEDC from this Department would be available for a maximum period of five years. However, the quantum of assistance and its continuation would be on yearly basis subject to the review of the performance of IEDC by the Department.
2. Sanction of the President is also accorded for the release of grants- in- aid of Rs 8,00,000/- (Rupees eight Lakh only) as the recurring expenditure for the first year of operation of IEDC to **Shirdi Sai Engineering College, Sai Leo nagar, Samandhur(P), Anekal, Bangalore**
3. Head wise break -up of the approved budget is shown below:

Sl No	Items of expenditure	Amount Rs
	Recurring	
1	Student projects (five Nos @ Rs 1.00 Lakhs each)	5,00,000
2	Contingencies (phone fax stationery travel and honorarium to the coordinator of IEDC etc)	3,00,000
3	Total Budget	8,00,000
4.	Amount released	7,50,000

4. The host Institute would appoint a Co-ordination of IEDC immediately to oversee the operations of the IEDC on day to day basis.
5. The coordinator should undergo Faculty Development Programmes (FDP) as early as possible, which is sponsored by the Department and other agencies for developing trainers in entrepreneurship area.

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## Progress Report- IEDC-2013-16

<b>Name of the College/Institution</b>	Shirdi Sai Engineering College		
<b>Year of starting of project</b>	2013		
<b>Name of the Head/Principal of the Institution/College</b>	Dr. Y Vijayakumar Principal Shirdi Sai Engineering College		
<b>Name of IEDC Coordinator</b>	Prof.Malini.K.V HOD,EEE IEDC Co-ordinator Shirdi Sai Engineering College		
<b>Contact Details of IEDC Coordinator</b>	Shirdi Sai Engineering College, Sai Leo Nagar, Anekal, Bangalore		
<b>Mobile Number</b>	+91-9972992170		
<b>e-Mail ID</b>	iedc@sairamce.edu.in malini.eec@sairamce.edu.in		
<b>Financial Details</b>	1.	2013-14	Rs.8,00,000.00+5,30,000.00 =13,30,000.00
	2.	2014-15	Rs.7,64,787.00
	3.	2015-16	Rs. 7,77,051.00
<b>Previous Sanction Orders details</b>	<b>Sanction Order No.</b>		<b>Sanction Order Date with Amount</b>
	1.	11-04-2013 NEB ©	10-07-2013 Rs.8,00,000.00 Rs.5,30,000.00
	2.	11-04-2013 NEB (G)	02-12-2014 Rs.7,64,787.00
	3.	11-04-2013 NEB (G)	29-02-2016 Rs. 7,77,051.00



g



Technical Outcome year wise 2013-14		
Title of the project	Outcome in terms of product/process development	Current Status Patent filed if any, Socially/Economically Relevance
1	ANDROID BASED INTEGRATED INDOOR NAVIGATION SYSTEM FOR VISUALLY IMPAIRED PEOPLE.	Product Modelled Patent not filed Under Incubation-Socially Relevant
2	SENSOR TO DETECT AIR QUALITY IN LMVS.	Product Modelled Patent not filed Under Incubation-Socially Relevant
3	TEAM (TECHNOLOGY FOR ELECTRICAL MANAGEMENT IN AUTOMOBILES)	Product Modelled Patent not filed Under Incubation-Socially Relevant
4	SMART HEATING USING A REFRIGERATOR	Product Modelled Patent not filed Under Incubation-Economically Relevance
5	MAGICO RULLSTOL	Product Modelled Patent not filed Under Incubation-Socially Relevant





Technical Outcome Year wise 2014-15			
Title of the project	Outcome in terms of product/process development	Current Status Patent filled if any, Socially/Economically Relevance	
1	SUVIDHAN-THE KIOSK FOOD DISTRIBUTION FOR THE COMMON MAN	Product Modelled	Patent not filed Under Incubation –Socially Relevant
2	FU-SURE INSTRO	Product Modelled	Patent not filed Under Incubation- Economically Relevance
3	BEAP – BRAIN CONTROLLED ELECTRIC DEVICE AUTOMATION FOR PARA HELP	Product Modelled – Enquiry from Healthcare Sector – FORTIS GROUP	Patent not filed Under Incubation–Socially Relevant
4	PIRACY COP – FILM PIRACY AVOIDANCE USING INFRARED TECHNOLOGY	Product Modelled	Patent not filed Under Incubation -Economically Relevance
5	I – GLOVE- A VIRTUAL TECHNOLOGY PLATFORM FOR THE AID OF SPECIAL NEEDS PEOPLE	Product Modelled – Enquiry From Speech and hearing Institute, Mysore	Patent not filed Under Incubation–Socially Relevant



3



Technical Outcome year wise 2015-16		
Title of the project	Outcome in terms of product/process development	Current Status Patent filled if any, Socially/Economically Relevance
1	VIRTUALCONTROLLER	Product Modelled Patent not filed Under Incubation-Social Relevance
2	KRUSHI RAKSHAK: A FIELD GUARD FARMERS FRIEND	Product Modelled – Enquiry from NABARD for Rural Distribution Patent not filed Under Incubation-Social Relevance
3	BOREWELL CHILD RESCUE ROBOT SYSTEM	Product Modelled- Filed under IBR (Indian Book of Records) Patent not filed Under Incubation-Social Relevance
4	WIRELESS CHARGING OF MOBILE PHONES USING MICROWAVES	Product Modelled Patent not filed Under Incubation Economically Relevance
5	VOV FIERO- A FIRE FIGHTING ROBO	Product Modelled- Public Transportation Department Enquiry Patent not filed Under Incubation-Social Relevance

Kindly send the scanned copy of the filled form to [nvasishta@nic.in](mailto:nvasishta@nic.in), mentioning 'IEDC-  
your college name' on subject line.

malini k v 13/11/17  
Prof. Malini K V  
HOD Dept. of EEE  
IEDC Coordinator

**IEDC**  
Shirdi Sai Engineering College  
Anekal, Bangalore -562 106.

Dr. Y Vijayakumar  
Principal

**PRINCIPAL**  
SHIRDI SAI ENGG. COLLEGE  
Sai Leo Nagar, Samandhur Post,  
ANEKAL Tk., BANGALORE - 562 106.



## EXECUTIVE SUMMARY:

### IEDC PROJECTS 2013-14

1. **I-NAV (Android based Indoor Navigation system for Visually impaired)**  
CSE Dept.
2. **COD-The detector (System to detect Air quality in Light motor Vehicles)**  
ECE Dept.
3. **Team- (Technology for Electrical Management in Automobiles)**  
ECE Dept.
4. **SHUR- (The smart heating system using Refrigerator)**  
EEE Dept
5. **Magico Rullstol - (A magical Wheelchair for Physically challenged)**  
EEE Dept



correspond to real-world actions, like swiping, tapping, pinching, and reverse pinching to manipulate on-screen objects, and a virtual keyboard.

Applications ("apps"), that extend the functionality of devices, are developed primarily in the Java programming language using the Android software development kit (SDK).

The NetBeans IDE is written in Java and can run on Windows, OS X, Linux, Solaris and other platforms supporting a compatible JVM.

Keil development tools are used by a wide range of developers building software applications for end products targeting diverse vertical markets such as Aerospace, Banking, Healthcare, Automotive, Transportation, Manufacturing, Consumer, Military and Telecommunications.

The purpose of integration testing is to verify functional, performance, and reliability requirements placed on major design items. These "design items", i.e. assemblages, are exercised through their interfaces using Black box testing, success and error cases being simulated via appropriate parameter and data inputs.

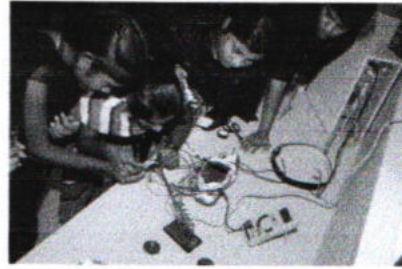
Testing of the debugging programs is one of the most critical aspects of the computer programming triggers, without programs that works, the system would never produce the output for which it was designed.

Verification and Validation are independent procedures that are used together for checking that a product, service, or system meets requirements and specifications and that it fulfills its intended purpose. These are critical components of a quality management system such as ISO 9000.

Software developers often distinguish acceptance testing by the system provider from acceptance testing by the customer (the user or client) prior to accepting transfer of ownership. The acceptance test script to direct the testers. Then the results obtained are compared with the expected results. If there is a correct match for every case, the test suite is said to pass. If not, the system may either be rejected or accepted on conditions previously agreed between the sponsor and the manufacturer.

This project presented the prototype of a micro-navigation system that helps the visually impaired to ambulate within indoor environments. The system uses few components and accessible technology. The results of the preliminary tests show that the solution is useful and usable to guide the user in indoor environments. However, it is important to continue testing the solution in real environments, involving visually impaired people to obtain feedback that allows us to improve the proposal in the right direction.





**Project Team:**

**Shantini G**

**(1SB10CS076)**

**Shivaranjani S**

**(1SB10CS080)**

**Saranya G**

**(1SB10CS074)**

**Veena V**

**(1SB10CS077)**

**CSE Department.**

**Project Mentor**

**Dr. B. Shadaksharappa**

**CSE Department.**

**2013-14**



I E D C P R O J E C T S 2 0 1 4 -  
1 5

1. SUVIDHAN-THE KIOSK FOOD DISTRIBUTION FOR THE  
COMMON MAN
2. FU-SURE INSTRO
3. BEAP – BRAIN CONTROLLED ELECTRIC DEVICE  
AUTOMATION FOR PARA HELP
4. PIRACY COP – FILM PIRACY AVOIDANCE USING INFRARED  
TECHNOLOGY
5. I – GLOVE- A VIRTUAL TECHNOLOGY PLATFORM FOR THE  
AID OF SPECIAL NEEDS PEOPLE



#### 4. PIRACY COP – FILM PIRACY AVOIDANCE USING



Exempting film piracy is one of the toughest tasks in today's world. People sell the pirated DVD'S in local market after recording the movie in theatres by using any kind of digital devices. During recent years, a few countries have put in place online antipiracy laws and there have been some major enforcement actions against violators. This raises the question that to what extent antipiracy actions have been effective in deterring online piracy? This is a challenging issue to explore because of the difficulty to capture user behavior, and to identify the subtle effect of various underlying (and potentially opposing) causes. In this system, we tackle this question by examining the impact of two major antipiracy actions. Our project helps in avoiding film piracy when recording does in theatres. It will avoid recording when people tried to record video in theatres. We use infrared technology to overcome this problem. Infrared rays are invisible to naked eyes but visible in any of the digital cameras. When people try to record the movie, infrared rays will block recordings. It will be recorded along with a mesh but it will be visible as a movie being recorded for naked eyes. Device will be



turned on automatically when the film starts and password will be provided to the system to restrict the unauthorized access.

Project Team:					Project Mentor
Student Name	Mr. SRIDHAR R	Mr. ARUN L	Ms. SHUBHA V	Ms. PRATHIMA G	Dr. B. SHADAKSHARAPPA
USN	1SB11CS053	1SB11CS007	1SB11CS047	1SB11CS016	CSE Department.

CSE Department.

2014-15



# Innovation Entrepreneurship Development centre

(IEDC)

## INDEX

1. IEDC Activities 2015-16
2. Executive Summary
3. IEDC Moments 2015-16



SHIRDI SAI ENGINEERING COLLEGE  
Anekal, Bangalore- 562 106.



EXECUTIVE SUMMARY :

IEDC PROJECTS 2015 - 16

1. VIRTUALCONTROLLER - SEE THE WORLD IN A DIFFERENT  
WAY
2. KRUSHI RAKSHAK : A FIELD GUARD FARMERS FRIEND
3. BOREWELL CHILD RESCUE ROBOT SYSTEM- LIFE IS  
PRECIOUS
4. WIRELESS CHARGING OF MOBILE PHONES USING  
MICROWAVES- A SMART CHARGING SYSTEM
5. VOV FIERO- A FIRE FIGHTING ROBO



## 1. VIRTUALCONTROLLER - SEE THE WORLD IN A DIFFERENT WAY



Brain computer interface is a system that allows direct communication between a computer and a human brain, bypassing the body's normal neuromuscular pathways. Instead of depending on peripheral nerves and muscles, a Brain computer interface directly measures brain activity associated with the user's intent and translates the recorded brain activity into corresponding control signals for certain applications. The signals recorded by the system are processed and classified to recognize the intent of the user. Though the main application for Intellectual controller is in rehabilitation of disabled people, they are increasingly being used in other application scenarios as well. One such application is physically disabled person can able to control the home appliances (i,e home automation) and can access of computer.

Independent mobility is core to being able to perform activities of daily living by oneself. Millions of physically challenged people are their around of us, for some people they can manage the things without getting third person help and there are some people for those people third person is necessary to complete the work. Here our aim is to reduce getting third person help to complete the desired work.

In this project we have developed a cost effective VIRTUAL CONTROLLER that will help the physically challenged to lead an independent life with the help of their brain signals using non-invasive techniques.

In order to make disabled person's life more independent and easier and to provide cost effective product, this project mainly consists of parts namely Mind wave device with EEG sensors, Raspberry Pi2 with Zig-bee Module, Relay Board, Application. The above all the devices are divided into three different modules as mind wave, raspberry pi, application. These modules explains the workflow of the whole system The System design transforms a logical representation





*Sri*

**SAIRAM**

**COLLEGE OF ENGINEERING**

Anekal, Bengaluru

ISO 9001:2015 certified Institution

Approved by AICTE, New Delhi

Affiliated to Visvesvaraya Technological University

[www.sairamce.edu.in](http://www.sairamce.edu.in)

# **Total Quality Management (TQM)**

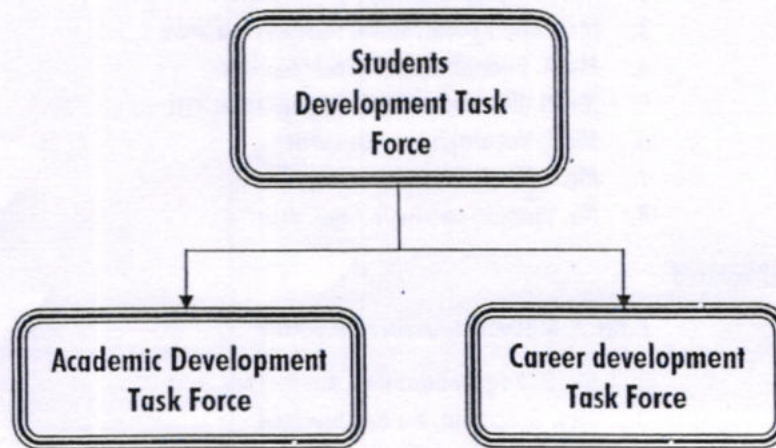




# SHIRDI SAI ENGINEERING COLLEGE

Sai Leo Nagar, Guddanahalli (Post), Anekal, Bangalore 562 106

## TQM Practices



### Student Development Task Force:

Head - Prof. C. Sivaprakash, Asst. Professor & Head / Dept. of ECE

#### 1. Academic Development Task Force

- Head - 1. Prof. C. Sivaprakash, Asst. Professor & Head / Dept. of ECE
- Members -
2. Ms. G. Manjula, Asst. Professor & Head / Dept. of CSE
  3. Ms. Sharon Roji Priya, Lecturer / Dept. of CSE
  4. Ms. A. Poonguzhali, Asst. Professor / Dept. of ECE
  5. Mr. H.R. Halesha, Asst. Professor / Dept. of ECE
  6. Mr. Ravi V. Angadi, Lecturer / Dept. of EEE
  7. Ms. K.V. Malini, Sr. Lecturer / Dept. of EEE
  8. Mr. B. S. Yogananda, Asst. Professor / Dept. of MECH
  9. Mr. V. Balaji, Lecturer / Dept. of MECH
  10. Ms. M. Manjula, Lecturer / Dept. of S&H
  11. Ms. Sailasree, Asst. Professor / Dept. of S&H
  12. Ms. P. Gangavathi, Asst. Professor / Dept. of S&H
  13. Mr. Manjunatha. K. N., Asst. Professor / Dept. of MBA
  14. Ms. Dhanya, Lecturer, Dept. of CSE / SSPUC
  15. Ms. Lakshmi, Lecturer, Dept. of ECON / SSPUC





# SHIRDI SAI ENGINEERING COLLEGE

Sai Leo Nagar, Guddanahalli (Post), Anekal, Bangalore 562 106

## TQM Practices

### Implementation Team

#### TQM CULTURE CREATORS (TQMCC): Implementation Team

Head - 1. Dr. B. Shadaksharappa, Professor & Head, Dept. of CSE / Vice Principal, SSEC

#### Members -

2. Mr. C. Sivaprakash, Asst. Prof & Head, Dept. of ECE
3. Ms. R. Gunasekhari, Asst. Prof & Head, Dept. of EEE
4. Mr. K. N. Shashisekhar, Asst. Prof & Head, Dept. of MECH
5. Mr. Bhemeswara Reddy, Asst. Prof & Head, Dept. of MBA
6. Dr. R. Murugesan, Associate Professor & Head, Dept. of S&H
7. Mr. V. Prakash, Asst. Prof, Dept. of S&H
8. Dr. Hanumappa. H, Asst. Prof, Dept. of S&H
9. Ms. Komala, Principal, SSPUC
10. Mr. Anandaraj. K, Lecturer, SSPUC
11. Mr. Shivananda, Lecturer, SSPUC
12. Mr. Manjunatha. K. N, Physical Education Director
13. Ms. Rathna.P, Librarian, Dept. of Library
14. Mr. ShivaShakthi Balan. K, Asst. Prof, Dept. of MECH
15. Mr. Prabhakar. K, EO / Dept. of Stores
16. Mr. Annamalai. V, OS / Dept. of Admin Office
17. Mr. Madhusudhan Reddy. K, Accountant / Dept. of Admin Office
18. Mr. Raghavendra rao B K, Asst. Prof, Dept. of CSE
19. Ms. Manjula G, Asst. Prof, Dept. of CSE
20. Ms. Kalamani P, Asst. Prof, Dept. of CSE
21. Ms. Vijayalakshmi R, Asst. Prof, Dept. of CSE
22. Ms. Deepa R, Asst. Prof, Dept. of ECE
23. Mr. Raja G.V, Asst. Prof, Dept. of ECE
24. Ms. Dhanya G.S, Asst. Prof, Dept. of ECE
25. Ms. A. Poonguzhali, Asst. Prof, Dept. of ECE
26. Mr. Ravi V. Angadi, Lecturer, Dept. of EEE
27. Ms. Ramya. K, Asst. Prof, Dept. of EEE
28. Mr. Vignesh. R, Lecturer, Dept. of EEE
29. Mr. Sridhar. S. R, Professor, Dept. of MECH
30. Mr. Venkataraju. S, Sr. Lecturer, Dept. of MECH
31. Mr. Saravanakumar. R, Asst. Prof, Dept. of MECH
32. Mr. Vijai. R, Asst. Prof, Dept. of MECH
33. Ms. Sailashree, Asst. Prof, Dept. of MECH
34. Mr. Harikrishna. S, Asst. Prof, Dept. of S&H
35. Mr. Luther benny. P, Asst. Prof, Dept. of S&H
36. Ms. S. Manjula, Asst. Prof, Dept. of S&H
37. Ms. M. Manjula, Lecturer, Dept. of S&H
38. Ms. B. Jyothi, Asst. Prof, Dept. of S&H
39. Mr. Magesh. K, System Admin, Dept. of CSE
40. Mr. Padmakumar. R, System Admin, Dept. of CSE
41. Mr. Swamy S.C., Lab Asst., Dept. of CSE
42. Mr. Ramesh A, Foramen, Dept. of ECE
43. Mr. Shivaraju A.N, Lab.Asst, Dept. of ECE
44. Mr. Raghunath. D, Lab. Instructor, Dept. of ECE
45. Mr. Chandra Mohan. M, Asst. Lab Inst, Dept. of EEE
46. Mr. Ranjithkumar, Lab. Asst, Dept. of EEE
47. Mr. Badarinarayan. M .S, Lab. Asst, Dept. of MECH
48. Mr. Venkatswamy Reddy, Instructor, Dept. of MECH





# SHIRDI SAI ENGINEERING COLLEGE

Sai Leo Nagar, Guddanahalli (Post), Anekal, Bangalore 562 106

## TQM Practices

### Quality Circles

Teaching Fraternity: QC 1 – QC 12

QC No	Dept	S.NO.	Name of the Staff	Designation	QC No	Dept	S.NO.	Name of the Staff	Designation
Quality Circle 1	Dept. of CSE	1	B.RAGHAVENDRA RAO	A.P - I	Quality Circle 2	Dept. of CSE	1	T.K.PRADEEP KUMAR	Lect.
		2	P.KALAMANI	A.P - I			2	M.CHITHAMBARATHANU	Sr. Lect
		3	VIJAYALAKSHMI	A.P - II			3	Y.SAANJANNA	Lect.
		4	G.MANJULA	A.P - I			4	LORATE SHINY.M	Lect.
		5	REJI THOMAS	Sr. Lect			5	SRINATHA.D.K	Lect.
		6	H.B.SHANTHALA	Lect.			6	C.SHARON ROJI PRIYA	Lect.
		7	K.V.SHALINI	Lect.			7	M.VENKATESH KUMAR	Lect.
		8		Lect.			8		Lect.
Quality Circle 3	Dept. of ECE	1	R.DEEPA	A.P - II	Quality Circle 4	Dept. of ECE	1	A.POONGUZHALI	A.P - I
		2	VENUGOPAL.P	A.P - II			2	K.P.LINIJA SHYLIN	A.P - II
		3	RAJA.G.V	A.P - II			3	H.S.SAVITHA	A.P - II
		4	R.GEETHA	A.P - II			4	B.SRILATHA	A.P - III
		5	G.S.DHANYA	A.P - II			5	K.N.SRINATHA REDDY	Sr.Lect
		6	V.K.TIVARI	A.P - I			6	SUGANYA.J	Lect.
		7	R.ARUNA	A.P - III			7	N.BHUVANESWARI	Sr. Lect
		8	H.R.HALESHA	A.P - II			8	N.SANTOSH KUMAR	Lect
Quality Circle 5	Dept. of MECH	1	S.R.SRIDHAR (Retd)	Prof	Quality Circle 6	Dept. of MECH	1	V.N.KAMESHWAR	Sr. Lect
		2	SIVASAKTHI BALAN. K	A.P - I			2	ARUNA SHANBHOG	Lect
		3	ARUNKUMAR R	A.P - I			3	S.MAHESH	Sr. Lect
		4	B.S.YOGANANDA	A.P - I			4	L. HARISH BABU	Lect
		5	DURAI.J	A.P - II			5	GOVINDAPPA C	Lect
		6	VIJAI.R	A.P - II			6	L.RAJANNA	Lect
		7	SARAVANAKUMAR.R	A.P - II			7	V.BALAJI	Lect
		8	S.VENKATARAJU	Sr. Lect			8	MANUSHREE CHATURVEDI	Lect



QC No	Dept	S.NO.	Name of the Staff	Designation
Quality Circle 9	Dept. of Admin Office	1	M.VIDYASRI	Off. Asst
		2	S.ASHWATHANARAYANA	Attn
		3	S.SWAMY NATHAN	Asst
		4	MALASARJI.B.GUMAJ	Clerk
		5	M.PANNEER SELVAM	Hos.sup
		6	K.LAVANYA	Warden / girls Hostel
		7	G.DASARATHAN	Electrician/Plum.
		8	P.PRABHAKARAN	Canteen Supervisor

QC No	Dept	S.NO.	Name of the Staff	Designation
Quality Circle 11	Dept. of Daily Wages	1	NYATHA REDDY	Maistri
		2	JAYAMMA	Sweeper
		3	MUNIRATHNAMMA	Sweeper
		4	SUDHA.S	Sweeper
		5	PADMA .R	Sweeper
		6	MUNIYAPPA.R	Gardener
		7	MANJULA.K	Sweeper
		8	NELAMMA	Sweeper

QC No	Dept	S.NO.	Name of the Staff	Designation
Quality Circle 13	Dept. of Daily Wages	1	MUNIYAMMA	Scavanger / girls Hostel
		2	KESHAVAMURTHY	Scavanger
		3	GOPAMMA	Sweeper / Host
		4	K.H.LEELAVATHI	Sweeper / Host
		5	KALAVATHI	Sweeper / Host
		6	LALITHA	Scavanger
		7	SAVITHRAMMA	Sweeper
		8	VENKATALAKSHMAMMA	Scavanger

QC No	Dept	S.NO.	Name of the Staff	Designation
Quality Circle 15	Dept. of Admin Office	1	KRISHNA MURTHY.PK	Driver
		2	R.NAGARAJU	Driver
		3	K.MADHU KUMAR	Driver
		4	THIYAGARAJAN	Driver
		5	MANJUNATHA	Driver
		6	VENKATESH	Driver

QC No	Dept	S.NO.	Name of the Staff	Designation
Quality Circle 10	Dept. of Admin Office / SSPUC	1	R.WILFRED ROBINSON	Campus In charge
		2	SANJU ANCY JOSE	Asst
		3	R.PADMA	Sweeper
		4	SANTOSHI. P. JHA	Sweeper
		5	N.MOHANDOSS	Canteen Store Keeper
		6	T.VENKATARAMANA	Ele. Asst
		7	N.DEVARAJU	Off Asst
		8	ANJANA DK	JR ASST

QC No	Dept	S.NO.	Name of the Staff	Designation
Quality Circle 12	Dept. of Daily Wages	1	R.SUNANDAMMA	Sweeper
		2	THIMMARAYAPPA	Gardener
		3	SOWBHAGYA	Sweeper
		4	NAGARAJU.M	Gardener
		5	RATHNAMMA.K.R	Sweeper
		6	NAGARATHNA.B	Sweeper
		7	PADMAMMA.	Sweeper / Host
		8	LAKSHAMAMMA.H	Sweeper / Host

QC No	Dept	S.NO.	Name of the Staff	Designation
Quality Circle 14	Dept. of Admin Office	1	MUTHE GOWDA.H.M	Driver
		2	H.DINAKARAN	Driver
		3	M.ANBAGAN	Driver
		4	RAJA SEKAR	Driver
		5	M.RAJA	Driver
		6	M.SATHISH KUMAR	Cleaner





# SHIRDI SAI ENGINEERING COLLEGE

Sai Leo Nagar, Guddanahalli (Posi), Anekal, Bangalore 562 106

## TQM Practices

### Academic Development Task Force

**Head** - **Prof. C. Sivaprakash**, Asst. Professor & Head / Dept. of ECE

#### 1. Academic Development Task Force

- Head Members**
1. **Prof. C. Sivaprakash**, Asst. Professor & Head / Dept. of ECE
  2. **Ms. G. Manjula**, Asst. Professor & Head / Dept. of CSE
  3. **Ms. Sharon Roji Priya**, Lecturer / Dept. of CSE
  4. **Ms. A. Poonguzhali**, Asst. Professor / Dept. of ECE
  5. **Mr. H.R. Halesha**, Asst. Professor / Dept. of ECE
  6. **Mr. Ravi V. Angadi**, Lecturer / Dept. of EEE
  7. **Ms. K.V. Malini**, Sr. Lecturer / Dept. of EEE
  8. **Mr. B. S. Yogananda**, Asst. Professor / Dept. of MECH
  9. **Mr. V. Balaji**, Lecturer / Dept. of MECH
  10. **Ms. M. Manjula**, Lecturer / Dept. of S&H
  11. **Ms. Sailasree**, Asst. Professor / Dept. of S&H
  12. **Ms. P.Gangavathi**, Asst. Professor / Dept. of S&H
  13. **Mr. Manjunatha. K. N**, Asst. Professor / Dept. of MBA
  14. **Ms. Dhanya**, Lecturer, Dept. of CSE / SSPUC
  15. **Ms. Lakshmi**, Lecturer, Dept. of ECON / SSPUC



# 5S-Lean Audit Checklist--GUIDELINES

## Scoring Key:

A = Not applicable to this area (do not count in total possible score)

0 = No Evidence of implementation.

1 = Some Evidence but major gaps.

2 = Implemented and conforming in about 1/2 of the areas where applicable.

3 = Established and conforming in most areas with some gaps, little or no improvement activities.

4 = Only a Few Minor Gaps Remain and good improvement efforts & use of other Lean tools.

5 = Excellent 5S-Lean Conformance with Substantial Improvement Activities with Employee Involvement.

**Audit Team:** Refer to details below for explanation of each question. If further clarification or examples are needed ask supervisors or lean coordinator. The audit is a tool for improvement so include clear comments and conduct employee interviews to understand what has been done and why.

**Comments:** Include specific gaps, exceptional and below standard examples as well as ideas for improvement.

**Employee Interview (EI):** Interview an employee or two from the area to better understand how Lean & 5S are working in the area. (You do not need to ask all questions, just when you need to get a better understanding of where they are.)

