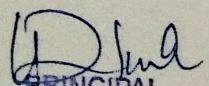


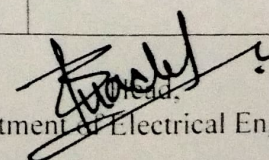
### Consolidated Report on Syllabus modification

Feedback was taken from the stakeholder such as students, teacher, alumni, employers and suggestion on updating of curriculum of TE(Electrical) 2015 pattern in to TE(Electrical) 2019 pattern w.e.f. 2021-22 is mentioned below for convening it to SPPU, Pune an affiliated University.

Sr. No.	Course Name	Topic/Subject to be added with reason	Topic/Subject to be omitted with reason
1.	Industrial and Technology Management	No addition required	Nil
2.	Advance Microcontroller and its Applications	There should be addition of some serial communication protocol as SPI and MODBUS and Basics of IOT	No need of C concept in this subject because it is in FMA subject.
3.	Electrical Machine II	No addition required	Nil
4.	Power Electronics	Application of speed control of 3 phase Induction motor should be added.	Nil
5.	Electrical Installation, maintenance and Testing	Arrangement of some topics or Unit Sequence should be modify before Design Process. Need to merge some topics	Nil
6.	Seminar & Technical Communication	Need to give more information about seminar report & its content	Nil
7.	Power System II	No addition required	Nil
8.	Control System I	Need to add basics digital control System	No need of Non linear system & compensator design because we are replacing analog system to digital system
9.	Utilization of Electrical Energy	No addition required	Nil
10.	Design of Electrical Machine	All design sheet should draw in CAD or Eplanner Software	Nil
11.	Energy Audit & management	No addition required	Nil
12.	Electrical Workshop	No addition required	Nil
13.	Audit Course	Addition of any one Foreign Language	Nil



  
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 Ahmednagar

  
 Department of Electrical Engineering.



॥ नहि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥

PADMASHREE DR. VITHALRAO VIKHE PATIL FOUNDATION'S

**PADMASHREE DR. VITHALRAO VIKHE PATIL  
COLLEGE OF ENGINEERING**

Vadgaon Gupta, Vilad Ghat, Post.- M.I.D.C., Ahmednagar - 414 111. (M.S.) INDIA.

Approved by A.I.C.T.E., New Delhi & Govt. of Maharashtra

Affiliated to Savitribai Phule Pune University (Formerly University of Pune) (ID.No. Pu/AN/Engg./027/1983)

Estt. 1982

Phone : 0241 - 2777296/2779496

Fax : 0241-2777533

Email : prin\_coea@yahoo.com

Website : <http://www.enggnagar.com>

*The National Board of Accreditation (NBA), New Delhi has been accredited U.G. Courses in Civil, Mechanical, Electronics & Telecommunication and Instrumentation & Control Engineering*

Ref: IT/Academic/2018-19/ 226

Date: 13/06/2018

To,  
Dr. B. E. Kushare,  
BOS Member,  
Electrical Engineering,  
Savitribai Phule Pune University,  
Pune- 411007.

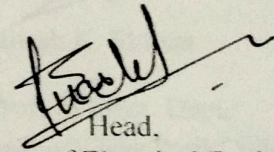
Subject: Suggestions for up gradation of TE(Electrical) 2019 Pattern Syllabus.

Respected Sir,

With reference to the above cited subject, currently we are referring TE(Electrical) 2015 pattern syllabus. For up gradation of TE 2015 pattern syllabus, we have taken curriculum feedback from our students, Alumni, Teachers and Employer.

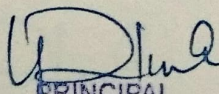
We have analyzed all the feedback and prepared the summery of the same. The detail report is attached herewith for your kind information and necessary action for the up gradation of TE(Electrical) 2019 pattern syllabus.

Thank You.



Head,  
Department of Electrical Engineering.



  
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Ahmednagar



Ref.COE/2019/ 238

Date: 13/06/18

To,  
Dr. B. E. Kushare,  
Member Board of Study (BOS)  
Savitribai Phule Pune University, Pune.

Subject: **Modification required in Proposed Advance Microcontroller & its Application syllabus of TE (Electrical) 2019 Pattern.**

Respected Sir/Madam,

With reference to above subject, Syllabus of Advance Microcontroller & its Application needs some changes like Embedded C concept is given but, this is already mention in Subject Fundamental of Microcontroller & its Application. So, need to omit this part from the syllabus.

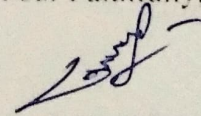
Also, need to add GSM or IOT concept related to Electrical Engineering. It is need to make a separate unit for same so that it should be elaborated properly.

