SDM College Engineering and Technology, Dhavalagir Dharwad

Electrical and Electronics Engineering

ALUMNI FEEDBACK

Year wise suggestions for inclusion of new courses/contents

Questions asked in google form:

Do you like to suggest any specific contextually relevant technical content to be included in the curriculum as per the current trend? if YES please specify.

Long answer text

Any specific observation/ suggestion for the further growth of the department

Long answer text

Answers

1992	In today's environment, disruption is the norm across all sectors. This is primarily due to changing behaviour, thinking and adaptability of all of the stakeholders involved. Such practices for innovation, ideation and to think out of the box - should be encouraged more and more
1997	Required more exposure to on site Practical experience
1999	Artificial Intelligence (AI) and Machine Learning
2000	Industrial Automation, AI. Robotics, IoT
	Smart grid, SCADA, curriculum to be updated as per industrial demand.
2006	Latest Trends and the Technologies should be included, current curriculum needs to be updated based on market and industrial trends
2008	IoT/ smart grid
2010	More practical expose to subject matters and electrical equipment so that along with theory students should know the actual equipment in hand will be added advantage . Like completely open transformer, circuit breakers, motors windings etc.
	I think even though people enroll themselves into EEE, some programming knowledge subjects should be made mandatory instead of providing them as selective/alternatives
2011	more coding practice during the course.
	go through apart from routine book , must include famous writer as a part of your course to make more mental growth
2012	Problem solving, understanding product and business strategy, brainstorming techniques, making effective presentations, Intercultural communication, communication, creating reports, understanding and making conclusions from data.
	Include real life things and advanced things in lab as well as syllabus
	Need to come up more subjects on Renewable energy
	Machine Learning, Practical knowledge of Electrical and Electronics domain (such as Embedded, VLSI, Power Electronics, PLC/SCADA), and more industrial visits

	Concentrate more on practical things
	Emphasis on the development of programming skills including core technical skills.
2013	Soft skills and professional development
	AI/ IOT/ ML
	More practical exercises parallel with theory.
	1) Autosar introduction - Classic and Adaptive Platforms 2) Artifical Intelligence and Machine Learning Concepts so that they are ready to use its application is any field they enter. These topics are being applied in each and every domains
	Machine learning, Python coding and Public speaking soft skills
2014	one coding language
	teach coding and provide programming classes as optional courses
2015	Increase in practical knowledge/ hands on on trending technology.
	Artificial intelligence and Machine learning in Electrical domain
	Introducing courses related to modern technology to minimise technology gap between graduation and current trends
2019	Course name: Electrical Vehicle

Action Plan:

The suggestions given by various alumni were considered during curriculum revisions in subsequent years.

VII Semester Scheme

Course Code	Course Category	Course Title	Teaching		Examination				
					CIE	Theory (SEE)		Practical (SEE)	
			L-T-P (Hrs/Week)	Credits	Max. Marks	*Max. Marks	Duration in Hrs.	Max. Marks	Duration in Hrs.
18UEEC700	PC	Computer Applications to Power Systems	3-0-0	3	50	100	3	-	-
18UEEC701	PC	Electrical Machine Design	3-0-0	3	50	100	3	-	-
18UEEE74X	PE	Elective –IV	4-0-0	4	50	100	3	-	-
18UEEO703	OE	Open Elective-II	3-0-0	3	50	100	3	-	-
18UEEL704	PC	Relay, High Voltage & Power System Simulation Lab	0-0-3	2	50	-	-	50	3
18UEEL705	PC	Major Project-Phase I	0-0-6	2	50	-	-	50	3
18UEEL706	PC	Internship	0-0-6	2	50	-	-	-	-
		Total	**13-0-15**	**19**	**350**	**400**		**100**	

PC- Program Core, **PE**-Professional Elective and **OE**- Open Elective
*SEE for theory courses is conducted for 100 marks and reduced to 50 marks.