**Audited Team:** Corrective Action should be taken for scores of 0 or 1. Consider all suggestions and ideas.

<p><b>Sort</b></p> <p>Are there any un-needed items in the area such as tools, parts, drawings, paperwork, tables, equipment, etc? Pick any object in the area and assign a team member. Employee Interview (EI): What is it for? How often do you use it? Where is its home? Need to be Red-tagged?</p>	<p><b>2. Straighten</b></p> <p>Do items in the area have a designated home? Are they visually (labeled, color coded, shadow boards, etc) and conveniently organized? Can you tell what goes where? EI: What part, tool or paperwork do you spend the most time looking for or walking to while doing your job? Is there a way to decrease that time?</p>	<p><b>3. Shine</b></p> <p>Is the entire area clean? Are machines and workstations clean, properly maintained, and have all safety features in place? Do employees understand their role in 5S and TPM (autonomous maintenance)? EI: When is the last time you cleaned: (pick an item or area)? How did you know it was time to clean it?</p>
<p><b>Standardize</b></p> <p>Is the team established and documented procedures for: 5S Checklists, Sort Criteria, Straighten Criteria, Red Tag System, Team Meetings, and Peer audits? Are they following documented procedures? Are the 5S checklists, Team Binder and visuals organized up to date? EI: Where is your (name a document) &amp; how do you use it?</p>	<p><b>5. Sustain</b></p> <p>Are team members continuously improving their area or at least sustaining previous improvements? Were corrective actions taken on low scores from previous audits? EI: Can you point out an improvement made by your team in the last month? How did it come about? How has it helped? Could it be improved?</p>	<p><b>6. Visual Controls</b></p> <p>Are visual aides in use, up to date and effective in telling how the area is performing? Are their goals, actual performance, reasons for variation, and corrective actions visible, up to date and used as an operational tool? EI: Which visual controls in your area do you use? Why? How often? What do they tell you?</p>
<p><b>Safety</b></p> <p>Are aisles ways, exits, electrical panels fire extinguishers, MSDS, First Aid, etc clearly marked, free from obstructions and trip hazards. Are chemicals properly stored &amp; labeled? PPE safe practices used? Emergency procedures known? EI: Emergency procedures known? Fire Procedures, etc), MSDS:</p>	<p><b>8. Standard Work</b></p> <p>Do Standard Work and Work Instructions exist for the area? Are they posted, in use, followed, understood, and updated regularly. EI: What are your responsibilities, and the best practices for completing the job safely with high quality and efficiency?</p>	<p><b>9. Continuous Flow</b></p> <p>Has continuous flow been established where possible? Does the line (all work stations) move at a steady pace based on Takt? Are standard WIP Levels established and followed? EI: What is your Takt Time, # of operators and hours worked to reach your goal? How does that change when customer demand fluctuates?</p>
<p><b>Training-Rotation</b></p> <p>Is there a cross training and job rotation program in place within the department and other departments? Is the skills matrix utilized effectively to track training and skill levels of employees within and outside the department? EI: How often do you rotate to other jobs? Is training effective-sufficient?</p>	<p><b>11. Quality</b></p> <p>Is there evidence of Six Sigma, defect tracking, error proofing, root cause analysis or other problem solving? Are results (metrics) posted or communicated back to employees? Is there an "Andon" system to respond to problems and discipline to prevent passing on defects? EI: If you discover a defect in your area, what do you do, then what happens? Do defects get passed on?</p>	<p><b>12. Material Flow</b></p> <p>Has a Plan For Every Part (PFEP) been established? Is it visually obvious how, how many, when, where and by who the parts will be replenishing? Are parts presented to the operators where they are needed? Can parts be replenished by the materials group without disrupting work? EI: How are your parts replenished? When? By who? What is Kanban and your role in helping it to function properly?</p>
<p><b>Lean Leadership</b></p> <p>Do crew leaders and supervisors for the area demonstrate good Lean Leadership? EI: Do your leaders conduct start up meetings, gemba walks, review visual controls, utilize leader standard work, communicate expectations, hold team accountable and have the discipline to sustain efforts?</p>	<p><b>14. Employee Engagement</b></p> <p>Are employees actively participating in 5S, daily Kaizen, problem solving, DLS Workshops, the Idea Board program or other ways to help their team continuously improve? Is there evidence of recent improvements? EI: What is the most recent improvement made by your team? How has it worked? What remains to be done? Were you involved? What is next?</p>	<p><b>15. Other Lean Tools</b></p> <p>Are there other Lean Concepts, principles or tools implemented. EI: Are there any examples in your area of using: Set Up Reduction, TPM, Six Sigma, Root Cause Analysis, Value Stream or Process Mapping, Daily Accountability, DLS Workshops (Kaizen), A-3 thinking, Teamwork, Error Proofing, Discipline, Knowledge Share, Kanban, Pull Systems?</p>



# SRI SAIRAM COLLEGE OF ENGG. 5S - Audit

Place / Area Audited:	Mech Sheds - (B,C,D,E)	<input type="checkbox"/> Monthly Audit	74	0 2 4 6 8 10					
MOD / INCHARGE:	Dr. Balaji	<input checked="" type="checkbox"/> Quarterly Audit							
ACULTY / STAFF / HOD interviewed: (Name)		<input type="checkbox"/> Team Self Audit		Score					
Auditor Name:	Raghavendrarao B			0	2	4	6	8	10
AUDIT Date:	27/10/2018								

1	<b>Sort:</b> Are there any un-needed / un used / un wanted items in the area? <i>Comments on # 1:</i> Behind shed there is a scrap shed unused lying since from 6-8 years. Green board broken found in	0							
2	<b>Straighten:</b> Do the items that are needed have a conveniently located, visually designated? When not in use, are they returned to Stores? <i>Comments on # 2:</i> Not in use/repair for this not found any visual display	4							
3	<b>Shine:</b> Are the Machines, Work stations, Computers, Floors, Walls, Equipments and all items in the area are clean, free from clutter and properly maintained? Are checklists posted and up to <i>Comments on # 3:</i> Area was not clean due to windows was not able to clouse / broken. And from front wind come so	2							
4	<b>Standardize:</b> Are the Standards on Sort, Straighten, and Shine are available (checklist). Are current Institution standards being followed, reviewed and improved upon? <i>Comments on # 4:</i> Existing is not ok, still some m/c are required. List submitted to principal office.	6							
5	<b>Sustain:</b> Have Sort-Straighten-Shine-Standardize standards been fully implemented and functioning well? <i>Comments on # 5:</i> Not up to the satisfaction. As in one shed they are running 2 labs. No visuals found, improper cable	4							
6	<b>Visual Controls:</b> Are visual aides in use, up to date and effective in telling how the Department is performing, what problems are occurring and what improvements are being made? (Charts) <i>Comments on # 6:</i> Visuals are fixed without pics. (only boards are present without pics) Safty mesure charts not found	4							
7	<b>Safety:</b> Are safe work practices in place and being followed. <i>Comments on # 7:</i> Yes, As they follow the tqm concepts, safty mesures found	8							
8	<b>Standard Work:</b> Do Standard Work and Work Instructions exist for the Department ? Are they posted, in use, followed, understood, and updated regularly. <i>Comments on # 8:</i> Yes	8							
9	<b>Continuous Flow:</b> Has continuous flow been established where ever possible in the labs? <i>Comments on # 9:</i> 0	0							
10	<b>Cross training - Job Rotation:</b> Are employees skilled at many different jobs in the area and out. Are these skills documented on a skills matrix? Is there a regular job rotation schedule. <i>Comments on # 10:</i> Regular job shedule ,NO rotation , not found skill metrix	4							
11	<b>Quality:</b> Are quality control concepts in place? Visible ? <i>Comments on #11:</i> Yes	8							
12	<b>Best Practices observed with respect to 5s :</b> <i>Comments on # 12:</i> TQM yellow Line	8							
13	<b>Lean Leadership: Is a Lean Management system in place that utilizes:</b> 1. Leader Standard Work 2. Visual Controls 3. Daily Accountability 4. Discipline. <i>Comments on # 13:</i> 70%	8							
14	<b>Employee Engagement:</b> Are employees actively participating in continuous improvement efforts (5S team, Kaizen, Circel Meeting, etc.,)? <i>Comments on # 14:</i> Yes	10							
15	<b>General Observations?</b> <i>Comments on #15:</i> AC ridges not in proper , almost its open and glass windos are open /broken , around 41 window	0							

**Score indicates 0 = Badly Maintained, 2 = Failed to Maintain, 4 = Pass, 6 = Good, 8 = Very Good, 10 = Excellent**





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[www.sairamce.edu.in](http://www.sairamce.edu.in)

# Research & Development Cell





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We at Sri Sairam College of Engineering are focusing more on Applied Research Programs and need based technology. Accordingly R & D Cell has been established with VTU affiliation to promote and monitor the research Programs. R & D cell is headed by a Director and supported by a coordinator and office staff. The R & D cell has an advisory board with senior faculty members.

It is observed that from the last decade; the Research community in Engineering is growing rapidly and needs to be connected with the Engineering innovation. To achieve the objective of the Research Centre, we established a Techno Socio relevant ambience in the campus for conducting Innovative research to bridge the gap between Industry and academia.

The centre has an inter-disciplinary research groups of various fields to conduct research, such as Robotics, Aerospace, Micro fluidics, Nano materials, Machinability etc. The centre provides necessary infrastructure for students and faculty to conduct research projects in thrust areas of Science and Engineering. We nurture young researchers by establishing specific area of research in order to keep pace with expanding frontiers of knowledge and global developments.

#### **Objectives**

- To promote applied research activities to bridge the gap between academia and industry
- To develop products, processes and innovative projects to improve the quality of human life
- Develop and support existing and emerging research strengths
- Facilitate multidisciplinary research excellence
- Make efforts to establish research partnerships with Government, Industry and other Universities





### Research Committee list

Sl. No	Name	Designation
1	Dr. B. Shadaksharappa	Director
2	Dr. R. Arun Kumar	Member
3	Dr. C. Anil Kumar	Coordinator
4	Dr. Sivasakti Balan	Member
5	Dr. P. Gangavathi	Member
6	Dr. G Manjula	Member
7	Prof. C. Sivaprakash	Member
8	Prof. K.V. Malini	Member
9	Prof. Balaji V	Member
10	Prof. V. Bheemeshwara Reddy	Member
11	Dr. Srilatha B	Member
12	Dr. Shailashree S	Member
13	Dr. Renukadevi S	Member
14	Prof. Anand Joshi	Member
15	Mrs Sravani G.	R & D Assistant





## VTU Recognised Supervisors

Sl.No	Name	Designation	Department
1	Dr. Y. Vijaya Kumar	Professor	Department of Mechanical Engg.
2	Dr. C. Anil Kumar	Professor	Department of Mechanical Engg.
3	Dr. P. Gangavathi	Associate Professor	Applied Mathematics
4	Dr. Hari krishna	Associate Professor	Department of Chemistry

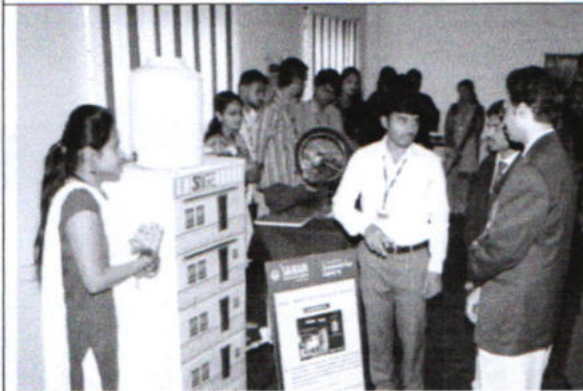
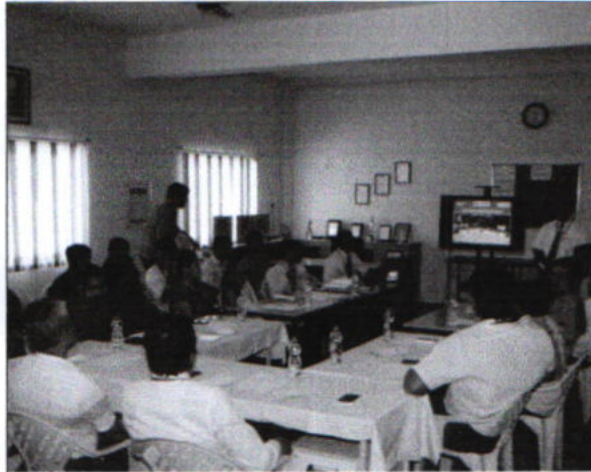
### Research Scholars Registered For Ph.D Under R&D (Mech Engg)

SL.NO	NAME	YEAR OF REGISTRATION	REGISTRATION No.	GUIDE	RESEARCH CENTRE	RESEARCH TOPIC
1	CHANDRASHEKAR. G L	2016-17	1SB17MMA01	Dr. Y. VIJAYAKUMAR	MECHANICAL ENGINEERING	STUDIES ON MECHANICAL AND TRIBOLOGICAL BEHAVIOR OF NANO B4C REINFORCED COMPOSITES AT ELEVATED TEMPERATURES
2	DURALJ	2017-18	1SB18PME01	Dr. C. ANIL KUMAR.	MECHANICAL ENGINEERING	FATIGUE, FRACTURE & WEAR ANALYSIS OF FRICTION STIR WELDED HYBRID ALUMINIUM METAL MATRIX COMPOSITE
3	VINOD	2018-19	1SB19PME01	Dr. C. ANIL KUMAR.	MECHANICAL ENGINEERING	STUDY ON MECHANICAL PROPERTIES OF NATURAL FIBER METAL LAMINATES
4	SANTOSHC	2018-19	1SB19PME02	Dr. C. ANIL KUMAR.	MECHANICAL ENGINEERING	STUDIES ON PROPERTIES MODIFICATION OF FIBER METAL LAMINATES BY USING NANOFILLERS





**R & D Cell Meeting and project demonstration At the time of Vice Chancellor VTU Belagavi  
Visit to our college**



**PATENT DETAILS**

Faculty Name	Title of Invention	Patent No	Publication Date
Dr.B.Shadaksharappa	Vehicle Breaking System in Hill Station	201841038947A	2018
Dr.B.Shadaksharappa,	A Data Storage Device	201841047222A	2018
Dr.B.Shadaksharappa and Raghavendra Rao B. Kulkarni	Domestic Birds Protective System	201941001507A	2019
Dr.B.Shadaksharappa and Raghavendra Rao B.Kulkarni	Quantum Computing based System and Method for Geometry Recognition	201941001501A	2019






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1. Mentees list
2. Counseling
3. Consolidated mentees report



Name of the Mentor	<b>Raghavendrarao B</b>	
Name of the Student	<b>GEETHA P U</b>	
University Seat No.	<b>1SB18CS020</b>	
College ID No	<b>18CS054</b>	
Date of Birth(DD/MM/YY)	<b>09/09/2000</b>	
Religion/Community/Caste	<b>Hindu/Cat-1/Yadav</b>	
Year in which admitted	<b>2018</b>	
Nature of Admission	<b>Management</b>	
Hostelite(H)/Day Scholar(D)	<b>I - Year : (D) II - Year :</b>	
Passport No.		
1) Bank A/C No.	<b>9522500100948901</b>	
1) Bank Name	<b>Karnataka bank</b>	
2) Bank A/C No.		
2) Bank Name		
Department/Branch	<b>Computer Science and Engineering</b>	
Languages Known	<b>kannada, English, Telugu hindi</b>	
Aadhaar No.	<b>763942669697</b>	
Student Mobile No.	<b>8073763693</b>	
Student Email ID.	<b>geethanjagirabbs@gmail.com</b>	
Parent Email ID.	<b>umashankar19769@gmail.com</b>	

**Parent/Guardian Details**

Name	Occupation/ Designation	Office Address with Phone	Mobile No./E-mail ID	Stamp size Photos
Name of the Father UMASHANKAR V P	Engineering Service	kormangala	+91 7899220680	
Name of the Mother SUJATHA U	House Wife		+91 9611242568	
Guardian Name (Relationship)			+91	





Progress Report - Mail Sent Status







Mentor Name : Raghavendrarao B

Department :

Exam : 2019-2020/Odd/IA - 1

S.No	USN	Student Name	Progress Comments	Student Email	Parent Email	R
1	1SB17CS096	VINAY KUMAR.V	Please come and meet hod mam and discuss with mentor about poor performance in IA test	vinay8055@gmail.com		
2	1SB18CS019	GARIMAARORA	Good maintain and improve in next exam. Concentrate on DS and DMS subjects	garimaaroraag74@gmail.com	permendra.13@gmail.com	
3	1SB18CS020	GEETHA P U	Good Maintain and improve the results in next IA test concentrate on mats and DS	geethanjagirabbs@gmail.com	umashankar19769@gmail.com	
4	1SB18CS023	HARISH B	Dear parents. Please inform your ward to study	harishbala101@gmail.com	balamurugan.k@wabtec.com	
5	1SB18CS025	HARISH S K	Dear parents. Please inform your ward to study	harishsk163@gmail.com	krishnamurthysundaram891@	
6	1SB18CS026	HARSHITHAHOLLA V V	Dear parents , Inform your ward to concentrate more on subjects study and maintain 85% attendance in all subjects. please come and meet us in college on or before 24th sep 2019.	harshitha.holla2000@gmail.com	vsvholla1967@gmail.com	
7	1SB18CS027	INDRADHANUSH B	Dear parents ; Inform your ward to concentrate more on subjects study and maintain 85% attendance .	indradhanush60@gmail.com	veeimpex2012@gmail.com	
8	1SB18CS028	JJAGADISH	Dear parents , Inform your ward to concentrate more on subjects study and maintain 85% attendance in all subjects.	jaggu7425@gmail.com	NA	
9	1SB18CS030	JAGANJ	Dear parents , Inform your ward to concentrate more on subjects study and maintain 85% attendance in all subjects. Needs more improvements in next test.	jaganmerasal1234@gmail.com	jyothimuthaliyar@gmail.com	
10	1SB18CS031	JASWANT MISHRA	Dear parent, Please inform your ward to maintain 85% attendance in all subjects and concentrate still more on all subjects. Next test expecting more improvements in all subjects.	jaswantmishra28022001@gmail.com	mishra-kshitizjaiswal147@gmail.com	
11	1SB18CS032	JOHNSONFERNANDES	Dear parent, Please inform your ward to maintain 85% attendance in all subjects and concentrate still more on all subjects. Next test expecting more improvements in all subjects.	johnsonfernandes03102@gmail.com		
12	1SB18CS033	JYOTHIR	Dear parents, please inform your ward to attend classes regularly to maintain 85% attendance in all subjects. And do not be absent on any tests.	jyothi07012000@gmail.com	ravisagar@622.rediffmail.com	



-  DASHBOARD
-  CONFIGURATIONS ▾
-  ACADEMIC PROCESS ▾
-  REPORT ▾
-  FACULTY ▾
-  FOR MENTOR ▾
  - IA TEST PERFORMANCE
  - PROGRESS REPORT
  - COUNSELING
  - STUDENT DOCUMENT UPLOAD
  - MENTOR ATTENDANCE

AcademicYear : 2019-2020 / Computer Science and Engineering / Active Semester:Odd / Raghavendrarao B

## Performance in Internal Assessment Test

USN / Student Name *	15B18CS020 - GEETHA P U ✖	USN:	15B18CS020
Semester *	III SEM ▾	Current Class :	CSE/II - Year/III SEM/A
Section *	A ▾		

**Performance in Internal Assessment Test:**

S.No	Sub Code	Subject Name	IA - 1				Additional Test M
			CT	CA	AP	MO	
1	18KAK39/49	Aadalitha Kannada (Kannada for Administration)	5	3	60	27	
2	18MAT31	Transform calculus,Fourier series and Numerical techniques	17	11	65	27	
3	18CS32	Data Structures and application	21	15	71	24	
4	18CS33	Analog and digital electronics	20	13	65	45	
5	18CS34	Computer Organization	16	12	75	41	



S. No	USN	Student Name	Branch	Year	Semester	Section	Fees Status
1	1SB17CS096	VINAY KUMAR V	CSE	II - Year	III SEM	A	Fee Status Not Available
2	1SB18CS019	GARIMAARORA	CSE	II - Year	III SEM	A	Full Paid
3	1SB18CS020	GEETHA P U	CSE	II - Year	III SEM	A	Full Paid
4	1SB18CS023	HARISH B	CSE	II - Year	III SEM	A	Full Paid
5	1SB18CS026	HARSHITHAHOLLA V V	CSE	II - Year	III SEM	A	Full Paid
6	1SB18CS028	JAGADISH	CSE	II - Year	III SEM	A	Full Paid
7	1SB18CS032	JOHNSONFERNANDES	CSE	II - Year	III SEM	A	Full Paid
8	1SB18CS033	JYOTHIR	CSE	II - Year	III SEM	A	Full Paid
9	1SB18CS031	JASWANT MISHRA	CSE	II - Year	III SEM	A	Full Paid

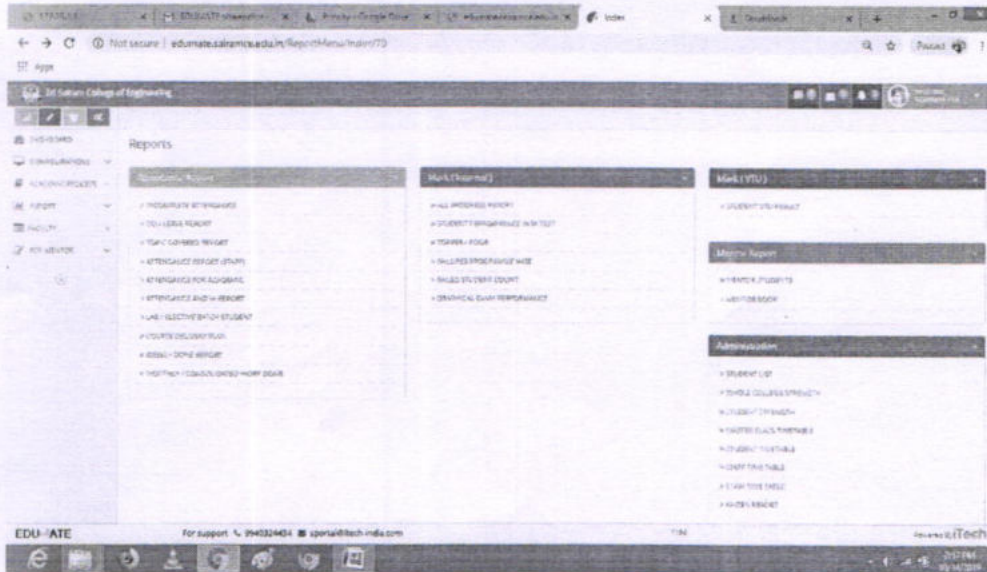
List of Mentees



## 1. Planning and Development

- iTech – EDUMATE

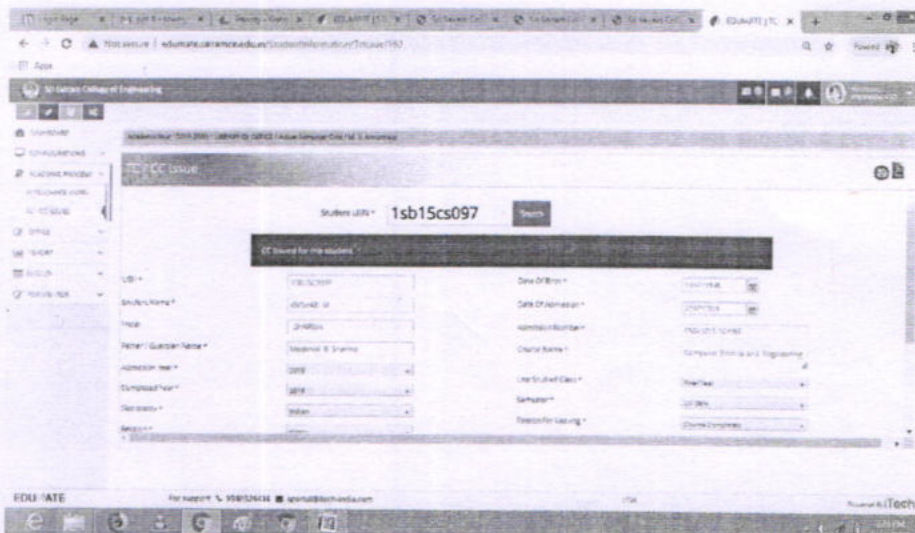
Planning of topics to be covered for every subject and Time table of every class is done by faculty end and updated to EDUMATE and is used as Academic Planner for entire semester which supports in attendance entry and the topic covered, related reports with respect to academics.



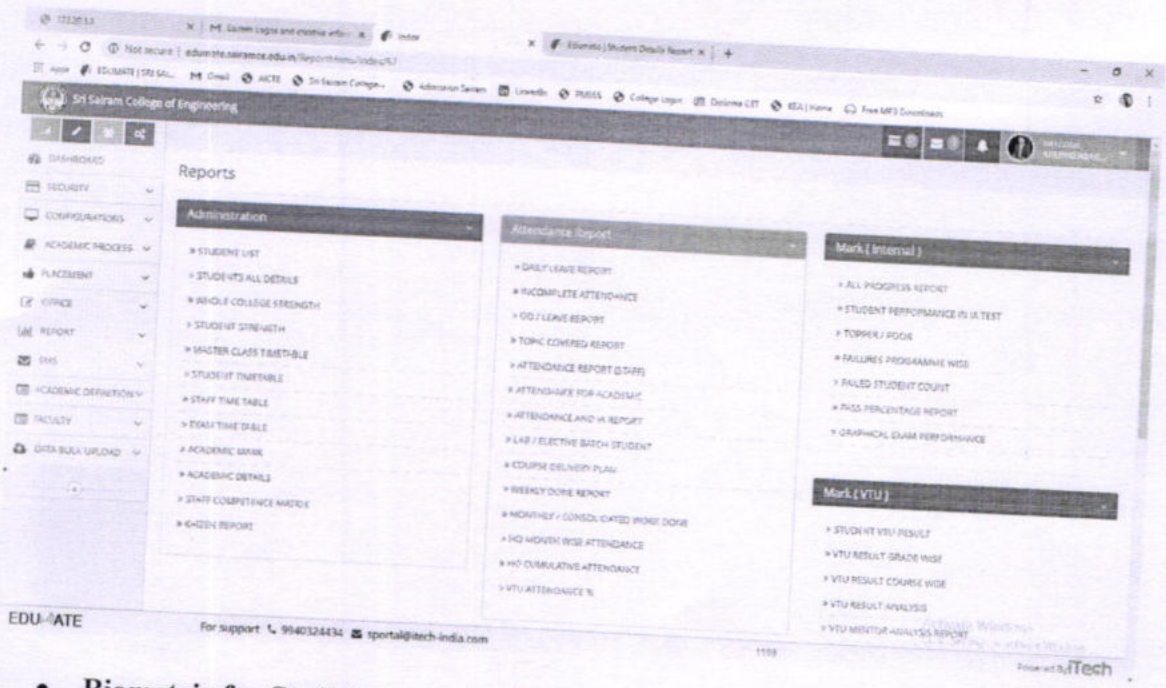
## 2. Administration

- iTech – EDUMATE

EDUMATE used for generating and Issuing of documents like Transfer Certificate, Course Completion Certificate, Attendance reports, Staff Profiles, Student Profiles, Student Mentoring and Counseling, Academic reports, Kaizens, etc.

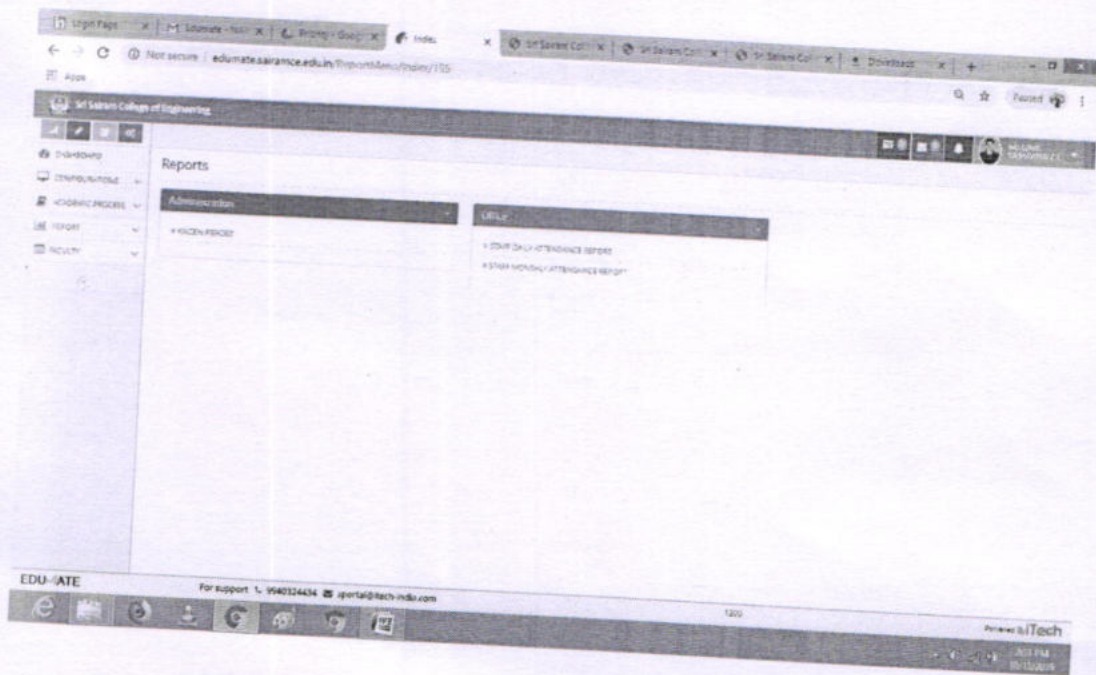




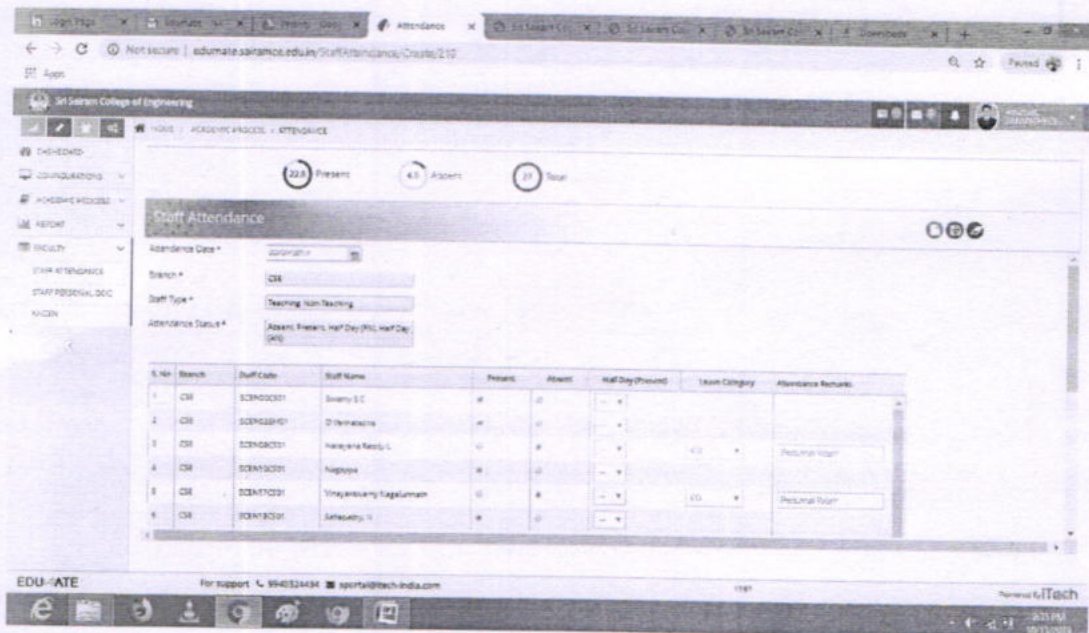


- **Biometric for Staff Attendance and supported by iTech – EDUMATE**

Biometric attendance is saved to the local server and then updated to EDUMATE server which maintains staff attendance



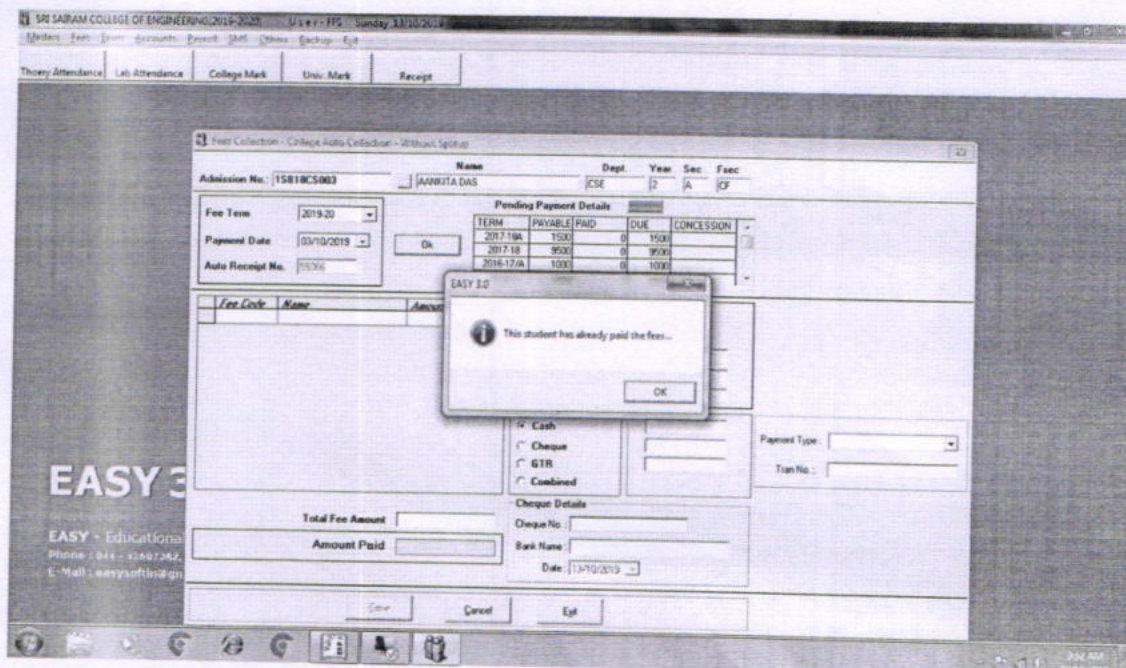




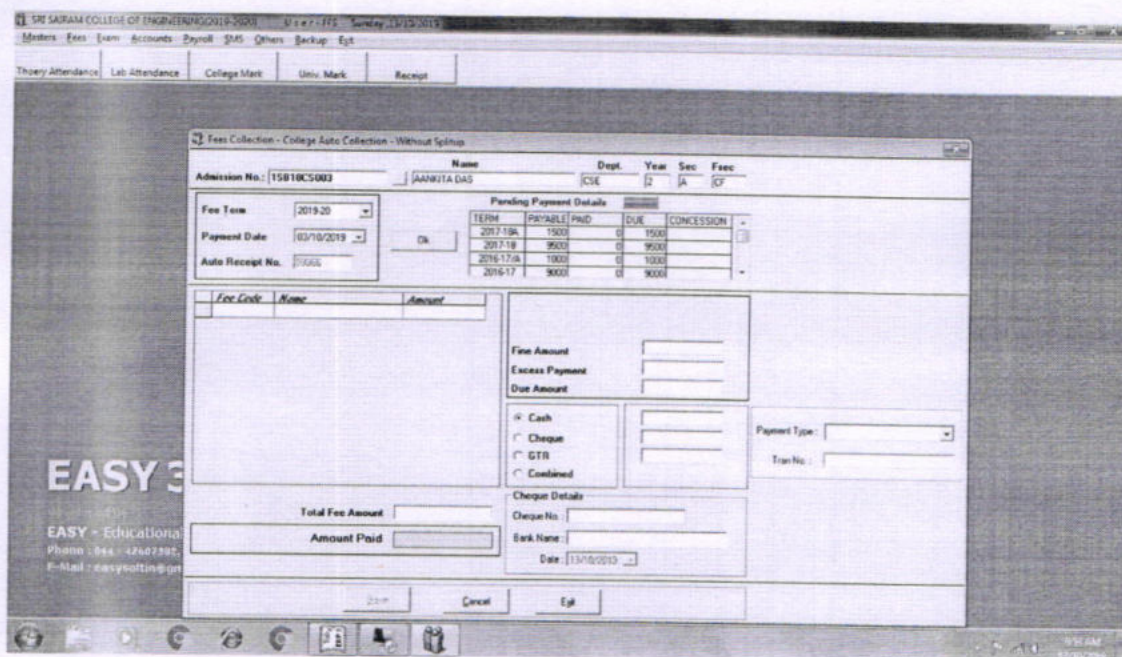
### 3. Finance and Accounts

- EASY - Educational Automation Software Pvt Ltd

Finance and Accounts of the college is maintained by EASY- FFS for accessing information of students fee payment and fee receipts related information.

