



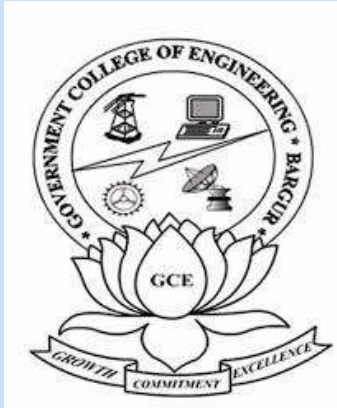
GOVERNMENT COLLEGE OF ENGINEERING, BARGUR



VISION 2020

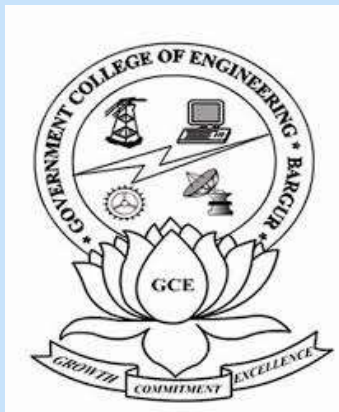
19 March 2015,
Admin Block Conference Hall,
GCE, Bargur-635104

Vision of the Institution



To provide world class engineers who are ethical and good citizens of our motherland

Mission of the Institution



To groom the student community through learner centric quality lectures, laboratories, Library and value added training.

ABOUT GCE BARGUR

- Started in the year 1994
- UG programmes at present
 - B.E. Electronics and Communication Engineering
 - B.E Electrical and Electronics Engineering
 - B.E.Computer Science and Engineering
 - B.E. Mechanical Engineering

ABOUT GCE BARGUR

Faculty Strength in the 4 Departments(UG)

DEPT	Professor	Associate Professor	Assistant Professor	Total
ECE	1	1	6	8
EEE	1	0	6	7
CSE	-	-	6	6
MECH	-	-	6	6
Total	2	1	24	27

VISION 2020 of GCE ,Bargur

- Getting NBA accreditation
- Starting P.G Programmes
- UGC Autonomy
- Creating Center of Excellence
- Improve R&D and consultancy practices
- Improve placement & Higher studies

Plan for academic improvements

Target	Action
Achieving more than 95% transition rate in first year results	<ol style="list-style-type: none">1. Strengthen the basics of the first year students.2. Deputing only senior and regular faculty for the first year and second year subjects3. Internal Question papers, Lab manuals to be approved by HOD/ C.F.A before the test.4. Question paper should map the course outcome, P.E.O and P.O
Improving results in higher semesters (3 rd – 8 th)	
Improving Overall grades (CGPA) of students	
Increasing number of GATE score holders	
	<ol style="list-style-type: none">5. Solution to the internal question papers should be posted in Notice board or college website.6. Course plan, lesson plan to be approved by the HOD after verifying C.O, P.E.O7. In class room teaching demonstration methods to be adopted.8. In practical classes teacher should run/conduct the experiment and explain the theory related to it.9. Including objective test (ie.3rd test) in the internal assessment.10. Creating peer groups in the class rooms for motivational learning.

Challenges & Possible Solutions

Challenge	Possible Solutions
Participation of students	<ol style="list-style-type: none">1. Maintaining smooth student-staff relations.2. Training the students, teachers for behavioral management, emotional management and time management.3. Creating extra curricular and co curricular activities (Existing systems to be revamped)4. Training the teachers in basic pedagogy and advanced pedagogy.5. Conducting competition for teachers to find/implement new pedagogy methods.6. Soft skill training required for students, staffs.
Motivation of students	
Behavioral challenges	
Training	

Plan for improving in Placement/Higher studies

- Invite CEO, VP or HR manager for any college programmes (FDP, STP,SDP and Symposium etc.)
- Increasing Industry institute relations.
- AMCAT examination to be made compulsory (100% participation)
- Continuously training the students in soft skills and English.
- Make the students talk in English
- Train the students for GRE, TOFEL
- Train the students in foreign languages
- Creating awareness to the students about the higher studies &placement opportunity.