Electric Vehicles (**Open Elective-II)**	18UEEO703

Elective-IV	
AI Applications to Power System	18UEEE741
Modern Trends in Transmission System	18UEEE742
Modern Power System Protection	18UEEE743
Modern Power System Operation and Control	18UEEE744
Digital Image Processing	18UEEE745
Arm Processors	18UEEE746
Embedded Systems	18UEEE747

VI Semester Sheme

Course Code	Course Category	Course Title	Teaching		Examination				
					CIE	Theory (SEE)		Practical (SEE)	
			L-T-P (Hrs/Week)	Credits	Max. Marks	*Max. Marks	Duration in Hrs.	Max. Marks	Duration In Hrs.
18UEEC600	PC	Power System Analysis and Stability	4-0-0	4	50	100	3	-	-
18UEEC601	PC	High Voltage Engineering and Switchgear & Protection	4-0-0	4	50	100	3	-	-
8UEEE62X	PE	Elective -II	3-0-0	3	50	100	3	-	-
18UEEE63X	PE	Elective–III	3-0-0	3	50	100	3	-	-
18UEEO604	OE	Open-Elective-I	3-0-0	3	50	100	3		
18UEEL605	PC	Electrical Machines-II Lab	0-0-3	1.5	50	-	-	50	3
18UEEL606	PC	Sensors, Control systems and simulation Lab	0-0-3	1.5	50	-	-	50	3
18UEEL607	PC	Minor Project-II	0-0-6	2	50	-	-	50	3
18UEEL608	HU	Soft skills	0-0-3	1	50	-	-	-	-
		Total	**17-0-15**	**23**	**450**	**500**		**150**	

PC- Program Core, PE-Professional Elective and OE- Open Elective
*SEE for theory courses is conducted for 100 marks and reduced to 50 marks.

18UEEO604	Renewable Energy System (**Open Elective-I**)		
Electives - II		**Electives - III**	
18UEEE621	Computer Organization	18UEEE631	Electrical Estimation Specification Codes and Practices
18UEEE622	Computer Communication and Networking	18UEEE632	Nonlinear Control Theory

18UEEE623	PIC Microcontrollers	18UEEE633	Energy Auditing and Demand Side Management
18UEEE624	VLSI Circuits	18UEEE634	Testing and Commissioning of Electrical Equipment
18UEEE625	Software Engineering	18UEEE635	Electrical Drawing and CAD
18UEEE626	Digital Image Processing	18UEEE636	Operating System
18UEEE627	Database Management System	18UEEE637	PLC and SCADA
18UEEE628	Digital System Design using VHDL		---

Sample Feedback:

Department of Electrical and Electronics Engineering,
SDM College of Engineering and Technology, Dharwad
Alumni feedback format

Name: RAVISHEKHAR BANGER   Mobile No: 9902468463
Email id: ravibanger@gmail.com   Year of graduation: 2002

Please fill up the following details

1. Are you an employee / self-employed   (Tick the appropriate)

If you are an employee please provide the following details:

2. Name of the firm — TRUELARK

3. Type of the firm (Tick the appropriate)

Government	Private	Software	Other
		✓	

4. Your current position/ designation — PRINCIPAL ENGINEER

5. Your previous employment details (if any) in brief. — AMD, NETRADYNE.

6. Please specify the extent to which the program educational objectives* of the departments are met by you. (Tick the appropriate)

PEO	Substantial	Moderate	Slight	Can't say
i) To *impart* domain knowledge and soft skills to secure employment or to become entrepreneur or pursue higher education	✓			
ii) To *provide* training for teamwork, leadership qualities, lifelong learning and adaptability to achieve professional growth.		✓		
iii) To *develop* sense of positive attitude to contribute positively to the society as a responsible citizen		✓		

7. Do you like to suggest any specific contextually relevant technical content to be included in the curriculum as per the current trend? If YES please specify. — SIGNALS & SYSTEMS D.S.P.

