



Shri Someshwar Shikshan Prasarak Mandal's
**Sharadchandra Pawar College of Engineering &
Technology,**

Someshwarnagar Tal – Baramati, Dist – Pune 412 306
(Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra
& Affiliated to Savitribai Phule Pune University, Id.no.PU/PN.Engg./445/2012)
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University Timetable




PRINCIPAL
Sharadchandra Pawar College of Engineering & Technology
Someshwarnagar, Tal. Baramati, Dist. Pune (Pin : 412 306)

SAVITRIBAI PHULE PUNE UNIVERSITY
(Formerly University of Pune)



TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN FIRST HALF OF THE YEAR 2024

Examination Circular No. 08

FACULTY OF SCIENCE AND TECHNOLOGY

(A) SCIENCE

Sr. No.	Name of the Examination	Examination fee (Rs.) per Sem./Part/ Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	F.Y.B.Sc.	510	08/04/2024	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
2.	S.Y. B.Sc.(Sem I to VI) (2019 Patt.) (C.B.C.S.) (Including Vocational)	510	04/05/2024	
3.	S.Y. B.Sc. Computer Science (Sem I to VI) (2019 Patt.)(C.B.C.S.)	510	04/05/2024	
4.	S.Y. B.Sc. (Biotechnology) (Sem I to VI) (2019 Patt.) (C.B.C.S.)	510	04/05/2024	
5.	S.Y. B.C.A. (Sem. I to VI)(2019 Pattern)(C.B.C.S.)	1350	04/05/2024	
6.	S.Y. B.Sc. (Hospitality Studies) (Sem I to VI) (2019 Patt.)(C.B.C.S.)	1275	04/05/2024	
7.	S.Y.B.Sc. Animation (Sem. I to VI) (2021 Pattern) (C.B.C.S.) & S.Y.B.Sc. Animation (Sem I to IV) (2015 Pattern)	1275	04/05/2024	
8.	S.Y. Cyber & Digital Science (Sem I to IV)	1350	04/05/2024	
9.	T.Y. B.Sc.(Sem I to VI) (2019 Patt.)(C.B.C.S.) (Including Vocational)	510	23/04/2024	
10.	T.Y. B.Sc. Computer Science (Sem I to VI) (2019 Patt.)(C.B.C.S.)	510	23/04/2024	
11.	T.Y. B.Sc. (Biotechnology) (Sem I to VI) (2019 Patt.) (C.B.C.S.)	510	23/04/2024	
12.	T.Y. B.C.A. (Sem. I to VI)(2019 Pattern)(C.B.C.S.)	1350	23/04/2024	
13.	T.Y. B.Sc. (Hospitality Studies) (Sem I to VI) (2019 Patt.)(C.B.C.S.)	1275	23/04/2024	
14.	T.Y.B.Sc. Animation (Sem. I to VI) (2021 Pattern) (C.B.C.S.) & T.Y.B.Sc. Animation (Sem I to IV) (2015 Pattern)	1275	23/04/2024	
15.	T.Y. Cyber & Digital Science (Sem I to IV)	1350	23/04/2024	
16.	M.Sc (C.B.C.S.)	510	10/05/2024	
	1. Physics (Sem. I to IV 2019, 2020 Pattern)			
	2. Chemistry (All) (Sem. I to IV) (2019 Patt.)	510	10/05/2024	
	3. Zoology (Sem. I to IV) (2019 Pattern)	510	10/05/2024	
	4. Microbiology (Sem. I to IV) (2019 Patt.)	510	10/05/2024	
	5. Botany (Sem. I to IV) (2019 Pattern)	510	10/05/2024	
	6. Environmental Science(Sem. I to IV) (2019 Pattern)	510	10/05/2024	
	7. Electronics Science (Sem. I to IV) (2019 Pattern)	510	10/05/2024	
	8. Drug Chemistry (Sem. I to IV) (2019 Pattern)	510	10/05/2024	
	9. Bio-Chemistry (Sem. I to IV) (2019 Pattern)	510	10/05/2024	
	10. Statistics (Sem. I to IV) (2019 Pattern)	510	10/05/2024	
17.	M.Sc. Biotechnology (Sem. I to IV) (2019 Pattern)	1360	10/05/2024	
18.	M.Sc.(Comp. Sci.) (Sem. I to IV) (2019 Pattern)	1360	10/05/2024	
19.	M.A./M.Sc. Mathematics /Geography (Sem. I to IV) (2019 Patt.)	510	10/05/2024	
20.	M.Sc. Computer Application (2019, 2020 Patt) (Sem. I to IV)	1360	10/05/2024	
21.	M.Sc. (Ind. Math's with Comp. Application) (Sem. I to V) (2019 Patt.)	1360	10/05/2024	
22.	M.Sc. All (2023 Pattern)	1360	10/05/2024	

Note : Detail actual timetable will be displayed prior to the commencement of examinations.