And finally, my suggestion is to make separate subject like IOT & its Application so that some advance topic will be added in it.

Hope these points may be implemented in proposed Advanced Microcontroller & its Applications TE(Electrical) 2019 Pattern syllabus.

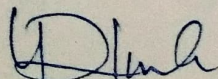
Thank You,

Your Faithfully,



Prof. Ganesh K. Shirsat

Asstt. Prof. In Elect. Dept,  
Dr. Vithalrao Vikhe Patil College of  
Engineering, Ahmednagar



PRINCIPAL  
Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

Date:



Date:20/06/18

To,  
Prof. Ganesh K Shirsat  
Asstt. Prof. In Elect. Dept.  
Dr. V.V.P. COEA.

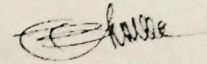
Dear Sir,

Received your letter regarding modification required in proposed subject Advanced Microcontroller & its.

Thank you for giving the inputs of Advanced Microcontroller & its subject. Definitely we will try to implement in upcoming syllabus revision. Meanwhile you can communicate with subject chairman Prof. P. P. Mahajan regarding modification required in the syllabus.

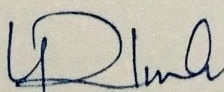
Thank you,

Yours Faithfully,



Dr. B. E. Kushare,  
Member Board of Study(BOS)  
Savitribai Phule Pune University,Pune



  
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College of Engineering  
Ahmednagar



Savitribai Phule Pune University  
FACULTY OF ENGINEERING  
T.E. Electrical Engineering (2015 Course)  
(w.e.f. 2017-2018)

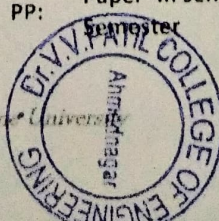
(w.e.f. 2017-2018)

SEMESTER-I													
Sr. No	Subject Code	Subject Title	Teaching Scheme			Examination Scheme					Total Marks	Credit	
			Th	Pr.	Tu.	PP		TW	PR	OR		TH/ TU	PR+OR
						In Sem	End Sem						
1	311121	<u>Industrial and Technology Management</u>	03	--	--	30	70	--	--	--	100	03	--
2	303141	<u>Advance Microcontroller and its Applications</u>	04	02	--	30	70	--	--	50	150	04	01
3	303142	<u>Electrical Machines II</u>	04	02	--	30	70	--	50	--	150	04	01
4	303143	<u>Power Electronics</u>	04	02	--	30	70	--	50	--	150	04	01
5	303144	<u>Electrical Installation, Maintenance and Testing</u>	03	02	--	30	70	50	--	--	150	03	01
6	303145	<u>Seminar and Technical Communication</u>	--	02	--	--	--	50	--	--	50	--	01
	303152	<u>Audit Course III</u>											
TOTAL			18	10	--	150	350	100	100	50	750	18	05

SEMESTER-II													
Sr. No.	Subject Code	Subject Title	Teaching Scheme			Examination Scheme					Total Marks	Credit	
			Th.	Pr.	Tu	PP		TW	PR	OR		TH/ TU	PR+OR
						In Sem	End Sem						
1.	303146	<u>Power System II</u>	04	02	--	30	70	--	50	--	150	04	01
2.	303147	<u>Control System I</u>	04	02	--	30	70	-	--	50	150	04	01
3.	303148	<u>Utilization of Electrical Energy</u>	03	--	--	30	70	--	--	--	100	03	--
4.	303149	<u>Design of Electrical Machines</u>	04	02	--	30	70	25	--	50	175	04	01
5.	303150	<u>Energy Audit and Management</u>	03	02	--	30	70	25	--	--	125	03	01
6.	303151	<u>Electrical Workshop</u>	--	02	--	--	--	50	--	--	50	--	01
	303153	<u>Audit Course IV</u>											
Total			18	10	--	150	350	100	50	100	750	18	05

Th: Theory lectures hours/week  
Pr: Practical hours/week  
Tu: Tutorial hours/week

TW: Term work  
PR: Theory  
OR: Oral  
PP: Paper- In semester and End Semester



*[Signature]*  
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**Savitribai Phule Pune University, Pune**  
**Syllabus: Third Year (TE) Electrical Engineering (2019 course)**  
**(w.e.f 2021-22)**