8. Do you wish to address our students for their carrier guidance? If YES please specify your convenient time. — TENTATIVE.

9. How do you rate the growth of the department since your graduation if you are graduated at least 5 years back? (Tick the appropriate)

Excellent	Very good	Satisfactory	Needs improvement
✓			

Please feel free to write any specific observation/suggestion on the back side of this page for the further progress of the department :

* Program educational objectives specify the objectives of the department towards what the graduates should be at least five years after their graduation.
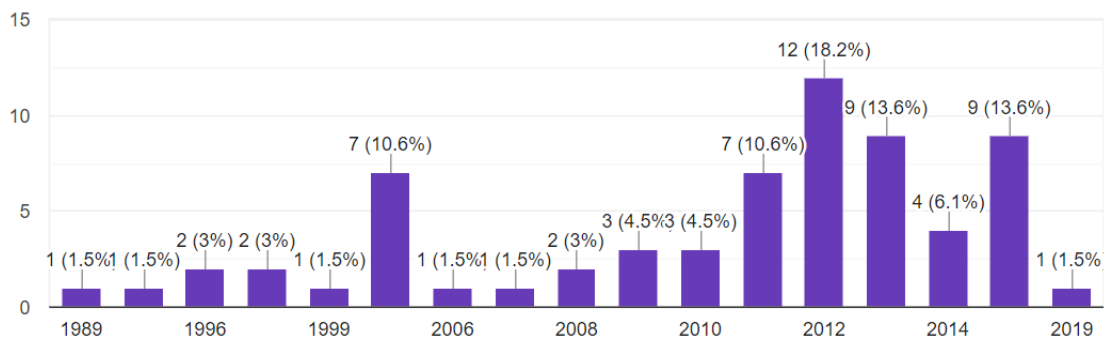
S. Cankalki.

Head of the Department
of Electrical & Electronics Engineering,
S.D.M. College of Engg & Technology
Dhavalagiri, DHARWAD-580 002

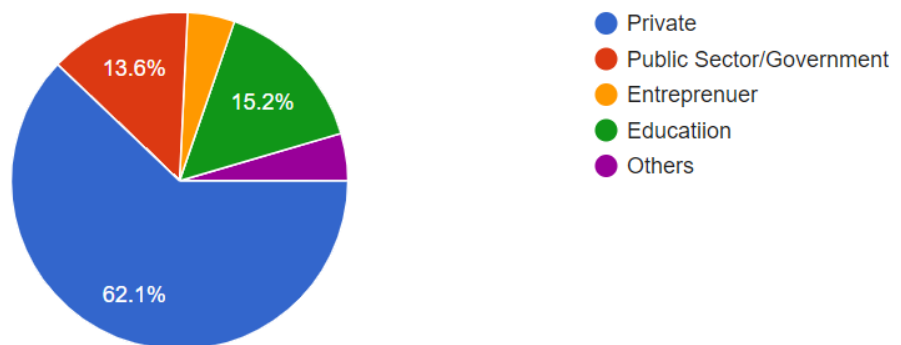## Summary of Alumni Feedback:

### Year of graduation

66 responses

Present work type

66 responses

- Private
- Public Sector/Government
- Entreprenuer
- Educatiion
- Others

Private 62.1%
Public Sector/Government 13.6%
Educatiion 15.2%

Please specify the extents to which the following program educational objectives* of the department are met by you

