Circulars

Estd. 1962
NAAC 'A' Grade
MHRD-NIRF- 28th Rank

SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA
PHONE : EPABX-2609000 website- www.unishivaji.ac.in
FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094
शिवाजी विद्यापीठ, कोल्हापूर – 416004.
दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग– २६०९०९४)
फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Sci. & Tech/7400 **Date: 21/07/2018**

To,

The Principal/ Director,
All affiliated Engineering Colleges/ Institute,
Shivaji University, Kolhapur.

Subject : Regarding Guidelines, structure, of CBCS B. Tech. Program and syllabus of First Year B. Tech. Program under Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University Authorities have accepted and granted approval to Guidelines, structure of CBCS B. Tech. Program and syllabus of First Year B. Tech. Program to following branches under Faculty of Science and Technology:

B. Tech. Programme (Branch)

1.	Civil Engineering & Technology
2.	Mechanical Engineering & Technology
3.	Production Engineering & Technology
4.	Automobile Engineering & Technology
5.	Electrical Engineering & Technology
6.	Chemcial Engineering & Technology
7.	Electronics Engineering & Technology
8.	Electronics and Telecommunication Engineering & Technology
9.	Biotechnology Engineering & Technology
10.	Information Technology Engineering & Technology
11.	Environmental Engineering & Technology
12.	Computer Science Engineering & Technology

The revised syllabi shall be implemented from the academic year 2018-19 (i.e. from July 2018) onwards. A soft copy containing CBCS Guidelines, structure, and syllabus of First Year B. Tech. is enclosed herewith. The syllabus is also made available on university website www.unishivaji.ac.in.

Further, it is hereby informed that the question papers on the pre-revised syllabi shall be set for the examination to be held in October/November 2018 and April/May 2019. These chances are available for repeater students, if any.

You are therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy. Registrar

Encl-: as above.

Copy to-

1) I/c Dean, Faculty of Science & Technology
2) Director, Examination and Evaluation
3) The Chairman, respective BOS / Co-ordinating Committee

} For information

4) O.E. 4 Section
5) Appointment Section
6) Eligibility Section
7) Meeting Section

} For information & necessary action .

Dr. Ashok Gujar Technical Institute's Dr Daulatrao Aher College of Engineering, Karad
Banawadi Karad

d:\01-01-2018\cng letter 2018.doc

Principal
Dr. Ashok Gujar Technical Institute's
Dr Daulatrao Aher College of Engineering, Karad

Estd. 1962
NAAC 'A' Grade
MHRD-NIRF- 28th Rank

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दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग– २६०९०९४)
फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Sci. & Tech/6497 **Date: 26/06/2019**

To,

The Principal/ Director,
All affiliated Engineering Colleges/ Institute,
Shivaji University, Kolhapur.

Subject : Regarding Syllabi and equivalence of CBCS Second Year B.Tech. Part - II (Sem III & IV) Program under Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University Authorities have accepted and granted approval to structure and Syllabus of CBCS Second Year B.Tech. Part - II (semIII & IV) syllabi and equivalence under the Faculty of Science & Technology.

B. Tech. Programme (Branch)

1.	Civil Engineering & Technology
2.	Mechanical Engineering & Technology
3.	Electrical Engineering & Technology
4.	Chemcial Engineering & Technology
5.	Electronics Engineering & Technology
6.	Electronics and Telecommunication Engineering & Technology
7.	Computer Science Engineering & Technology
8.	Information Technology Engineering & Technology
9.	Mathematics

This syllabus and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June 2019) onwards.A soft copy containing syllabus is attached herewith and it is available on university website www.unishivaji.ac.in.

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2019 & March/April 2020. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dr. Ashok Gujar Technical Institute's Banawadi Karad

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

Dy. Registrar

Copy to:

1	The I/c Dean and Associal Dean, Faculty of Science & Technology	7	Computer Centre
2	The Chairman, Respective Board of Studies	8	Affiliation Section (T.1)
3	Director, Examination and Evaluation	9	Affiliation Section (T.2)
4	Eligibility Section	10	P.G.Admission Section
5	O.E. – 4	11	P.G Seminar Section

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फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Sci. & Tech/

Date: 16/07/2020

16 JUL 2020
No 1831

To,

The Principal/ Director,
All affiliated Engineering Colleges/ Institute,
Shivaji University, Kolhapur.

Subject : Regarding Syllabi and Equivalence of CBCS Third Year B.Tech. Part - III (Sem V & VI) Dgree Program under Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to structure and Syllabus of CBCS Third Year B.Tech. Part - III (sem V & VI) under the Faculty of Science & Technology.

B. Tech. Programme (Branch)

1.	Civil Engineering & Technology
2.	Mechanical Engineering & Technology …..
3.	Electrical Engineering & Technology
4.	Chemcial Engineering & Technology
5.	Electronics Engineering & Technology
6.	Electronics and Telecommunication Engineering & Technology
7.	Computer Science Engineering & Technology
8.	Information Technology Engineering & Technology
9	Producation

This syllabus and equivalence shall be implemented from the academic year 2020-2021 onwards. A soft copy containing syllabus is attached herewith and it is available on university website www.unishivaji.ac.in.

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2020 & March/April 2021. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Dr. Ashok Gujar Technical Institute Banawadi Karad Dr. Daulatrao Aher College of Engineering, Karad

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

Yours faithfully,

Dy. Registrar

Copy to:

1	The I/c Dean, Faculty of Science & Technology	7	Computer Centre
2	The Chairman, Respective Board of Studies	8	Affiliation Section (T.1) T.2
3	Director, Examination and Evaluation	9	Dy.Registrar Exam
4	Eligibility Section	10	P.G.Admission Section
5	O.E. – 4	11	P.G Seminar Section

Estd. 1962
NAAC 'A' Grade
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SU/BOS/Sci. & Tech/ No 0 0 3 5 8 **Date: 15/09/2021**

17 SEP 2021

To,

The Principal/ Director,
All affiliated Engineering Colleges/ Institute,
Shivaji University, Kolhapur.

Subject : Regarding revised Syllabus and equivalence of CBCS Final Year B.Tech. Part-IV Sem-VII-VIII Program under Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University Authorities have accepted and granted approval to structure and Syllabus of CBCS Final Year B.Tech. Part-IV Sem-VII-VIII under the Faculty of Science & Technology.

B. Tech. Programme (Branch)

1.	Civil Engineering & Technology
2.	Mechanical Engineering & Technology .....
3.	Electrical Engineering & Technology
4.	Chemcial Engineering & Technology
5.	Electronics Engineering & Technology
6.	Electronics and Telecommunication Engineering & Technology
7.	Computer Science Engineering & Technology
8.	Information Technology Engineering & Technology
9	Producation

This revised syllabus and equivalence shall be implemented with effect from the academic year 2021-2022 (i.e. from June 2021) onwards.A soft copy containing syllabus is attached herewith and it is available on university website www.unishivaji.ac.in.

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2021 & March/April 2022. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dr. Daulatrao Aher College of Engineering, Karad

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

Dy. Registrar

Copy to:

1	The I/c Dean, Faculty of Science & Technology	7	Computer Centre
2	The Chairman, Respective Board of Studies	8	Affiliation Section (T.1)
3	Director, Examination and Evaluation	9	Affiliation Section (T.2)
4	Eligibility Section	10	P.G.Admission Section
5	O.E. – 4	11	P.G Seminar Section

Elective

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Ref.No. SU/BOS/Sci & Tech/ No 0881 **Date: 29/10/2020**

29 OCT 2020

To,

The Principal,
All affiliated Engineering College,
Shivaji University,
Kolhapur.

Subject:-Regarding minor changes in syllabus open Elective papers of Third Year B. Tech. (Sem V & VI) Program under Faculty of Science & Technology.

Ref.:- SU/BOS/Sci & Tech/1831 dt. 16/07/2020

Sir/Madam,

With reference to subject mentioned above, I am directed to inform you that University Authorities has accepted and granted approval to the minor changes in syllabus open Elective papers of Third Year B. Tech. (Sem V & VI) under Faculty of Science & Technology.