Exam/Coordination/ 87

Director

Board of Examinations & Evaluation

Date : 05/03/2024

SAVITRIBAI PHULE PUNE UNIVERSITY
(Formerly University of Pune)



TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN FIRST HALF OF THE YEAR 2024

Examination Circular No. 08

FACULTY OF SCIENCE AND TECHNOLOGY

(B) ENGINEERING

Sr. No	Name of the Examination	Examination fee(Rs.) per Sem./Part/Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	F.E. (2015 Pattern) Including Credit Pattern	680	15/05/2024	
2.	F.E. (2019 Pattern) Including Credit Pattern	680	15/05/2024	
3.	S.E. (2015 Pattern) Including Credit System	680	15/05/2024	
4.	S.E. (2019 Pattern) Including Credit System	680	15/05/2024	
5.	T.E. (2015 Pattern) Including Credit System	680	15/05/2024	
6.	T.E. (2019 Pattern) Including Credit System	680	15/05/2024	
7.	B.E. (2015 Pattern) Including Credit System	680+510 For Project	05/05/2024	
8.	B.E. (2019 Pattern) Including Credit System	680+510 For Project	05/05/2024	
9.	M.E. (2017 Pattern) Including Credit System (Sem. II to IV)	2040+510 For Project Report	15/05/2024	
10.	M.E. (Ist Year) (Sem. I) (2017 Pattern)	2040	15/05/2024	
11.	M.C.A. (Ist year) (2019 & 2020 Pattern)	2040	15/05/2024	
12.	M.C.A. (IInd year) (2019 & 2020 Pattern)	2040Project fee Rs.510/- for Sem.VI	15/05/2024	
13.	B. Arch. (2015 Pattern) and 2019 Pattern) (Sem V to VI)	680	13/05/2024	
14.	Second Year and Fourth year B. Arch (2019 Pattern)	680	20/05/2024	
15.	First Year B. Arch (2019 Pattern)	680	10/06/2024	

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Exam/Coordination/ 87

Date : 05/03/2024

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TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN FIRST HALF OF THE YEAR 2024

Examination Circular No. 08

FACULTY OF SCIENCE AND TECHNOLOGY

(C) PHARMACEUTICAL SCIENCE

Sr. No	Name of the Examination	Examination fee(Rs.) per Sem./Part/Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1	F.Y., S. Y. Pharm D. (2019 Pattern)	1250	07/05/2024	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
2	F.Y. B. Pharmacy (2019 Pattern)	1020	07/05/2024	
3	S.Y. B. Pharmacy (2019 Pattern)	1020	28/05/2024	
4	T.Y. B. Pharmacy (2019 Pattern)	1020	14/05/2024	
5	Final Year B. Pharmacy (2019 Pattern)	1020	14/05/2024	
6	M. Pharmacy (Sem. I &II) (2019 Pattern)	1360+510 (Project)	11/06/2024	

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Date : 05 /03/2024

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TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN FIRST HALF OF THE YEAR 2024

Examination Circular No. 08

FACULTY OF COMMERCE AND MANAGEMENT

(A) COMMERCE

Sr. No.	Name of the Examination	Examination fee (Rs.) per Sem./Part/Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	F.Y.B.Com.	340	08/04/2024	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
2.	S.Y.B.Com.(Sem III to IV) (2019 Pattern) (Including Regular & Vocational) Choice Based Credit System	340	23/04/2024	
3.	T.Y. B.Com. (Sem V&VI) (2019 Pattern)(Including Regular & Vocational) Choice Based Credit System	340	23/04/2024	
4.	B.B.A.(I.B.)(Sem III to VI)(2019 Pattern) Choice Based Credit System	1350	23/04/2024	
5.	B.B.A. (Sem III to VI) (2019 Pattern) Choice Based Credit System	1350+520 For project report	23/04/2024	
6.	B.C.A. (Sem. III to VI) (2019 Pattern)Choice Based Credit System B.B.A.(Computer Application)	1350+520 For project report	23/04/2024	
7.	M.Com.(Sem.I to IV) Choice Based Credit System. (2019 Pattern) and M.Com 2023 Pattern Sem I & II	520+340 Project	10/05/2024	
8.	P.G Diploma In Banking, Finance & Insurance	340	15/04/2024	
9.	P.G Diploma In Taxation	340	15/04/2024	
10.	P.G. Diploma In International Business	340	15/04/2024	

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TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN FIRST HALF OF THE YEAR 2024