### To impart the domain knowledge and soft skills to secure employment or become entrepreneur or pursue higher studies.

66 responses
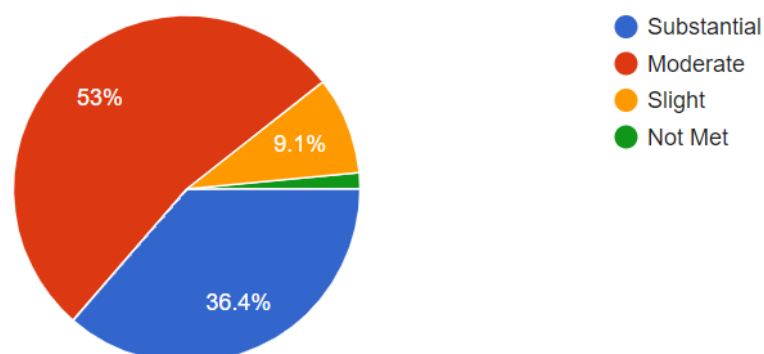
- Substantial
- Moderate
- Slight
- Not Met

Moderate 53%
Slight 9.1%
Substantial 36.4%

To provide training for teamwork, leadership qualities, lifelong learning and adaptability to achieve professional growth.

66 responses

- Substantial
- Moderate
- Slight
- Option 4

45.5%
9.1%
42.4%
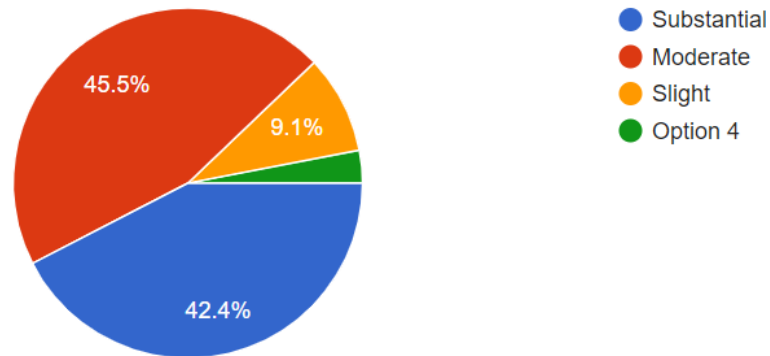
To develop sense of positive attitude and practice ethics to contribute positively to the society as a responsible citizen.

66 responses
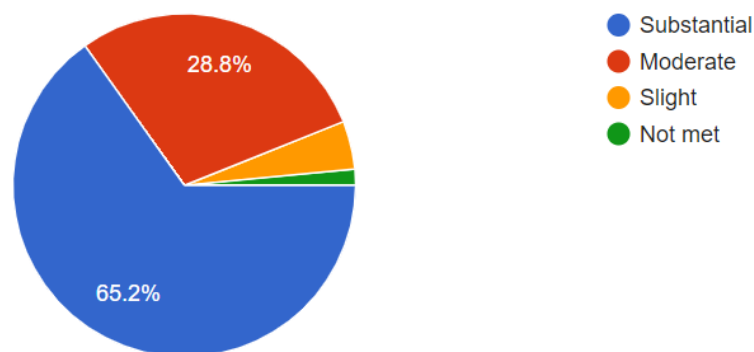
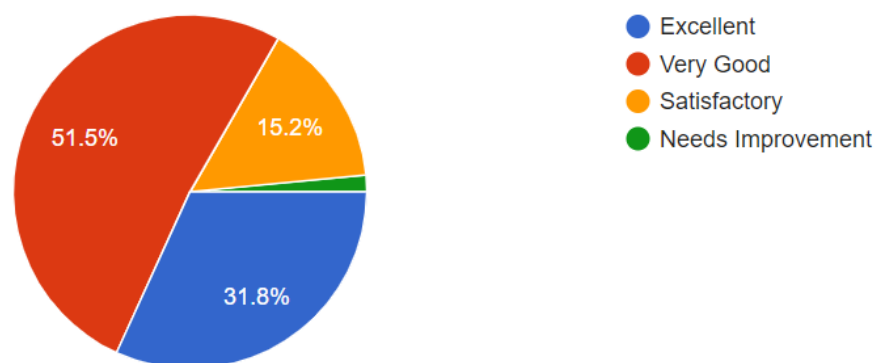- Substantial
- Moderate
- Slight
- Not met

28.8%
65.2%

Do you like to suggest any specific contextually relevant technical content to be included in the curriculum as per the current trend? if YES please specify.