The corrected syllabus will be implemented from the academic year 2020-2021 (i.e. from July 2020) onwards. The corrected syllabus soft copy is enclosed herewith and as well as it is also made available on website www.unishivaji.ac.in (Online syllabus)

You are therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad Banawadi Karad

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

Deputy Registrar

Encl:- As above
Copy to:

1	The Dean, Faculty of Science & Technology	7	Computer Centre
2	The Chairman, Respective Board of Studies	8	Affiliation Section (T.1)
3	Director, Examination and Evaluation	9	Affiliation Section (T.2)
4	Eligibility Section	10	P.G.Admission Section
5	O.E. – 4	11	P.G Seminar Section
6	Appointment Section	12	Meeting Section

Semester VII

Sr. No.	Code No.	Subject	Semester	Credits
1	PCC-ETC701	Satellite Communication	7	4
2	PCC-ETC702	Embedded Systems	7	5
3	PCC-ETC703	Computer Networks	7	5
4	PCC-ETC704	Image Processing	7	5
5	PCE-ETC701	Elective-I	7	4
6	PW-ETC701	Project Phase-I	7	2
Total				**25**

Semester VIII

Sr. No.	Code No.	Subject	Semester	Credits
1	PCC-ETC801	Microwave Engineering	8	5
2	PCC-ETC802	Wireless Communication	8	5
3	PCC-ETC803	Video Engineering	8	5
4	PCE-ETC801	Elective-II	8	4
5	PW-ETC801	Project Phase-II	8	6
Total				**25**

Elective-I	Elective-II
Speech Processing	High Performance Communication Network
Radar and Navigation	Advance Network Security
Java Script	Electrical Automobiles
Information Theory And Coding Techniques	Big Data Analytics

***For Theory CIE 30 Marks,**

Two tests of 30 marks at college should be conducted and best of two marks should be communicated to university.

***Guidelines to paper setter:**

In theory ESE examination of 70 marks following pointes should be considered,

1. First question of 10 marks should be allotted to Objective type questions.
2. In Remaining 60 marks, four questions of 15 marks should be considered.

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Babasaheb Ambedkar College of Engineering, Karad

Semester V

Sr. No	Code No.	Subject	Semester	Credits
1.	PCC-ETC501	Signal and Systems	5	5
2.	PCC-ETC502	Electromagnetic Engineering	5	4
3.	PCC-ETC503	Digital and VLSI Design	5	5
4.	PCC-ETC504	Optical Communication	5	5
5.	OEC-ETC501	Open Elective – I	5	4
6.	PCC-ETC505	Simulation and Modeling	5	2
		Total		25

Semester VI

Sr. No	Code No.	Subject	Semester	Credits
1.	PCC-ETC601	Digital Signal Processing	6	5
2.	PCC-ETC602	Microprocessor and Microcontrollers	6	5
3.	PCC-ETC603	Power Electronics	6	5
4.	PCC-ETC604	Antenna and Wave Propagation	6	5
5.	OEC-ETC601	Open Elective – II	6	4
6.	PCC-ETC605	Mini Project	6	1
		Total		25

- **For Theory CIE 30 marks,**
  Two tests of 30 marks at college should be conducted and best of two marks should be communicated to university.
- **Guidelines to paper setter:**

  In theory ESE examination of 70 marks following pointes should be considered,

  Q.1 MCQ's based on complete syllabus. (Carries 14 Marks)

  Q.2 based on unit no 1, 2, 3 (Carries 14 Marks)

  Q.3 based on unit no 1, 2, 3 (Carries 14 Marks)

  Q.4 based on unit no 4, 5, 6 (Carries 14 Marks)

  Q.5 based on unit no 4, 5, 6 (Carries 14 Marks)

Banawadi Karad

Principal

Open Elective –I

Sr. No.	Name of Subject /Elective	Name of the Concern Branch
1.	Energy And Environment	Civil Engineering
	Waste Management	
2.	Enterprise Resource Planning	Mechanical Engineering
	Optimization Techniques	
3.	Electrical Appliances And Luminaries	Electrical Engineering
	Domestic /Industrial Electrical Installation, Estimation And Costing	
4.	Industrial Automation	Electronics Engineering
	Biomedical Instrumentation	
5.	Computer Graphics & Multimedia	Computer Science & Engineering
	Internet of Things	
6.	Additive Manufacturing	Production Engineering
	Human Resource Management	
7.	Computational Techniques in Chemical Engineering	Chemical Engineering
	Applications of MATLAB in Chemical Engineering	
8.	Human Computer Interaction	Information Technology
	Internet of Things	
9.	Industrial Automation	Electronics & Telecommunication Engineering
	Biomedical Instrumentation	

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Banawadi Karad

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

Open Elective –II

Sr. No.	Name of Subject /Elective	Name of the Concern Branch
1.	Soil And Water Conservation Techniques	Civil Engineering
	Disaster Risk Management	
2.	Computer Aided Design And Manufacturing	Mechanical Engineering
	Electric Vehicle	
3.	Electrical Energy Audit And Conservation	Electrical Engineering
	PLC & SCADA	
4.	Robotics Engineering	Electronics Engineering
	Mobile Technology	
5.	E-Commerce & Digital Marketing	Computer Science & Engineering
	Cyber Security	
6.	Entrepreneurship Development	Production Engineering
	Supply Chain Management	
8.	Industrial Economics, Management And Entrepreneurship	Chemical Engineering
	Project Management And Smart Technology	
10.	Cyber Security	Information Technology
	E-Commerce & Digital Marketing	
11.	Robotics Engineering	Electronics & Telecommunication Engineering
	Mobile Technology	

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi Karad

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

Shivaji University, Kolhapur
Revised Syllabus Structure of Final Year Engineering (BE) (w. e. f. July 2016)
Electronics and Telecommunication Engineering Course
Scheme of Teaching and Examination
Semester-VII

Sr. No.	Subject	Teaching Scheme (Hrs.)				Examination Scheme (Marks)				
		L	T	P	Total	Theory	TW	POE	OE	Total
1	Satellite Communication	3	1	--	4	100	25	--	--	125
2	Embedded System	4	--	2	6	100	25	50	--	175
3	Computer Communication Networks	4	--	2	6	100	25	--	25	150
4	RF & Microwave Engineering	4	-	2	6	100	25	--	--	125
5	Elective-I	3	1	--	4	100	25	--	--	125
6	Industrial Training	--	--	--	---	--	25*	--	--	25
7	Project Phase-I	--	--	2	2	--	25	--	50	75
		18	**2**	**08**	**28**	**500**	**175**	**50**	**75**	**800**

*** Assessment will be carried out with Project Phase – I By Internal Guide.**

Semester-VIII

Sr. No.	Subject	Teaching Scheme(Hrs.)				Examination Scheme(Marks)				
		L	T	P	Total	Theory	TW	POE	OE	Total
1	Video Engineering	4	--	2	6	100	25	50	--	175
2	Wireless Mobile Communication	4	--	2	6	100	25	--	--	125
3	Digital Image Processing	4	--	2	6	100	25	--	50	175
4	Elective-II	3	1	--	4	100	25	--	--	125
5	Project Phase – II	--	--	4	4	--	100	--	100	200
		15	**01**	**10**	**26**	**400**	**200**	**50**	**150**	**800**

BE Part-I (Elective-I)	BE Part-II (Elective-II)
1. Robotics	1. Mechatronics
2. Speech processing	2. Artificial Neural Network
3. MEMS	3. Remote Sensing & GPS
4. Radar & Navigation Aids	4. Operating System