**SEMESTER-I**

Course code	Course Name	Teaching Scheme				Examination Scheme						Credit				
		Th	Pr	Tu	SEM /PW /IN	ISE	ESE	TW	PR	OR	Total	Th	Pr	Tu	SEM /PW /IN	Total
303141	Industrial and Technology Management	3	0	0	0	30	70	0	0	0	100	3	0	0	0	3
303142	Power Electronics	3	4#	0	0	30	70	0	50	0	150	3	2	0	0	5
303143	Electrical Machines-II	3	2	0	0	30	70	25	25	0	150	3	1	0	0	4
303144	Electrical Installation Design and Condition Based Maintenance	3	4#	0	0	30	70	25	0	25	150	3	2	0	0	5
303145	Elective-I	3	0	0	0	30	70	0	0	0	100	3	0	0	0	3
303146	Seminar	0	0	0	1	0	0	50	0	0	50	0	0	0	1	1
303147	Audit course-V	2*	0	0	0	0	0	0	0	0	0	GRADE: PP/NP				0
<b>Total</b>		<b>15</b>	<b>10</b>	<b>0</b>	<b>1</b>	<b>150</b>	<b>350</b>	<b>100</b>	<b>75</b>	<b>25</b>	<b>700</b>	<b>15</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>21</b>

**303145: Elective-I**

**303147 : Audit Course-V**

303145A : Advanced Microcontroller and Embedded System

303147A : Energy storage systems

303145B : Digital Signal Processing

303147B : Start-up & Disruptive innovation

303145C : Open Elective

**SEMESTER-II**

Course code	Course Name	Teaching Scheme				Examination Scheme						Credit				
		Th	Pr	Tu	SEM /PW /IN	ISE	ESE	TW	PR	OR	Total	Th	Pr	Tu	SEM /PW /IN	Total
303148	Power System-II	3	2	1	0	30	70	25	50	0	175	3	1	1	0	5
303149	Computer Aided Design of Electrical Machines	3	4#	0	0	30	70	50	0	25	175	3	2	0	0	5
303150	Control System Engineering	3	2\$	1\$	0	30	70	25	0	25	150	3	1	0	0	4
303151	Elective-II	3	0	0	0	30	70	0	0	0	100	3	0	0	0	3
303152	Internship	0	0	0	4	0	0	100	0	0	100	0	0	0	4	4
303153	Audit Course VI	2*	0	0	0	0	0	0	0	0	0	GRADE: PP/NP				0
<b>Total</b>		<b>12</b>	<b>8</b>	<b>2</b>	<b>4</b>	<b>120</b>	<b>280</b>	<b>200</b>	<b>50</b>	<b>50</b>	<b>700</b>	<b>12</b>	<b>4</b>	<b>1</b>	<b>4</b>	<b>21</b>

**303151: Elective-II**

**303153 : Audit Course-VI**

303151A : IoT and its Applications in Electrical Engineering

303153A: Ethical Practices for Engineers

303151B : Electrical Mobility

303153B : Project Management

303151C: Cybernetic Engineering

303151D: Energy Management

#Practical consists of Part A & part B. PART A; Regular experiments & part B; to bridge the gap between theory & actual industrial practices. For subject 303144; there will be auto cad drawing on Electrical installation, Electrical wiring, cabling etc. For 303149, Part A, Regular drawing by hand & part B same drawing by AutoCAD.

\$ tutorial credit merged with Practical.

\* Conduct over and above these lectures.



*(Signature)*  
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Department of Civil Engineering**

**Student Feedback On Curriculum for 2015 Pattern**

**Name of the Student:** Visbhavar Sutgaj P.

**Academic Year:** 2017-18

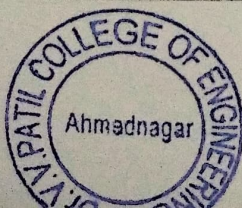
**Course :** Electrical Engg.

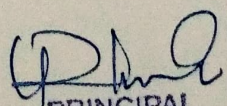
**Year:** SE/TE/BE

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, learning and evaluation. The information provided by you will be used as important feedback for quality improvement of the program of studies/institution. For each item please indicate your level of satisfaction with the following statement by choosing between 1 and 3.

Good (3)		Average (2)		Poor (1)	
Sr. NO.	Statements	3	2	1	
1	How do you rate syllabus of the courses that you have studied in relation to the competencies expected out of the course?	✓			
2	How do you rate the relevance of the units in Syllabus relevant to the course?	✓			
3	How do you rate the allocation of the credits to the courses?		✓		
4	How do you rate the offering of the electives in terms of their relevance to the specialization streams?	✓			
5	How do you rate the electives offered in relation to the Technological advancements?	✓			
6	Rate the Size of syllabus	✓			
7	Rate the courses in terms of extra learning or self-learning considering the design of the courses	✓			
8	How do you rate the evaluation scheme designed for each of the course?	✓			
9	How do you rate the objectives stated for each of the course?	✓			
10	How do you rate the percentage of courses having LAB components?	✓			

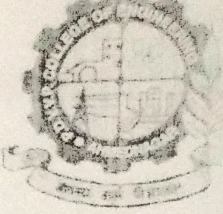
**Suggestions if any:** Add some foreign language.