- More practical exercises parallel with theory.
- Autosar introduction - Classic and Adaptive Platforms 2) Artifical Intelligence and Machine Learning Concepts so that they are ready to use its application is any field they enter. These topics are being applied in each and every domains
- In today's environment, disruption is the norm across all sectors. This is primarily due to changing behaviour, thinking and adaptability of all of the stakeholders involved. Such practices for innovation, ideation and to think out of the box - should be encouraged more and more
- IoT/ smart grid
- Artificial Intelligence (AI) and Machine Learning
- Smart grid, SCADA, curriculum to be updated as per industrial demand.

- Latest Trends and the Technologies should be included, current curriculum needs to be updated based on market and industrial trends
- Machine learning, Python coding and Public speaking soft skills
- go through apart from routine book , must include famous writer as a part of your course to make more mental growth
- Industrial Automation, AI. Robotics, IoT
- Concentrate more on practical things
- Emphasis on the development of programming skills including core technical skills.
- Problem solving, understanding product and business strategy, brainstorming techniques, making effective presentations, Intercultural communication, communication, creating reports, understanding and making conclusions from data.
- Required more exposure to on site Practical experience
- Need to come up more subjects on Renewable energy
- Increase in practical knowledge/ hands on trending technology.
- More coding practice during the course.
- teach coding and provide programming classes as optional courses
- Artificial intelligence and Machine learning in Electrical domain
- Course name: Electrical Vehicle
- Include real life things and advanced things in lab as well as syllabus
- Introducing courses related to modern technology to minimise technology gap between graduation and current trends
- Soft skills and professional development
- AI/ IOT/ ML
- Machine Learning, Practical knowledge of Electrical and Electronics domain (such as Embedded, VLSI, Power Electronics, PLC/SCADA), and more industrial visits
- I think even though people enrol themselves into EEE, some programming knowledge subjects should be made mandatory instead of providing them as selective/alternatives
- More practical expose to subject matters and electrical equipment so that along with theory students should know the actual equipment in hand will be added advantage . Like completely open transformer, circuit breakers, motors windings etc.

How do you rate the growth of the department since your graduation?

66 responses

Legend:
- Excellent
- Very Good
- Satisfactory
- Needs Improvement

Pie chart values: 51.5%, 15.2%, 31.8%

Any specific observation/ suggestion for the further growth of the department

- Working on application topics on a higher level along with concepts

- Create a better interactive, collaborative platform for the students, department and alumni to engage together. This is absent at the moment, thereby students not able to reach out to industry experts.
- Please encourage students to improve their communication skills by joining the inhouse SDMCET Toastmasters Club which will help them in interviews, confidence,leadership and overall skills & employability.Please contact DR V.Parvati Sir for more information about SDMCET Toastmasters club
- New opportunities in industry like IoT, Industrial Automation, Robotics topics need to be briefed to with application examples to students.
- Concentrate more on what industry is looking for, updation of technology for the student is very much important
- Inclusion of topics based on current trends in industries.
- I am not connected communication wise enough to comment on this.
- More concentration on innovation and technology to be done. Special learning hours on trending technology can be incorporated which will help to meet market demands.
- coding skill development (both asm and c)
- Please adopt IES syllabus which will cover everything for all competitive exams and even in technical interviews in campus selection. And please dont teach students to score more in exams instead understand them concepts which results in more scoring and get selection at the interviews
- Real time Projects, Case studies, Analysis of Power systems to be given more importance for Final year projects.
- Students need to be given more hands on experience and workshops on currents trends in industry .more focus on skill development
- Collaboration with other Depts. and getting new technical topics being made available for students
- Investment of students time in practicals more rather than theory will be very usefull for their growth and also department.