GCE BARGUR –In 2020

- New PG programmes
 - M.E. Communication Systems
 - M.E. Computer Science and Engineering
 - M.E. Cyber Security
 - M.E. Power Electronics and Drives
 - M.E. Renewable Energy
 - M.E. Thermal Engineering
 - M.E. Manufacturing Engineering

GCE BARGUR –In 2020

Faculty Strength in the 4 Departments(UG & PG)

DEPT	Professor	Associate Professor	Assistant Professor	Total
ECE	2	4	14	20
EEE	2	4	14	20
CSE	2	4	14	20
MECH	2	4	14	20
Total	8	16	56	80

GCE BARGUR –In 2020

New labs for PG

- Advanced Communication Systems lab(ECE)
- Innovative System Design Lab(ECE)
- Solar Energy Lab(EEE)
- Waste to Energy Conversion Technology Lab(EEE)
- Cloud computing lab(CSE)
- Basic Automation lab(CSE)
- Virtual Cryptology lab(CSE)
- Communication technologies lab(CSE)

CENTER OF EXCELLENCE-IN 2020

- Centre of Excellence for VLSI Design
- Centre of Excellence for Robotics
- Instrument Testing and Calibration Centre
- CoE in Cyber Technology and Information Security
- **CoE in Special Electrical Drives and Renewable Energy**
- CoE in Alternate Fuel Research
- CoE in Renewable energy for processing agro products
- **CoE in Environmental Science and Engineering**

1.a.PROCUREMENT

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	175.00	102	110.00	100.00	130.00	<u>617</u>
EEE	89.8	283.60	0.00	0.00	0.00	<u>373.40</u>
CSE	90	16.50	13.50	16.54	59.50	<u>196.04</u>
Mech	95.00	85.00	45.00	20.00	0.00	<u>245</u>
Phy	9.00	10.00	12.00	18.00	60.00	<u>109</u>
Chem	136.00	0.00	0.00	0.00	0.00	<u>136</u>
Total	557.35	497.10	180.50	144.60	249.50	1676.40

1.b.CIVILWORKS (Rs. In Lakhs)

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	46	48	46	0	0	<u>140</u>
EEE	41.43	240	0	0	0	<u>281.43</u>
CSE	0	146.67	17.28	35.64	35.64	<u>355.23</u>
Mech	30	11.75	11.75	11.75	11.75	<u>77</u>
Phy	0	0	0	0	0	0
Chem	56.40	0	0	0	0	<u>56.40</u>
Total	293.83	446.42	75.03	47.39	35.64	910.06

2.PhD ASSISTANTSHIP

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	2.00	2.40	3.10	3.10	2.50	<u>13.10</u>
EEE	0.5	0.8	0.7	0.4	20	<u>22.4</u>
CSE	0.24	0.4	0.4	0.24	20.16	<u>21.44</u>
Mech	12.25	12.25	12.25	12.25	12.25	<u>61.25</u>
Phy	0.2	0.2	0.2	0.2	0.2	<u>1</u>
Chem	0	0	0	0	0	0
Total	15.19	16.05	16.65	16.19	55.11	119.19

3.R&D Activity

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	17	23.50	19.50	24	24	<u>108</u>
EEE	0.5	30	0.5	14.5	20	<u>65.5</u>
CSE	3.5	19	18	29	18	<u>87.5</u>
Mech	38	12.21	12.21	12.21	12.21	<u>86.84</u>
Phy	0	0	0	0	0	0
Chem	0	0	0	0	0	0
Total	59	84.71	50.21	79.71	74.21	347.84

4.a.FDP

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	24	14	14	20	14	<u>86</u>
EEE	17	31.5	18	15	0	<u>81.5</u>
CSE	7.5	12.54	22.08	10.54	14.58	<u>67.24</u>
Mech	10.8	13	13	14	15	<u>65.8</u>
Phy	2.5	2.5	2.5	2.5	2.5	<u>12.5</u>
Chem	4	0	0	0	0	<u>4</u>
Total	65.8	73.54	69.58	62.04	46.08	317.04

4.b.SDP

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	1.4	1.4	2.8	2.8	2.8	<u>11.2</u>
EEE	7.5	9	9	9	7.5	<u>42</u>
CSE	3.2	3.00	3.00	3.00	0	<u>12.20</u>
Mech	5.5	2.5	2.5	2.5	2.5	<u>15.5</u>
Phy	0	0	0	0	0	0
Chem	2	0	0	0	0	<u>2</u>
Total	19.60	15.90	17.30	17.30	12.80	82.90

Academic Support Programmes

DEP T	2015- 2016	2016- 2017	2017- 2018	2018- 2019	2019- 2020	Total Progra mmes	Budge t(in lakhs)
<u>ECE</u>	11	11	11	11	11	55	5.5
<u>EEE</u>	8	8	8	8	8	40	4.0
<u>CSE</u>	10	11	11	11	11	54	5.4
<u>MEC H</u>	13	13	13	13	13	65	6.5
<u>Chemi stry</u>	4	4	4	4	4	20	2.0
Total	46	47	47	47	47	234	23.4

Student training Programmes

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Budget(i n lakhs)
<u>ECE</u>	40.6	40.6	40.6	40.6	40.6	203
<u>EEE</u>	11.2	11.2	11.2	11.2	11.2	56
<u>CSE</u>	16.8	8.4	4.2	4.2	4.2	37.8
<u>MECH</u>	7.9	7.0	12.8	7	4.2	30.9
<u>Phy</u>	6.5	9	9	9	9	42.5
<u>Chem</u>	3	3	3	3	3	15
<u>English</u>	6.5	5	5	9	5	30.5
Total	92.5	84.2	85.8	84	77.2	415.7