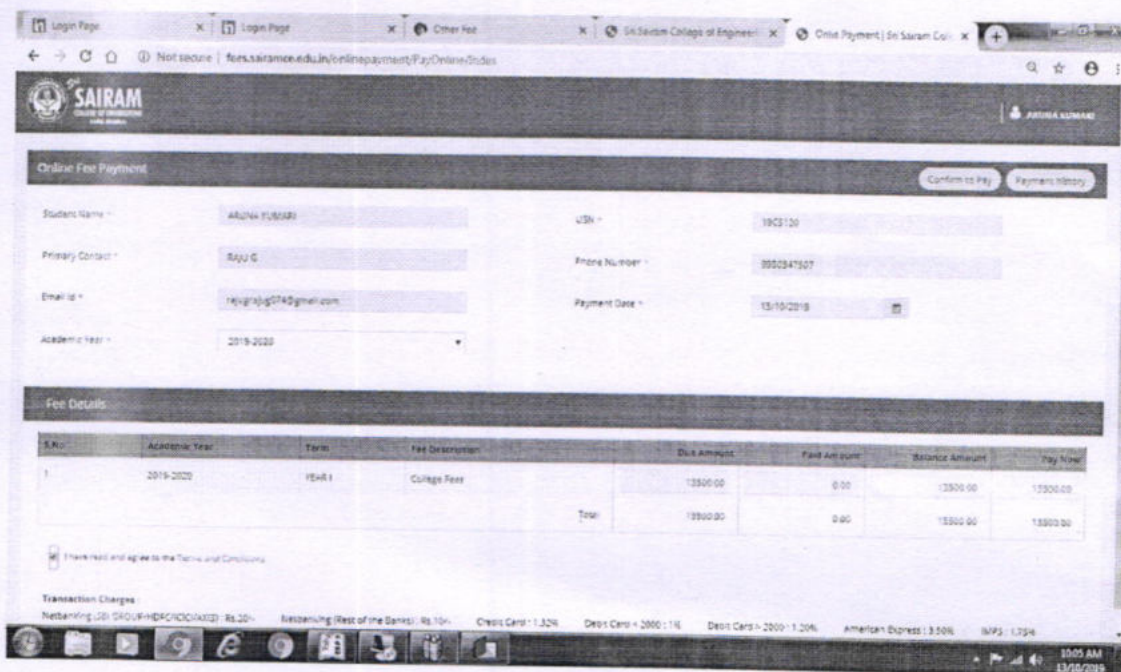




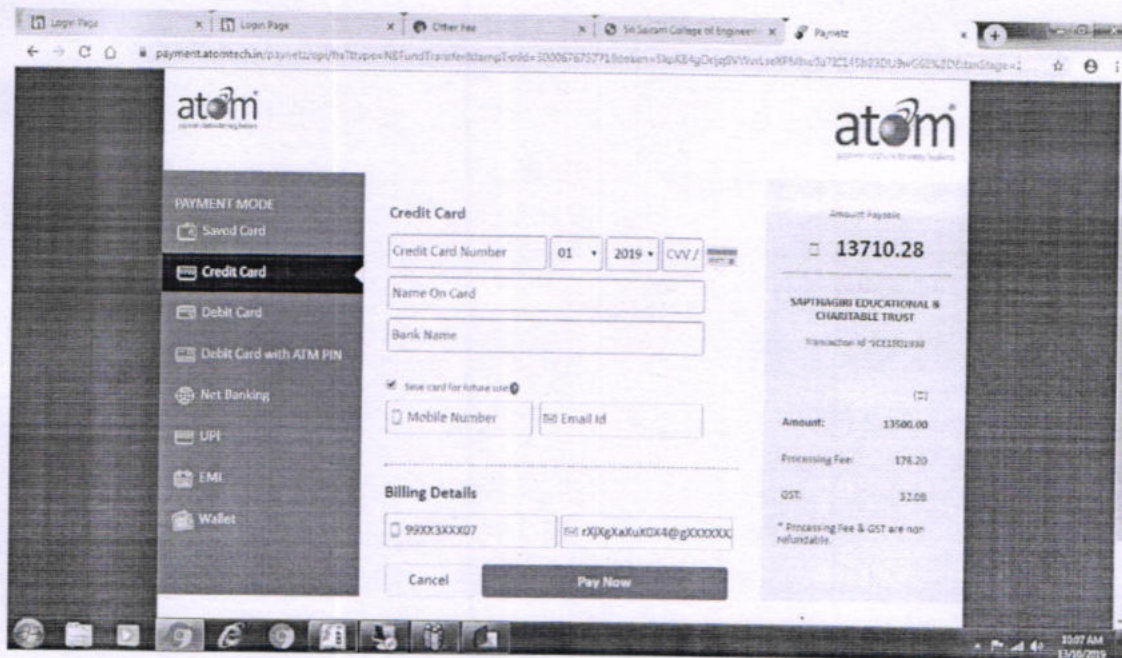


- Online Student fee payment by ATOM

With the help of ATOM- payment solutions for easy business every students is provided with online fee payment with the help of individual ID(as students USN) and password.

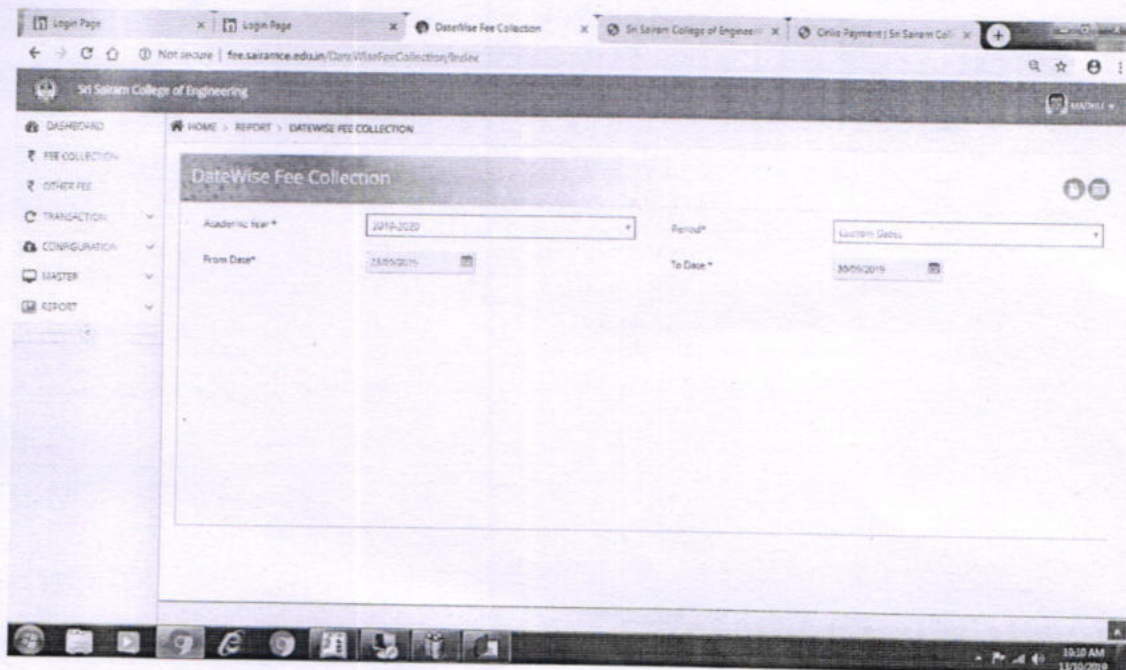






- iTech – EDUMATE

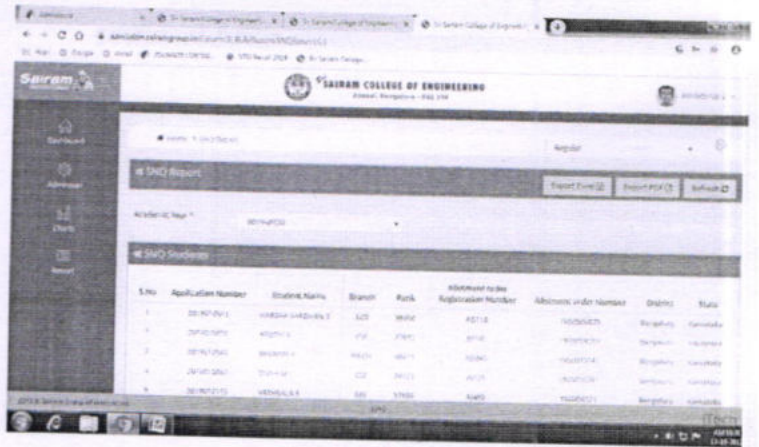
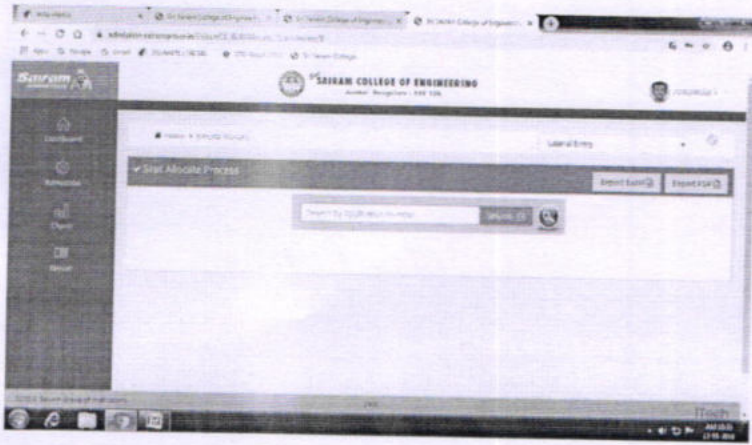
EDUMATE provides auto updated data of student fee detail and also helps in updating respective authorities about fees details of every individual student and with different sorted block of data (branch wise, day wise, year wise etc.,)









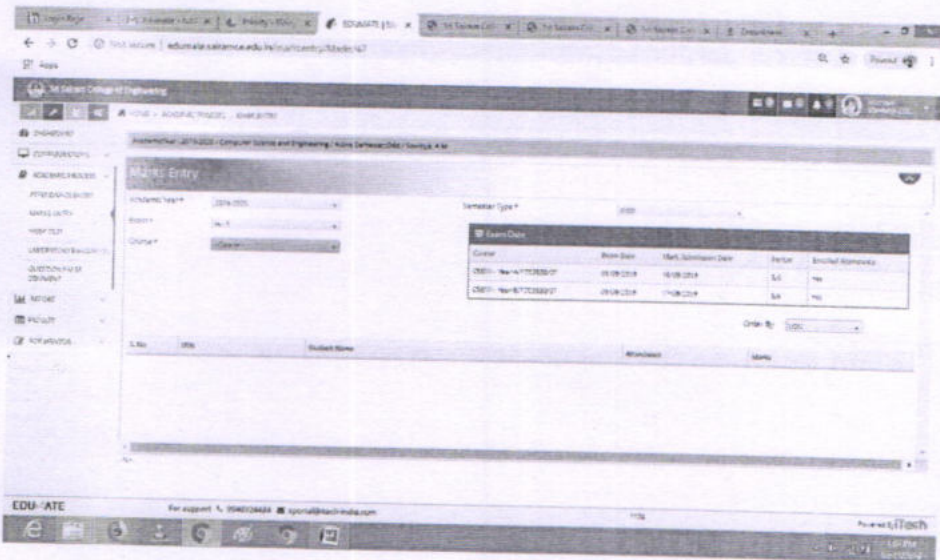


## 5. Examination

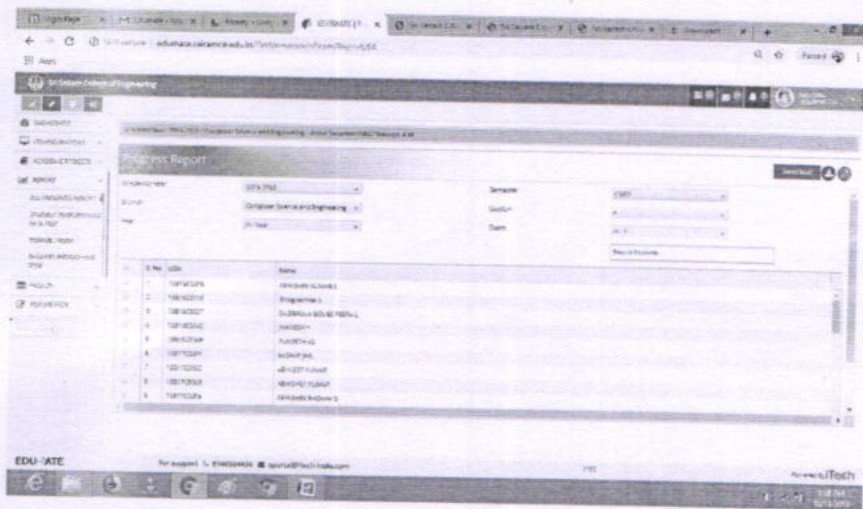
- iTech - EDUMATE( for internal examination)

EDUMATE support to maintain internal examination marks by providing report based on

- class wise
- student wise which is used for informing parents and also for mentor counseling







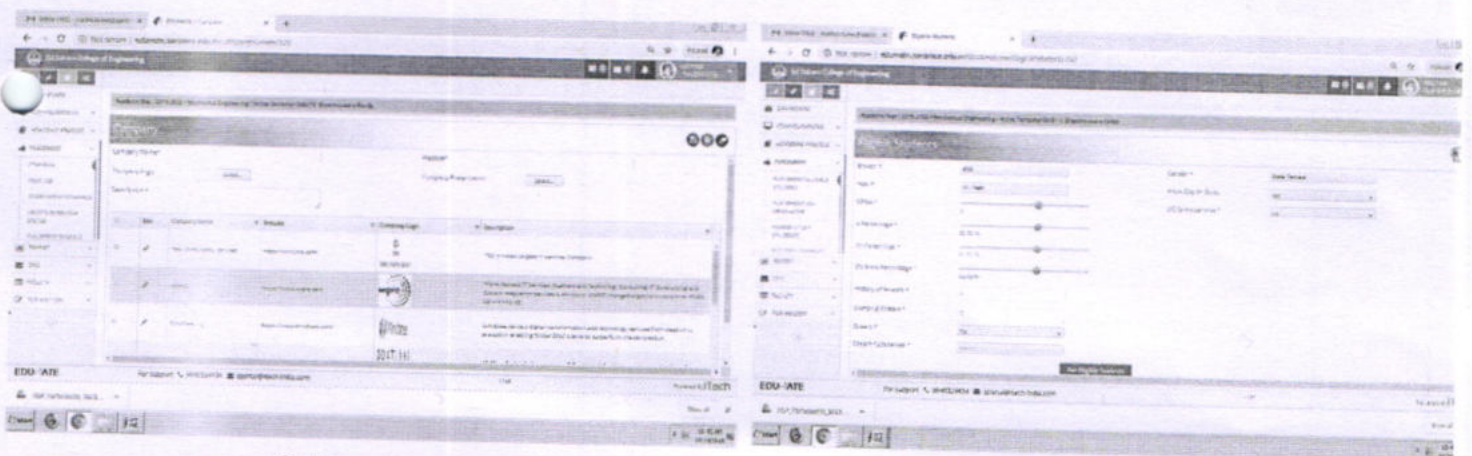
- QPDS - Mind Logic QPDS - VTU Software (for exams through VTU)

VTU is providing QPDS (Question paper Delivery System) for downloading the Semester End question paper to the college 30 minutes before start of examination, where authorized Login details to be entered by Principal and External and Internal DCS appointed by the university to access.

## 6. Placements

- iTech – EDUMATE

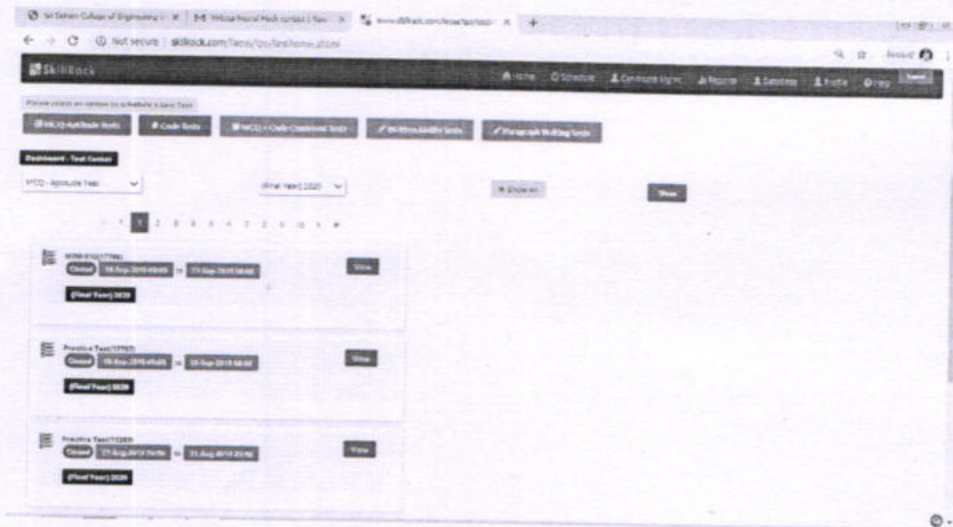
Provides Companies visit with schedule for placements and details of eligibility and to inform students with e-mail or SMS.



- Skillrack

Students practice Aptitude and Reasoning questions through Skillrack portal. ([www.skillrack.com](http://www.skillrack.com)) Skillrack portal introduced badges for performed students on programming skills. Further extends online technical tests facility for students.

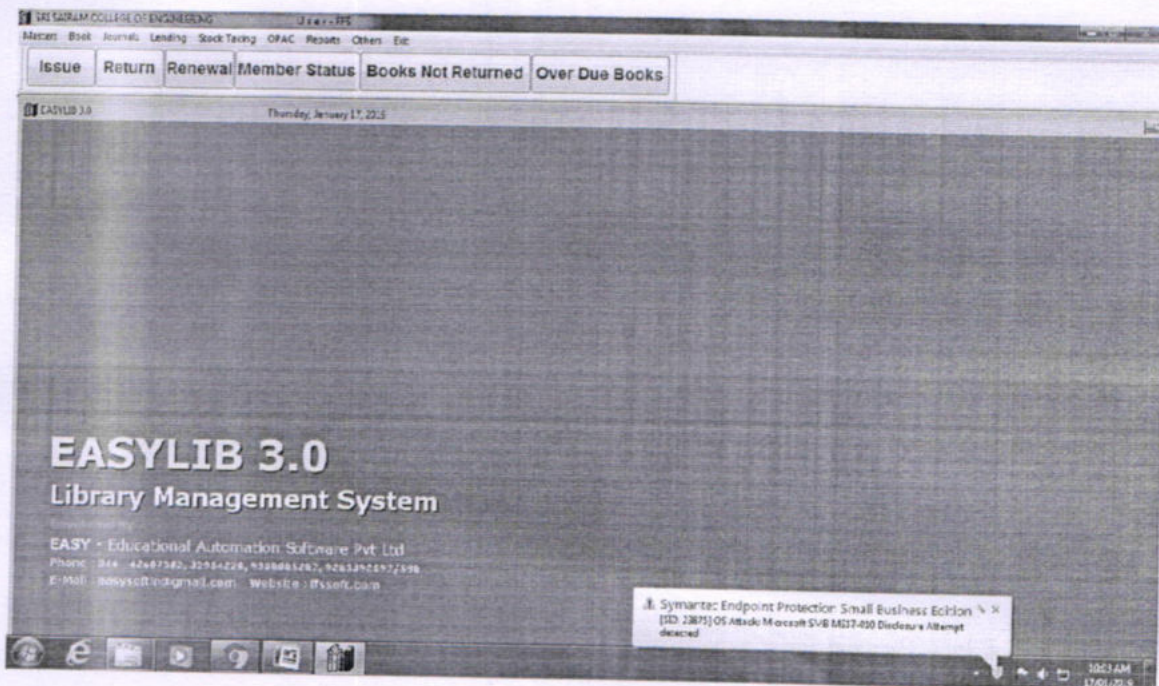




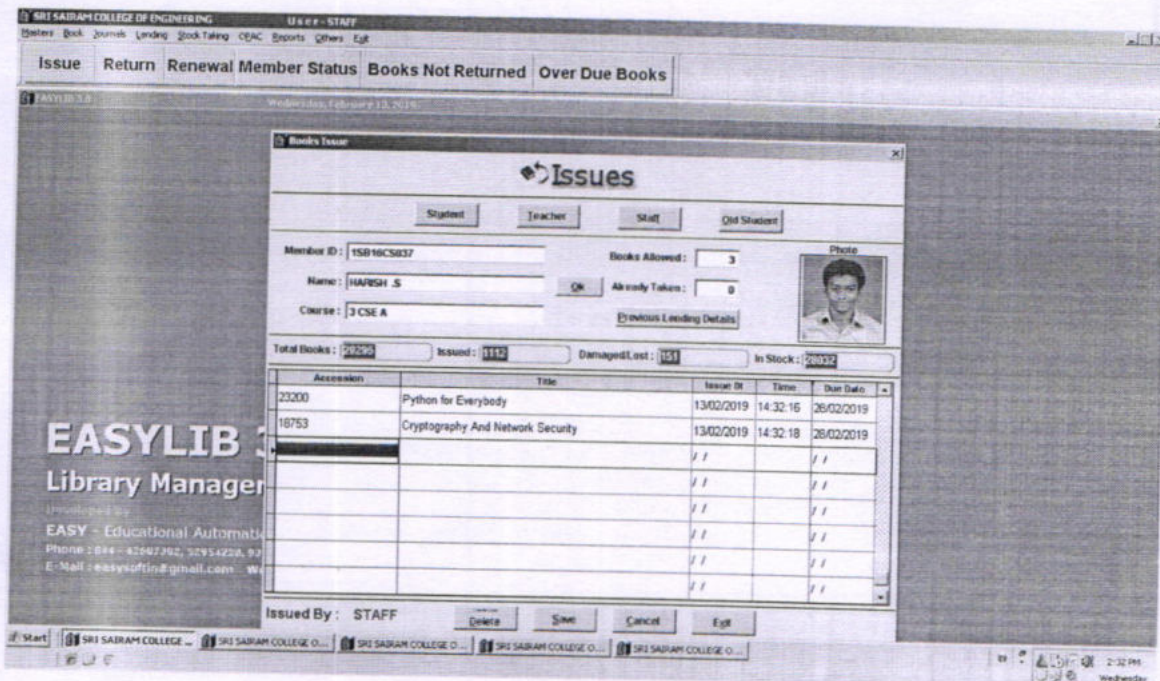
## 7. Library

- **EASY - Educational Automation Software Pvt Ltd**

Library is using **EASY** software for maintains of stock details and issuance to students and staff. It also provides data, based on books issued, books renewal, books not returned and individual barrower status.

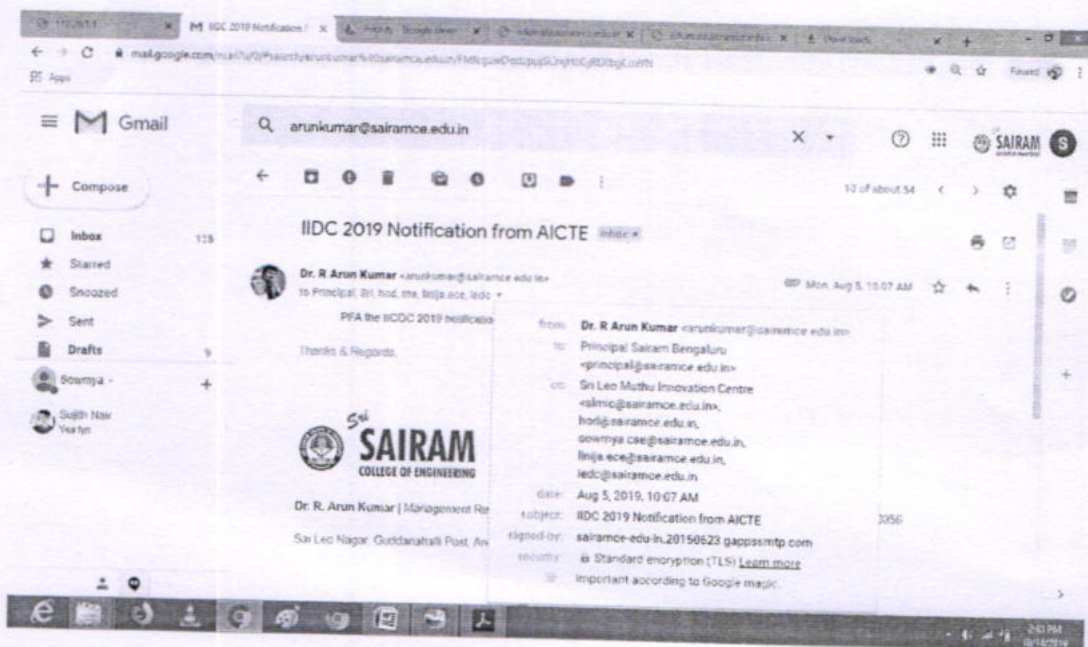






### 8. Official e-mail ID's for Staff and Students

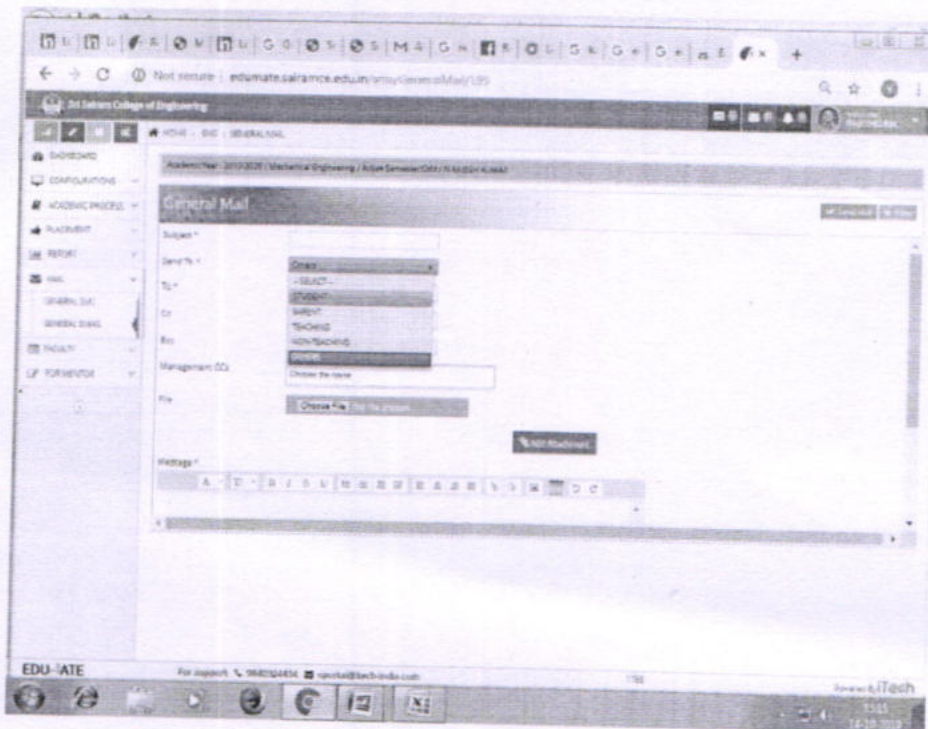
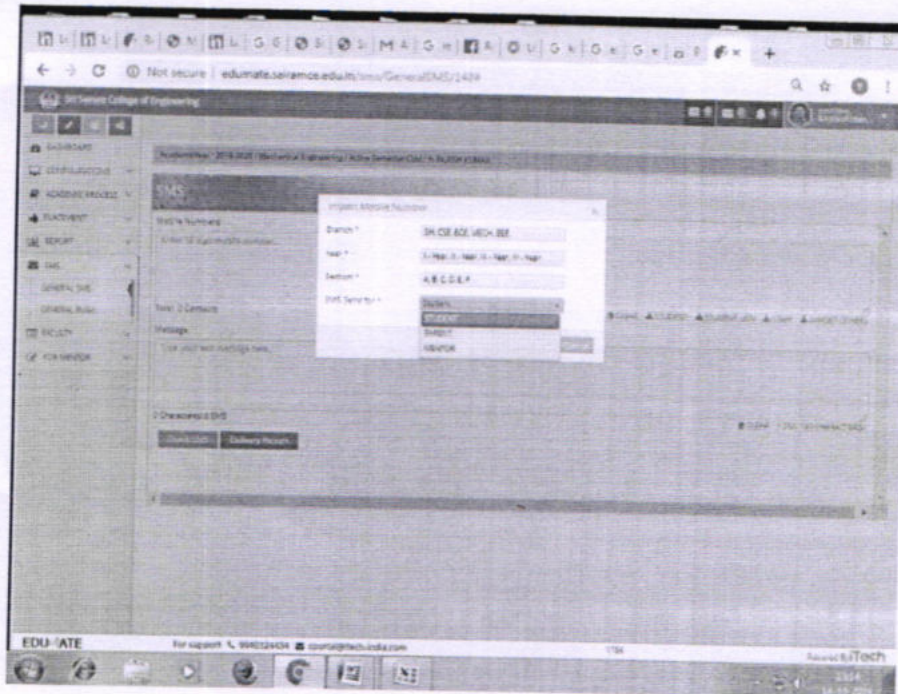
- Every staff of our college is provided with Official e-mail ID's under **sairamce.edu.in** Domain and used for circulating official information and circular. Official e-mail ID's for Students under **sairamtap.edu.in** Domain is under progress where every student is provided with unique mail-ID.