Dr. Ashok Gujar Technical Institute's Banawadi Kasad

Principal

SEMESTER VII

Course Code	Course	Teaching Scheme			Examination Scheme				
		L	P	T	Theory	TW	POE	OE	Total
CS7C01	Advanced Computer Architecture	4	-	1	100	25	-		125
CS7L02	Distributed Systems	3	2	-	100	25	-		125
CS7L03	Advanced Database Systems	3	2	-	100	25	-	50	175
CS7E04	Elective –I	3	-	1	100	25	-		125
CS7L05	Web Technologies – I	3	4	-	-	50	50		100
CS7L06	Project –I	-	4	-	-	75	-	75	150
	Total	**16**	**12**	**2**	**400**	**225**	**50**	**125**	**800**

SEMESTER VIII

Course Code	Course	Teaching Scheme			Examination Scheme				
		L	P	T	Theory	TW	POE	OE	Total
CS8C01	Data Analytics	4	2	-	100	25		50	175
CS8C02	Project Management	3	-	-	100	-		-	100
CS8C03	Real-time Operating System	4	-	1	100	25		-	125
CS8E04	Elective –II	3	-	1	100	25		-	125
CS8L05	Web Technologies – II	2	4	-	-	50	50	-	100
CS8L06	Project –II	-	4	-	-	75		75	150
CS8L07	Community Services	-	2	-	-	25		-	25
	Total	**16**	**12**	**2**	**400**	**225**	**50**	**125**	**800**

Elective –I

A. Soft Computing
B. Mobile Applications
C. Adhoc Wireless Networks

Elective –II

A. Internet of Things
B. Software Testing and Quality Assurance
C. Introduction to Mainframes

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi Karad

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for Final Yr. Sem VII & VIII : **800 + 800 =1600**
• Theory and Practical Lectures : 60 Minutes Each	• Total Credits for Final Yr. Sem VII & VIII: **50 (SEM-VII: 25 + SEM -VIII: 25)**
• In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.	
• There shall be separate passing for theory and practical (term work) courses.	

Note:

1. **PCC-CS:** Professional Core Course – Computer Science and Engineering are compulsory.
2. **PCE-CS:**ProfessionalCoreElective–ComputerScienceandEngineeringarecompulsory
3. **HM-CS:** Humanities and Management- Computer Science and Engineering are compulsory.
4. **PW-CS:** Domain Specific Mini Project — Computer Science and Engineering are compulsory.
5. **SI-CS:** Internship-Computer Science and Engineering are compulsory.

Professional Core Elective – I

1. Artificial Intelligence
2. Software Testing & Quality Assurance
3. Image Processing

Professional Core Elective – II

1. Project Management
2. Natural Language Processing
3. Ad-Hoc Wireless Sensor Networks

Professional Core Elective – III

1. High Performance Computing
2. Blockchain Technologies
3. Human computer Interaction

Dr. Ashok Gujar Technical Institute's Banawadi Karad Dr. Daulatrao Aher College of Engineering, Karad

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao [illegible] Karad

SHIVAJI UNIVERSITY, KOLHAPUR,

Structure of B.E. (MECHANICAL ENGINEERING) **Semester VII**

WITH EFFECT FROM THE ACADEMIC YEAR JUNE/JULY 2016-2017

Sr. No.	Course Title	Teaching Scheme				Examination Scheme				
		L	T	P	Total Hrs.	TP	TW	OE	POE	Total Marks
1	Refrigeration and Air Conditioning	3	-	2	5	100	25	-	25	150
2	Mechanical System Design	3	-	2	5	100	25	25	-	150
3	Finite Element Analysis	3	-	2	5	100	25	-	-	125
4	Elective I	3	-	2	5	100	25	-	-	125
5	Elective II	3	-	2	5	100	25	-	-	125
6	Industrial Training @	-	-	-	0	-	50	-	-	50
7	Project Phase -I	-	-	2	2	-	50	25	-	75
Total		15	00	12	27	500	225	50	25	800

Sr. No.	Elective I	Elective II
1	Experimental Mechanics	Total Quality Management
2	Human and Professional Ethics	Industrial Product Design
3	Automobile Engineering	Advanced Forming Processes
4	Computational Fluid Dynamics	Design of Thermal Systems
5	Process Equipment Design	Smart Materials
6	Advanced Foundry Processes	Design for Sustainability
7	Introduction to Aircraft Systems	Flexible Manufacturing Systems

L: Lecture, T: Tutorial, P: Practical, TP: Theory Paper, TW: Term Work, OE: Oral Exam. , POE: Practical and Oral Exam.

@ Industrial training of minimum two (2) weeks should be done after T.E. (II) in summer vacation and it's assessment will be done in B.E. (I) based on report submitted Work load of the assessment can be assigned to the project seminar guide.

Principal
Dr. Asnok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

Dr. Ashok Gujar Technical Institute's
Banawadi
Karad

SHIVAJI UNIVERSITY, KOLHAPUR,

Structure of B.E. (MECHANICAL ENGINEERING) **Semester VIII**

WITH EFFECT FROM THE ACADEMIC YEAR JUNE/JULY 2016-2017

Sr. No.	Course Title	Teaching Scheme				Examination Scheme				
		L	T	P	Total Hrs.	TP	TW	OE	POE	Total Marks
1	Mechatronics	3	-	2	5	100	25	25	-	150
2	Energy and Power Engineering	3	-	2	5	100	25	-	-	125
3	Noise and Vibration	3	-	2	5	100	25	25	-	150
4	Elective III	3	-	2	5	100	25	-	-	125
5	Elective IV	3	-	2	5	100	25	-	-	125
6	Project Phase -II	-	-	4	4	-	50	75	-	125
Total		15	00	14	29	500	175	125	00	800

Sr. No.	Elective III	Elective IV
1	Industrial Engineering	Industrial Automation and Robotics
2	Production Management	Cryogenics
3	Fracture Mechanics	Enterprise Resource Planning
4	Reliability Engineering	Micro Electro Mechanical Systems
5	Advanced I.C. Engine	Advanced Refrigeration
6	Machine Tool Design	Tribology
7	Design of Aircraft Systems	Precision Engineering

L: Lecture, T: Tutorial, P: Practical, TP: Theory Paper, TW: Term Work, OE: Oral Exam. , POE: Practical and Oral Exam.

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Semester VII

Sr. No	Code No.	Subject	Credits
1.	PCC ME 401	Refrigeration and Air Conditioning	4
2.	PCC ME 402	Mechanical System Design	4
3.	PCC ME 403	Finite Element Analysis	4
4.	PCE ME 404	Elective I	4
5.	PCE ME 405	Elective II	4
6.	PCC ME 406	Seminar	1
7.	SI ME 407	Summer Internship @	1
8.	PW ME 408	Project Phase -I	3
		Total	25

Semester VIII

Sr. No	Code No.	Subject	Credits
1.	PCC ME 409	Mechatronics	4
2.	PCC ME 410	Energy and Power Engineering	4
3.	PCC ME 411	Noise and Vibration	4
4.	PCE ME 412	Elective III	4
5.	PCE ME 413	Elective IV	4
6.	**PCE ME414*** **	**Online Certificate Course**	**2**
7.	PW ME 415	Project Phase –II	3
		Total	25

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SEM 7th Elective Subject of Final year B.tech

Elective I	Elective II
Experimental Mechanics	Total Quality Management
Human and Professional Ethics	Industrial Process Design
Automobile Engineering	Advanced Forming Processes
Computational fluid Dynamics	Design of Thermal Systems
Process Equipment Design	Smart Materials
Advanced Foundry Technology	Design for Sustainability
Introduction to Aircraft System	Flexible Manufacturing Systems

SEM 8th Elective Subject of Final year B.tech

Elective III	Elective IV
Industrial Engineering	Industrial Automation & Robotics
Production Management	Cryogenics
Fracture Mechanics	Enterprise Resource Planning
Reliability Engineering	Micro Electro Mechanical Systems (MEMS)
Advanced I. C. Engine	Advanced Refrigeration
Machine Tool Design	Tribology
Design of Aircraft Systems	Precision Engineering

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Structure of CBCS Syllabus

First Year Engineering and Technology – CBCS PATTERN (All Branches) (Sem I & II)