  
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Ahmednagar  
Department of Civil Engineering**



**Student Feedback On Curriculum for 2015 Pattern**

**Name of the Student:** Gawali Gonesh D. **Academic Year:** 2017-18

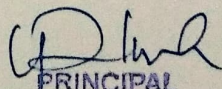
**Course :** Electrical Engineering

**Year:** SE/TE/BE ✓

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, learning and evaluation. The information provided by you will be used as important feedback for quality improvement of the program of studies/institution. For each item please indicate your level of satisfaction with the following statement by choosing between 1 and 3.

Sr. NO.	Statements	Good (3)      Average (2)      Poor (1)		
		3	2	1
1	How do you rate syllabus of the courses that you have studied in relation to the competencies expected out of the course?	✓		
2	How do you rate the relevance of the units in Syllabus relevant to the course?	✓		
3	How do you rate the allocation of the credits to the courses?	✓		
4	How do you rate the offering of the electives in terms of their relevance to the specialization streams?		✓	
5	How do you rate the electives offered in relation to the Technological advancements?	✓		
6	Rate the Size of syllabus		✓	
7	Rate the courses in terms of extra learning or self-learning considering the design of the courses	✓		
8	How do you rate the evaluation scheme designed for each of the course?	✓		
9	How do you rate the objectives stated for each of the course?	✓		
10	How do you rate the percentage of courses having LAB components?	✓		
Suggestions if any:		Need to introduce some advance technology		



  
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### Alumni Feedback on Curriculum for 2015 Pattern

The purpose of this feedback is to obtain alumni input on the quality of education they received and the level of preparation they had at the college and to assess the quality of the academic program. This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, teaching, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution. Directions: A score for each item Between 1 and 4 as: (A)Excellent-4,(B)Good-3(C)Average-2(D)Poor-1 Please indicate your level of satisfaction with the following statement by choosing between 1 and 4

*Jadhav Rutuja, S.*

Sr. NO.	Question / Paramete	Excellent (4)	Good (3)	Average (2)			Poor (1)
		4	3	2	1		
1	How would you rate the curriculum prescribed for your degree during your term in the college ?	✓					
2	How would you rate the quality of education imparted in the college?		✓				
3	How would you rate the course content delivery ?	✓					
4	How would you rate the course curriculum for fulfilling your expectations?	✓					
5	How do you rate the academic initiatives taken by the college to bridge the gap between industry & academia	✓					
6	How would you rate any new skills learnt in the due course of your study (Other than syllabus)		✓				
7	How do you rate the relevance of your degree to your present job?	✓					
8	How would you rate the following academic initiatives taken by the college to improve your competence as student? Innovative Teaching-Learning methodologies, Seminars, Workshops, Projects, Study Tours, etc.	✓					
9	How do you rate development activities organized by the college for your overall development?		✓				
10	How would you rate the motivation created by the syllabus to pursue post graduation / research in the particular topic?	✓					



*[Signature]*  
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**Dr. Vithalrao Vikhe Patil College of Engineering,  
Ahmednagar  
Department of Civil Engineering**



**Alumni Feedback on Curriculum for 2015 Pattern**

The purpose of this feedback is to obtain alumni input on the quality of education they received and the level of preparation they had at the college and to assess the quality of the academic program. This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, teaching, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution. Directions: A score for each item Between 1 and 4 as: (A)Excellent-4,(B)Good-3(C)Average-2(D)Poor-1 Please indicate your level of satisfaction with the following statement by choosing between 1 and 4

*Karade Gooesh.*

Sr. NO.	Question / Paramete	Excellent (4)      Good (3)      Average (2)      Poor (1)			
		4	3	2	1
1	How would you rate the curriculum prescribed for your degree during your term in the college ?	✓			
2	How would you rate the quality of education imparted in the college?	✓			
3	How would you rate the course content delivery ?		✓		
4	How would you rate the course curriculum for fulfilling your expectations?	✓			
5	How do you rate the academic initiatives taken by the college to bridge the gap between industry & academia		✓		
6	How would you rate any new skills learnt in the due course of your study (Other than syllabus)	✓			
7	How do you rate the relevance of your degree to your present job?		✓		
8	How would you rate the following academic initiatives taken by the college to improve your competence as student? Innovative Teaching-Learning methodologies, Seminars, Workshops, Projects, Study Tours, etc.	✓			
9	How do you rate development activities organized by the college for your overall development?	✓			
10	How would you rate the motivation created by the syllabus to pursue post graduation / research in the particular topic?		✓		