## 9. Bulk SMS and E-mail Transmission

- iTech – EDUMATE – used to send bulk message and E-mail to all categories of groups like Students, Parents, Teaching Staff, Non-Teaching Staff etc.,







*Sri*

**SAIRAM**

**COLLEGE OF ENGINEERING**

Anekal, Bengaluru

ISO 9001:2015 certified Institution

Approved by AICTE, New Delhi

Affiliated to Visvesvaraya Technological University

[www.sairamce.edu.in](http://www.sairamce.edu.in)

# **e-Shikshana**

## **(E-Learning Platform)**





# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Belagavi- 590 018, Karnataka State, INDIA

Prof. Satish Annigeri Ph.D  
Registrar (I/c)

Fax: (0831) 2405467  
Phone: (0831) 2405468

Ref: VTU/ELC/2019-20/ 824

Date: 19 MAY 2019

## CIRCULAR

Sub: Up gradation of e-Shikshana setup at your institution.  
Ref.: VTU/ELC/2018-19/7446 dated 20/11/2018

We are please to inform that VTU e-Shikshana programme-01 was successfully completed. Further, appreciate all the principals, faculty and coordinators for extending your support and active participation for all the e-Shikshana programs for the Academic year 2018-19.

In continuation with the above reference, VTU Belagavi is pleased to release the second installment amount of Rs. 45,000/ as a part of financial assistances for establishing a complete e-Shikshana set up. Further, those institutions which have not received first installment, will be receiving Rs.70,000/- (i.e. first and second installment) to establish e-Shikshana setup.

The institution heads are hereby informed to ensure the working condition of e-Shikshana set up. The sanctioned amount must be utilized to procure the below mentioned equipments, leaving those which were already provided during EDUSAT set up and the equipments which were purchased in the first installment of Rs. 25,000/-.

The list of equipments required for complete setup of e-Shikshana.

Sl. No.	List of Equipments	Product Specification
1	Wireless Microphone	Dual channel combo wireless Microphone (color and hand microphone)
2	Video capture card	Video capture card with USB connectivity
3	HD Handy camera / Conference camera	With better zoom and clarity/ inbuilt Cam, speaker and microphone
4	Tripod	As per the camera
5	Computer System	Windows 7 PC
6	Audio system	Speaker with amplifier
7	Projector	Projector with LCD screen
9	Writing pad	Take Note

Please Note the following:

1. The institution must ensure the establishment of complete setup of "e-Shikshana" facility and make the system in working condition.
2. The "Establishment procedure as per KTCP Rule" must be followed during purchase of equipments.

Accounts  
SPT Head USE  
[Signature]









VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
e-Learning Centre

VTU  
Learning

Hanchya, Sathagalli Layout (Ring Road), Mysuru-570029

Dr. Prabhakara H.S

☎: (0821) 2570223

Special Officer

@: [clearning@vtu.ac.in](mailto:clearning@vtu.ac.in)

Ref: No. VTU/MYS/ELC/ 732/2017-18

09 November 2017

Principals  
VTU Affiliated Colleges

Sir/ Madam,

**Sub:** Deploying of A-VIEW Platform at VTU affiliated colleges – reg.

**Ref:** Circular from the Registrar, VTU, No.VTU/PS/2017-18/6097 dated 29<sup>th</sup> October, 2017

I trust you are in receipt of the Circular from the Registrar, VTU, regarding the deployment of A-VIEW platform in the University sent by e-mail to your office on 30<sup>th</sup> October, 2017.

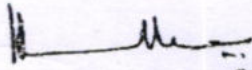
May be due to your busy schedules, we are yet to receive some information from you without which it is very difficult for us to proceed with the installation of necessary software at your institute.

I request you to please cooperate with us in deploying this platform at our University for the benefit of all faculty and students.

Please send the details requested by us at the earliest possible.

Thanking you

Yours faithfully

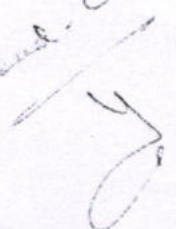
  
Special Officer

09/11/17

Encl: Letter by the Registrar, VTU in this regard

Copy to:

1. Hon'ble Vice-Chancellor, VTU, Belagavi, through the Secretary to VC for information.
2. Registrar, VTU, Belagavi for information.

*Hand - C/S*  
  
2017





# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"Jnana Sangama", Belagavi - 590 018, Karnataka State, INDIA

Phone : (0831) 2405468  
Fax : (0831) 2405467  
Email : registrar@vtu.ac.in  
website : www.vtu.ac.in

Dr.H.N. Jagannatha Reddy, B.E., M.E., Ph.D.

Registrar

Ref. No.: VTU/PS/2017-18/ 6907

Date: 29 OCT 2017

## CIRCULAR

Sub: Implementing A-VIEW facility at your Institution – reg.

With reference to the above cited subject, this is to inform that, Amrita E-Learning Research Labs, Amrita University, Kollam developed the **A-VIEW** (Amrita-Virtual Interactive E-learning World – ([www.aview.in](http://www.aview.in))) is an internet based virtual knowledge sharing platform.

It is a multimodal, multi-platform, collaborative e-learning solution which allows an instructor to teach or interact with a large number of learners transcending geographies on a real-time basis through live audio-video streaming and synchronized content sharing. **A-VIEW** facility can be used for conducting live classes over internet and also for video conferencing.

We are happy to inform you that VTU, Belagavi has decided to use this versatile platform for conducting Video-Conferences, Virtual Classes and Webinars. Hence deployment of this platform at all the affiliated colleges is essential. Initially it is planned to have one installation per college and later each department in the college will have this facility. To successfully set-up this platform, the following minimum requirements are necessary.

•Desktop/Laptop with 13Processor-4 GB RAM-Windows XP SP3 or Later version

In order to implement this project and run it successfully the following suggestions are to be followed.

1. Identify a Professor as SPOC (Single Point of Contact) for this project at your college.
2. A Programmer/Instructor to assist the SPOC.
3. Communicate the College Name, Region & College Code, Name, Designation, Department, e-mail ID and Mobile Number of the SPOC and the Instructor from your college to [elarning@vtu.ac.in](mailto:elarning@vtu.ac.in) immediately.

The Hard Copy of the above said details are to be reach on or before 7<sup>th</sup> November, 2017 to the following address. **VTU e-Learning Centre** is coordinating this project. For more details or any queries feel free to contact at [elarning@vtu.ac.in](mailto:elarning@vtu.ac.in), Contact No. 0821-2570223.

The Special Officer,  
VTU e-Learning Centre,  
Hancha Satagalli Layout,  
Mysuru – 570 029.

**Login name and Password** for your college are being created which will be communicated to the SPOC. Following this, personnel from Amrita University will guide to install the A-VIEW Platform. Later, training on using this platform will be provided which will be followed by trial runs.

Hence, you are requested to bring this circular to the notice of all the concerned in your institution/college to take necessary steps for implementing A-VIEW platform.

By Order.

Registrar

29/10/17

To,

- 1) The Principals of all the affiliated/ constituent Engineering Colleges of VTU.
- 2) The PG Coordinator, Centre for PG Studies in Bengaluru, Belagavi, Kalaburgi & Mysuru.

Copy to:

- 1) The I/c Regional Directors, VTU's Regional Centres at Bengaluru, Belagavi, Kalaburgi & Mysuru for information.
- 2) Special Officer, VTU e-Learning Centre, Mysuru, for information and needful.
- 3) The Secretary to VC, VTU, Belagavi.





# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"Jnana Sangama", Belagavi - 590 018, Karnataka State, INDIA

Phone : (0831) 2405468  
Fax : (0831) 2405467  
Email : registrar@vtu.ac.in  
website : www.vtu.ac.in

Ref: VTU/ELC/2018-19/ 10156

Date: 18 FEB 2019

## CIRCULAR

Sub: Transmission of Live Lectures through e-Shikshana- an interactive e-Learning platform.

We are pleased to inform that VTU e-learning Centre, Mysuru will be transmitting the live lectures to all the affiliated colleges through VTU e-Shikshana platform from 25/02/2019. The time table is enclosed.

e-Shikshana Programme includes:

1. Transmission of live lectures for the following subjects:
  - a) 18MAT21 - Advanced Calculus and Numerical Methods
  - b) 18ELN24 - Basic Electronics
  - c) 17CV43 - Applied Hydraulics
  - d) 17EE61/17EC43 - Control Systems
  - e) 17ME43 - Applied Thermodynamics
2. Industry interaction programs
3. Webinars on Research methodology for Research scholars
4. Career guidance Programme
5. Placement training classes
6. Technical skill enhancement programmes etc.

The principals are requested to incorporate e-Shikshana time table to their regular academic time table and encourage students to utilize this facility effectively and further to direct the identified e-Shikshana coordinators to ensure maintenance of attendance.

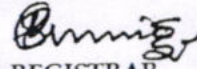
The interested institutions can avail this facility to host webinars, conferences and workshops through e-Shikshana platform from their institutions.

For Login connectivity issues contact: Mr. Seetharamu, e-learning centre, Mysuru, 9986164401.

For e-Shikshana Programme: Mr. Lokesh, e-learning centre, Mysuru, 8105084988.

For further clarification, contact: Dr. P. Sandhya, Special officer, VTU e-Learning Centre, Mysuru, [elarning@vtu.ac.in](mailto:elarning@vtu.ac.in), Mob: 8660264978. Landline- 0821-2570223.

By order,


  
i/c REGISTRAR  
Sdy.

To,

- 1) The Principals of Affiliated Colleges of VTU.
- 2) The PG Coordinator, Centre for PG Studies in Muddenahalli, Belagavi, Kalaburagi & Mysuru.

Copy to:

- 1) The Regional Directors (I/c), VTU's Regional Centers at Bengaluru, Belagavi, Kalaburgi & Mysuru for information.
- 2) The Secretary to VC, VTU, Belagavi.

Recd C/c  


file  
18/02/2019







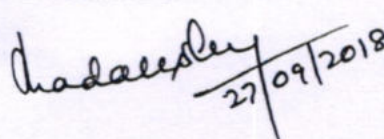
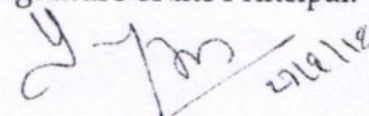


**e-SHIKSHANA INSTALLATION & TRAINING CERTIFICATE**

01	Name of the Institution	Sri Sairam College of Engineering
02	Address:	Sai Leo Nagar, Guddanahalli (P.O), Anekal, Bengaluru - 562106
03	College Code:	18B
04	Name of the SPOC with Contact Number and e-Mail id	Dr. B. Shadaksharappa, HOD, CSE Dept hod.cse@sairamce.edu.in 9448480620
05	Date of Installation and training	27.09.2018

**Declaration of Installation and Commissioning of e-Shikshana:**

This is to certify that, e-Shikshana- an e-Learning platform has been successfully installed, tested, commissioned and online training is provided to our Institution.

Signature of SPOC  27/09/2018	Name and Signature of the Principal:  27/9/18 Seal <b>PRINCIPAL</b> Sri Sairam College of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562106
--	---



Special officer

VTU, e-Learning Centre, Mysuru



Submitted,

To Principal Sir

**Sub: Comparative Statement for writing Pad and Conference camera for setting up  
VTU e-Shikshana facility at our institute – Reg  
Ref: VTU/ELC/2018-19/7446 dated 20.11.2018**

With reference to the subject, The following Local Purchase Committee called for quotations and prepared the Comparative statement **writing Pad and Conference camera** for setting up VTU e-Shikshana facility at our institute.

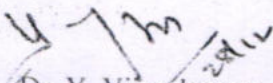
**LPC members:**

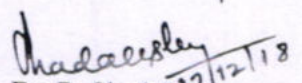
- |                          |  |          |
|--------------------------|--|----------|
| 1. Dr. Y. Vijayakumar    | Principal                                    | Chairman |
| 2. Dr. B. Shadaksharappa | Professor & Head (CSE)<br>and Vice Principal | Member   |
| 3. Dr. C. AnilKumar      | Professor                                    | Member   |
| 4. Mr. K. Gajendra       | CAM (Finance Officer)                        | Member   |


SL No	Particulars	Qty in No	Vendors Name	Unit price (in Rs)	Amount (in Rs)	GST (in %)	GST Amount (in Rs)	Total Amount (in Rs)
1	iBall pen tablet, 5.5"x4": Model:PD-5548U  (writing Pad)	1	MSQUARE INNOTECH SOLUTIONS PTL	3200.00	3200.00	18%	567.00	3776.00
			SMART INDIA ENTERPRISES	3100.00	3100.00	18%	558.00	3658.00
			ICON OFFICE EQUIPMENTS	Not quoted for this item				
2	Logitech BCC950 Webcam and Speakerphone  ( Conference camera)	1	MSQUARE INNOTECH SOLUTIONS Pvt Ltd.	18100.00	18100.00	18%	3258.00	21358.00
			SMART INDIA ENTERPRISES	18100.00	18100.00	18%	3258.00	21358.00
			ICON OFFICE EQUIPMENTS	18300.00	18300.00	18%	3294.00	21594.00

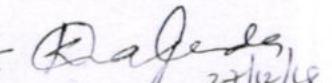
Encls:

1. Quotation received from 3 vendors.

  
Dr. Y. Vijayakumar  
Principal

  
Dr. B. Shadaksharappa  
Professor & Head (CSE)  
and Vice Principal

  
Dr. C. AnilKumar  
Professor

  
Mr. K. Gajendra  
CAM

21/11/19



LPC Committee members meeting to finalise the vendor to purchase Writing Pad and Conference camera for setting up VTU e-Shikshana facility at our institute

LPC Committee members:

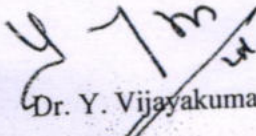
- |                          |  |          |
|--------------------------|--|----------|
| 1. Dr. Y. Vijayakumar    | Principal                                    | Chairman |
| 2. Dr. B. Shadaksharappa | Professor & Head (CSE)<br>and Vice Principal | Member   |
| 3. Dr. C. AnilKumar      | Professor                                    | Member   |
| 4. Mr. K. Gajendra       | CAM (Finance Officer)                        | Member   |

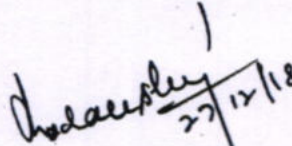
Venue: Principal Office Board room


Purpose: Finalising the Vendor

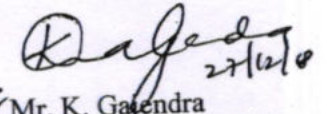
Meeting held on 27.12.2018, with committee members for finalising the vendor.

At the end of the discussion, it has been decided to buy the product from the vendor M/S SMART INDIA ENTERPRISES, Since the cost and the service is good enough, by discussing with all the vendors.

  
Dr. Y. Vijayakumar  
Principal

  
Dr. B. Shadaksharappa  
Professor & Head (CSE)  
and Vice Principal

  
Dr. C. Anil Kumar  
Professor

  
Mr. K. Gajendra  
CAM



Certified that we,

1. Dr. Y. Vijayakumar
2. Dr. B. Shadaksharappa
3. Dr. C. AnilKumar
4. Mr. K. Gajendra

Principal  
Professor & Head (CSE)  
and Vice Principal  
Professor  
CAM (Finance Officer)

Chairman  
Member  
Member  
Member

Members of the purchase committee are jointly and individually satisfied that the goods recommended for purchase are of the requisite specification and quality, priced at the prevailing market rate and the supplier recommended is reliable and competent to supply the equipments in good condition.

1. Dr. Y. Vijayakumar
2. Dr. B. Shadaksharappa
3. Dr. C. AnilKumar
4. Mr. K. Gajendra

*[Signature]*  
27/12/18

*[Signature]*  
27/12/18

*[Signature]*  
27/12/18



Certified that we,

- |                          |  |          |
|--------------------------|--|----------|
| 1. Dr. Y. Vijayakumar    | Principal                                    | Chairman |
| 2. Dr. B. Shadaksharappa | Professor & Head (CSE)<br>and Vice Principal | Member   |
| 3. Dr. C. AnilKumar      | Professor                                    | Member   |
| 4. Mr. K. Gajendra       | CAM (Finance Officer)                        | Member   |

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1. Dr. Y. Vijayakumar

2. Dr. B. Shadaksharappa

3. Dr. C. AnilKumar

4. Mr. K. Gajendra

*Y. Vijayakumar*  
*Shadaksharappa*  
*27/12/18*  
*C. AnilKumar*  
*27/12/18*  
*K. Gajendra*  
*27/12/18*



## Invoice Cum Bill



**SMART INDIA ENTERPRISES**

No: 2/11, 1st Main-Road, 9th Block, Jayanagar,  
Bangalore-560069

GSTIN/UIN : 29DLDP2803D1Z8

E-Mail : sitsafesinfo@gmail.com

Ph: 9483742207

**BUYER DETAIL**

**SRIRAM Collge of Engineering**

Anekal

Bangalore - 560106

Invoice No.

31

Dated

29.12.2018

Delivery Note

Mode/Terms of Payment

Cheque / RTGS / NEFT

Supplier's Ref.

PO

Other Reference(s)

18-19 dated 29-12-2018

Buyer's Order No.

Purchase order - 18/19

Dated

29.12.2018

Dispatch Document No.

SIT/INV/31

Delivery Note Date

29.12.2018

Dispatch through

Via Staff

Destination

Sriram College of Engineering

Terms of Payment : Immediate

No.	Description of Goods	UOM	QTY	Rate	Amount	Tax @	Tax Amount	Total Amount
1	Logitech BCC 950 Videoconference Web cam	No	1	18100.00	18100	18.00%	3258	21,358.00
2	iBall Writing Pad Model: PD-5548U	No	1	3100.00	3100	18.00%	558	3,658.00
Total Amount								<b>25,016.00</b>

E. & O. E.

Amount Chargeable (in words)

Rs. Twenty Five Thousand Sixteen Only.


Account Name: SMART INDIA ENTERPRISES, Bank Name: Karnataka Bank Pvt Ltd

Branch: jayanagar 9th T Block, A/c No: 0612000100168301, IFSC Code: KARB0000061

Declaration: Warranty for Logitech cam 2 Years & writing pad 1yr from date of invoice.

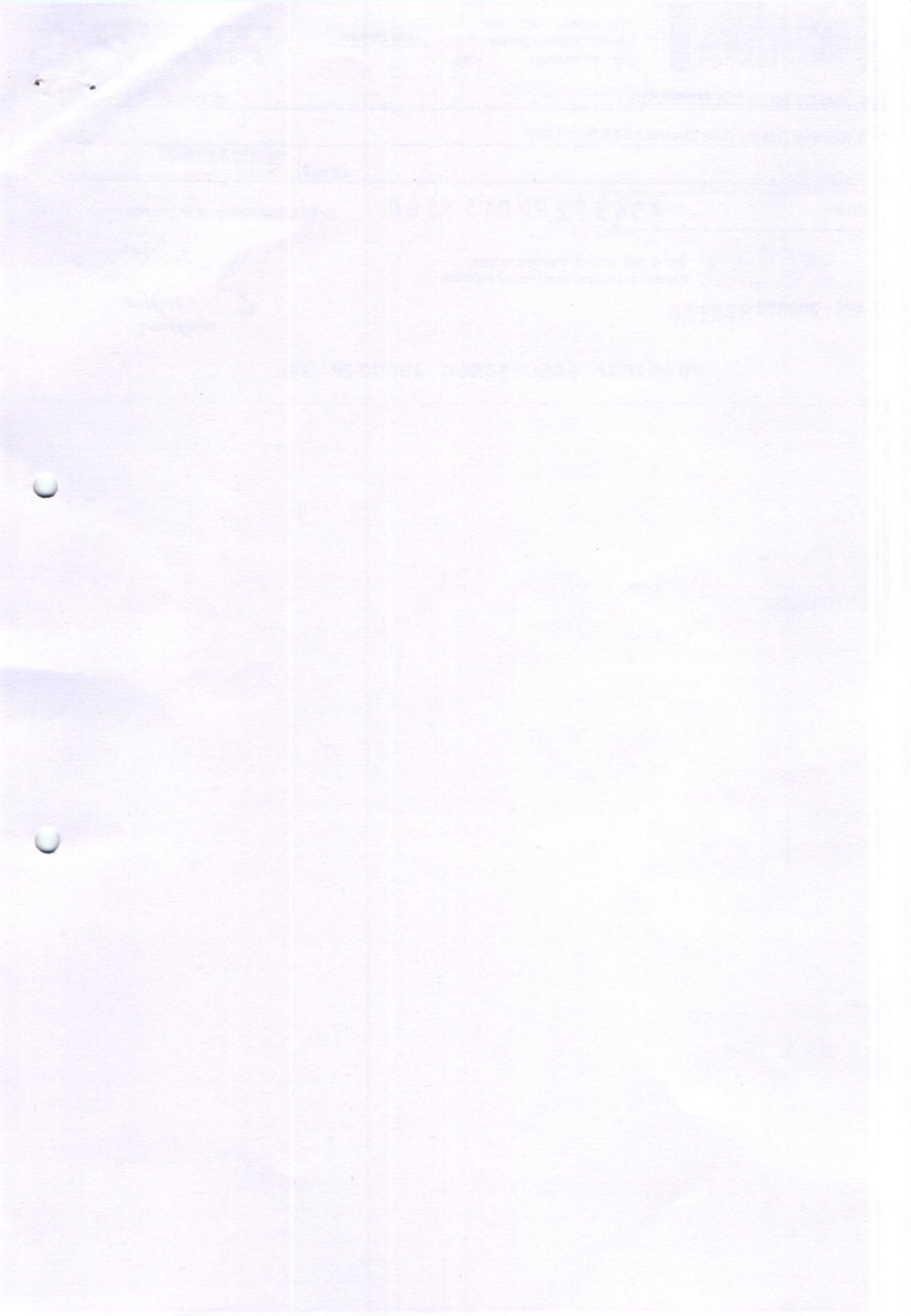
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct. Goods Once Sold will not be return.

for SMART INDIA ENTERPRISES

  
Authorised Signatory

This is a Computer Generated Invoice









# Sri SAIRAM COLLEGE OF ENGINEERING

(An ISO 9001 certified institution) Formerly SHIRDI SAI ENGINEERING COLLEGE

Managed by Saphthagiri Educational & Charitable Trust

Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka & Affiliated to Visvesvaraya Technological University, Belgaum.

Campus : Sai Leo Nagar, Guddanahalli (PO), Anekal, Bangalore - 562 106. Tel: +91-80-27830221, 27840631 / 632. Fax: +91-80-27830355.



Ref: SSCE/P.O./Admin/077/2018

28/12/2018

To,  
M/s. Smart India Enterprises,  
No.8/2, 26<sup>th</sup> Main, 39<sup>th</sup> Cross,  
9<sup>th</sup> Block, Jayanagar,  
Bangalore – 560 069  
Mobile No. 9483742207

Dear Sir,

**Sub: Release of Purchase Order – Reg.**

We thank you for your quotation No. SIE/Sales/039/2018-19, dt:- 22/12/2018, for Rs.25016/- towards supply of Logitech Conference Cam & Writing Pad. We are pleased to release our purchase order as per the quotation enclosed and on following terms & Conditions.

**Terms & Conditions:**

1. **Delivery** :- Within one day from the date of Purchase Order.
2. **Payment** :- Against Delivery
3. **Tax** :- The above price inclusive of GST @ 18%
4. **Transport** :- Delivery at our college campus. Anekal at free of cost.
5. **Warranty** :- (1) Writing Pad – One Year (2) Camera - Two Years.
6. Kindly sign the duplicate copy of this purchase order as token of your acceptance.

Thanking you.

Yours Truly,

**SRI SAIRAM COLLEGE OF ENGINEERING**

K. Gajendra – C.A.M

Cc: Principal / Stores

Encl:- Quotation.

**Sairam**  
COLLEGE OF ENGINEERING



## Invoice Cum Bill

**SMART INDIA ENTERPRISES**

No. 2/11, 1st Main Road, 9th Block, Jayanagar,  
Bangalore - 560069

GSTIN/UIN : 29DLDP2803D1Z8

E-Mail : sirsalesinfo@gmail.com

Ph: 9483742207

**BUYER DETAIL**

**SRIRAM Collge of Engineering**

Anekal  
Bangalore - 560106

Invoice No.

31

Dated

29.12.2018

Delivery Note

Mode/Terms of Payment

Cheque / RTGS / NEFT

Supplier's Ref.

PO

Other Reference(s)

18-19 dated 29-12-2018

Buyer's Order No.

Purchase order - 18/19

Dated

29.12.2018

Dispatch Document No.

SIT/INV/31

Delivery Note Date

29.12.2018

Dispatch through

Via Staff

Destination

Sriram College of Engineering

Terms of Payment : Immediate

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Total Amount								25,016.00

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Rs. Twenty Five Thousand Sixteen Only.

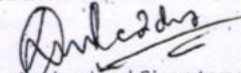
Account Name: SMART INDIA ENTERPRISES , Bank Name: Karnataka Bank Pvt Ltd

Branch: jayanagar 9th T Block , A/c No: 0612000100168301,IFSC Code:KARB0000061

Declaration: Warranty for Logitech cam 2 Years & writing pad 1yr from date of invoice.

I declare that this invoice shows the actual price of the goods described and that all particulars are true and correct. Goods Once Sold will not be return.

for SMART INDIA ENTERPRISES

  
Authorized Signatory

This is a Computer Generated Invoice



सिंडिकेट बँक  
Syndicate Bank

न्यूपेट, अनेकल - 562 106

NEWPET, ANEKAL - 562 106

IFSC : SYNB0000437

(CBS)

A/c Payee

2 9 1 2 2 0 1 8  
D D M M Y Y Y Y

Pay SMART INDIA ENTERPRISES

या धारक को or Bearer

रुपये Rupees Twenty Five Thousand Sixteen Only

अदा करें

₹ \*\*25,016.00

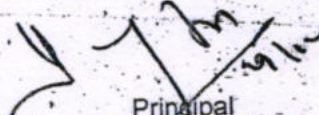
A/c No.

04 3 7 2 2 0 0 1 5 8 3 8 0

for Sri Sairam College of Engineering

बैंक के सभी शाखाओं में सममूल्य पर प्रदेय  
Payable at par at all branches of our Bank

SAN : 300072 839186

  
Principal  
Please sign above

⑈839186⑈ 560025090⑈ 300072⑈ 31





*Sri*  
**SAIRAM**  
COLLEGE OF ENGINEERING  
Anekal, Bengaluru

ISO 9001:2015 certified Institution  
Approved by AICTE, New Delhi  
Affiliated to Visvesvaraya Technological University  
[www.sairamce.edu.in](http://www.sairamce.edu.in)

**International  
Conferences  
Seminars/Workshops  
2013-2019**





Sri  
**SAIRAM COLLEGE OF ENGINEERING**  
(formerly Shirdi Sai Engineering College)

Sai Leo Nagar, Guddanahalli (Post), Anekal, Bengaluru

Date: 07.10.2015

**National Conference on Computational Simulation & its Applications**

**NCCSA - 2015**

To,

The Principal/HOD

Dear Sir/Madam,

Subject: Invitation for National Conference on "Computational Simulation & its Applications" NCCSA - 2015 – Reg.

It's a great pleasure in inviting you for the National Conference on "Computational Simulation & its Applications" NCCSA-2015 on 5<sup>th</sup> November 2015.

NCCSA-2015 aims at bringing together Researchers, Scientists, Engineers, Scholars and Students in all areas of Computer Science & Engineering and provides a National forum for the dissemination of original research results, new ideas and practical development experiences, which concentrate on both theory and practices. The Conference has focus on the frontier topics in the Computer related topics. All the prospective authors are required to submit original and unpublished work to this conference.

For more details kindly refer the enclosed brochure and our website: [www.ssec.ac.in/advaya](http://www.ssec.ac.in/advaya)

We request you to give wide publicity of this event in your esteemed institution and encourage the students to participate in large numbers to make this event successful.

Looking forward for your esteemed cooperation and active participation to make the event a grand success.