SEMESTER - I

Sr. No		TEACHING SCHEME									EXAMINATION SCHEME							
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL (Term wok)		
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	%Min	Hours	Max	%Min
1	BSC-P-101 / BSC-C-101	3	3	3	-	-	-	1	2	2		CIE / ESE	30 / 70	100	40%	As per BOS Guidelines	25	40%
2	BSC-M-I-102	3	3	3	1	1	1	-	-	-		CIE / ESE	30 / 70	100	40%		25	40%
3	ESC-103	3	3	3	-	-	-	1	2	2		CIE / ESE	30 / 70	100	40%		25	40%
4	ESC-104	3	3	3	-	-	-	1	2	2		CIE / ESE	30 / 70	100	40%		25	40%
5	ESC-105	3	3	3	-	-	-	1	2	2		CIE / ESE	30 / 70	100	40%		25	40%
6	HM-I-106	1	1	1	-	-	-	1	2	2		-	-	-	-		25	40%
7	ESC-W-I-107	1	1	1	-	-	-	1	2	2		-	-	-	-		50	40%
	TOTAL	17	17	17	1	1	1	6	12	12				500			200	

SEMESTER –II

1	BSC-P-201 / BSC-C-201	3	3	3	-	-	-	1	2	2		CIE / ESE	30 / 70	100	40%	As per BOS Guidelines	25	40%
2	BSC-M-II-202	3	3	3	1	1	1	-	-	-		CIE / ESE	30 / 70	100	40%		25	40%
3	ESC-203	3	3	3	-	-	-	1	2	2		CIE / ESE	30 / 70	100	40%		25	40%
4	ESC-204	3	3	3	-	-	-	1	2	2		CIE / ESE	30 / 70	100	40%		25	40%
5	ESC-205	3	3	3	-	-	-	1	2	2		CIE / ESE	30 / 70	100	40%		25	40%
6	HM-II -206	1	1	1	-	-	-	1	2	2		-	-	-	-		25	40%
7	ESC-W-II-207	1	1	1	-	-	-	1	2	2		-	-	-	-		50	40%
	TOTAL	17	17	17	1	1	1	6	12	12				500			200	
	TOTAL	34	34	34	2	2	2	12	24	24				1000			400	

CIE – Continuous Internal Evaluation ESE – End Semester Examination

Sr. No		TEACHING SCHEME									EXAMINATION SCHEME							
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL (Term wok)		
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	%Min	Hours	Max	%Min
SEMESTER - I																		
1	BSC-P-101 / BSC-C-101	3	3	3	-	-	-	1	2	2		CIE	30	100	40%	As per BOS Guidelines	25	40%
												ESE	70					
2	BSC-M-I-102	3	3	3	1	1	1	-	-	-		CIE	30	100	40%		25	40%
												ESE	70					
3	ESC-103	3	3	3	-	-	-	1	2	2		CIE	30	100	40%		25	40%
												ESE	70					
4	ESC-104	3	3	3	-	-	-	1	2	2		CIE	30	100	40%		25	40%
												ESE	70					
5	ESC-105	3	3	3	-	-	-	1	2	2		CIE	30	100	40%		25	40%
												ESE	70					
6	HM-I-106	1	1	1	-	-	-	1	2	2		-	-	-	-		25	40%
7	ESC-W-I-107	1	1	1	-	-	-	1	2	2		-	-	-	-		50	40%
	TOTAL	17	17	17	1	1	1	6	12	12				500			200	
SEMESTER –II																		
1	BSC-P-201 / BSC-C-201	3	3	3	-	-	-	1	2	2		CIE	30	100	40%	As per BOS Guidelines	25	40%
												ESE	70					
2	BSC-M-II-202	3	3	3	1	1	1	-	-	-		CIE	30	100	40%		25	40%
												ESE	70					
3	ESC-203	3	3	3	-	-	-	1	2	2		CIE	30	100	40%		25	40%
												ESE	70					
4	ESC-204	3	3	3	-	-	-	1	2	2		CIE	30	100	40%		25	40%
												ESE	70					
5	ESC-205	3	3	3	-	-	-	1	2	2		CIE	30	100	40%		25	40%
												ESE	70					
6	HM-II -206	1	1	1	-	-	-	1	2	2		-	-	-	-		25	40%
7	ESC-W-II-207	1	1	1	-	-	-	1	2	2		-	-	-	-		50	40%
	TOTAL	17	17	17	1	1	1	6	12	12				500			200	
	TOTAL	34	34	34	2	2	2	12	24	24				1000			400	

CIE – Continuous Internal Evaluation ESE – End Semester Examination

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SHIVAJI UNIVERSITY, KOLHAPUR

REVISED SYLLABUS

SECOND YEAR (B. Tech) CBCS

CIVIL ENGINEERING

To be introduced from the academic year 2019-20

(i.e. from June 2019) onwards

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Third Year CIVIL ENGINEERING – CBCS PATTERN

SEMESTER – V

Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME											
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERM WORK			
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PCC-CV501	3	3	3	-	-	-	1	2	2		CIE	30	100	40	As per BOS Guidelines	25	10	2	50	20
												ESE	70								
2	PCC-CV502	4	4	4	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
3	PCC-CV503	3	3	3	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
4	PCC-CV504	4	4	4	-	-	-	1	2	2		CIE	30	100	40		25	10	2	50	20
												ESE	70								
5	PCC-CV505	2	2	2	-	-	-	2	4	4		-	-	-	-		50	20	2	50	20
6	OEC-CV506	3	3	3	-	-	-	-	-	-		CIE	30	100	40		-	-	-	-	-
												ESE	70								
	TOTAL	**19**	**19**	**19**	**-**	**-**	**-**	**6**	**12**	**12**				**500**			**100**			**200**	

SEMESTER –VI

1	PCC-CV601	3	3	3	1	1	1	-	-	-		CIE	30	100	40	As per BOS Guidelines	-	-	2	25	10
												ESE	70								
2	HM-CV602	4	4	4	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
3	PCC-CV603	4	4	4	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
4	PCC-CV604	4	4	4	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
5	OEC-CV605	3	3	3	-	-	-	-	-	-		CIE	30	100	40		-	-	-	-	-
												ESE	70								
6	PCC-CV606	-	-	-	-	-	-	2	4	4		-	-	-	-		50	20	2	50	20
7	MC-CV607	-	-	-	-	-	-	1	2	2		-	-	-	-		-	-	2	50	20
8	*SI-CV707	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-
	TOTAL	**18**	**18**	**18**	**1**	**1**	**1**	**6**	**12**	**12**				**500**			**75**			**225**	
	TOTAL	**37**	**37**	**37**	**1**	**1**	**1**	**12**	**24**	**24**				**1000**			**175**			**425**	

CIE- Continuous Internal Evaluation
ESE – End Semester Examination

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Final YearCivil Engineering - CBCS Pattern

Sr.No	Course(Subject Title)	TEACHINGSCHEME									EXAMINATIONSCHEME											
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL				TERMWORK		
		Credits	No. ofLecture	Hours	Credits	No. ofLecture	Hours	Credits	No. ofLecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
SEMESTER– VII																						
1	PCC-CV701	4	4	4	-	-	-	1	2	2		CIE	30	100	40	As per BOS Guidelines	-	-	2	25	20
												ESE	70								
2	PCC-CV702	3	3	3	1	1	1	-	-	-		CIE	30	100	40		-	-	2	25	10
												ESE	70								
3	PCC-CV703	3	3	3	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
4	PCC-CV704	3	3	3	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	20
												ESE	70								
5	PCE-CV705	3	3	3	1	1	1	-	-	-		CIE	30	100	40		25	10	2	25	20
												ESE	70								
6	PCC-CV706	2	2	2	-	-	-	1	2	2		-	-	-	-		-	-	2	25	20
7	SI-CV707	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	25	20
8	PW-CV708	-	-	-	-	-	-	1	2	2		-	-	-	-		-	-	2	50	20
	TOTAL	**18**	**18**	**18**	**2**	**2**	**2**	**5**	**10**	**10**				**500**			**75**			**225**	
SEMESTER –VIII																						
1	PCC-CV801	4	4	4	-	-	-	1	2	2		CIE	30	100	40	As per BOS Guidelines	-	-	2	25	10
												ESE	70								
2	PCC-CV802	3	3	3	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
3	PCC-CV803	3	3	3	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
4	PCE-CV804	3	3	3	1	1	1	-	-	-		CIE	30	100	40		-	-	-	-	-
												ESE	70								
5	PCE-CV805	3	3	3	1	1	1	-	-	-		CIE	30	100	40		-	-	-	-	-
												ESE	70								
6	PCC-CV806	-	-	-	-	-	-	2	4	4		-	-	-	-		25	10	2	50	10
7	PW-CV807	-	-	-	-	-	-	1	2	2		-	-	-	-		100	40	2	50	20
	TOTAL	**16**	**16**	**16**	**2**	**2**	**2**	**7**	**14**	**14**				**500**			**125**			**175**	
	TOTAL	**35**	**35**	**35**	**3**	**3**	**3**	**12**	**24**	**24**				**1000**			**200**			**400**	