*[Signature]*  
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Department of Civil Engineering**



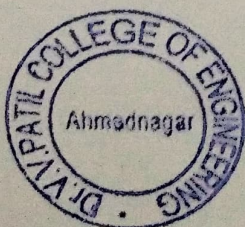
**Teacher Feedback On Curriculum for 2015 Pattern**

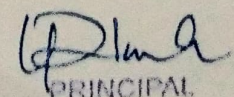
Academic year: 2017-18 Faculty: M. H. Nekar Department: Electrical

Name of the Teacher : Prof. M. H. Nekar

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, teaching, learning and evaluation.

Sr. NO.	Statements	Average (2)			Poor (1)
		4	3	2	
1	Aim and objectives of syllabi are well defined and clear to the teacher and students		✓		
2	Syllabus is synchronized with current trend content and carrier orientation	✓			
3	The depth of the course content is adequate to have significant learning outcomes		✓		
4	Sufficient number of prescribed books on the syllabi are available in the library	✓			
5	Sufficient reference material and related books and other resources are available for the topics mentioned in the syllabus in the library		✓		
6	The pre-requisite courses are appropriate for this course.				
7	The students attain the POs, COs and PSOs satisfactorily	✓			
8	There is an ample scope to adopt new techniques of teaching such as seminar, presentations, group discussions, projects, etc.		✓		
9	The course/syllabus has a good balance between theory and Laboratory-work		✓		
10	The course/syllabus of this subject has increased my knowledge and perspective in the subject area.		✓		
Suggestions if any: <u>Add advancement in design using state space technique.</u>					



  
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Department of Civil Engineering**

**Teacher Feedback On Curriculum for 2015 Pattern**

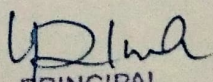
Academic year: 2017-18 Faculty: S.K. Awaze Department: Electrical

Name of the Teacher: Prof. S.K. AWAZE

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, teaching, learning and evaluation.

Sr. NO.	Statements	Average (2)			Poor (1)
		4	3	2	1
1	Aim and objectives of syllabi are well defined and clear to the teacher and students	✓			
2	Syllabus is synchronized with current trend content and carrier orientation		✓		
3	The depth of the course content is adequate to have significant learning outcomes	✓			
4	Sufficient number of prescribed books on the syllabi are available in the library	✓			
5	Sufficient reference material and related books and other resources are available for the topics mentioned in the syllabus in the library		✓	✓	
6	The pre-requisite courses are appropriate for this course.			✓	
7	The students attain the POs, COs and PSOs satisfactorily	✓			
8	There is an ample scope to adopt new techniques of teaching such as seminar, presentations, group discussions, projects, etc.		✓		
9	The course/syllabus has a good balance between theory and Laboratory-work		✓		
10	The course/syllabus of this subject has increased my knowledge and perspective in the subject area.		✓		
Suggestions if any: <u>Topic like, surge impedance loading should be added.</u>					



  
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Ahmednagar



## Employer Feedback on Curriculum

Name of the Employer: Kanawade Tanaji. Y. Designation: owner.

Name of the Organization: Avishka Instrumentation.

Email: Avishka2004@yahoo.co.in.

Mobile: 9822558591

Address: moraya mangal karyalay, pipeline Road, savedi, Ahmednagar

(Please mark (✓) in the relevant boxes)

A – Very Good, B - Good , C - Need Improvement

Sr. NO.	Question / Paramete	A	B	C
1	How do you rate relevance of the courses in relation to the program?	✓		
2	How do you rate the sufficiency of the courses related to industry that are included in the program?	✓		
3	How do you rate the competencies/outcomes in relation to the course content?		✓	
4	How do you rate the relevance of the topics to the Industry?	✓		
5	Rate the offering of the in relation to the specialization streams?		✓	
6	How do you rate the applicability of the domains and the tools used for designing the experiments in terms of existing practices in the Industry?		✓	
7	How do you rate the experiments in terms of their relevance to the real life application?	✓		
8	How do you rate the proficiency of our students working with you?		✓	
9	What other courses that you suggest to be included in the curriculum.		✓	
10	The present curriculum is as per the needs of the industry	✓		
Suggestions if any:				



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