Thanking you  
With regards

**Dr. B. Shadaksharappa,**  
Convenor, NCCSA-2015  
Prof & Head (CSE),  
Vice Principal, SSCE, Bengaluru

**Dr. Y. Vijayakumar**  
Principal, SSCE, Bengaluru

**Founder Chairman**  
**MJE Lion. Leo Muthu**  
Sairam Group of Institutions

**PATRONS**  
**Sri. Sai Prakash Leo Muthu**  
Chief Executive Officer

**Shri. R. Arunkumar**  
Management Representative

**PROGRAM CHAIR**  
**Dr. Y. Vijayakumar**

**CONVENOR**  
**Dr. B. Shadaksharappa**  
Prof & Head (CSE), Vice Principal

**ADVISORY COMMITTEE**  
**Dr. T.V. Govindaraju**  
Principal, KSIT, B'luru  
**Dr. S. N. Chandrashekhara**  
Prof & Head(CSE) SJCT, Chikkaballapur

**Dr. Basavaraj A. Patil**  
Director - Research,  
Think & Ink Science Foundation, B'luru

**Dr. Manju Devi**  
Vice Principal, BTUITM, B'luru

**Dr. Kiran Kumari Patil**  
Professor, Reva University, B'luru

**Dr. Basavaraj S Patil**  
Data Scientist & Founder,  
Prediction Research, B'luru

**Dr. Narasimha Murthy**  
Professor (CSE), Vemana IT, B'luru

**Dr. A. Pauline**  
Prof & Head(CSE), MVJCE, B'luru.

**Dr. R. Balakrishna**  
Professor & Head (ISE), RRCE, B'luru.

**Dr. M. V. Vijay Kumar**  
Professor (CSE), Dr. AIT, B'luru

**Prof. Pradeep B Jyoti**  
Professor, RYMEC, Bellary

**Prof. C. Sivaprakash**  
Prof & Head(ECE), SSCE, B'luru

**Prof. R. Gunasekari**  
Prof & Head(EEE), SSCE, B'luru

**Prof. K. Sivasakthi Balan**  
Prof & Head(Mech), SSCE, B'luru

**Dr. P. Gangavathi**  
Prof & Head(S&H), SSCE, B'luru

**Prof. V. Bheemeswara Reddy**  
Prof & Head (MBA), SSCE, B'luru



## National Conference on Computational Simulation & its Applications

# NCCSA - 2015

### Registration Form

Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Organization : \_\_\_\_\_

Address : \_\_\_\_\_  
\_\_\_\_\_

Contact No : \_\_\_\_\_ Mobile : \_\_\_\_\_

Experience : Teaching : \_\_\_\_\_ Industry : \_\_\_\_\_ R&D : \_\_\_\_\_

#### Details of Registration fee

DD Number : \_\_\_\_\_ Date : \_\_\_\_\_

Name of the Bank : \_\_\_\_\_ Place : \_\_\_\_\_

Signature of the participant

The registration form along with Demand Draft has to be sent to :

**Sri Sairam college of Engineering**  
(Formally Shirdi Sai Engineering College)  
Sai Leo Nagar, Anekal, Bengaluru - 562 106.  
Ph : 080-27840631/32





International conference initiated by IQAC 2<sup>nd</sup> & 3<sup>rd</sup> May 2019





*Sri*

**SAIRAM**  
**COLLEGE OF ENGINEERING**  
Anekal, Bengaluru

ISO 9001:2015 certified Institution  
Approved by AICTE, New Delhi  
Affiliated to Visvesvaraya Technological University  
[www.sairamce.edu.in](http://www.sairamce.edu.in)

# **Internal Quality Assurance Cell Members list (IQAC)**





## List of IQAC members

S.N	NAME	Designation	Role
1	Dr. B. Shadaksharappa	Principal - SSCE - Bengaluru	Chairperson
2	Dr. R. Arunkumar	Management Representative SSCE - Bengaluru	Administrative Officer
3	Dr. G. Manjula	Professor & Head (CSE), SSCE - Bengaluru	Administrative Officer
4	Prof. C. Siva prakash	Professor & Head (ECE), SSCE - Bengaluru	Administrative Officer
5	Prof. K. V. Malini	Professor & Head (EEE), SSCE - Bengaluru	Administrative Officer
6	Prof. V. Balaji	Professor & Head (MECH), SSCE - Bengaluru	Administrative Officer
7	Prof. V. Bheemeswara Reddy	Head, Training & Placement Cell, SSCE - Bengaluru	Administrative Officer
8	Prof. Sharan Roji Priya	Assistant Professor - CSE, SSCE - Bengaluru	Faculty, Dept. of CSE
9	Prof. P. Gowri	Assistant Professor - ECE, SSCE - Bengaluru	Faculty, Dept. of ECE
10	Prof. Madhava Rao	Assistant Professor EEE, SSCE - Bengaluru	Faculty, Dept. of EEE
11	Prof. N. Rajesh Kumar	Assistant Professor MECH, SSCE - Bengaluru	Faculty, Dept. of MECH
12	Prof. Jyothi Sireesha	Assistant Professor S & H, SSCE - Bengaluru	Faculty, Dept. of S&H
13	Sri. K. Patel	Trustee & PRO, SSCE - Bengaluru	Trustee - Management
14	Sri. Srinivasa Reddy	Building Contractor, Bengaluru	Local Society
15	Sri. Girish. H	Head Operations, Agilets Private Limited,	Alumni
16	Sri. Shubendu Sharma	Director Products, Tofn Tech Pvt. Ltd.,	Alumni
17	Ms. Khushi Gujarathi	Student, Mech, 3rd Sem., SSCE - Bengaluru	Student
18	Mr. Kailash Jayakumar	Student, Mech, 3rd Sem., SSCE - Bengaluru	Student
19	Sri. Prabhudeva. V	Consultant, Tata Consultancy Services, Bengaluru	Employer
20	Sri. Rajanikanth Srivastav	MD, Green berry Management Consulting & Solutions, Bengaluru	Industrialist
21	Mr. V. Annamalai	Office Superintendent, SSCE - Bengaluru	Stakeholder
22	Dr. P. Gangavathi	Professor & Head S&H, SSCE - Bengaluru	Director of IQAC

Principal



## INTRODUCTION

Sri Sairam College of Engineering came into existence in the year 1997 with a Vision, Mission and Quality Policy to impart quality Technical Education to rural students of Anekal and its surroundings. Sensing the present scenario, The College offers Technical programs such as CSE, ECE, EEE and MECH – UG stream with an annual intake of 420 in Toto. Presently Research Centre – Mechanical Department is function in our College. Every Department is accommodated with Innovation Center in addition to Sri Leo Muthu Innovation Center. Sri Sairam College of Engineering located at Sai Leo Nagar, Guddanahalli Post, Anekal Taluk, Bengaluru has a pollution free environment, has the best infrastructure in all its necessary supporting facilities. The Laboratories of all branches are every now and then updated with ultra-modern equipment to suit the norms of VTU and AICTE. Total build-up area is 20,000 square meters and the total area owned by our Institution is around 45 acres.

## LIBRARY

Central Library works towards continual improvement in the direction of adding value to education quality of Sri Sairam College Of Engineering. Taken care of developing all key areas which in collectively gives positive growth. The Library added about 650 books up-warding its collection to 27500 volumes and 4700 titles. Library subscribes to about 50 print versions of current periodicals. Library is a member of VTU e-consortium, getting access to world reputed technical e-resources which includes, e-journals, e-books, standards, and databases.

## Achievements in the academic year 2017-18

- Conducted 07 user training programs on e-resources and other special areas in Library usage.
- Developed institutional repository using D space Digital Library Software.
- Library staff published 02 research papers in peer reviewed UGC approved journals.
- Developed innovative services useful for present day context.

## INTERNET / EDUSAT / E – VIDYA

Everybody is associated to e-learning in one way or other, "Silence is unnatural to man" - Robert Lynd. "Communication plays an important role in teaching" Currently our College has 60 Mbps 1:1 dedicated leased line connectivity and is fully Wi-Fi enabled. Interactive EDUSAT arrangement, where the students are taught and interact with experts of various streams through satellite using video conferencing mode is available. The subject material can be recorded and stored for ensuing years. Digital video of entire course is processed; recorded and stored in MP4 format with a High end server, which can be accessed by Wi-Fi connectivity through Laptop or any basic multimedia PC.

## VTU - e - SHIKSHANA

VTU e-learning Center, has taken up a new initiative in enriching knowledge and empowering Education through implementing Virtual Interactive e-Learning platform named as "VTU e-Shikshana – Empowering Education through e- Learning Platform", which enables the students of VTU to Interact with eminent scholars in a immersive e-learning environment. This interactive e-Learning platform enables video conferencing which allows the users to have seamless live video and audio streaming experience. e-Shikshana platform will be used to receive

1. Live lectures from the eminent personality – "Talk to Teacher".
2. Industry interaction programs
3. Video conferences with VTU officials / Principal's meeting / Bos / BoE/ meeting etc.,
4. Special programs for Research Scholars
5. Faculty enrichment programs
6. Career Guidance
7. Special talks by Scientist, Entrepreneur and Research etc.

The e-Shikshana may also be utilized to conduct webinars, conferences and workshops from our institute in coordination with VTU e-Learning centre, Mysuru.

## RANKINGS & RATINGS

### RATINGS

Rated as "Best P & P Organization" by Association of Scientists & Developers and Faculties (ASDF)

### RANKINGS

OUTLOOK MAGAZINE - Ranked 8th Place in Bengaluru, 13th Place in Karnataka & 77nd Place India.



T. 2

TIMES SURVEY MAGAZINE - Ranked 10th Place in Bengaluru, 12th Place in Karnataka & 92nd Place India.  
DATAQUEST MAGAZINE - 5th Place in Bengaluru, 11th Place in Karnataka & 55th Place in India.  
EDUCATION WORLD MAGAZINE - Ranked 9th Place in Bengaluru, 15th Place in Karnataka & 92nd Place India.  
HIGHER EDUCATION REVIEWS - Ranked 5th Place in Bengaluru, 11th Place in Karnataka & 41st Place India.

## PHYSICAL EDUCATION

In our institution academic and physical education are given equal importance to prove that. "A Sound mind in a Sound body". In USA the Physical Education Director would be considered as equal as physician. Our Physical Education Director moulds the students both physically and mentally to conquer any type of challenge in the current world. It is mandatory to organize and attend VTU Tournaments, Inter, Intra College and Department events, to bring out the Sports spirit in them, so that students can exhibit their talents in Sports.

1. The VTU Bengaluru South Zone Kho-Kho Tournament for Men was conducted on 06th April 2018 at our College Campus.
2. 10th Sai Leo Trophy – An state level Inter Engineering College Kabaddi (Men & Women) and Volley Ball (Men) Tournament was successfully conducted on 17th & 18th April 2018. Among all the teams reported, the Men's Kabaddi with an exceptional performance, our College was the Winner and Women's Kabbadi of our College was the 2nd Runner up.
3. Sports day was organized on 27th and 28th of September 2018 and an Athletic Meet on 13th October 2018 at our College Campus successfully.
4. VTU Inter-Collegiate Archery Competitions for Men and Women was held on 21st & 22nd Oct 2017. Mr. Arun – MECH Dept. has procured 02 Gold medals in 30 meters & Silver medal in 50 meters and Ms. Pooja Y S ECE Dept. bagged Silver Medal in 30 Meters and Bronze Medal in 50 Meters.
5. VTU South Zone Kabaddi Men's Tournament was held on 21st & 22nd April 2018, organized by and at the Jyothi Institute Of Technology, Bengaluru. The Sairam Kabaddi Team participated and executed an incredible performance and won this grand tournament.
6. Inter-University Archery Competition at Krishna University, Machilipatnam, Andhra Pradesh held on 09th to 14th February 2017.
7. State level Inter Engineering College Sai Leo Trophy Kabaddi (Men) Tournament II Runner up – 2017.
8. VTU Bangalore south zone Intercollegiate Kabbadi Tournament Winners up 2018.
9. In Archery competition Ms. Chethana G, 2nd Year, Dept. of CSE bagged Gold Medal in 30 meters and Bronze medal in 50 meters.
10. In Archery competition Ms. Pooja Y S, 2nd Year, Dept. of ECE bagged Silver Medal in 30 meters and Bronze medal in 50 meters.

## NSS

Academics, administration and high discipline make the man perfect. Our NSS unit moulds and hones our student's community towards social responsibility. Programs like One day and special camps, Blood Donation camps, tracking and plantation lead to unity and integrity, patriotic thinking generosity, courage and other good quality to make the good citizens.

1. 07 days NSS Annual Special Camp held on 19th to 25th Jan 2018 at Thamanayakanhalli village.
2. Blood Donation Camp organized by NSS Unit was held at Sri Sairam College of Engineering campus, Bengaluru on 02nd April 2018.
3. Our College NSS Unit organized Health Awareness and Drugs Abuse Program of our institution was conducted on 14th November 2018 at our College Campus efficaciously.

## ALUMNI ASSOCIATION

The Sri Sairam College of Engineering Alumni Association has always been an integral part of Our College. Alumni Association is registered under Karnataka Societies Registration Act 1960 in month of Sep 2018, with its registered office at our College Campus. It is formed to organize the achievement of our Alumni, as they are the actual assets and the brand ambassadors of SSCE. The mission of the Association is to encourage Alumni involvement in the support and promotion of students and Alumni of SSCE. More than 300 Alumni participated right from 1997 batch. Alumni association financially supports poor and meritorious students by offering scholarships. Every year an Alumni Meet is conducted to bring together the Alumni of the College, Alumni Meet conducted on 16th Dec 2018 at our College Campus in Grand Manner



## PLACEMENT

Currently most of the recruiters expect students with enormous academic standard, logical working and software support. We have a full-fledged, Placement and Training Cell that helps to hone and prepare the students for the industry, thereby increasing employment ratio. The students are well trained in all related fields to face the interviews with continuous practice in skill and aptitude tests. The ultimate result is the cell has a constant success rate in placing the students in IT Industries and Multinational Companies.

PLACEMENT DETAILS					
For the Year	Total No. of Company Visited	Branch	No. of Student Placed	No. of Offers Received	Average Pay (Rs.)
2017-18	42	ALL Branch	167	347	3,75,000 p.a.

## GRANTS RECEIVED FROM VARIOUS BODIES

Sl. No.	Grants Received From	Amount (Rs.)	Number of Projects
01.	IEI	4,70,000	08
02.	KSCST	1,54,000	31
03.	AICTE	39,10,000	06
04.	VTU	10,50,000	04
05.	DST	50,00,000	01
06.	VGST	2,70,000	04
07.	ISTE	65,000	01
08.	EDI	3,00,000	10
09.	SIEGER	6,00,000	01
	<b>TOTAL</b>	<b>1,18,19,000</b>	<b>66</b>

## DEPARTMENTS ACHIEVEMENTS & ACTIVITIES

### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING EVENTS CONDUCTED

1. Our Students Mr. Naveen & Mr. Kiran participated in Symposium conducted by Adhiyamaan College of Engineering on 25th & 26th September 2019 and won second prize.
2. Our Third Year students participated in Makeathon conducted by College of Engineering, Pune 15th and 16th September 2018.
3. Advaya 2018 – organized by CSE Dept held on 18th & 19th Sep 2018.
4. Kiran J & Naveen RS students of CSE Dept, Participated and Won 2nd Prize in Paper Presentation, Organized by Adhiyamaan College of Engineering, Hosur – CRYPTO 2K18 held on 25th & 26th Sep 2018.
5. Our CSE students won the BEST IDEA AWARD at Makethon conducted at Jain University on 3rd and 4th October 2018.
6. Our students, Department of CSE, bagged the first place – "BEST SOCIAL BUSINESS IDEA AWARD" – in MAKETHON, conducted by Jain University, Bengaluru, held on 5th & 6th Oct 2018.
7. Our CSE Students Participated Oracle Academy Student Day Event workshop organized By Oracle Academy an ICT Academy on 12/10/2018.
8. CSE Alumni Mr. Rachit Arora - CEO, WISSENQUILLE ROBOTICS presented 3D printer on 17th October 2018.
9. Our Students Mr. Sujith Nair Won First Prize in Just a Minute in Navanveshana-National Level Technical Symposium in project Competition held at AMC Engineering College on 02.11.2018.
10. Virtual Reality (VR) Lab Team visit to VTU, Belgaum - First meet: 07/06/2018, second meet 19/11/2018.



11. 6th International Conference i7C – 2018 on "Chip, Circuitry, Current, Coding, Combustion and Composites" , Organized by CSE & EEE Dept in association with IFERP, held on 28th & 29th Nov 2018.
12. Our CSE team "TITAN" stood one among the Top 10 in School of Innovation India from Face book and SV.CO Competition.
13. Our Final Year students participated in VELTECH, organized at Chennai on 23rd and 24th February 2019.
14. 5 days Inter Department Workshop on Android App Development on 28th Feb 2019 to 4th of March 2019.
15. Our CSE students participated and won first prize in hardware sector and consolation prize in software sector in Project Expo 2K19, organized at Adhiyamaan College of Engineering on 11th and 12th March 2019.
16. 5 days Inter College and inter Department Workshop on VR and AR 16th march 2019 to 20th March 2019.
17. Our Final Year students participated in Student Innovator Award, organized at Alliance University in association with ICT Academy on 22nd March 2019.
18. Our Final Year students participated in 5th NCAIT 2019 organized by JSS Academy of technical education on 10/4/2019 to 11/04/2019.
19. 5 days Workshop on Arduino based Robotic Camp in association with Srisha Robotic Academy 21st march 2019 to 25th march 2019.
20. Our CSE Students Participated in IOT workshop Organized by New Horizon College of Engineering.
21. Our CSE student Mr. Jayateertha of 2nd year has bagged many awards from BBC and Microsoft for identifying the bug in their website in the month April, May and July 2018

### RESEARCH CONTRIBUTION BY FACULTIES

Sl. No.	Staff Name	Total number of publications in International/National Conference/Journals
1	Dr. B. Shadaksharappa	19
2	Prof. Raghavendra Rao	7
3	Prof. Kalamani P	10
4	Prof. Manjula G	7
5	Prof. Sharon Roji Priya	4
6	Prof. Sheela Devi	5
7	Prof. Shalini KV	6
8	Prof. Reji Thomas	4
9	Prof. Jeyadevan	2
10	Prof. Nisha MS	3
11	Prof. T K Pradeep Kumar	4
12	Prof. Lorate Shiny	12
13	Prof. Sanjana Y	2
14	Prof. Sowjanya S	2
15	Prof. Sowmya AM	3
16	Prof. Arpitha Vasudev	5
17	Prof. Pradeepa C	1

### MOU's

Sl. No.	Name of the Organization
1.	SRISHA TRANSFORMING SOLUTIONS PVT.LTD, ANEKAL
2.	TEQUED LABS PRIVATE LIMITED, BANGALORE
3.	RED HAT
4.	PALOALTA , BENGALURU
5.	AWS EDUCATE
6.	ICT ACADEMY, BENGALURU



## PATENTS

1. A Patent on "Vehicle Breaking System in Hill Station" has been filed and published by Dr. B. Shadaksharappa, Computer Science & Engineering in the Year 2018. Patent No.201841038947A
2. A Patent on "A Data Storage Device" has been filed and published by Dr. B. Shadaksharappa, Computer Science & Engineering in the year 2018. Patent No.201841047222A
3. A patent on "Domestic Birds Protective System " has been filed and published by Dr. B. Shadaksharappa and Raghavendra Rao B. Kulkarni, Computer Science & Engineering in the year 2019. Patent No 201941001507A.
4. A patent on "Quantum Computing based System and Method for Geometry Recognition" has been filed and published by Dr. B. Shadaksharappa and Raghavendra Rao B. Kulkarni, Computer Science & Engineering in the year 2019. Patent No. 201941001501A

## INNOVATIVE PROJECTS COMPLETED PROJECTS -2018

Sl. No.	TITLE
1.	Edu Vista – A Virtual Learning Experience
2.	Krushi Roboter – "Future Farmer's Friend"
3.	SWA-PAR – "Controlling and Monitoring of Waste Management"
4.	JEEVANRAKSHA – "Automobiles Accident Detection using Black Box System"
5.	HEAD MOVEMENT - Controlled System to Assist the Physically Challenged People using IoT
6.	Global Bus Monitoring & Alert System
7.	Avrika – "A Multitasking Bin"
8.	Krushi Rakshak – "A New Approach Of Protection And Intimation For Agricultural Land "
9.	Smart Healthcare Using Android Application
10.	SIRASTRANA – "A Smart Helmet for Air Quality and Hazardous Event Detection"
11.	Dustless Environment using "Neagh Device"
12.	Hand Gesture Based Surveillance Robot
13.	NIVARTHAKA – "An Agriculture Drone"
14.	KAPIDWAJA – "A Smart Initiative for Automobiles in Road Safety"
15.	Swagger Machine to Survey the Ocean
16.	Samarthyam – "Advanced Footstep Power Generation System"
17.	Automatic Pill Dispenser
18.	Food Hub – "A Model for Ordering in Restaurant Based On QR Code Without Manual Presence"
19.	Detection of Broken Railway Tracks and Obstacles

## INNOVATIVE PROJECTS ONGOING PROJECTS

Sl. No.	Title
1.	SMART LAB- smart learning using augmented reality
2.	Neck movement controlled wheel chair using IOT
3.	Automated movable dustbin
4.	Low cost wearable alert notification system for deaf and blind people
5.	Voice Controlled Robot
6.	Photo OCR for blind
7.	Pest Control using Image Processing
8.	An Automated Robotic Restaurant
9.	Real time big data analytics on day trading
10.	Sparsha Nethra: Digital Braille
11.	An Office Robot Receptionist using AI
12.	Bionic Arm
13.	Smart Road Divider using IoT



14.	Monitoring and Maintenance of highway bridges using wireless sensors
15.	Pothole detection system
16.	lassist
17.	Data projection on smart mirror
18.	Never lose things (BLE Proximity Sensor)
19.	Intelligent Image Processing for Recognizing Brain Tumor

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERI

### EVENTS AHEAD

- Organized Student Workshop titled Essentials for career enhancement with "C++ & MATLAB" on 31.07.2018
- Student Workshop – Embedded System Design using Arduino 24.01.2018 to 28.01.2018
- LIVAZ - 2k18 organized by the dept during 13.03.2018 & 14.03.2018.
- Hands on Training on "Design and Development of IoT using Raspberry Pi" 13.11.2018 to 17.11.2018
- Industrial visit organized for the students
  - 7th sem - "Madras Atomic Plant" at Kalpakkam on 12.10.18
  - 5th sem - TVS Motors, Mysuru & Kelavarapalli Dam in Hosur on 27.07.2018
  - 3rd sem - TVS Motors, Hosur
  - 3rd sem - TITAN Industry - Hosur on 11.08.2018
  - 3rd & 5th sem - Akshaya Patra Kitchens ISKCON Bangalore on 07.08.2018
- LIVAZ - 2k19 organized by the dept during 03.04.2019 & 04.04.2019
- All Faculty members are IEI Activity such as Students Seminar, Video presentation, Poster Presentation, Quiz,
- Hands on Training For students with respect to all subjects in every semester.
- Extended Learning Program for ECE students is effective.
- Industrial Visit to ALL INDIA RADIO at Bangalore on 05.04.19.
- Dristi Online Contest – 3 students selected. These students will awarded by Launch Pad.
- Odd Semester 14 Faculty of ECE has taken NPTEL Exam and passed.
- Even Semester 07 Faculty & 95 Students of ECE have registered.
- TCS TECH Bytes - Kishore, Nischay, Rangaswamy, Hemsai were participated in Tech Bytes -2019 at SJBIT BANGALORE.

### FACULTY AWARD DETAILS

S.NO	Faculty Name	Award – Title & Organization
01	C. Sivapraksh	Best mentorship award- by RV VLSI Design Bengaluru
		Best Academic Circuit Faculty Award – by ASDF
		Green Thinkerz Outstanding Educator Award 2018 – contribution in the field of Network Security & Instrumentation

### MOU's

Sl. No.	Name of the Organization
1	M/s Edgate Technologies, Bangalore
2	M/s Impressive Automation Services Hosur
3	Loginware Softtec Pvt. Ltd. #40/163, 1st floor opp Bharathi Associates, BM bypass road, Boovanahalli, Hassan-573201 Karnataka, India
4	Tequed labs private Limited Bangalore



## RESEARCH PUBLICATIONS

Sl. No.	Faculty Name	Research Publication Title	Remarks
1.	C.Sivaprakash	Configuring & Implementation of Multi Label Switches	JETIR, Feb 2019,
		An Intelligent Power Shutdown System for Power Saving Applications.	IJERECE May 2018
		Automatic detection & removal of CO in LMV,S	
2.	A. Poonguzhali	Video Surveillance in Public Transport Areas Using Semantic Based Approach	JETIR Feb 2019, VOL 6 , ISSUE 2
		Smart Garbage Detection System	IJERECE May 2018
3.	P.Gowri	Early Glaucoma Diagnosis Using Fundus Images -Review	May 2018
4.	B.Srilatha	Advanced Driver Assistance Systems for pedestrian Crossing Detection	IJERECE May 2018
5.	G.V.Raja	Smart Shopping Cart for Automatic billing in supermarket	IJERECE May 2018
6.	K.P.LinijaShylin	Smart helmet for underground workers	IJERECE May 2018
7.	Santhamoorthy.S	IOT based fault diagnostic device for photovoltaic panels	IJERECE May 2018
8.	Suganya.J	Automatic Wheel Chair	IJERECE May 2018
9.	Deepa.R	Android Controlled Wildlife Observation Robot	IJERECE May 2018
10.	Halesh H.R	Auto Smart Fertilizer	IJERECE 2018 May
11.	P.Venugopal	Smart Metro Station For Public Safety	IJERECE May 2018
12.	Geetha.R	Enhanced life jacket with GPS & GSM Modules	IJERECE May 2018
		Detection of path holes on roads	IJERECE May 2018

## PATENT DETAILS

Faculty Name	Title of Invention	Patent No.	Date of Filing	Publication Date
Prof. Sivaprakash C	Flood Drainage System	20184L042709 A	13/11/2018	23/11/2018
Prof. G.V. Raja	A Wheezing Detection device	20184T038882 A	28/09/2018	17/10/2018
Prof. Sivaprakash C	Quantum computing based system and method for geometry recognition of an object.	201841001501A	13/01/2019	25/01/2019
Prof. Sivaprakash C	Domestic Birds' Protective System	201841001507A	13/01/2019	18/01/2019



## INNOVATION PROJECTS

### Smart India Hackathon 2019-Participated In Finals

1. Team Hacktricks-Worked on Increasing The Efficiency of Engine
2. Team Avishkar -Worked on Speech Recognition
3. Team Incognito -Worked on Online SCR Efficiency Monitoring

### SIH HARDWARE PROJECT

1. Anti-poaching of trees using wireless sensor nodes with internet of things (IOT)

### VTU Selected Project

1. Audio Transmission Over Visible Light
2. Anti-poaching of trees using wireless sensor nodes with internet of things (IOT)

### KSCST PROJECT

1. Anti-poaching of trees using wireless sensor nodes with internet of things (IOT)

### COMPLETED PROJECT

1. Bouyanci Product Innovation Challenge-2018 .Head light dipper

### ONGOING PROJECTS

1. Cognitive sensors perimeter based investigation.
2. Drone supply Ammunition and Med kits.
3. Design of Satellite.
4. Kroto finder-Crack Detection in Oil Pipes.
5. Solar powdered unmanned marine robot with radar system.
6. Drone Jammer.

### FUTURE PROJECT

1. IIGP
2. Swarm Robo- AI Based Surveillance
3. Space Instruments

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### EVENTS AHEAD

1. IEDC organized Fifth advisory board meeting and project review meeting held on 23rd Jan 2019, Dr. Naveen Vasishtha, Director, DST, Govt. of India, our CEO & Chairman Sri Saiprakash Leo Muthu and other Advisory Board members marked their presence and reviewed the progress of IEDC activities.
2. The students and Staff of EEE participated in a Webinar on the topic Cyber security-"What malicious hacker can Do??..." hosted by QOS Technology, COE, Govt. of Karnataka " updated about the issues concerned to password hacking, social media morphing and several online issues and the ways to protect their online accounts through Q&A with speaker Mr. Murali M on 06/02/2019.
3. The Department of Electrical & Electronics Engineering, Nature & Wild life club and Energy Efficiency club jointly organized One day program about "Care for Nature Harness solar power ", by Mr. Kumaran, National Institute for Solar Energy, MNRE, Govt. of India, held on 19/02/2019.
4. The Second year Electrical and Electronics Engineering students are participated and present technical paper in national level conference at PMC Tech, Hosur in association with IEEE on 25/02/2019.
5. The Department of EEE and Dept. of ECE have organized Program on "CAREER OPPORTUNITIES IN THE FIELD OF SEMICONDUCTOR INDUSTRY" for the 6th semester as well as 8th semester students of Department of EEE and Dept. of ECE on 27th February 2019 @11.30pm to 1.00pm in seminar hall. To create an awareness on the opportunities in the semiconductor industry.



6. 02 Days Workshop on "Android Studio" Organized by CSE Dept held on 28.02.2019 & 01.03.2019 and Mr. Abishek Kumar IV Semester EEE won 2nd prize.
7. The students of EEE participated in 5 days Workshop on "VR and AR"- Organized by Dept of CSE, held from 14th to 18th Mar, 2019 and learnt about building electrical machine models on VR and AR .
8. Students of EEE participated in the Drone Technology workshop held on 14th to 18th march 2019 and created pilot drones.
9. The Department of Electrical and Electronics Engineering had organized one day industrial visit to 220 KV Electricity transmission and Distribution Center Sommannahalli, Kanakapura road, Bangalore for all students and staff of EEE to understand the operational and working principal of transmission and distribution, maintenance and latest technology which was briefed by Executive Engineer Mr. Pradeep" on 5th April 2019.
10. The NSS unit, Nature and Wildlife club, Dept. of EEE celebrated "World Sparrow Day-Save Birds" by creating waterholes and spreading grains in the campus as an initiative to support the green campus and an ecosystem on 8/4/19. Principal Dr. Y. Vijaya Kumar, Management representative Dr. Arunkumar Rajendran joined the campaign and appreciated the students initiative.
11. Guest Lecture on "The Role of motivation in professional success" organized by the Electrical and Electronics department in association with IEDC And ISTE Student chapter at Temple of consciousness, Hosur, Lecture delivered by Mr. Ranganathan, President, Temple of consciousness held on 10th August 2018.
12. One day hands on Workshop program on INDUSTRY 4.0 by Mr. Harish Ravi, CEO, BIASS, BANGALORE in association with ISTE and IEI Student chapter, Organized by EEE Dept on 3rd September 2018.
13. MILAGRO' 18 one day National Level Technical Symposium organized by Dept. of EEE on 11/09/2018.
14. 6th International Conference i7C – 2018 on "Chip, Circuitry, Current, Coding, Combustion and Composites", Organized by CSE & EEE Dept in association with IFERP, held on 28th & 29th November 2018.