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SECOND YEAR COMPUTER SCIENCE AND ENGINEERING - CBCS PATTERN

SEMESTER - III

Sr. No.	Course Subject / Title	TEACHING SCHEME									EXAMINATION SCHEME											
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERMWORK			
		Credits	No. Of Lectures	Hours	Credits	No. of Hours	Hours	Credits	No. of Hours	Hours	Hours	mode	marks	Total Marks	MIN.	Hours	MAX	MIN.	Hours	MAX	MIN.
1	BSC - CS301 Applied Mathematics	3	3	3	1	1	1					CIE	30	100	40	AS PER BOS GUIDELINES			AS PER BOS GUIDELINES	25	10
												ESE	70								
2	PCC-CS302 DiscreteMathematics &Structures	3	3	3	1	1	1					CIE	30	100	40					25	10
												ESE	70								
3	PCC- CS303 Data Structures	3	3	3								CIE	30	100	40						
												ESE	70								
4	PCC- CS304 Computer Networks - I	3	3	3				1	2	2		CIE	30	100	40		50	20		25	10
												ESE	70								
5	PCC- CS305 Microprocessors	3	3	3				1	2	2		CIE	30	100	40					25	10
												ESE	70								
6	PCC- CS306 C programming	3	3	3				2	4	4							50	20		50	20
7	HM- CS307 Soft Skills							1	2	2							25	10		25	10
	Total (SEM –III)	***18***	***18***	***18***	***2***	***2***	***2***	***5***	***10***	***10***				***500***			***125***			***175***	

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SECOD YEAR COMPUTER SCIENCE AND ENGINEERING - CBCS PATTERN

SEMESTER - IV

Sr. No.	Course Subject / Title	TEACHING SCHEME									EXAMINATION SCHEME											
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL				TERMWORK		
		Credits	No. Of Lectures	Hours	Credits	No. of Hours	Hours	Credits	No. of Hours	Hours	Hours	mode	marks	Total Marks	MIN.	Hours	MAX	MIN.	Hours	MAX	MIN.
1	PCC-CS401 Automata Theory	3	3	3								CIE	30	100	40	AS PER BOS GUIDELINES			AS PER BOS GUIDELINES		
												ESE	70								
2	PCC- CS402 Computer Networks - II	3	3	3				1	2	2		CIE	30	100	40		50	20		25	10
												ESE	70								
3	PCC- CS403 Computer Organization and Architecture	3	3	3								CIE	30	100	40						
												ESE	70								
4	PCC- CS404 Operating Systems - I	3	3	3				1	2	2		CIE	30	100	40					25	10
												ESE	70								
5	PCC- CS405 Software Engineering	3	3	3								CIE	30	100	40						
												ESE	70								
6	PCC- CS406 Object Oriented Programming	2	2	2				2	4	4							50	20		50	20
7	PW- CS407 Mini Project							1	2	2							50	20		50	20
8	MC-CS408 Environmental Studies	2	2	2	1	1	1					CIE ESE	30 70	100	40						
	Total (SEM –IV)	***19***	***19***	***19***	***1***	***1***	***1***	***5***	***10***	***10***				***600***			***150***			***150***	
	Total	**37**	**37**	**37**	**3**	**3**	**3**	**10**	**20**	**20**				**1100**			**275**			**325**	

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

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• Candidate contact hours per week : 30 Hours(Minimum)	• Total Marks for S.E. Sem III & IV : **800 + 900 =1700**
• Theory and Practical Lectures : 60 MinutesEach	• Total Credits for S.E. Sem III & IV : **50 (SEM-III: 25 + SEM -IV:25)**
• In theory examination there will be a passing based on separate head of passing for examination of CIE andESE.	
• There shall be separate passing for theory and practical (term work)courses.	

Note:

1. **BSC-CS**: Basic Science Course – Computer Science and Engineering arecompulsory.
2. **ESC-CS:** Engineering Science Course - Computer Science and Engineering arecompulsory.
3. **PCC-CS:** Professional Core Course – Computer Science and Engineering arecompulsory.
4. **HM-CS:** Humanities and Management- Computer Science and Engineering arecompulsory.
5. **PW-CS:** Project Work–- Computer Science and Engineering arecompulsory.
6. **MC-CS:** Mandatory Course -Environmental Studies which is compulsory for theory 70 marks and project work 30 marks.

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	THIRD YEAR COMPUTER SCIENCE AND ENGINEERING - CBCS PATTERN																	
	SEMESTER - V																	
		TEACHING SCHEME							EXAMINATION SCHEME									
		THEORY			TUTORIAL		PRACTICAL		THEORY				ORAL / PRACTICAL		TERMWORK			
Sr. No.	Course Subject / Title	Credits	No. Of Lectures	Hours	Credits	No. of Hours	Credits	No. of Hours	mode	marks	Total Marks	MIN.	MAX	MIN.	MAX	MIN.		
1	**PCC-CS501** Information Security	3	3	3			1	2	CIE ESE	30 70	100	40			50	20		
2	**PCC- CS502** System Programming	3	3	3			1	2	CIE ESE	30 70	100	40	25	10	50	20		
3	**PCC- CS503** Object-Oriented Modeling & Design	3	3	3					CIE ESE	30 70	100	40						
4	**PCC- CS504** Computer Algorithms	4	4	4	1	1			CIE ESE	30 70	100	40			25	10		
5	**OEC- CS505** Computer Graphics & Multimedia **OEC-CS506** Internet of Things	3	3	3					CIE ESE	30 70	100	40						
6	**PCC- CS507** Java Programming	3	3	3			2	4					50	20	50	20		
7	**HM- CS508** Business English				1	2							25	10	25	10		
	Total (SEM –V)	***19***	***19***	***19***	***2***	***3***	***4***	***8***			***500***		***100***		***200***			

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	THIRD YEAR COMPUTER SCIENCE AND ENGINEERING - CBCS PATTERN																	
	SEMESTER - VI																	
		TEACHING SCHEME							EXAMINATION SCHEME									
Sr. No.	Course Subject / Title	THEORY			TUTORIAL		PRACTICAL		THEORY				ORAL / PRACTICAL		TERMWORK			
		Credits	No. Of Lectures	No. of Hours	Credits	No. of Hours	Credits	No. of Hours	mode	marks	Total Marks	MIN.	MAX	MIN.	MAX	MIN.		
1	**PCC-CS601** Compiler Construction	3	3	3			1	2	CIE ESE	30 70	100	40			25	10		
2	**PCC- CS602** Operating System-II	4	4	4			1	2	CIE ESE	30 70	100	40			25	10		
3	**PCC- CS603** Database Engineering	4	4	4			1	2	CIE ESE	30 70	100	40	50	20	25	10		
4	**PCC- CS604** Machine Learning	3	3	3	1	1			CIE ESE	30 70	100	40			25	10		
5	**OEC- CS605** E-Commerce & Digital Marketing **OEC - CS606** ii) Cyber Security	3	3	3					CIE ESE	30 70	100	40						
6	**PCC- CS607** C# Programming	2	2	2			1	2					50	20	25	10		
7	**PW- CS608** Domain Specific Mini Project						1	2					50	20	25	10		
	Total (SEM –VI)	***19***	***19***	***19***	***1***	***1***	***5***	***10***			***500***		***150***		***150***			
	Total (SEM - V+ SEM - VI)	**38**	**38**	**38**	**3**	**4**	**9**	**18**			**1000**		**250**		**350**			

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi Karad

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for T.Y. Sem V & VI : **800 + 800 =1600**
• Theory and Practical Lectures : 60 Minutes Each	• Total Credits for T.Y. Sem V & VI : **50 (SEM-V: 25 + SEM -VI: 25)**
• In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.	
• There shall be separate passing for theory and practical (term work) courses.	