Academic Support & STP

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Budget (Rupees in lakhs)
Academic Supprt	4.6	4.7	4.7	4.7	4.7	23.4
STP	92.5	84.2	85.8	84	77.2	415.7
TOT	97.10	88.9	90.50	88.7	81.90	439.1

5.INDUSTRY INSTITUTE INTERACTION

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	8.15	10.10	8.15	10.10	8.15	<u>44.65</u>
EEE	7	7	7	7	7	<u>35</u>
CSE	7	7	7	7	7	<u>35</u>
Mech	2.4	2.4	2.4	2.4	2.4	<u>12</u>
Phy	4	0	0	0	0	<u>4</u>
Chem	2.5	0	0	0	0	<u>2.5</u>
English	0	0	0	0	0	0
Total	31.05	26.50	24.55	26.50	24.55	133.15

6. MANAGEMENT CAPACITY ENHANCEMENT

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	2.50	2.50	2.50	2.50	2.50	<u>12.50</u>
EEE	2.50	2.50	2.50	2.50	2.50	<u>12.50</u>
CSE	0	0.50	1	1	1	<u>3.50</u>
Mech	4	4	4	4	4	<u>20</u>
Phy	0	0	0	0	0	0
Chem	1	0	0	0	0	<u>1</u>
English	0	0	0	0	0	0
Total	10	9.50	10.00	10	10	49.50

7. INSTITUTIONAL REFORMS

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	2	2	2	2	3	<u>11</u>
EEE	2	2	2	2	3	<u>11</u>
CSE	0	0	0	0	0	0
Mech	2	1	2	1	1	<u>7</u>
Phy	0	0	0	0	0	0
Chem	0	0	0	0	0	0
English	0	0	0	0	0	0
Total	6	5	6	5	7	29

8.ACADEMIC SUPPORT

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	1.1	1.1	1.1	1.1	1.1	<u>5.5</u>
EEE	0.8	0.8	0.8	0.8	0.8	<u>4</u>
CSE	1	1.2	1.2	1.2	1.2	<u>5.8</u>
Mech	1	1.3	1.3	1.3	1.3	<u>6.2</u>
Phy	0	0	0	0	0	0
Chem	0.40	0.40	0.40	0.40	0.40	<u>2.00</u>
English	0	0	0	0	0	0
Total	4.30	4.80	4.80	4.8	4.80	<u>23.5</u>

9.IOC

DEPT	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
ECE	10	12	6	11	15	<u>54</u>
EEE	1	1	1	1	1	<u>5</u>
CSE	6	1	1	1	1	<u>10</u>
Mech	2	2	2	2	2	<u>10</u>
Phy	0	0	0	0	0	0
Chem	0	0	0	0	0	0
English	0	0	0	0	0	0
Total	19	16	10	15	19	79

COMPONENTWISE OVERALL BUDGET

COMPONENTS	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	TOTAL
1.a. Procurement	557.35	497.10	180.50	144.60	249.50	1429.58
1.b Civil works	293.83	446.42	75.03	47.39	35.64	906.73
2. Phd Assistantship	15.19	16.05	16.65	16.19	55.11	119.19
3.R&D	59	84.71	50.21	79.71	74.21	347.84
4.a.FDP	65.8	73.54	69.58	62.04	46.08	317.04
4.b.SDP	19.60	15.90	17.30	17.30	12.80	82.90
4.c.STP	97.10	88.9	90.50	88.7	81.90	439.1
5.III	31.05	26.50	24.55	26.50	24.55	133.15
6.Management Capacity	10	9.50	10.00	10	10	49.50
7.Institutional reforms	6	5	6	5	7	29
8.Academic support	4.30	4.80	4.80	4.8	4.80	23.5
9.IOC	19	16	10	15	19	79
Total	1178.22	1284.42	555.12	517.23	620.59	4155.58

GCE BARGUR –Beyond 2020

- ECE
 - CoE-Advance Communication Systems – Cognitive Radio
 - EMI / EMC Testing Centre
- EEE
 - Planed to Start M.E – High Voltage Engineering
 - To Start High Voltage Testing Lab
- CSE
 - Global Value - World class engineers who are ethical and good citizens of our motherland.
 - GCEB- CSE Hub for Socio- Technical Research
 - creating a global meta-university, a transcendent, accessible, empowering, dynamic, communally constructed framework of Web-based open materials and platforms on which much of higher education worldwide can be either constructed or enhanced



THANK YOU