## AWARDS

S.no	Date	Particulars	Award	Awarded by
1.	31/12/2028	Prof. Malini K V HOD, EEE	Certificate of Recognition for organizing the <b>NATIONAL CHILDREN SCIENCE CONGRESS-NCSC2018</b> , at Bhubaneshwar, Odisha on 31 <sup>st</sup> dec, 2018	Shiksha o'Anusandhan University, Odisha & DST(NAC)

## RESEARCH PUBLICATIONS

Sl. No	Name	Designation	Title	Type	Date and Place
1.	Mrs. Malini. K.V.	Assistant Professor	Cleaning of Vernacular Railway Tracks Using Drone	International conference I7C2018	28 <sup>th</sup> & 29 <sup>th</sup> November 2018, SSCE, Anekal
2.	Mrs. Gunasekari R	Assistant Professor	Vehicle Monitoring and Security System	International conference I7C2018	28 <sup>th</sup> & 29 <sup>th</sup> November 2018 SSCE, Anekal
			Charging Station For E-Vehicles		
			Inspecting The Results Of Renewable Energy Source Of Solar Botanic Trees Using		
3.	Mr. Prashantha.K	Assistant Professor	Smart Power Generation in Urban Areas	International conference I7C2018	28 <sup>th</sup> & 29 <sup>th</sup> November 2018 SSCE, Anekal
4.	Mr. Madhava Rao	Assistant Professor	Super Capacitors: The Future Batteries	International conference I7C2018	28 <sup>th</sup> & 29 <sup>th</sup> November 2018 SSCE, Anekal



5.	Mrs. Ramya. K	Assistant Professor	Smart Controller for Grid Stabilization in Optoelectric System	International Journal of Electrical Engineering Education, Sage Publication	29 <sup>th</sup> November 2018 (Scopus)
			DSVM De-Coupled Control Scheme Grid Connected 1- $\phi$ Riven Bias Inverter To Suppress High Frequency Current Commutation	International Journal of Electrical Engineering Education, Sage Publication	1 <sup>st</sup> December 2018 (Scopus)

### INNOVATIVE PROJECTS KSCST FUNDED PROJECT

Sl. No.	Project Title	Students Name	Guide Name
1.	Aerial Vehicle, Wiper Equipped Image Processing for Maintenance of PV Panels and Security System(AVIMPS)	1. Hitesh Kumar Choudhary 2. Netharavathi J 3. Sunil Haroli	Prof. Gopinath K Prof. Malini K V

### VTU PROJECTS

Sl.No.	Title	Name of the Students	Project Guide
1.	Micro Avionic Robotic Drone (Dragan Fly)	Rakshith Kumar Naik	Prof. Prasantha K Prof. Malini K V
		Vijay Kumar M G	
		Manjunatha S	
2.	Aerial Vehicle, Wiper Equipped Image Processing for Maintenance of PV Panels and Security System(AVIMPS)	Hitesh Kumar Choudhary	Prof. Gopinath K Prof. Malini K V
		Netharavathi J	
		Sunil Haroli	
		Bharath H P	
		Harshith H	

### COMPLETED PROJECT LIST

Sl. No.	Title
1.	SNEA – Using Opto Electric System
2.	POD the Future Car
3.	SHWA'18 (Solar Powered Heterogeneous Wearable Adopter) – Charger for the people on move
4.	I-DOPS (Intelligent Pollution Detection in Vehicles)
5.	IOT Based Multi Parking
6.	SWINGS – W CARE for Hygiene - Sanitary Napkin Vending Machine



## ONGOING PROJECTS

Sl. No.	Title	Name of the Students	Internal Guide / External Guide
1.	Early Detecting Forest Fire	Mubarak S	Prof. Ramya K Prof. D A Vennila
		Asha K	
		Meghana S N	
2.	Solar power battery Backed health care Freezer for remote Region	Mithun V	Prof. Madhava Rao J Prof. Malini K V
		Kishore Kumar K	
		Kavya	
3.	Smart effluent Monitoring system For lake Conservation	Sowmiya C	Prof. Gunasekari R Prof. Malini K V
		Bharath H P	
		Harshith H	
4.	Camouflage Technique based Multifunctional Army robot	Balaji	Prof. Gunasekari R Prof. Malini K V
		Arun P K	
		Gourav T	

## MECHANICAL DEPARTMENT ACHIEVEMENTS MOU'S

Sl. No.	Particulars	Date
1.	Signed MoU with "Karnataka German Technical Training Institute, Bengaluru" for developing students Skills	10.01.2019

## INNOVATIVE PROJECTS

Sl. No.	Innovative Projects
1.	Groundnut Thresher
2.	Received parts from Texas Instruments worth of \$600 to improve 3 projects 1. Autonomous Underwater Vehicle 2. Bore well rescue Robot 3. Fire Fighting Drone
3.	Formula 1 Vehicle

## RESEARCH CONTRIBUTION BY FACULTIES

Sl. No.	Paper Title	Faculty Name
1	"A Review & Replacement of a Synthesized Particulate Reinforced MMC by Natural Particulate Reinforced MMC"	Dr. Anil kumar
2	"Design & fabrication of innovative Plowing machine"	Aruna Shanbhog
3	Review Paper: "Overview of the Vertical Axis Wind Turbines"	Durai J
4	"ABY-a friendly library assistant"	Ramya R
5	"A review on advanced materials"	Vinodkumar Biradar
6	"Study on behaviour of cfst inclined column subjected to vertical load using an sys software"	Ayiswarya G
7	"Evaluation of Critical Strain Energy Release Rate for Mode II Crack Propagation in Glass/Epoxy Composites"	Jeyasri J
8	"Design and Selection of Steering and Brake System for a Go-Kart Vehicle"	Rajini R
		Sridhar C S
		Rajini R
		Yogananda B S
		Aruna Shanbhog
		Vijai R



9	"performance characteristics of IC Engine fuelled with different blends of bio-diesel obtained from Mahua oil"	Balaji.V
10	"A review on CNC Machines"	Vijai R

## ACHIEVEMENTS

Sl. No.	Particulars	Date
1.	Our 2nd Year Mechanical students successfully completed Industry Consultant Project – Groundnut Thresher for Nandhana Gardens	08.04.2019
2.	Our 6th Semester Mechanical Student Syed Abubakkar received "Best Non Circuit Student Award" from ASDF which is held in Hyderabad	06.04.2019
3.	Our 8th Semester Mechanical Student Alok Shome received "Emerging Researcher Award 2018" from I2OR which is held in Chandigarh	05.04.2019
4.	Our Alumni Mittu Kumar Jha of 2014-18 batches has secured II rank in University level.	18.03.2019
5.	Prof. Balaji.V has published two Patents. Domestic Birds Protective System. Quantum Computing based System and method for Geometry recognition of an object.	Jan 2019
6.	Prof. Harish Babu. L received grants of Rs 3,00,000/- from VTU to organize Workshop on design and fabrication of GO-KART vehicle(women) under TEQIP Cell	25.03.2019
7.	Borewell Child Rescue Robot, has secured the overall winner with Rs.15000/- cash prize, in Karnataka Student Innovator Award 2018, Organized by ICT Academy, at Alliance University, Anekal, Bangalore.	22.03.2019
8.	Manav Esha Yanak (Human Powered Hybrid Single Seated Car) has been awarded Second Prize in Kerala Government Engineering Design National Award during 21 st ISTE Students National Annual Convention organised by L.D college of Engineering and technology in association with ISTE, Ahmadabad, Gujarat	28.01.2019
9.	1st International Conference on Maritime Autonomous Surface Ship (ICMASS 2018), participated by 2 Mechanical Faculties Coordinators, held at Busan Exhibition and Convention Center (BEXCO), Busan, Republic of Korea	8.11.2018
10.	Hemanth.C. Reddy of 7th sem Mechanical Engineering awarded as BEST STUDENT AWARD for 2018 by ISTE Karnataka section held in Mangalore Institute of Technology	06.10.2018
11.	Honorable Deputy CM of Gujarath, Sri.Nitinbhai Patel awarded Our Team Drona's Fire Fighting Drone – has selected as one of the 25 winning team in Idea Phase Challenge – Received a grant amount Rs.10,000/-	12.10.2018
12.	A state-of-the-art BMW engine and transmission unit was donated by BMW at no cost to our institute for learning purposes	07.09.2018
13.	Best College Award by DEM for Industry Practice.	-

## Status of Faculty pursuing Ph.D.in the Institution

Sl. No.	Name of Faculty	Department	University
1.	Mrs. P Kalamani	CSE	Amrita University
2.	Mrs. G Manjula	CSE	VTU Belagavi
3.	Mr. Jeyadevan S	CSE	VTU Belagavi
4.	Mr. Raghavendra Rao	CSE	JNTU, Hyderabad



5.	Mrs. P Gowri	ECE	Amrita University
6.	Mrs. J Suganya	ECE	Amrita University
7.	Mrs. A Poonguzhalli	ECE	Pondicherry University
8.	Mr. C Siva Prakash	ECE	VTU Belagavi
9.	Mrs. R Geetha	EEE	VTU Belagavi
10.	Mrs. R Gunasekari	EEE	Saveetha University
11.	Mr. Madhava Rao J	EEE	VTU Belagavi
12.	Mrs. Ramya K	EEE	Periyar University
13.	Mr. Balaji V	MECH	VTU Belagavi
14.	Mr. Durai.J	MECH	VTU Belagavi
15.	Mr. V Bheemeswara Reddy	MECH	VTU Belagavi
16.	Mr. Vinod Kumar Biradar	MECH	Sharana Basava University, Kalburgi
17.	Mr. Venkatesh P	S&H	VTU Belagavi
18.	Mrs. S Manjula	S&H	VTU Belagavi
19.	Mrs. Sasikala J	S&H	Amrita University
20.	Mrs. P Rathna	S&H	Bharatiar , Coimbatore
21.	Dr. Shailashree S	S&H	VTU Belagavi – Completed
22.	Dr. Srilatha B	ECE	Gitam University - Completed





*Sri*

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# Solar Energy Plant



## SOLAR ROOFTOP PV PLANT

A REPORT ON 212KWp GRID CONNECTED SOLAR ROOFTOP PV PLANT AND SMALL SOLAR POWER PLANT UNDER RESCO MODEL- INSTALLATION & COMMISSIONING

We at SSCE to promote the green campus culture promoted the usage of renewable energy for the Power generation and supplying to grid. To mitigate the dependence on raw power supply and to encourage environment friendly solar electricity generation the management has taken an initiative to produce clean energy and supply back to grid. The 212KWp PV plant is commissioned and installed correctly and safely as per the guidelines of BESCOM .The supplier being Ravindra Energy Limited the energy block bidder of SECI tender for Karnataka state has commissioned the project. The flagship project is ready to go for complete utilization and supply the power to grid. The mechanical and electrical aspects are inspected to check the compliance with the norms before the official commissioning process. Most importantly the grid –direct system safety norms are thoroughly checked as per the manufacturers manual .The plant is expected to produce 3,50,000 UNITS annually and supply to grid with the provision of Net-Metering. The commercials like BESCOM EXPORT tariff rate of Rs.4.83 unit is fixed for next 25 years irrespective of any changes in the market price has been agreed and signed. With this move, the campus is provided with the continuous power supply, clean energy with less maintenance and capitalization of the available space for the rightful purpose.

Plant consist of following major equipments

- 1) Total number of solar panels 655 No.s each of 325Wp of vikram solar make with efficiency of 16.7%.
- 2) Solar Grid tied inverter 50Kw 4 No.s (Make power one micro system )with an efficiency of 98.1%
- 3) Array junction box of 4 no.s having fuse and fuse links 15 amps dc current and SPD (Surge Protection Device) (Make Mersen).
- 4) ACDB- Consisting of MCCB 100 Amps 4 Pole 4 No.s make ABB with SPD make Mersen and Isolator make of Socomec Switch 400 Amps 4 Pole.
- 5) LT Metering Panel consisting of 4 Pole 400 Amps and Isolator Switch 4 pole 400 Amps with BESCOM Approved Genus Meter 3 phase 4 wire.
- 6) Lighting Arrester ESE type make use of Infinite Electro tech pvt ltd of having 54 meters radius covering area.
- 7) Earthing rod make true power solution total 22 No.s pit .

M. R. J.  
(Madhava Rao. J.)  
EEE Dept.



**SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU**

**Admn. Office, T.Nagar, Chennai – 17.**

No. 19/SSCE/BLR/SOLAR POWER PROJECT/2018

Dated: 17.11.2018

Sub: SSCE – BLR – Administration – Power Purchase Agreement for Solar Rooftop Power Project from M/s. Rhibhu Rooftop Solar Solutions Limited - Duly signed by CEO - Returned - Reg.

Ref: Your Letter No. SECT/T.O/8307/MISC/2018 dated 30.10.2018.

**ORDER:**

Find enclosed herewith The Power Purchase Agreement for 210 KW Solar Rooftop Power Project from M/s. RHIBHU ROOFTOP SOLAR SOLUTIONS LIMITED received in the reference cited duly signed by CEO is returned for necessary further action at your end.

For SRI SAIRAM COLLEGE OF ENGINEERING,

(Sd/xxxxxxxxx)

CHIEF EXECUTIVE OFFICER

/ By order of Chief Executive Officer /

EXECUTIVE DIRECTOR 3/4

Encl: 1. Power Purchase Agreement  
2. Completion Report.

To:

The T.O.S.M,  
Sri Sairam College of Engineering,  
Bengaluru.

Copy to:

- > Treasurer.
- > The Principal, SSCE, Bengaluru.
- > Accounts Section.

M/20/11

2/11/2018

22/11

22/11



# SAPTHAGIRI EDUCATIONAL & CHARITABLE TRUST®

Admin. Office : # 21, 7<sup>th</sup> Main, Road, 4<sup>th</sup> Block, Jayanagar, Bangalore - 560 011.

Phone : 080 - 2663 5623 / 2245 5361 Fax : 080 -2245 1802

Email : contact@ssec.ac.in,

Founder & Chairman : MJF.Ln.Leo Muthu

20.11.2018

To,  
M/s. Ravindra Energy Ltd.,  
BC - 109, Havelock Road - Davidson Road  
Camp, Belgaum,  
Karnataka - 590001

Sir,

Sub:- (i) Solar Power Plant completion report - Reg.  
(ii) Power Purchase Agreement

Please find enclosed herewith (i) solar plant completion report and (ii) power purchase agreement dt:-16/11/2018 for 210 kw solar roof top power project executed between Sapthagiri Educational & Charitable Trust and M/s. Rhibhu Rooftop Solar Solutions Ltd.,

Kindly acknowledge receipt of the above said two documents.

Thanking you,  
Yours truly  
For Sapthagiri Educational & Charitable Trust

Authorized Signatory  
Encl:- As stated above



To, The Principal  
SSEC, BE

Solar Power Plant Completion Report  
So/Dr. Anand, E.M.R.

*[Handwritten signature]*

*[Handwritten signature]*



8<sup>th</sup> August 2018

To:  
Management Representative  
Sapthagiri Educational and Charitable Trust  
No. 184/15, 5<sup>th</sup> Main Road,  
4<sup>th</sup> block, Jayanagr  
Bangalore

**Subject:** Lender's requirement regarding power purchase agreement

**Reference:**  
1. Power Purchase Agreement dated 16<sup>th</sup> November 2017 for 210 kW solar rooftop power project signed between Sapthagiri Educational and Charitable Trust and Rhibhu Rooftop Solar Solutions Limited ("Rhibhu")

Dear Sir,

We have availed project loan from L&T Finance for the 210 kw solar rooftop project installed at Sairam College of Engineering, Anekal. As a part of the loan conditions, L&T Finance has instructed us to get the following confirmation from you:

You will:

- (i) deposit all amounts payable to Rhibhu under the PPA into the following account as and when such amounts are payable in accordance with the PPA:

Name of Account holder	Rhibhu Rooftop Solar Solutions Limited
Account Number	409000715936
Bank Name	RBL Bank Limited
Branch address	RBL Bank Limited, One Indiabulls Centre, Tower 2B, 3rd Floor, 841, Senapati Bapat Marg, Lower Parel (West), Mumbai - 400013

- (ii) Issue cheques in favour of Rhibhu drawable only in respect of the above account as and when such amounts are payable in accordance with the PPA;
- (iii) provide access to the site of the solar rooftop project to L&T Finance Limited as and when requested by them.

Yours faithfully,

For Rhibhu Rooftop Solar Solutions Ltd.

  
Director

Shantanu Lath  
Director- Rhibhu Rooftop Solar Solutions Limited

Agreed and Accepted

For Sapthagiri Educational & Charitable Trust

  
C.E.O.

Management Representative  
Sapthagiri Educational and Charitable Trust

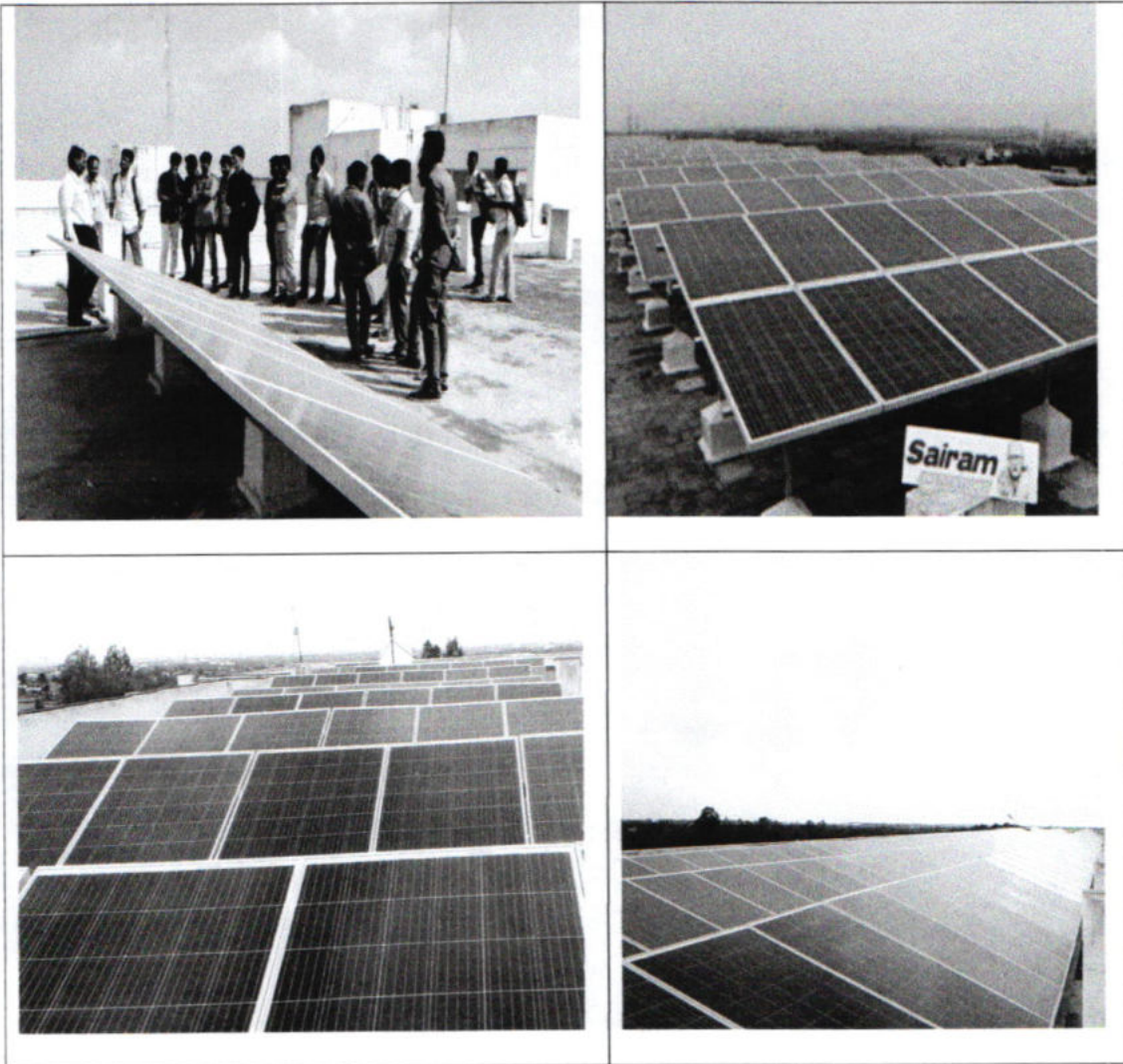




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### IMPLEMENTATION OF SOLAR ENERGY PLANT ON ROOF TOP







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**Center of Excellence**





### INAUGURATION OF CENTER OF EXCELLENCE







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# Audio- Visual Hall



## AV Hall Room

13

60201

### INTRODUCTION

The AV Hall is equipped with the latest Audio and Visual equipments for the conduct of Presentations, Seminars and personality development workshops. It is fully air conditioned, and fully equipped with state-of-the-art audio-visual devices providing services such as video conferencing, a sound system and audio-visual material. It has the capacity for accommodating 125 persons. & designed to facilitate interaction and face-to-face discussion among students. & times are used also as for departmental meetings or conferences. Design guidelines for specific considerations such as doorway entrances, hallways, acoustics, finishes, and air ventilation and circulation, etc.

### OBJECTIVES

Our program to upgrade learning environments has the following objectives:

- 1) Encourage interactive learning
- 2) Provide comfortable seating with larger work surfaces
- 3) Add multi-media audio-visual systems with good sight lines
- 4) Improve access for all persons
- 5) Improve functional relationships
- 6) Increase flexibility to respond to future needs
- 7) To strengthen teachers' skills in making teaching -learning process more effective
- 8) To attract and retain learners' attention
- 9) To generate interest across different levels of students
- 10) To make class more interactive and interesting
- 11) To focus on student-centered approach

### ADVANTAGES:

In this modern world we use digital tools to improve the teaching-learning process. The most common tool we use in classroom these days is PowerPoint slides, which makes the class more interesting, dynamic and effective. Moreover it also helps to introduce new topics in easy way. The use of audiovisual aids makes the students to remember the concept for longer period of time. They convey the same meaning as words but it gives clear concepts thus help to bring effectiveness in learning.

Integrating technology into the classroom help students to experience things virtually or vicariously

Use of audio-visual aids help in maintaining discipline in the class since all the students' attention are focused in learning. This interactive session also develops critical thinking and reasoning that are important components of the teaching-learning process.



Audiovisual provides opportunities for effective communication between teacher and students in learning.

Students learn when they are motivated and curious about something. Traditional verbal instructions can be boring and painful for students. However, use of audio-visual provides intrinsic motivation to students by peaking their curiosity and stimulating their interests in the subjects.

### **CONCLUSION:**

It is clear that audio visual aids are important tools for teaching learning process. It helps the teacher to present the lesson effectively and students learn and retain the concepts better and for longer duration. Use of audio visual aids improves students' critical and analytical thinking. It helps to remove abstract concepts through visual presentation. However, improper and unplanned use of these aids can have negative effect on the learning outcome. Therefore, teachers should be well trained through in-service training to maximize the benefits of using these aids. The curriculum should be designed such that there are options to activity-based learning through audio-visual aids.

### **FUTURE SCOPE:**

This project will result in benefit of the students. Better amenities in the seminar hall can help students to understand the topic effectively. Development on this project is essential part of the education better hall we provided to student will result in better scores and understanding in them.



SRI SAIRAM COLLEGE OF ENGINEERING, Bengaluru

Admin. Office, T.Nagar, Chennai – 600 017.

Ref : A.O/Civil/SSCE/A.V.Hall/2019

Date: 02.01.2019

Sub: SSCE- BLR-Civil- Carpentry work at A.V.Hall -Permission granted-  
Orders issued.

Ref : Your Letter No:SECT/T.O/8347/Approval/ 2018 dated 17.11.2018

\*\*\*\*\*

ORDER:

Permission is accorded to do the Carpentry work at A.V.Hall ( Main  
Doors 8'x4' – 2 nos, cupboard 3'x8'- 2 nos).

A sum of Rs.1,18,785/= is sanctioned for purchase of materials and  
for Labour charges in respect of the above works.

For **SRI SAIRAM COLLEGE OF ENGINEERING**



**CHIEF EXECUTIVE OFFICER**

To:  
The T.O.S.M  
Sri Sairam College of Engineering,  
Bengaluru.

✓ Copy to:  
The Principal,SSCE, Bengaluru,  
Accounts Section  
Civil section.

*Handwritten signature*

*Handwritten signature*  
7/1/19

*Handwritten signature*  
07/01/19

STO  
By *Handwritten signature*  
7/1/19

*Handwritten signature*  
8/1





# Sri SAIRAM COLLEGE OF ENGINEERING

(Managed by Sairam Educational & Charitable Trust, Bangalore - 17)

An ISO Certified Institution. Approved by AICTE, New Delhi & affiliated to Visvesvaraya Technological University, Belgaum  
Sai Leo Nagar, Anekal, Bangalore - 562 106 Tel : +91 - 80 - 2783 0221 / 2784 0831 Fax : +91-80-2783 0355 [www.sairamce.edu.in](http://www.sairamce.edu.in)  
Regd. Office : 21.17th Main Road, 4th Block, Jayanagar, Bangalore - 560 011 Tel : +91-80-2663 5623 Fax : +91-80-2245 1802  
Founder Chairman : MJF. Ln. Leo Muthu



## WORK ORDER

Ref:1275/ /SCOE /Anekal / Portico tiles flooring / Order / 2018

Date :21.02.2018

To,

**M/s. Cavery Constructions**  
Guddarahally Village  
Samandur Post,  
Anekal (T.K), Bangalore - 562106.

Sir,

Sub: Sri Sairam College of Engineering, Anekal, Tiles & Grano flooring for Existing main porch area - work order - placed - reg.

Ref: 1. Your qtn /offer date : 17.07.2017.

2. Your 2<sup>nd</sup> qtn /offer date : 14.02.2018 - with 10% discount by overphone on 20.02.2018.

\*\*\*\*\*

With reference to the above 2<sup>nd</sup> cited, we instruct you to do the following specification for main building portico flooring in our Sri Sairam College of Engineering, Anekal, Bangalore, immediately.

S.No.	Description	Approx Qty	Rate	Amount
1	Breaking / dismantling the existing cement or granolith flooring (approximately 2-3" thick) by manual / machinery and disposing the same with loading to the transportation vehicles. Including all required tools, labors, transportation cost, complete etc...	2040 sft	26/-	530,40/-
2	Providing PCC 1:4:8 with 20mm or down grade aggregate with M - Sand / manufacture sand over removed / damaged existing flooring area	500 cft	160/-	80,000/-
3	Providing Ultra flooring tiles of size 300 x 300mm with colors as preferred combination with M - Sand / manufacture sand with c.c 1:6 of 75 mm avg thick and providing cement slurry @ 15 kg per sqm and grouting all the joints with required colors complete etc..	990 sit	160/-	1,58,400/-
4	Providing granolith flooring or bump flooring for ramps on both side with 3" / 75 thick PCC (M20) with 20mm below aggregate and providing extra layer of bump surface (every 1 feet intervals) with c.c 1:4 and finishing complete etc.	1050 sft	80/-	84,000/-
Total				3,75,440/-
Less : 10% Discount				37,544/-
Net Total				3,37,896/-

The rates above included all the materials, labour charges.

2  
28/2/18





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Founder Chairman : MJF. Ln. Leo Muthu

Ref : 1275 / /SCOE /Anekal / Portico tiles flooring / Order / 2018

## Terms & Conditions :

1. Payment : After completion of work and endorsement from the concerned person. and measurement will be taken at actual.
2. TDS/Tax : As per Norms
3. Delivery / Duration: within 10 days.
4. Quality : If any defect or damages in the supplying of materials should be replace immediately.

Yours faithfully  
For SRI SAI RAM COLLEGE OF ENGINEERING

(Saiprakash Leomuthu)  
CHIEF EXECUTIVE OFFICER

## Copy to:

1. The Principal, SSCOE, Bangalore
2. Estate Officer - SSCOE ✓
3. Accounts Section
4. Civil





# Sri SAIRAM COLLEGE OF ENGINEERING

(Managed by Sathagiri Educational & Charitable Trust, Bengaluru - 17)

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Founder Chairman : **MJF. Ln. Leo Muthu**



## WORK ORDER

Ref : 1334/Civil/SSCE/A.V.Hall-Ren.,/2018

Date: 10.10.2018

To  
**M/s. Cauvery Constructions,**  
Guddanahalli  
Smandur (P.O),  
Anekal,  
Bangalore - 562 106.

Sir,

Sub: Sri Sairam College of Engineering, Anekal, Bangalore -Renovation  
of A.V. Hall -Release of Work Order - reg.

Ref : Your letter No.Quo/AV hall renov work/SSEC/08-18 dated 30.08.18

\*\*\*\*\*

With reference to the above, we are releasing the work order for  
the renovation of A.V. Hall in our Sri Sairam College of Engineering, Anekal,  
Bangalore for a value of Rs. 3,12,000.00 as per the schedule annexed.

### TERMS AND CONDITIONS

1. Quality :- The materials used in the construction should be of good quality and should meet the standard specifications and no compromise in the quality will be accepted.
2. Duration :-The work should be completed at the earliest possible time.
3. Payment :- After completion of the work and endorsement from the concerned person.
4. Taxes : GST as applicable.

For Sri Sairam College of Engineering,

CHIEF EXECUTIVE OFFICER

Copy to :

1. The Principal, SSCE, Anekal, Bangalore.
2. Trust Office, Bangalore
3. Accounts section
4. Civil section



**SRI SAIRAM COLLEGE OF ENGINEERING, Bangalore**  
**Renovation of A.V.HALL**

Work Order No: 1334/Civil/SSCE/A.V.Hall- ren.,/2018 dated 10.10.2018  
**SCHEDULE of RATES**

Sl.No	Description of Item	Unit	Quantity	Rate	Amount
1	Removing of Doors & frames by machinery and stocking them as directed.	Nos	4.00	900.00	3,600.00
2	Dismantling of Brick Work in cement mortar including of any wall plaster & finishes; for all level and height; and disposing the debris with the help of the tractors and loading, unloading, shifting complete as per the specifications.	Sq.ft	266.50	55.00	14,657.50
3	Construction of 9" thick brick work in C.M. 1:5 with robo sand, red chamber bricks & 43 grade cement & hacking, existing painting scraping if any necessary and complete etc as per the specifications	Cft	245.66	165.00	40,533.90
4	Plastering for walls in C.M 1:5 with 'P' sand, 43/53 grade cement and matching to existing plastered surface and finishing smooth complete etc., as per the specifications	Sft	208.28	60.00	12,496.80
5	Laying 100mm thick P.C.C10( 1:4:8) for floors with 40mm below aggregate, robo sand 43/53 grade cement, compaction, curing, complete etc... as per the specifications.	Cft	396.50	170.00	67,405.00
6	Supplying and filling of M.sand with consolidation, watering and ramming and etc. complete for basement level	Cft	1082.26	65.00	70,346.90
7	Grano flooring in CC M20 with 50mm avg thick and finishing smooth by providing extra cement on top, trowel smooth finish by manual and curing complete etc.	Sft	1287.00	80.00	1,02,960.00
	Less for rounding off				-0.10
	<b>TOTAL AMOUNT</b>				<b>3,12,000.00</b>



**SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU**

**Admn. Office, T.Nagar, Chennai – 17.**

No. 19/SSCE/BLR/ AV HALL – NAME CHANGE/2019

Dated: 18.02.2019.

Sub: SSCE, BLR – Administration – Newly constructed AV Hall - Approved –  
Orders issued.