Note:

1. **PCC-CS:** Professional Core Course – Computer Science and Engineering are compulsory.
2. **HM-CS:** Humanities and Management- Computer Science and Engineering are compulsory.
3. **PW-CS:** Domain Specific Mini Project –- Computer Science and Engineering are compulsory.
4. **#OEC-CS: Open Elective Course** – To be offered to Inter departmental students.
   # - 60% of the students from other branches to be chosen on merit.
   - 40% of the students may be from same branch based on merit.
   - Number of students to be allowed should be 72(Max.) for the branch with intake of 60 students.
   - The above ratio should be followed in proportionate to the sanctioned intake.

OPEN ELECTIVE COURSE-I

Sr. No.	Name of the Subject	Name of the concern Branch
1	i) Computer Graphics & Multimedia ii) Internet of Things	Computer Science and Engineering

OPEN ELECTIVE COURSE-II

Sr. No.	Name of the Subject	Name of the concern Branch
1	i) E-Commerce & Digital Marketing ii) Cyber Security	Computer Science and Engineering

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	FINAL YEAR COMPUTER SCIENCE AND ENGINEERING - CBCS PATTERN																	
	SEMESTER - VII																	
		TEACHING SCHEME							EXAMINATION SCHEME									
Sr. No.	Course Subject / Title	THEORY			TUTORIAL		PRACTICAL		THEORY				ORAL / PRACTICAL		TERMWORK	
		Credits	No. Of Lectures	Hours	Credits	No. of Hours	Credits	No. of Hours	mode	marks	Total Marks	MIN.	MAX	MIN.	MAX	MIN.
1	PCC-CS701 Advanced Computer Architecture	4	4	4	1	1			CIE ESE	30 70	100	40			25	10
2	PCC- CS702 Cloud Computing	3	3	3			1	2	CIE ESE	30 70	100	40			25	10
3	PCC- CS703 Advanced Database Systems	3	3	3			1	2	CIE ESE	30 70	100	40	50	20	25	10
4	PCE- CS704 Elective-I	3	3	3	1	1			CIE ESE	30 70	100	40			25	10
5	PCC- CS705 Web Technologies	3	3	3			2	4					50	20	50	20
6	PW- CS706 Project – I						2	4					50	20	50	20
7	SI-CS707 Internship						1								50	20
	Total (SEM –VII)	***16***	***16***	***16***	***2***	***2***	***7***	***12***			***400***		***150***		***250***	

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FINAL YEAR COMPUTER SCIENCE AND ENGINEERING - CBCS PATTERN

SEMESTER - VIII

Sr. No.	Course Subject / Title	TEACHING SCHEME							EXAMINATION SCHEME							
		THEORY			TUTORIAL		PRACTICAL		THEORY				ORAL / PRACTICAL		TERMWORK	
		Credits	NO. Of Lectures	No. of Hours	Credits	No. of Hours	Credits	No. of Hours	mode	marks	Total Marks	MIN.	MAX	MIN.	MAX	MIN.
1	PCC- CS801 Big Data Analytics	4	4	4			1	2	CIE ESE	30 70	100	40	50	20	25	10
2	PCC- CS802 Deep Learning	3	3	3	1	1			CIE ESE	30 70	100	40			25	10
3	PCE- CS803 Elective-II	3	3	3	1	1			CIE ESE	30 70	100	40			25	10
4	PCE- CS804 Elective-III	3	3	3	1	1			CIE ESE	30 70	100	40			25	10
5	PCC- CS805 Mobile Application Development	3	3	3			2	4					50	20	50	20
6	PW- CS806 Project – II						2	4					50	20	50	20
7	HM-CS807 Professional Skills				1	1									50	20
	Total (SEM –VIII)	***16***	***16***	***16***	***4***	***4***	***5***	***10***			***400***		***150***		***250***	
	Total	**32**	**32**	**32**	**6**	**6**	**12**	**22**			**800**		**300**		**500**	

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi Karad

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Dr. Asnok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

Second Year ELECTRONICS & TELECOMMUNICATION ENGINEERING – CBCS PATTERN

Semester Examination

SEMESTER - III

Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME											
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERM WORK			
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	BSC-ETC301	3	3	3	1	1	1	-	-	-		CIE	30	100	12	As per BOS Guidelines	-	-	2	25	10
												ESE	70		28						
2	PCC-ETC301	4	4	4	-	-	-	1	2	2		CIE	30	100	12		50	20	2	25	10
												ESE	70		28						
3	PCC-ETC302	3	3	3	1	1	1	-	-	-		CIE	30	100	12		-	-	2	25	10
												ESE	70		28						
4	PCC-ETC303	3	3	3	-	-	-	1	2	2		CIE	30	100	12				2	25	10
												ESE	70		28						
5	PCC-ETC304	3	3	3	-	-	-	1	2	2		CIE	30	100	12		50	20	2	25	10
												ESE	70		28						
6	PCC-ETC305	2	2	2	-	-	-	1	2	2		-	-	-	-		50	20	2	25	10
7	MC-ETC 301	3	3	3	-	-	-	-	-	-		CIE	30	100	12		-	-	-	-	-
												ESE	70		28						
	TOTAL	**21**	**21**	**21**	**2**	**2**	**2**	**4**	**8**	**8**				**600**			**150**			**150**	

SEMESTER –IV

1	PCC-ETC401	4	4	4	-	-	-	1	2	2		CIE	30	100	12	As per BOS Guidelines	50	20	2	25	10
												ESE	70		28						
2	PCC-ETC402	4	4	4	-	-	-	1	2	2		CIE	30	100	12		50	20	2	25	10
												ESE	70		28						
3	PCC-ETC403	3	3	3	-	-	-	-	-	-		CIE	30	100	12		-	-	2	25	10
												ESE	70		28						
4	PCC-ETC404	3	3	3	-	-	-	1	2	2		CIE	30	100	12		-	-	2	25	10
												ESE	70		28						
5	PCC-ETC405	3	3	3	-	-	-	-	-	-		CIE	30	100	12		-	-	2	25	10
												ESE	70		28						
6	PCC-ETC406	2	2	2	-	-	-	1	2	2							50	20	2	25	10
		-	-	-	-	-	-	-	-	-							-	-		-	-
	TOTAL	**19**	**19**	**19**	**2**	**2**	**2**	**4**	**8**	**8**				**500**			**150**			**150**	
	TOTAL	**40**	**40**	**40**	**2**	**2**	**2**	**8**	**16**	**16**				**1100**			**300**			**300**	

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad ★ Banawadi Karad

Principal
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

- Candidate contact hours per week : 30 Hours (Minimum)
- Total Marks for S.E. Sem III & IV : **1600**

• Theory and Practical Lectures : 60 Minutes	• Total Credits for S.E. Sem III & IV : **50**
• In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.	
• There shall be separate passing for theory and practical (term work) courses.	

Note:

1. **BSC-ETC**: Basic Science Course- Electronics & Telecommunication Engineering are compulsory.
2. **PCC-ETC:** Professional Core course – Electronics & Telecommunication Engineering are compulsory.
3. **MC-ETC:** Mandatory Course**:** Environmental Studies which is compulsory for theory 70 marks and project work 30 marks.

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Third Year ELECTRONICS & TELECOMMUNICATION ENGINEERING – CBCS PATTERN

SEMESTER – V																							
Sr. No	Course (Subject Title)	TEAETCING SETCEME									EXAMINATION SETCEME												
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERM			
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PCC-ETC501	4	4	4	1	1	1	-	-	-		CIE	30	100	12	As per BOS Guidelines	-	-	2	25	10
												ESE	70		28						
2	PCC-ETC502	3	3	3	1	1	1	-	-	-		CIE	30	100	12		-	-	2	25	10
												ESE	70		28						
3	PCC-ETC503	4	4	4	-	-	-	1	2	2		CIE	30	100	12		50	20	2	25	10
												ESE	70		28						
4	PCC-ETC504	4	4	4	-	-	-	1	2	2		CIE	30	100	12		50	20	2	25	10
												ESE	70		28						
5	OEC-ETC501	3	3	3	1	1	1	-	-	-		CIE	30	100	12		-	-	2	25	10
												ESE	70		28						
6	PCC-ETC505	1	1	1	-	-	-	1	2	2							50	20	2	25	10
	TOTAL	**19**	**19**	**19**	**3**	**3**	**3**	**3**	**6**	**6**				**500**			**150**			**150**	
SEMESTER –VI																							
1	PCC-ETC601	4	4	4	-	-	-	1	2	2		CIE	30	100	12	As per BOS Guidelines	-	-	2	25	10
												ESE	70		28						
2	PCC-ETC602	4	4	4	-	-	-	1	2	2		CIE	30	100	12		50	20	2	25	10
												ESE	70		28						
3	PCC-ETC603	4	4	4	-	-	-	1	2	2		CIE	30	100	12		-	-	2	25	10
												ESE	70		28						
4	PCC-ETC604	4	4	4	-	-	-	1	2	2		CIE	30	100	12		50	20	2	25	10
												ESE	70		28						
5	OEC-ETC601	3	3	3	1	1	1	-	-	-		CIE	30	100	12		-	-	2	25	10
												ESE	70		28						
6	PCC-ETC605	-	-	-	-	-	-	1	2	2							50	20	2	25	10
	TOTAL	**19**	**19**	**19**	1	1	1	**5**	**10**	**10**				**500**			**150**			**150**	
	TOTAL	**38**	**38**	**38**	**4**	**4**	**4**	**8**	**16**	**16**				**1000**			**300**			**300**	

CIE- Continuous Internal Evaluation
ESE – End Semester Examination

Note:

1. **PCC-ETC:** Professional Core course –Electronics & Telecommunication Engineering are compulsory.
2. **OCE-ETC:** Open Elective Course – Electronics & Telecommunication Engineering:
3. **Winter/Summer Internship/Industrial Training of minimum 15 day's compulsory and evaluation of the same will be carried out in Final year Project Phase internal assessment by respective Guide**

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad Banawadi Karad

Principal
Dr. Asnok Gujar Technical Institute's
Dr Daulatrao Aher College of Engineering, Karao

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for T.Y. Sem V& VI: **1600**
• Theory and Practical Lectures : 60 Minutes	• Total Credits for T.Y. Sem V & VI : **50**
• There shall be separate passing for theory and practical (term work) courses.	
(A) Non-Credit Self Study Course : Compulsory Civic Courses (CCC) For Sem I: CCC – I : Democracy, Elections and Good Governance **(B) Non-Credit Self Study Course : Skill Development Courses (SDC) For Sem II: SDC – I :** Any one from following (i) to (v) i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical Management v) Resume, Report & proposal writing	

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FINAL YEAR ELECTRONICS & TELECOMMUNICATION ENGINEERING –CBCS PATTERN
Semester Examination

SEMESTER –VII

Sr. No	Course (Subject Title)	TEAETING SETEME									EXAMINATION SETEME											
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERM WORK			
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PCC-ETC701	3	3	3	1	1	1	-	-	-		CIE	30	100	40	As per BOS Guidelines	-	-	2	25	10
												ESE	70								
2	PCC-ETC702	4	4	4	-	-	-	1	2	2		CIE	30	100	40		50	20	2	25	10
												ESE	70								
3	PCC-ETC703	4	4	4	-	-	-	1	2	2		CIE	30	100	40		50	20	2	25	10
												ESE	70								
4	PCC-ETC704	4	4	4	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
5	PCE-ETC701	3	3	3	1	1	1	-	-	-		CIE	30	100	40		-	-	2	25	10
												ESE	70								
6	PW-ETC701	-	-	-	-	-	-	2	4	4		-	-	-	-		25	10	2	50	10
	TOTAL	**18**	**18**	**18**	**2**	**2**	**2**	**5**	**10**	**10**				**500**			**125**			**175**	

SEMESTER –VIII

1	PCC-ETC801	4	4	4	-	-	-	1	2	2		CIE	30	100	40	As per BOS Guidelines	50	20	2	25	10
												ESE	70								
2	PCC-ETC802	4	4	4	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
3	PCC-ETC803	4	4	4	-	-	-	1	2	2		CIE	30	100	40		50	20	2	25	10
												ESE	70								
4	PCE-ETC801	3	3	3	1	1	1	-	-	-		CIE	30	100	40		-	-	2	25	10
												ESE	70								
5	PW-ET801	-	-	-	-	-	-	6	8	8		-	-	-	-		150	60	2	50	20
	TOTAL	**15**	**15**	**15**	**1**	**1**	**1**	**9**	**14**	**14**				**400**			**250**			**150**	
	TOTAL	**33**	**33**	**33**	**3**	**3**	**3**	**14**	**24**	**24**				**900**			**375**			**325**	

CIE- Continuous Internal Evaluation
ESE – End Semester Examination

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for B.E. Sem VII & VIII : **1600**
• Theory and Practical Lectures : 60 Minutes Each	• Total Credits for B.E. Sem VII & VIII : **50**
• In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.	
• There shall be separate passing for theory and practical (term work) courses.	

Note:

1. **PCC-ET:** Professional Core course –Electronics & Telecommunication Engineering is compulsory.
2. **PCE-ET:** Professional Core Elective –Electronics & Telecommunication Engineering is compulsory.
3. **SI-ET:** Summer Internship-Electronics & Telecommunication Engineering is compulsory.
4. **PW-ET**: Project work- Electronics & Telecommunication Engineering is compulsory.
5. **MC-ET:** Mandatory Course- Electronics & Telecommunication Engineering is compulsory

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SECOND YEAR MECHANICAL ENGINEERING– CBCS PATTERN

SEMESTER - III

Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME											
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERM WORK		
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	BSC-ME201	3	3	3	1	1	1	-	-	-		CIE	30	100	40	As per BOS Guidelines	-	-	2	25	10
												ESE	70								
2	BSC-ME202	3	3	3	-	-	-	1	2#	2#		CIE	30	100	40				2	25	10
												ESE	70								
3	PCC-ME203	3	3	3	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
4	PCC-ME204	3	3	3	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
5	PCC-ME205	3	3	3	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
6	PCC-ME206		-	-	-	-	-	1	2	2		-	-	-	-		-	-	2	25	10
7	PCC-ME207		-	-	-	-	-	1	2	2		-	-	-	-		-	-	-	25	10
8	PCC-ME208		-	-	-	-	-	1	2#	2#		-	-	-	-		-	-	-	25	10
9	MC-ME209	3	3	3	-	-	-	-	-	-		CIE	30	100	40		-	-	-	-	-
												ESE	70								
	TOTAL	**18**	**18**	**18**	**1**	**1**	**1**	**7**	**12**	**12**				**600**			**75**			**200**	