Ref: Letter No. SSCE/Est/2018-19 Dated 29.01.2019

**ORDER:**

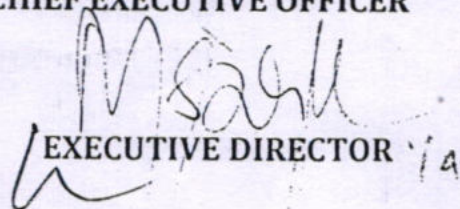
As ordered by our CEO, the newly constructed AV Hall shall henceforth bear  
the name "Sir VISVESVARAYA AUDIO VISUAL HALL".

For SRI SAIRAM COLLEGE OF ENGINEERING,

(Sd/xxxxxxxxx)

CHIEF EXECUTIVE OFFICER

/ By order of Chief Executive Officer /

  
EXECUTIVE DIRECTOR 'A'

To:

The Principal,  
Sri Sairam College of Engineering,  
Bengaluru.

Copy to:

- > Treasurer.
- > The T.O.S.M, SSCE, Bengaluru
- > Accounts Section.

*20/2/19*

*20/2/19*

*20/2/19*

*20/2/19*



SRI SAIRAM COLLEGE OF ENGINEERING  
Anekal, Bengaluru – 562106

Stores Department

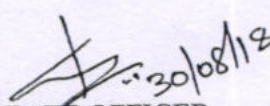
SSCE/STO/Construction/2018-19/2846

30.08.2018

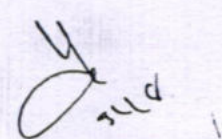
Submitted

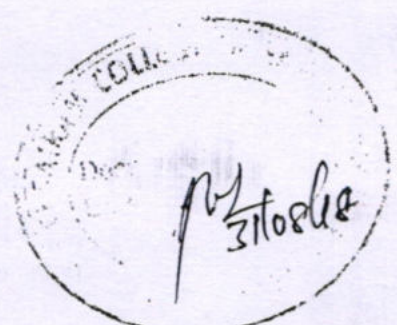
Sub: Revised – Drawing & Estimation for AV Hall Renovation – Reg.

As per direction from our PRO, we herewith submitting a revised drawing and quotation for AV Hall Renovation. The approximate cost for civil work is Rs.312000/-. Revised quotation from M/s Cauvery Constructions is enclosed for your kind perusal and approval at the earliest.

  
ESTATE OFFICER











# CAUVERY CONSTRUCTIONS

GUDDANAHALLI, SAMANDUR POST, ANEKAL (T.K) BANGALORE - 562106

TIN NO: 29580784229

Mr. R. SRINIVAS REDDY  
(Prop) for Cauvery constructions

Res: 080-7806630  
Mob: 9448225242  
Mob: 9448520988

Ref no: Quo/AV hall renov work /SSEC /08-18

DATE: 30-08-18

To;  
The Chairman  
SSEC, Anekal.  
Bangalore-562106.

Respected sir;

**Sub: Quotation for AV hall at campus Reg-**  
-----

As per your request here we are submitting our least quote for renovation / re modelling AV hall inside the existing campus (existing class rooms) for Rs 312000/- (Rupees Three lakhs twelve thousand only). As per (EO) Mr. Prabakar work specifications & details on 15-07-18.

Please find here our quotation and release the workorder as soon as possible.

Thanking You.

Yours Truly,

Mr. R. Srinivas Reddy  
(Prop) For Cauvery Constructions.

*R. Srinivas Reddy*  
31.8.18

Encl: Detailed Estimation / Quotation 2pages.



Detailed Estimate for AV hall Renovation works inclusive of all materials and labours complete.									
Sr No:	Work Description	No's	'L'	'B'	'D'	Qty	Unit	Rate	Amount
1	Removing of Doors and Frames by machinery or manual.								
	Doors	4.00	-	-	-	4.00	L-S	900.00	3600.00
2	including plastering, and disposing the debris with help of tractors and loading, unloading, shifting complete etc as per the specifications..								
	Existing wall (inbetween two class rooms)	1.00	26.00	10.25	1.00	266.50	Sft	55.00	14657.50
3	Construction of 9" thk brick work in e.m 1:5 with robo sand, red chamber bricks & 43 grade cement & hacking, existing painting scrapping if any nessary, and complete etc as per the specifications..								
	For doors	4.00	4.00	7.00	0.75	84.00	Cft	165.00	13860.00
	Wall 1 (2'3")	1.00	26.00	2.25	0.75	43.88	Cft	165.00	7239.38
	Wall 2 (1'10.5")	1.00	26.00	1.88	0.75	36.56	Cft	165.00	6032.81
	Wall 3(1'6")	1.00	26.00	1.50	0.75	29.25	Cft	165.00	4826.25
	Wall 4 (1'1.5")	1.00	26.00	1.13	0.75	21.94	Cft	165.00	3619.69
	Wall 5 (9")	1.00	26.00	0.75	0.75	14.63	Cft	165.00	2413.13
	Ramp wall (Long Wall 2'3" + 0 / 2)	1.00	10.25	1.13	0.75	8.65	Cft	165.00	1426.99
	Ramp wall (Short wall)	1.00	4.00	2.25	0.75	6.75	Cft	165.00	1113.75
4	Plastering for walls in e.m 1:5 with 'P' sand, 43/53 grade cement and matching to existing plastering surface and finishing smooth complete etc as per the specifications..								
	Doors for both inner and outer sides	4.00	4.00	7.00	1.00	112.00	Sft	60.00	6720.00
	For steps 4.5" thk x 6 steps	6.00	26.00	0.38	1.00	58.50	Sft	60.00	3510.00
	For Wall Demolish area	2.00	10.50	1.25	1.00	26.25	Sft	60.00	1575.00
	for ramp wall one side only.	1.00	10.25	1.13	1.00	11.53	Sft	60.00	691.88
5	Laying 100mm thk P.C.C M-10 (1:4:8) for floors with 40mm below aggregate, robo sand, 43/53 grade cement, compaction, curing, complete etc... as per the specifications.								
	For platform	1.00	45.75	26.00	0.33	396.50	Cft	170.00	67405.00

R. Srinivasa Reddy



	M-Sand Filling On floors before PCC for balance depth, including shifting, spreading on floors, formation and compacting complete etc... as per the specification.									
6	For platform 1	1.00	26.00	11.25	1.75	511.88	Cft	65.00	33271.88	
	For platform 2	1.00	26.00	6.75	1.38	241.31	Cft	65.00	15685.31	
	for platform 3	1.00	26.00	6.75	1.00	175.50	Cft	65.00	11407.50	
	for platform 4	1.00	26.00	6.75	0.63	109.69	Cft	65.00	7129.69	
	for platform 5	1.00	26.00	6.75	0.25	43.88	Cft	65.00	2851.88	
	Granolith flooring in CC M20 with 50mm avg thick and finishing smooth by providing extra cement on top, trowel smooth finish by manual and curing complete etc...									
7	For platform 1	1.00	26.00	12.00	1.00	312.00	Sft	80.00	24960.00	
	For platform 2	1.00	26.00	7.50	1.00	195.00	Sft	80.00	15600.00	
	for platform 3	1.00	26.00	7.50	1.00	195.00	Sft	80.00	15600.00	
	for platform 4	1.00	26.00	7.50	1.00	195.00	Sft	80.00	15600.00	
	for platform 5	1.00	26.00	7.50	1.00	195.00	Sft	80.00	15600.00	
	for platform 6	1.00	26.00	7.50	1.00	195.00	Sft	80.00	15600.00	
									Total:	311997.62
									Round off:	2.38
									<b>Grand Total:</b>	<b>312000.00</b>
Note:	If any items have done extra, or the quantities added, will be claimed extra. As per the actuals.						GST extra.			

Rupees; Three lakhs twelve thousand only.

Client:

Contractor:

*R. Srinivas Reddy*Mr. R. Srinivas Reddy  
For (Cauvery Constructions)



SRI SAIRAM COLLEGE OF ENGINEERING  
Anekal, Bengaluru - 562106

Stores Department

SSCE/STO/Construction/2017-18/2761

17.07.2018

SUBMITTED

Sub: Proposal for Renovation of AV Hall - Reg.

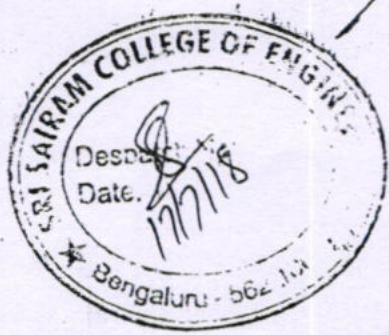
As per direction from our CEO & MR, we herewith submitting a proposal for renovation of AV Hall. The approximate cost for civil work is Rs.427265/-. Quotation from M/s Cauvery Constructions is enclosed for your kind perusal and approval at the earliest.

  
ESTATE OFFICER

\* The Proposal to Submitted only  
\* Civil work to start ~~at~~ Beyond Classroom  
discussions on the instructions of CEO.  
\* Subsequent installation of chairs, Projection,  
Speaker, acoustics & AC proposals will be sent soon.  
\* Approval needed to start the civil work.

  
17/7/2018

11. Send proposal to  
the JA as per  
Activity Corner under  
Rajendra Chandra K...  
B...  
17/7/18  
mb







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Anekal, Bengaluru

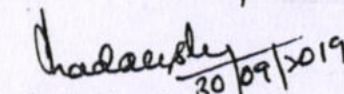
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## Sir M Visvesvaraya AV Hall

### Program Schedule sep & oct -2019

Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Dates	30-09-2019 Mech	01-10-2019 S&H	02-10-2019 Gandhi Jayanti	03-10-2019 CSE	04-10-2019 ECE	05-10-2019	06-10-2019	CSE -3SLOTS ECE -2SLOTS MECH-2SLOTS EEE-2SLOTS S&H-2SLOTS (P&C)
	07-10-2019 Ayuda pooja	08-10-2019 Dashara	09-10-2019 Mech	10-10-2019 EEE	11-10-2019 S&H	12/10/2019	13-10-2019	
	14-10-2019 CSE	15-10-2019 MECH	16-10-2019 before day IA test-2	17-10-2019 IA TEST-2	18-10-2019 IA TEST-2	19-10-2019 IA TEST-2	20-10-2019	
	21-10-2019 EEE	22-10-2019 CSE	23-10-2019 MECH	24-10-2019 ECE	25-10-2019 S&H	26-10-2019	27-10-2019	

  
Co-Ordinator

  
Principal 30/09/2019

Schedule







Sri

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## Sir M Visvesvaraya AV Hall

Program Schedule Aug & Sep -2019

Extended Learning Program 2 to 4 PM

Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Dates	26-08-2019 CSE	27-08-2019 EEE	28-08-2019 ECE	29-08-2019 MECH	30-08-2019 FRESHERS DAY	31-08-2019	01-09-2019
	02-09-2019 Ganesh Chaturthi	03-09-2019 S&H-P	04-09-2019 CSE	05-09-2019 Teachers day	06-09-2019 IA Test-1	07-09-2019	08-09-2019
	09-09-2019 IA Test-1	10-09-2019 Moharam	11-09-2019 IA Test-1	12-09-2019 MECH	13-09-2019 ECE	14-09-2019	15-09-2019
	16-09-2019 UDHBHAV	17-09-2019 S&H-C	18-09-2019 EEE	19-09-2019 ADVAYA	20-09-2019 CSE	21-09-2019	22-09-2019
	23-09-2019 ECE	24-09-2019 MECH	25-09-2019 CSE	26-09-2019 Sports day	27-09-2019 Sports day	28-09-2019	29-09-2019

CSE -3SLOTS  
ECE -2SLOTS  
MECH-2SLOTS  
EEE-2SLOTS  
S&H-2SLOTS  
(P&C)

Co-Ordinator

Principal 23/08/2019





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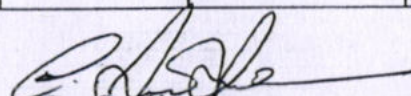
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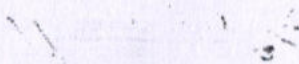
## Sir M Visvesvaraya AV Hall

### Program Schedule May -2019

### Extended Learning Program 2 to 4 PM

Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Dates			1 May day	2 Int.conference	3 Int.conference	4	5
	6 College day	7 Basava Jayanti	8 Basava Jayanti celebrations @ college	9 Principal presentation for 1st year	10 Principal presentation for 1st year	11	12
	13 S&H	14 Project exhibition	15 Lab internals	16 IA Test- for final year & Lab internals	17 IA Test- for final year & Lab internals	18 IA Test- for final year & Lab internals	19
	20 IA Test-3	21 IA Test-3	22 IA Test-3	23 Last working day	24	25	26
	27 VTU Lab exams	28 VTU Lab exams	29 VTU Lab exams	30 VTU Lab exams	31 VTU Lab exams		

  
Co-Ordinator

  
Principal





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## Sir M Visvesvaraya A V Hall

Program Schedule April -2019

Extended Learning Program 2 to 4 PM

Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Dates	1 EEE-All years	2 CSE-Final year	3 ECE-Livaz	4 ECE-Livaz	5 S&H-1st year	6 Ugadi	7
	8 Mech-2nd &4th year	9 ECE-6th sem	10 Before IA test	11 IA Test-2	12 IA Test-2	13 IA Test-2	14
	15 CSE-3rd year	16 S&H-1st year	17 Mahaveer jayanti	18 Elections	19 Good Friday	20	21
	22 Mech-3rd year	23 CSE-2nd year	24 Mech-Tech	25 Mech-Tech	26 S&H-1st year	27	28
	29 ECE-2nd & 4th year	30 EEE-All years					

Co-Ordinator

Principal





## Sir M Visvesvaraya A V Hall

Program Schedule March-2019

Extended Learning Program

DATE	DEPT SLOTS	TIME/SLOT -1 2:00-4:00 PM	TOPICS	SIGNATURE
14/3/2019	MECH -1	3 <sup>rd</sup> year	FERRARI CAR MANUFACTURING	
15/3/2019	S&H -1	PHYSICS CYCLE	Application of Linear equation & Vector Calculus	
18/3/2019	EEE	2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> Year	Application of Engineering in medical field	
19/3/2019	ECE -1	4 <sup>th</sup> & 2 <sup>nd</sup> year	Guided Missiles	
20/3/2019	MECH-2	4 <sup>th</sup> & 2 <sup>nd</sup> year	Additive manufacturing Heros Plants	
21/3/2019	CSE-1	2 <sup>nd</sup> year	Networking	
22/3/2013	S&H	Chemistry cycle	Foodtech, Auto motive, civil Stru	
25/3/2019	CSE -2	4 <sup>th</sup> year	IOT & BIG DATA IN REAL TIME APPLICATION	
26/3/2019	ECE 2	3 <sup>rd</sup> year	Artificial Intelligence Technology	
27/3/2019	CSE - 3	3 <sup>rd</sup> year	Robotic & Latest Invention	
28/3/2019	MECH -1	3 <sup>rd</sup> year	Manufacturing of Boeing air & Lamborghini cars	
29/3/2019	S&H - 1	Physics cycle	Physics & its uses in Daily cycle	

COORDINATOR

PRINCIPAL



**SRI SAIRAM COLLEGE OF ENGINEERING  
ANEKAL, BENGALURU - 562 106**

**AV HALL RENOVATION EXPENDITURE**

Bill No. Date	Particulars	Amount	Remarks
Approval letter 21.12.18	To Carpenters	5000	carpenter labour advance payment for AV hall
16.11.18	To Cauvery Constructions	368160	AV Hall renovation work
16.11.18	To Cauvery Constructions	134410	AV hall renovation extra work
7556 31.12.18	To Mahendra Hardware	6402	sandtex matt paint jtimes for AV hall
1887 12.01.19	To Influence	336400	AC Units - 4 Nos.
2074,71,79 78,77 02.02.19	To Bhavani Enterprises	116093	carpentry items for AV Hall
706 04.02.19	To Barnavati The Award Gallery	3472	Chairman name board for AV hall
1633,34,29 04&06.02.19	To Bhavani Traders	78276	electrical wires, light bulbs & paint materials for AV all
9 08.02.19	To Parshwa Navkar Building Material PVT Ltd.	148123	purchase & fixing of false ceiling at our AV hall
08.02.19	To Rajesh Kumar	37000	carpentry labour charges for AV hall
08.02.19	To Rajesh Kumar	5000	carpentry labour charges for AV hall
B1964 08.02.19	To Maruthi Refrigeration	51637	AC Spares for AV hall
4465 12.02.19	To New Computer Park	5251	D-Link cat cable for AV hall
845&849 12.02.19	To Aruna Hardware	28955	Paint materials for Library & AV hall
1425 15.02.19	To P.M. Floors	75934	PVC Vinyl flooring
18.02.19	To Sai Air Con Engineering	28000	AC Installation Labour Charges at our AV hall
4540 19.02.19	To New Computer Park	8968	CCTV Camera Hikevision IP Cam - 02 Nos.
1680 & 1685 20&21.02.19	To Bhavani Traders	16508	purchase of electrical items for AV hall
21.02.19	To Labour charges	31000	AV hall chair fixing labour charges
V-124 22.02.19	To VisionNEXT Technologies	90750	Benq projector model MH 740 with ceiling mount kit with 20 mtrs of HDMI cable and power
4530 22.02.19	To Farco	105054	Audio system for AV hall
Voucher 16.03.19	To Omsteel Fabrication	11682	Fabrication & fixing of stairs railing at AV hall
132 12.03.19	To Moon Power	103588	UPS, Exide Battery Batteries & Battery stand
Voucher 20.03.19	To Bhavani Traders	27001	electrical items for hostel & AV Hall





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**INAGURATION OF AUDIO VISUAL HALL - 23<sup>rd</sup> February 2019**







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# RO- Water Plant





## RO Plant Installed on the rooftop of HOSTEL

### Reverse Osmosis Water

**Reverse Osmosis (RO)** is a water treatment process that removes contaminants from water by using pressure to force water molecules through a semipermeable membrane. During this process, the contaminants are filtered out and flushed away, leaving clean, delicious drinking water. Reverse osmosis is capable of removing up to 99 percent of 65 different contaminants (see partial list below), including lead, fluoride, chlorine, dissolved salts, and more. Simply put, reverse osmosis is a water filtration process. Which includes four distinct steps.

First, pressurized water moves through a particle filter. Particle filters remove impurities like salt, sand and sediment.

Next, water passes through an activated carbon filter. Carbon filters trap and reduce minerals. As well as contaminants. Such as chlorine, mercury, copper and pesticides.

The first two steps of the reverse osmosis water filtration process are considered pre-filtration.

After pre-filtration occurs, the pressurized water forces itself through a semipermeable membrane. This membrane traps the smallest impurities so that only the water can pass through. This is the reverse osmosis stage.

Finally, in the discharge stage, contaminants flush away. And the filtered (treated) water moves to the storage tank.





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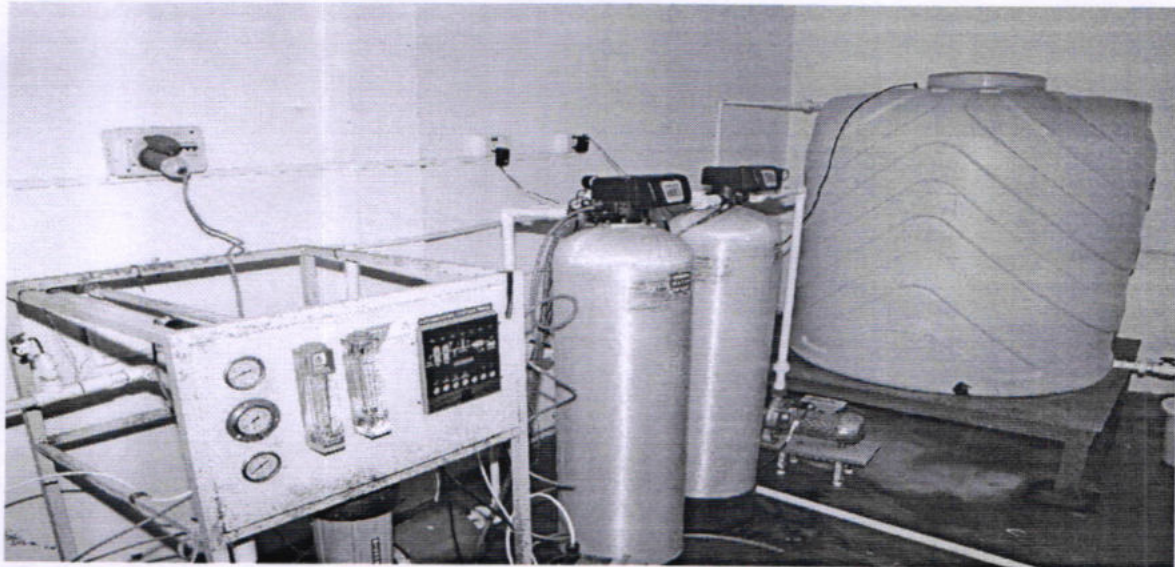
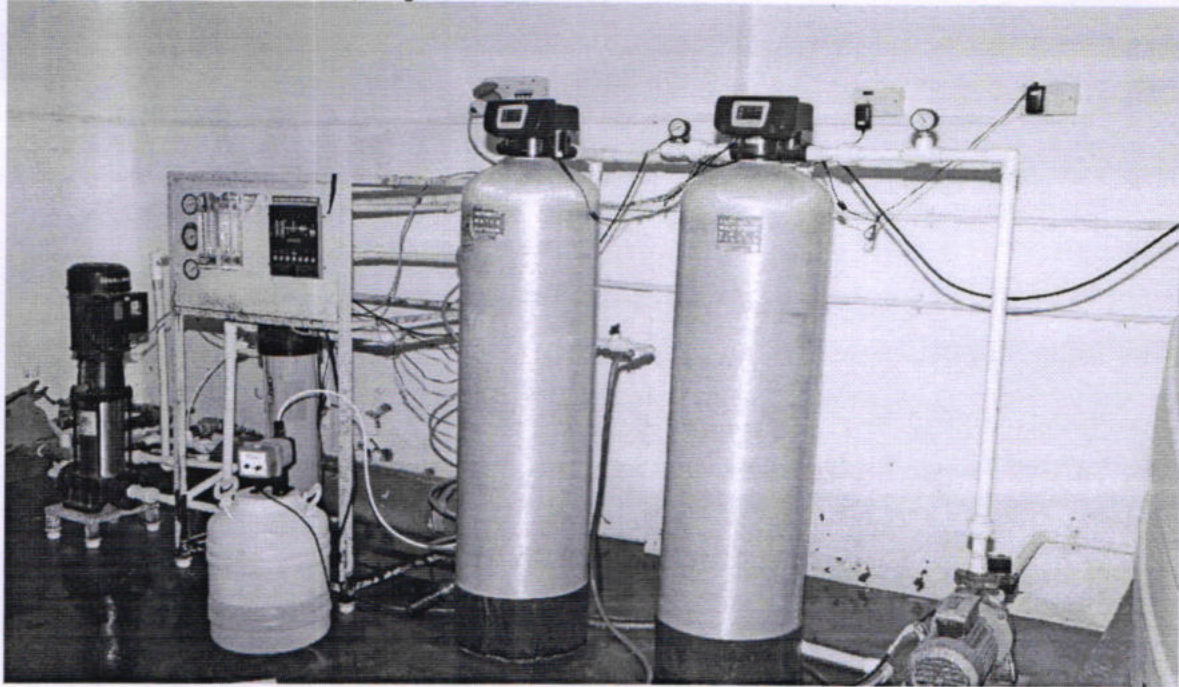
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# Sri LeoMuthu Innovation Center

- Projects Undertaken list



**SSCE 2016-17 EVENTS DETAILS (COMPLETED)**

SL.NO	YEAR	DATE	EVENT	PLACE	ORANISER	ACHIEVEMENTS
1	2016	07.05.2016	PRESS MEET	BANGALORE	SAIRAM	OUR CEO SRI. SAI PRAKASH LEO MUTHU PARTICIPATED IN THE PRESS MEET AND PRESENTED AROUND RS. 5 LAKHS WORTH OF CASH AWARD FOR ALL THE EXHIBITED 4 PROJECTS IN FORM OF "SHRI. LEO MUTHU SCHOLARSHIP" IN MEMORY OF OUR FOUNDER MJF. LN. LEO MUTHU.
2	2016	23.10.2016	BANGALORE MINI MAK-ER FAIRE 2016	BANGALORE	MAKER FAIRE	OUR COLLEGE TEAMS TEAM RAIDERS (E-BIKE TEAM), TEAM MECHROCKZ (GO-KART TEAM), TEAM SHITHIJ (RC CRAFT TEAM) AND TEAM DRONA (QUAD COPTER TEAM) PARTICIPATED AND SHOWCASED THEIR PRODUCTS IN THE FAIR. VARIOUS TECHNICAL PEOPLES FROM AMARON BATTERIES, MAHENDRA, AUTODESK, ROYAL ENFIELD, 3D PRINTER EXPERTISE, ENTREPRENEURS', INNOVATORS, VARIOUS COLLEGE STUDENTS, SCHOOL STUDENTS, PARENTS, KIDS ETC.. VISITED OUR STALL AND GAVE SUGGESTION FOR IMPROVEMENTS BY THEIR EXPERTISE. PARENTS AND KIDS ENJOYED WHILE SEEING OUR VEHICLES.



3	2017	17TH TO 19TH OF FEBRUARY 2017	ECO TRIATHLON 2017	BANGALORE	CIIRC	TEAM SECURED "THIRD POSITION IN THE B10 CATEGORY".
4	2017	2ND FEBRUARY TO 4TH FEBRUARY 2017	MOBILITY EXPO 2017	PRAGATI MAIDAN IN NEW DELHI, INDIA	MINISTRY OF HEAVY INDUSTRIES & PUBLIC ENTERPRISES, GOVERNMENT OF INDIA, PETROLEUM CONSERVATION RESEARCH ASSOCIATION (PCRA), MINISTRY OF NEW AND RENEWABLE ENERGY.	OUR COLLEGE TEAMS TEAM RAIDERS (E-BIKE TEAM) WITH THREE FACULTY ADVISORS MR.RAVI V. ANGI, MR.ARUNKUMAR MR AND MR.A. MUTHUVEL PARTICIPATED AND SHOWCASED THEIR PRODUCTS IN THE EXPO. VARIOUS TECHNICAL PEOPLES FROM AMARON BATTERIES, MAHINDRA, AUTODESK, ROYAL ENFIELD, 3D PRINTER EXPERTISE, ENTREPRENEURS', INNOVATORS, VARIOUS COLLEGE STUDENTS, SCHOOL STUDENTS, PARENTS, KIDS ETC. VISITED OUR STALL AND GAVE SUGGESTION FOR IMPROVEMENTS BY THEIR EXPERTISE. PARENTS AND KIDS ENJOYED WHILE SEEING OUR VEHICLES.
5	2017	25.05.2017	PRESS MEET	BANGALORE	SAIRAM	PRESS MEET EVENT BEING HELD AT THE BANGALORE PRESS CLUB, BANGALORE, INDIA. THIS EVENT SHOWCASES PRODUCTS LIKE ELECTRIC VEHICLES, SOLAR VEHICLE SINGLE SEATER AND MULTI-SEATER, AUV, GO-KARTS, RC CRAFT, QUADCOPTER, SMART NEW GEN POWER GENERATION AND AUTOMATIC WET DRY COLLECTOR PROJECTS.



**SSCE 2017 EVENTS DETAILS (COMPLETED)**

SL.NO	YEAR	DATE	EVENT	PLACE	ORANISER	ACHIEVEMENTS
6	2017	28 <sup>TH</sup> -29 <sup>TH</sup> OCTOBER 2017.	ISTE STUDENT NATIONAL ANNUAL CONVENTION	MEGHALAYA	ISTE	BOREWELL RESCUE ROBOT PROJECT HAS BEEN SELECTED TO BABA BANDA SINGH BAHADHUR BEST B.TECH PROJECT ( MECHANICAL ) AWARD DURING 20 <sup>TH</sup> ISTE STUDENT NATIONAL ANNUAL CONVENTION HELD AT USTM AND RIST, MEGHALAYA
7	2017	30 <sup>TH</sup> AND 31 <sup>ST</sup> OCTO- BER 2017	UDAAN	BANGALORE	BITTE MEEENAKSHI INSTI- TUTE OF TECHNOLOGY	TEAM "DRONA AND KSHITHIJ" QUADCOPTER AND RC CRAFT TEAMS AND STUDENTS FROM MECHANICAL ENGINEERING DEPARTMENT (AROUND 17 STUDENTS) PARTICIPATED IN UDAAN 2017 TWO DAYS TECHNICAL FEST.



8	2017	NOVEMBER 12 <sup>TH</sup> 2017	INDIAN RECORD HOLD-ERS AT WORLD STAGE	DELHI	BOOK OF REC- ORDS	PROJECT CHOSEN IN TOP 100 RECORD HOLDERS AND ARE CORDIALLY INVITED FOR THE LONG AWAITED AND THE MOST GLITTERING MEGA EVENT 'INDIAN RECORD HOLDERS AT WORLD STAGE' HELD IN NEW DELHI, THE BUSTLING CAPITAL OF INDIA AT SIRI FORT AUDITORIUM. EVENT COVERED AND AIRED BY THE NATIONAL AND THE INTERNATIONAL MEDIA. AROUND 500 PEOPLES PARTICIPATED IN THE EVENT. OUR FACULTIES DR. K. SIVASAKTHI BALAN AND MR. A. MUTHUVEL ATTENDED THE PROGRAMME BEHALF OF SRI SAIRAM COLLEGE OF ENGINEERING.
9	2017	15 <sup>TH</sup> DECEMBER TO 16 <sup>TH</sup> DE- CEMBER 2017	LIVING TALENT MASTER- PIECE 2017	DUBAI	LIVING TALENT	AROUND 75 PROJECTS SELECTED FROM THE INTERNATIONAL LEVEL FOR THE LIVING TALENT MASTERPIECE 2017 EVENT IN THE INNOVATION CATEGORY. OUT OF THIS ONLY 43 PROJECTS PRESENTED IN THE EVENT. IN THIS WE ARE ONE AMONG THEM.
10	2017	14 <sup>TH</sup> DECEMBER 2017	AU INDIA & SAARC 2017	BANGALORE	ICT ACADEMY	AU INDIA & SAARC 2017 HELD AT THE LALIT ASHOK HOTEL, BENGALURU, KARNATAKA. OUR COLLEGE FACULTY DR. K. SIVASAKTHI BALAN AND MR. R. VIAJI PARTICIPATED IN THE







**SSCE 2015-16 EVENTS DETAILS (COMPLETED)**

SL.NO	YEAR	DATE	EVENT	PLACE	ORANISER	ACHIEVEMENTS
11	2017	5 <sup>TH</sup> DECEMBER 2017.	SAEINDIA FOUNDATION AWARDS FOR THE YEAR 2016-17	NEW DELHI	SAE	OUR SRI LEO MUTHU INNOVATION CENTRE STUDENT MR. K. MONISH BABU SELECTED FOR THE SAE INDIA FOUNDATION AWARDS REVATHI IYER AWARD FOR EXCELLENCE IN TECHNICAL WRITING (2ND POSITION), CONSTITUTED BY SAE INDIA FOUNDATION, TO HONOR ENGINEERING IN HOTEL HOLIDAY INN, AEROCITY, NEW DELHI
12	2018	10 <sup>TH</sup> JANUARY 2018	UDAANSHIKSHA	BANGALORE	UDAANSHIKSHA	WE ARE HAPPY TO INFORM YOU THAT "UDAANSHIKSHA (A UNIT OF EJESMAPA TECHNOLOGIES PVT LTD)" MEMORANDUM OF UNDERSTANDING (MOU) SIGNING FUNCTION WAS CONDUCTED ON 10 <sup>TH</sup> JANUARY 2018 IN OUR COLLEGE. AROUND 150 PARTICIPANTS FROM SCIENCE AND HUMANITIES STUDENTS WERE PARTICIPATED IN THE EVENT.



13	2018	28.02.2018.	ANYTHSANA	BANGALORE	AGASTYA INTERNATIONAL FOUNDATION SHIK- SHAK SADAN BANNAPPA	TEAMS WERE SHORTLISTED. IN THE SECOND ROUND THEY SHORTLISTED 45 TEAMS IN THAT WE ARE ONE AMONG THEM. OUT OF THIS 45 TEAMS OUR TEAM SECURED OVERALL SECOND POSITION WITH RS.25000/- CASH PRIZE. IT WAS AWESOME DAYS FOR THE STUDENTS AND FACULTY OF SRI SAIRAM COLLEGE OF ENGINEERING.
14	2018	5 <sup>TH</sup> FEBRUARY 2019	INNOVATION FOR DEFENCE EXCELLENCE PROGRAMME (IDEX)	DELHI	DST	OUR SRI LEO MUTHU INNOVATION CENTRE TEAM VARUNA PROJECT AUTONOMOUS UNDERWATER VEHICLE HAS BEEN SELECTED FOR THE DEFENCE INDIA START UP CHALLENGE (DISC) 2018 LAUNCHED IN AUG 2018 UNDER THE INNOVATION FOR DEFENCE EXCELLENCE (IDEX) PROGRAMME, WHICH HAS BEEN SHORTLISTED FOR STAGE 2 SCREENING ON WEDNESDAY, 5 <sup>TH</sup> FEBRUARY 2019 AT INVEST INDIA OFFICE, VIGYAN BHAWAN ANNEXE, MAULANA AZAD ROAD, NEW DELHI 110011 INDIA. CHALLENGE CATEGORY: UNMANNED SURFACE AND UNDERWATER VEHICLES
15	2018	21.03.2018.	KARNATAKA STUDENT INNOVATOR AWARD RE- PORT	BANGALORE	ICT ACADEMY	OUR SRI LEO MUTHU INNOVATION CENTRE'S E-BIKE PROJECT TEAM PARTICIPATED AND SHOWCASED THEIR PRODUCT IN KARNATAKA STUDENT INNOVATOR AWARD 2017 ORGANIZED BY ICT ACADEMY AT SRI VENKATESHWARA COLLEGE OF ENGINEERING, BANGALORE.



**SSCE 2018 EVENTS DETAILS (COMPLETED)**

SL.NO	YEAR	DATE	EVENT	PLACE	ORANISER	ACHIEVEMENTS
16	2018	19	PRESS MEET	BANGALORE	SAIRAM	<p>THIS EVENT SHOWCASES PRODUCTS LIKE SAIRAM RESCUERS – BOREWELL RESCUE TEAM, SUPERSCHNELL – ALL TERRAIN VEHICLE TEAM, POD – THE FUTURISTIC CAR, RAKSHAQ _ MARS ROVER VEHICLE, VARUNASTRA – STUDENTS FORMULA CAR, SMART METRO STATION FOR PUBLIC SAFETY, EDUVISTA – VIRTUAL AND AUGMENTED REALITY IN EDUCATION, SILLA-DE-REDUAS - A WHEEL CHAIR FOR PHYSICALLY CHALLENGED PEOPLE THROUGH HEAD MOVEMENTAND SOLAR POWER HETEROGENEOUS WEARABLE ADAPTORPROJECTS.</p> <p>MANAGEMENT SPONSORED AMOUNT OF RS. 3,56,500 (RUPEES 3 LAKHS FIFTY-SIX THOUSAND FIVE HUNDRED ONLY) FOR THE 9 TEAMS AS THE TOKEN OF APPRECIATION.</p>
17	2018	2ND 20AU-GU18ST 2018	INDIA INNOVATION GROWTH PROGRAMME (IIGP) 2.0	DELHI	IIGP & IIMB	<p>WE ARE PLEASED TO INFORM YOU OUR TEAM VARUNA'S AUV AS ONE OF THE UNIVERSITY CHALLENGE WINNERS OF THE DST – LOCKHEED MARTIN – TATA TRUSTS INDIA INNOVATION GROWTH PROGRAMME (IIGP) 2.0 FOR 2018.</p> <p>WE WERE INVITED FOR THE AWARDS CEREMONY WHICH WAS HELD ON 2ND AUGUST 2018 AT TAJ MAHAL HOTEL (MAN SINGH ROAD), NEW DELHI. OUR TEAM WERE AWARDED WITH RS. 10,00,000/- AS RESEARCH GRANT AT THE CEREMONY BY DR. HARSHA VARDHAN, HONOURABLE UNION MINISTER FOR SCIENCE AND TECHNOLOGY, &amp; EARTH SCIENCES, GOVERNMENT OF INDIA, IIGP PARTNERS AND THE INDIAN START-UP AND INNOVATION COMMUNITY.</p>



18	2018	12 <sup>TH</sup> OCTOBER 2018	AND DE- FENCE START-UP C O N- FERENCE 2018	BANGALORE	IIGP & LOCK- HEED MARTIN	ADVISORS MR. A.MUTHUVEL PARTICIPATED AND SHOWCASED THEIR PRODUCTS IN THE EXPO. VARIOUS TECHNICAL PEOPLES FROM LOCKHEED MARTIN F16 TEAMS, DST, IIGP, FORGE FORWARD INCUBATORS, UTC AEROSPACE, MEDIA PEOPLE ETC. VISITED OUR STALL AND GAVE SUGGESTION FOR IMPROVEMENTS BY THEIR EXPERTISE.
19	2018	11.10.2018 TO 13.10.2018.	VIBRANT GUJARAT GRAND CHALLENGE 2018			OUR COLLEGE TEAMS DRONA (DRONE TEAM) WITH FACULTYADVISORS MR. ARUNKUMAR MR PARTICIPATED AND SHOWCASED THEIR PRODUCTS IN THE EXPO. VARIOUS TECHNICAL PEOPLES FROM AMARON BATTERIES, MAHINDRA, AUTODESK, ROYAL ENFIELD, 3D PRINTER EXPERTISE, ENTREPRENEURS', INNOVATORS, VARIOUS COLLEGE STUDENTS, SCHOOL STUDENTS, PARENTS, KIDS ETC. VISITED OUR STALL AND GAVE SUGGESTION FOR IMPROVEMENTS BY THEIR EXPERTISE. RECEIVED RS10000 FROM GUJARAT DEPUTY CM MR. NITINBHAI PATEL FOR TOP 25 IDEAS
20	2018	21ST DECEMBER 2018	THE CHENNAI NEXT START-UP CHALLENGE 2018	CHENNAI	CITIC	WE ARE PLEASED TO INFORM YOU OUR TEAM VARUNA (AUTONOMOUS UNDERWATER VEHICLE) AND TEAM AIRAVATHA (UNMANNED GROUND VEHICLE) TEAMS SELECTED FOR THE CHENNAI NEXT START-UP CHALLENGE 2018 - TOP 50 FINALISTS.



**SSCE 2015-16 EVENTS DETAILS (COMPLETED)**

SL.NO	YEAR	DATE	EVENT	PLACE	ORANISER	ACHIEVEMENTS
21	2018		BMW SKILLNEXT PROGRAMME	CHENNAI	BMW	BMW AIMING TO ACT AS A MAJOR CATALYST IN DEVELOPING AUTOMOTIVE TALENT IN THE COUNTRY, 'SKILL NEXT' WILL REACH EDUCATIONAL INSTITUTES AND STUDENTS IN EVERY STATE AND UNION TERRITORY IN INDIA. THROUGH THE INITIATIVE, 365 BMW ENGINE AND TRANSMISSION UNITS WILL BE PROVIDED FOR LEARNING PURPOSES TO ENGINEERING AND TECHNICAL INSTITUTES AT NO COST. 'SKILL NEXT' WILL PRESENT AN OPPORTUNITY FOR ENGINEERING AND TECHNICAL STUDENTS TO GET HANDS-ON TRAINING ON ADVANCED TECHNOLOGIES OF BMW ENGINE AND TRANSMISSION.
22	2019	28 <sup>TH</sup> JAN TO 30 <sup>TH</sup> JAN 2019.	ISTE- KERALA GOVERNMENT ENGINEERING DESIGN NATIONAL AWARD	AHMADABAD	ISTE	OUR SRI LEO MUTHU INNOVATION CENTRE PROJECT MANAV ESHA YANAK (HUMAN POWERED HYBRID SINGLE SEATED CAR) HAS BEEN AWARDED SECOND PRIZE IN KERALA GOVERNMENT ENGINEERING DESIGN NATIONAL AWARD DURING 21 <sup>ST</sup> ISTE STUDENTS NATIONAL ANNUAL CONVENTION ORGANISED BY L.D COLLEGE OF ENGINEERING AND TECHNOLOGY IN ASSOCIATION WITH ISTE.



23	2019	14 <sup>TH</sup> FEB 2019	THE CHENNAI NEXT STAR UP CHALLENGE 2018	CHENNAI	CITIC	VARUNA (AUTONOMOUS UNDERWATER VEHICLE) AND TEAM AIRAVATHA (UNMANNED GROUND VEHICLE) TEAMS SELECTED FOR THE CHENNAI NEXT START-UP CHALLENGE 2018 - TOP 25 FINALISTS.
24	2019	23 <sup>RD</sup> FEB 2019	MARINE TECHNOLOGY SOCIETY INAUGURAL PROGRAMME	BANGALORE	SAIRAM	WE ARE HAPPY TO INFORM YOU THAT "INAUGURATION OF MTS STUDENT CHAPTER WAS ORGANISED IN OUR COLLEGE CAMPUS.
25	2019	18 <sup>TH</sup> MARCH 2019	INSTITUTE OF AERO-NAUTICS ASTRONAUTICS & AVIATION	BANGALORE	SAIRAM	WE ARE HAPPY TO INFORM YOU THAT "INAUGURATION OF IAAA COLLEGIATE CHAPTER WAS ORGANIZED BY SRI LEO MUTHU INNOVATION CENTRE ON 18TH MAR 2019" IN OUR COLLEGE CAMPUS. SHRI. H.N. BHAGAVAN, FORMER MISSION DIRECTOR ISRO, DR. G. RAMESH, FORMER HEAD OF MAV, CSIR NAL, SHRI. C. S. KARUNAKARAN, HONORARY SECRETARY GENERAL, IAAA, S R ARYA, DIRECTOR, EJESMAPA TECHNOLOGIES PVT. LTD. ARE INVITED AS THE GUESTS FOR THE INAUGURAL FUNCTION.



**SSCE 2015-16 EVENTS DETAILS (COMPLETED)**

SL.NO	YEAR	DATE	EVENT	PLACE	ORANISER	ACHIEVEMENT
26	2019	27 <sup>TH</sup> MAY 2019	IICDC	BANGALORE	TEXAS INSTRUMENTS & IIM B	DREWELL CHILD RESCUE ROBOT SELECTED FOR 100 FINALISTS DURING SEMI-FINALS HELD AT IIM BANGALORE ON 27 <sup>TH</sup> MAY 2019 OUT OF 60 PLUS TEAMS. IT WAS AWESOME DAYS FOR THE STUDENTS AND FACULTY OF SRI SAIRAM COLLEGE OF ENGINEERING. TEAM COMPRISES OF EMANTH C REDDY, SAHANA HM, SANDEEP IAMA- TI, AKASH, BUKKAPATI MANASA, MONISSH BABU -ALUMNI, DARSHAN N K - RESEARCH ENGINEER AND MR. HARISH BABU L FACULTY ADVISOR - MECHANICAL ENGINEERING DEPARTMENT . TEAM WILL BE RECEIVING \$5.500000 AS A PRODUCT DEVELOPMENT FUND FROM PANEL.
27	2019	09 <sup>TH</sup> NOVEM- BER 2019	1 <sup>ST</sup> INTERNATIONAL CONFERENCE ON MARITIME AUTONOMOUS SURFACE SHIP (ICMASS 2018)	SOUTH KOREA	INAS	WE WOULD LIKE TO INFORM YOU THAT OUR RESEARCH PAPER "UNDER HEEL REFERENCE SYSTEM FOR AUTON- OMOUS SHIPS - OCEAN MAPPING" IS SELECTED FOR ORAL PRESENTATION IN 1 <sup>ST</sup> INTERNATIONAL CONFERENCE ON MARITIME AUTONOMOUS SURFACE SHIP (ICMASS 2018) IS THE FIRST INTERNATIONAL CONFERENCE WHICH PRESENTS CUTTING-EDGE WORKS ON AUTONOMOUS SHIPS TO BOTH ACADEMIC AND INDUSTRY RESEARCHERS. ICMAS2018 HELD AT BUSAN



BUSAN, REPUBLIC OF KOREA ON NOVEMBER 8-9, 2018. ICMAS 2018 PROVIDES AN OPPORTUNITY NETWORKING EVENT AMONG RESEARCHERS, INDUSTRIES, AND ACADEMICS AROUND THE WORLD.

28

2017

29<sup>TH</sup> SEPTEMBER -  
02<sup>ND</sup> OCTOBER  
2017

ANCED ROBOTIC  
WORKSHOP

BANGALORE

ROVE LAB

WE ARE HAPPY TO INFORM YOU THAT "FOUR DAYS' WORKSHOP ON ADVANCED ROBOTICS" WAS CONDUCTED IN OUR COLLEGE. AROUND 40 PARTICIPANTS FROM VARIOUS SRI LEO MUTHU INNOVATION CENTRE TEAMS' STUDENTS WERE PARTICIPATED IN THE EVENT.

29

2017

TH FEB -26TH FEB  
2017

PRE-VIRTUAL ROUND

BANGALORE

ISIE

WE ARE HAPPY TO INFORM YOU THAT "ZONAL ROUND (SOUTH ZONE) PRE-VIRTUAL ROUND OF ISIE-INDIAN KARTING 17 FROM WAS CONDUCTED IN OUR COLLEGE BEHALF OF IMPERIAL SOCIETY OF INNOVATIVE ENGINEERS (AN ISO 9001:2008, ACCREDITED WITH MSME, FMSCI (MINISTRY OF SPORTS) AND SUPPORTED BY CII (MINISTRY OF COMMERCE & INDUSTRIES) AND EDN, USA.

AROUND 24 TEAMS WITH 200 PARTICIPANTS FROM VARIOUS PARTS OF THE SOUTH INDIAN TEAMS PARTICIPATED IN THE EVENT.



30

2018

8TH –13 May 2018

IOT WORKSHOP

BANGALORE

ROVE LAB

WE ARE HAPPY TO INFORM YOU THAT  
"FOUR DAYS' WORKSHOP ON MILTECH 3 AXIS  
CNC MACHINE DE- SIGN AND BUILDING IN OUR  
COLLEGE. AROUND 40 PARTICIPANTS FROM  
DEPARTMENT OF MECHANICAL ENGI- NEERING  
STUDENTS WERE PARTICIPATED IN THE EVENT.



**SSCE 2019 EVENTS DETAILS (COMPLETED)**

SL.NO	YEAR	DATE	EVENT	PLACE	ORANISER	ACHIEVEMENT
31	2019	RCH 2019 – 18 <sup>TH</sup> OC- TOBER 2019	DRONE TECHNOLO GY WORKSHO P	BANGALORE	UDAANSHIKS HA	WE ARE HAPPY TO INFORM YOU “DRONE TECHNOLOGY WORKSHOP WAS CONDUCTED IN OUR COLLEGE BEHALF OF SRI LEO MUTHU INNOVATION CENTRE. . SHRI. H.N. BHAGAVAN, FORMER MISSION DIRECTOR ISRO, DR. G. RAMESH, FORMER HEAD OF MAV, CSIR NAL, SHRI. C. S. KARUNAKARAN, HONORARY SECRETARY GENERAL, IAAA, S R ARYA, DIRECTOR, EJESMAPA TECHNOLOGIES PVT. LTD. ARE INVITED AS THE GUESTS FOR THE INAUGURAL FUNC- TION. THE 41 INTER-DISCIPLINARY STUDENTS PARTICIPATED IN THE DRONE TECHNOLOGY EVENT.
32	2019	31st July –5th August 2019	“DESIGN AND FABRICA- TION OF GO-KART VEHI- CLE – FOR WOMEN”	BANGALORE	SAIRAM	DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION WITH SLMIC HAS SUCCESSFULLY ORGANIZED VTU TEQIP 1.3 SPON- SORED SIX DAY’S WORKSHOP ON “DESIGN AND FABRICATION OF GO-KART VEHICLE – FOR WOMEN”



33	2019	15 TH OF AUGUST 2019	CENTERV OF EXCELLENCE FOR DRONE INNOVATION & TECHNOLOGY	ANGALORE	UDAANSHIKSHA	SIGNED MOU WITH M/S UDAANSHIKSHA FOR THE CENTERV OF EX-CELLENCE FOR DRONE INNOVATION & TECHNOLOGY
34	2019	01 MAY 2019	MOU SIGNING	SOUTH KOREA	SAIRAM	SIGNED MOU WITH THE KOREAN MARITIME OCEAN UNIVERSITY FOR STUDENTS EXCHANGE AND FACULTY EXCHANGE PROGRAMME



## SSCE 2015-16 EVENTS DETAILS (COMPLETED)

SL. NO.	TEAM	EVENTS	ORGANIZER	DATE	PLACE	AS PARTICI - PATED	OVERALL POSITION	ACHIEVEMENTS
1	MECHROCKZ GOKART TEAM	Starting Championship	Shri Vishnu Engineering of College	to 25 <sup>th</sup> January 2016	Bhimavaram (Andhra Pradesh)	19	5	Team cleared the technical inspection as 3 <sup>rd</sup> team, 2 <sup>nd</sup> team in business plan and rain test. Team Venkatesh covered 40 laps.
2		MVJ championship	MVJ College	18 <sup>th</sup> to 19 <sup>th</sup> March 2016	Bangalore	7	3	Overall 3 <sup>rd</sup> position
3		an Karting Championship	ISIE Sri Krishna College of Engineering and Technology	28 <sup>th</sup> August 2016	Coimbatore	55	4	Team won the ISIE futuristic Award with Rs. 40,000 cash prize, First position in Best Design and 4 <sup>th</sup>
4		ISIE Electric solar Vehicle Championship 2016	RPM International ng Circuit, Rati-bad Bhopal	h March to 29 <sup>th</sup> March 2016	Bhopal	76	16	Our team ASHWA secured 16 <sup>th</sup> position in ISIE ESVC event out of 76 teams,



13	SOLAR VEHICLE TEAM	INDO ASIAN SOLAR VEHICLE CHALLENGE 2018	ASHWAN MOTORS	April 2018	Satna	
14	RSCHNELL BAJA	E BAJA 2018 VIRTUAL	SAE	JUNE-JULY 2017	DELHI	VIRTUAL ROUND RESULT Overall 125 <sup>th</sup> Position achieved In New entry team category In Dynamic round over Karnataka





## SSCE 2018-19 DETAILS COMPLETED

SL. NO.	TEAM	EVENTS	ORGANIZER	DATE	PLACE	STATUS
1	ADITI!	GLOBAL SPACE AND TECHNOLOGY CONVENTION (GSTC) 2019 & SINGAPORE SPACE CHALLENGE 2019 REPORT	THE SINGAPORE SPACE CHALLENGE (SSC)	13TH FEBRUARY TO 15TH FEBRUARY 2019	SINGAPORE	TOTALLY 40 TEAMS PARTICIPATED IN THE SINGAPORE SPACE TECHNOLOGY FROM ALL OVER THE WORLD. OUT OF THIS 6 TEAMS SHORTLISTED FOR THE PITCHING SESSION IN GLOBAL SPACE AND TECHNOLOGY CONVENTION (GSTC) 2019. WE ARE ONE AMONG THEM. JUDGES ARE HIGHLY APPRECIATED ABOUT THE DESIGN



					SUGGESTION FOR THE IMPROVEMENTS.	
2	DRONA	AERO DESIGN CHALLENGE-2019	SAEINDIA	19 <sup>TH</sup> 20 <sup>TH</sup> & 21 <sup>TH</sup> , 2019	CHENNAI	THERE WERE ABOUT 146 TEAMS WERE REGISTERED FOR EVENT AROUND 125 TEAMS WERE SUSSSESFULLY BUILD THE MODEL. OVERLALL 75TH POSITION
3	SAIRAM RESCUERS	IEEE YESIST 12 – MAKERS FAIR	IEEE	7 <sup>TH</sup> & 8 <sup>TH</sup> SEP-TEMBER 2019	BANGKOK, THAILAND	IN THIS
4	DRONA	IEEE YESIST 12 – MAKERS FAIR	IEEE	7 <sup>TH</sup> & 8 <sup>TH</sup> SEP-TEMBER 2019	BANGKOK, THAILAND	INTERNATIONAL EVENT ABOUT 16 DIFFERENT
5	VARUNA	IEEE YESIST 12 – MAKERS FAIR	IEEE	7 <sup>TH</sup> & 8 <sup>TH</sup> SEP-TEMBER 2019	BANGKOK, THAILAND	COUNTRIES IN THE WORLD WERE



						SHOWCASED THEIR IDEAS IN AN INTERNATIONAL PLAT- FORM. THE DIFFERENT COUNTRIES PARTICIPANT
6	VARUNASTRA	STUDENTS FORMULA RACE	FMAE	27TH SEPTEMBER TO 04TH OCTOBER 2019	COIMBATORE	TEAM SUCCESSFULLY PARTICIPATED IN THE EVENT
7	MECHROCKZ	GOKART EVENT	MAGINE TO INNOVATE	24TH TO 30TH OCTOBER 2019	VIZAG	WOMEN EMPOWERMENT AWARD BEST POSTER DESIGN AWARD



3	2017	17TH TO 19TH OF FEBRUARY 2017	ECO DRIVATHON 2017	BANGALORE	CIIRC	TEAM SECURED "THIRD POSITION IN THE B10 CATEGORY".
4	2017	2ND FEBRUARY TO 4TH FEBRUARY 2017	MOBILITY EXPO 2017	PRAGATI MAIDAN IN NEW DELHI, INDIA	MINISTRY OF HEAVY INDUSTRIES & PUBLIC ENTERPRISES, GOVERNMENT OF INDIA, PETROLEUM CONSERVATION RESEARCH ASSOCIATION (PCRA), MINISTRY OF NEW AND RENEWABLE ENERGY.	OUR COLLEGE TEAMS TEAM RAIDERS (E-BIKE TEAM) WITH THREE FACULTY ADVISORS MR.RAVI V. ANGDI, MR.ARUNKUMAR MR AND MR.A. MUTHUVEL PARTICIPATED AND SHOWCASED THEIR PRODUCTS IN THE EXPO. VARIOUS TECHNICAL PEOPLES FROM AMARON BATTERIES, MAHINDRA, AUTODESK, ROYAL ENFIELD, 3D PRINTER EXPERTISE, ENTREPRENEURS', INNOVATORS, VARIOUS COLLEGE STUDENTS, SCHOOL STUDENTS, PARENTS, KIDS ETC. VISITED OUR STALL AND GAVE SUGGESTION FOR IMPROVEMENTS BY THEIR EXPERTISE. PARENTS AND KIDS ENJOYED WHILE SEEING OUR VEHICLES.
5	2017	25.05.2017	PRESS MEET	BANGALORE	SAIRAM	PRESS MEET EVENT BEING HELD AT THE BANGALORE PRESS CLUB, BANGALORE, INDIA. THIS EVENT SHOWCASES PRODUCTS LIKE ELECTRIC VEHICLES, SOLAR VEHICLE SINGLE SEATER AND MULTI-SEATER, AUV, GO-KARTS, RC CRAFT, QUADCOPTER, SMART NEW GEN POWER GENERATION AND AUTOMATIC WET DRY COLLECTOR PROJECTS.



5	ASHWA SOLAR VEHICLE TEAM	(RISC)-LPU Indo Asian Solar Vehicle challenge 2016	LPU	4 <sup>th</sup> April to 8 <sup>th</sup> April 2016	Jalandhar	36	4	position in brake and acceleration and won the endurance a runner up in (RISC)-LPU with the cash prize of Rs. 10,000 out of 36 teams. Team showed the drastic performance in (RISC)-LPU endur- ance round and driver Kiran Kumar covered 43 laps.
6	RAIDERS EBIKE TEAM	(RISC)-LPU Indo Asian e-bike challenge 2016	LPU	4 <sup>th</sup> April to 25 <sup>th</sup> April 2016	Jalandhar	17	5	Overall 5 <sup>th</sup> position, autocross 2 <sup>nd</sup> position, Weight 4 <sup>th</sup> position 3 <sup>rd</sup> acceleration
7	VARUNA AUTONOMOUS UNDER WATER VEHICLE TEAM	Singapore Autonomous Underwater Vehicle (SAUV) challenge	National University of Singapore	4 <sup>th</sup> March to 6 <sup>th</sup> March 2016	Singapore	19	Position not mentione d	The team excelled and was highly appreciated for their inno- vative design under the category of less weight (< 38 Kgs), compact shape and size,



## SSCE 2016-17 EVENTS DETAILS (COMPLETED)

SL. NO.	TEAM	EVENTS	ORGANIZER	DATE	PLACE	STATUS
1	VARUNA AUTONOMOUS UNDER WATER VEHICLE TEAM	Students Autonomous Underwater Vehicle challenge (SAVe2016)	Nation Institute of Ocean Technology	26 <sup>th</sup> December 2016	Chennai	The team excelled and was highly appreciated for their innovative design under the category of less weight (< 38 Kgs), compact shape and size, electronics innovation and customized thrusters.
2	RAIDERS EBIKE TEAM	Vishnu Emotor Championship	Shri Vishnu En- gineering of College	26 <sup>th</sup> Septem-ber 2016	Bhimavaram (Andhra Pradesh)	Won Overall Championship , Winners in endurance and auto- cross rounds. 3 <sup>rd</sup> position in Autocross and Endurance. Se-



						Virtual Design out of 60 Teams with Rs. 1 Lakh Cash Prize.
3	MECHROCKZ GOKART TEAM	lit Second Karting	o Motor- sports	October	Coimbatore	Won Overall Best design Award with Rs. 10,000 cash Prize
4	RAIDERS EBIKE TEAM	E- Bike Lightning	o Motor- sports	October	Coimbatore	Won Overall Best design Award with Rs. 10,000 cash Prize
5	MECHROCKZ GOKART TEAM	VKC 2017	Shri Vishnu En- gineering College	30 <sup>th</sup> January 2017	Bhimavaram (Andhra Pradesh)	Won Best Driver Award, Skid Pad Winner and
6	SAIRAM WARRIORS WOMENS GOKART TEAM	VKC 2017	Shri Vishnu En- gineering College	27 <sup>th</sup> to 30 <sup>th</sup> January 2017	Bhimavaram (Andhra Pradesh)	Won Overall Runners- up with Rs. 45,000 cash prize.



**SSCE  
 2016-17  
 EVENTS  
 DETAILS  
 (COMPLE  
 TED)**

SL. NO.	TEAM	EVENTS	ORGANIZER	DATE	PLA CE	STATUS
7	SHITHIJ RC CRAFT TEAM	RC Craft Champi onship	Techno Xian	March-April 2017	DELHI	Event Completed
8	VARUNA AUV TEAM	Singapore Autonomous Underwater Vehicle (SAUV) challenge	National Univerity of Singapore	4 <sup>th</sup> March to 6 <sup>th</sup> March 2017	SINGAPOR E	Event Completed
9		ELECTRIC SOLAR VEHICLE CHAMPIOSHIP PROFESSIONALS'17	ISIE	28 <sup>th</sup> March to 2 <sup>nd</sup> April 2017	DEL HI	Won the 2nd runner up



**SSCE 2017-18 DETAILS EVENTS COMPLETED**

SL. NO.	TEAM	EVENTS	ORGANIZER	DATE	PLACE	STATUS
1	VARUNA AUV TEAM	Singapore Autonomous Underwater Vehicle (SAUV) challenge	National University of Singapore	March 2018	SINGAPORE	The team excelled and was highly appreciated for their innovative design under the category of less weight (< 380g), compact shape and size, electronics innovation and customized thrusters.
2	MECHROCKZ GOKART TEAM	RACING CHAMPION- SHIP	SIEGER INNOVATION	MARCH	KAKINADA	Won the best technical inspection award with 5000 cash prize.



3	SAIRAM WARRIORS	TING CHAMPION- SHIP	SIEGER INNOVATION	MARCH	KAKINADA	in the best technical inspection award with 5000 cash prize.
4	RAIDERS EBIKE TEAM	Asian e-bike challenge 2018	Imagine to innovate	March 2018	Hyderabad	Won best quality vehicle, surprise vehicle, runner-up in autocross and skidpad round
5		NATAKA STUDENT INNOVATOR AWARD 2017	ICT ACADEMY	21.03.2018	BANGALORE	Won Rs15000 cash prize.
6	RAKSHAQ	UNIVERSITY ROVER CHALLENGE	NASA	JUNE-JULY 2018	USA	Completed PDR
7	RAKSHAQ	INDIAN ROVER CHALLENGE	NASA	JUNE-JULY 2018	INDIA	Secured first position in conception Design Report
8	RAKSHAQ	EUROPEAN ROVER CHALLENGE	NASA	JUNE-JULY 2018	EUROPE	Completed PDR
9	NAKSHATRA	CANSAT EVENT	NASA	JUNE-JULY 2018	USA	Completed PDR



## SSCE 2017-18 DETAILS COMPLETED

SL. NO.	TEAM	EVENTS	ORGANIZER	DATE	PLACE	
10	TEAM DRONA	Masterpiece 2018	Living talent	December 2017	Dubai	Around 75 projects selected for Talent Masterpiece 2018, only 43 projects were shortlisted from them.
11	SAIRAM RESCUERS	ANVESHNA	ANVEHANA	26.02.2018 to 28.02.2018.	BANALORE	In first round, out of 35 teams selected. In the second round they were shortlisted. Out of this 45 teams our team was selected with Rs.25000/- cash prize.
12	VARUNASTHRA SUPRA TEAM	STUDENTS FORMULA SUPRA 2017	SAE	JUNE-JULY 2018	DELHI	We had secured 4 <sup>th</sup> Position among 128 teams in the SAE Supra competition.