SEMESTER –IV

1	PCC-	3	3	3	-	-	-	1	2	2		CIE	30	100	40	S	-	-	2	25	10

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	ME210												ESE	70								
2	PCC-ME211	3	3	3	-	-	-	1	2	2			CIE	30	100	40		-	-	2	25	10
													ESE	70								
3	PCC-ME212	3	3	3	-	-	-	1	2	2			CIE	30	100	40		25	10	2	25	10
													ESE	70								
4	PCC-ME213	3	3	3	-	-	-	1	2	2			CIE	30	100	40		-	-	2	25	10
													ESE	70								
5	PCC-ME214	4	4	4	-	-	-	-	-	-			CIE	30	100	40		-	-	-	-	-
													ESE	70								
6	PCC-ME215	-	-	-	-	-	-	1	2	2			-	-	-	-		25	10	2	25	10
7	PCC-ME216	-	-	-	-	-	-	1	2	2			-	-	-	-		-	-	2	25	10
8	PCC-ME217	-	-	-	-	-	-	1	2	2			-	-	-	-		-	-	2	25	10
9	PCC-ME218	-	-	-	-	-	-	1	2	2						-	-	25	10	2	25	10
	TOTAL	**16**	**16**	**16**	-	-	-	**8**	**16**	**16**					**500**			**75**			**200**	
	TOTAL	**34**	**34**	**34**	**1**	**1**	**1**	**16**	**28**	**28**					**1100**			**150**			**400**	

CIE- Continuous Internal Evaluation
ESE – End Semester Examination

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for S.E. Sem III & IV: **1650**
• Theory/Tutorial Duration : 60 Minutes and Practical Duration : 120 Minutes	• Total Credits for S.E. Sem III & IV : **50**
• In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.	
• There shall be separate passing for theory and practical (term work) courses.	

Dr. Ashok Gujar Technical Institute's
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Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad Banawadi Karad

Note :

THIRD YEAR MECHANICAL ENGINEERING – CBCS PATTERN

SEMESTER – V

Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME											
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERM WORK		
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PCC-ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40	As per BOS Guidelines			2	25	10
												ESE	70								
2	PCC-ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
3	PCC-ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
4	PCC-ME	3	3	3	1	1	1					CIE	30	100	40				2	25	10
												ESE	70								
5	PCC-ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40				2	25	10
												ESE	70								
6	OEC-ME	3	3	3	-	-	-					CIE	30	100	40				--	--	--
												ESE	70								
7	PCC-ME	-	-	-	-	-	-	1	2	2									2	25	10
8	PCC-ME	-	-	-	-	-	-	1	2	2									2	25	10
	TOTAL	**18**	**18**	**18**	**1**	**1**	**1**	**6**	**12**	**12**				**600**			**50**			**175**	

SEMESTER –VI

1	PCC-ME	3	3	3	1	1	1	-	-	-		CIE	30	100	40	As per BOS Guidelines	-	-	2	25	10
												ESE	70								
2	PCC-ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
3	PCC-ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
4	PCC-ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
5	PCC-ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
6	OEC-ME	3	3	3	-	-	-	-	-	-		CIE	30	100	40		-	--	--	--	--
					-	-	-					ESE	70								
7	PCC-ME	-	-	-	-	-	-	1	2	2		-	-	-	-		-	-	2	25	10
8	PCC-ME	-	-	-	-	-	-	1	2	2		-	-	-	-	-	-	-	2	25	10
9	PCC-ME** (Audit Course)	-	1	1	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-

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	TOTAL	18	19	19	1	1	1	6	12	12		600		50		175	
	TOTAL	36	37	37	2	2	2	12	24	24		1200		100		350	

CIE- Continuous Internal Evaluation
ESE – End Semester Examination

• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for T.E. Sem V& VI:**1650**
• Theory/Tutorial Duration : 60 Minutes and Practical Duration : 120 Minutes	• Total Credits for T.E. Sem V & VI : **50**
• In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.	
• There shall be separate passing for theory and practical (term work) courses.	
• **Sem V &SemVI** :- Open Elective Course has 3 credits for one course. Each department / branch has to run at least one Open Elective Course in Sem-V and Sem-VI from the list of Elective Course. It is compulsory.	

Note :

1. Professional Core Courses-Mechanical Engineering (PCC-ME) are compulsory.
2. Open Elective Course- Mechanical Engineering (OEC-ME) is compulsory.
3. **PCC-ME**(Audit Course):- Students has to complete audit course as compulsory.**

Semester V

Sr. No	Code No.	Subject	Credits
1.	PCC-ME 301	Control Engineering	4
2.	PCC-ME 302	Theory of Machines – II	4
3.	PCC-ME 303	Heat and Mass Transfer	4
4.	PCC-ME 304	Machine Design – I	4
5.	PCC-ME 305	Manufacturing Engineering @	4
6.	OEC-ME 306	Open Elective-I	3
7.	PCC-ME 307	CAD/CAM Laboratory	1
8.	PCC-ME308	Workshop Practice – V	1
		Total	25

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FINAL YEAR MECHANICAL ENGINEERING – CBCS PATTERN

SEMESTER –VII

Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME											
		THEORY			TUTORIAL			PRACTICAL			THEORY					PRACTICAL			TERM WORK			
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PCC ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40	As per BOS Guidelines	25	10	2	25	10
												ESE	70								
2	PCC ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		-	-		25	10
												ESE	70								
3	PCC ME	3	3		-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
4	PCE ME	3	3	3	-		-	1	2	2		CIE	30	100	40				2	25	10
												ESE	70								
5	PCE ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
6	PCC ME	-	-	-	-	-	-	1	2	2									2	25	10
7	SI ME	-	-	-				1	-	-		-	-	-	-		-	-	2	25	10
8	PW ME	-	-	-				3	6	6		-	-	-	-		25	10		25	10
	TOTAL	**15**	**15**	**15**				**10**	**18**	**18**				**500**			**75**			**200**	

SEMESTER –VIII

1	PCC ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40	As per BOS Guidelines	25	10	2	25	10
												ESE	70								
2	PCC ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		25	10	2	25	10
												ESE	70								
3	PCC ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
4	PCE ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
5	PCE ME	3	3	3	-	-	-	1	2	2		CIE	30	100	40		-	-	2	25	10
												ESE	70								
6	PCC ME***	2	-	-	-	-	-	-	-	-		-	-	-					2	25	10
8	PW ME	-	-	-	-	-	-	3	6	6		-	-	-	-		25	10	6	50	20
	TOTAL	**17**	**15**	**15**				**8**	**16**	**16**				**500**			**75**			**200**	
	TOTAL	**32**	**30**	**30**				**18**	**34**	**34**				**1000**			**150**			**400**	

CIE- Continuous Internal Evaluation
ESE – End Semester Examination

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• Candidate contact hours per week : 30 Hours (Minimum)	• Total Marks for B.E. Sem VII & VIII : **1550**
• Theory/Tutorial Duration : 60 Minutes and Practical Duration : 120 Minutes	• Total Credits for B.E. Sem VII & VIII : **50**
• In theory examination there will be a passing based on separate head of passing for examination of CIE and ESE.	
• There shall be separate passing for theory and practical (term work) courses.	

Note :

1. Professional Core Courses-Mechanical Engineering(PCC-ME) are compulsory.
2. Professional Core Electives -MechanicalEngineering (PCE-ME) are compulsory.
3. Summer Internship -Mechanical Engineering (SI-ME) is compulsory.
4. Project Work Mechanical Engineering (PW-ME) is compulsory.
5. **PCC-ME***- Online Certificate Course based on Project topic.**

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Link of CBCS syllabus structure

1.2	CBCS/Elective structure Syllabus
Weblinks	http://www.unishivaji.ac.in/uploads/syllabus/2021/Syllabus/Engg%20and%20Tech/Off/17092021/1/Covering%20Letter).pdf
	http://www.unishivaji.ac.in/uploads/syllabus/2020/syllabus-2020-21/science/btech%20cover.pdf
	http://www.unishivaji.ac.in/uploads/syllabus/Engineering%20&%20Technology/Syllabus%202019-20/Covering%20Letter%20S.%20Y.%20B.%20Tech.%202019-20.pdf
	http://www.unishivaji.ac.in/uploads/syllabus/Engineering%20&%20Technology/Engineering%20&%20Technology%202018/First%20Year%20B.%20Tech.%20Syllabus%202018.PDF