Examination Circular No. 08

FACULTY OF COMMERCE AND MANAGEMENT

(A) MANAGEMENT

Sr. No.	Name of the Examination	Examination fee (Rs.) per Sem./Part/ Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	M.B.A. (All) (Sem III & IV)	1360+510 For project report	14/05/2024	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
2.	M.B.A. 2019 Pattern (revised), M.B.A (All 2021 Pattern), M.B.A (HRD & IT) 2020 Pattern (Sem I & II)	1360+510 For project report	08/05/2024	
3.	M.C.A. (2020 Pattern) (Sem III & IV)	1360+510 For project report	03/05/2024	
4.	M.C.A. (2019 Pattern) (Sem. I to VI)	1360+510 For project report	03/05/2024	
5.	M.C.A. (2020 Pattern) (Sem. I & II)	1360+510 For project report	03/05/2024	
6.	B.H.M.C.T. (2019 Pattern) (Sem. I to II)	1360+510 For project report	03/05/2024	
7.	B.H.M.C.T. (2019 Pattern) (Sem. III to VIII)	1360+510 For project report	03/05/2024	
8.	P.G.D.H.M. (Sem. I & II) (2019 Pattern)	850+510 For Project Report	03/05/2024	
9.	P.G.D.C.M. (Sem. I & II) (2022 Pattern)	850	03/05/2024	

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Date : 05 /03/2024

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TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN FIRST HALF OF THE YEAR 2024

Examination Circular No. 08

FACULTY OF HUMANITIES

(A) ARTS

Sr. No.	Name of the Examination	Examination fee (Rs.) per Sem./Part/ Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	F.Y.B.A.	340	08/04/2024	As per MPUA
2.	S.Y./T.Y.B.A. (Sem I to VI) (2019 Pattern) Choice Based Credit System(Including Vocational)	340	23/04/2024	2016 Sec. 89 within 30 days from last day of Examination
3.	M.A. (2019 Pattern)(Sem. I to IV) & (2023 Pattern) (Sem. I & II) Choice Based Credit System	510	10/05/2024	

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TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN FIRST HALF OF THE YEAR 2024

Examination Circular No. 08

FACULTY OF HUMANITIES

(B) LAW

Sr. No.	Name of the Examination	Examination fee (Rs.) per Sem./Part/ Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	First Year LL.B.& B.A.LL.B.(2017 Pattern)	680	04/06/2024	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
2.	Second Year LL.B.& B.A.LL.B.(2017 Pattern)	680	04/06/2024	
3.	Third Year LL.B.& B.A.LL.B (2017 Pattern)	680	04/06/2024	
4.	Fourth/Fifth Year B. A.LL.B.(2017 Pattern)	680	04/06/2024	
5.	LL.M. (Sem. III & IV) (2014 Pattern)Including Credit System	680	04/06/2024	
6.	LL.M. (Sem. I & II) (2014 Pattern)Including Credit System	680	04/06/2024	
7.	Diploma in L. L. & L. W.	510	15/04/2024	
8.	Diploma in Cyber Laws	510	15/04/2024	
9.	Diploma in Intellectual Property Rights Laws	510	15/04/2024	
10.	Certificate Course in Forensic & Medical Jurisprudence	510	15/04/2024	
11.	Diploma in Taxation Law (2018 Patt)	510	15/04/2024	

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Date : 05/03/2024

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SAVITRIBAI PHULE PUNE UNIVERSITY
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TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN SECOND HALF OF THE YEAR 2023

Examination Circular No. **257**

FACULTY OF SCIENCE AND TECHNOLOGY

(A) SCIENCE

Sr. No.	Name of the Examination	Examination fee (Rs.) per Sem./Part/ Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	S.Y./T.Y.B.Sc.(Sem I to VI) (2019 Pattern) (C.B.C.S.) (Including Vocational)	510	01/12/2023	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
2.	S.Y./T.Y. B.Sc. Computer Science (Sem I to VI) (2019 Pattern) (C.B.C.S.)	510	01/12/2023	
3.	S.Y. /T.Y. B.Sc. (Biotechnology) (Sem I to VI) (2019 Pattern) (C.B.C.S.)	510	01/12/2023	
4.	S.Y./T.Y.B.C.A. (Sem. I to VI) (2019Pattern) (C.B.C.S.)	1350	01/12/2023	
5.	S.Y. /T.Y.B.Sc. (Hospitality Studies)(Sem I to VI) (2019 Pattern)(C.B.C.S.)	1275	01/12/2023	
6.	S.Y/T.Y.B.Sc. Animation (Sem. I to IV) (2021 Pattern) (C.B.C.S.) & S.Y./T.Y.B.Sc. Animation (Sem I to IV) (2015 Pattern)	1275	01/12/2023	
7.	S.Y. Cyber & Digital Science (Sem I to III)	1350	01/12/2023	
8.	M.Sc (C.B.C.S.)	510	12/12/2023	
	1. Physics (Sem. I to IV 2019, 2020 Pattern)			
	2. Chemistry (All) (Sem. I to IV)(2019 Patt.)	510	12/12/2023	
	3. Zoology (Sem. I to IV) (2019 Pattern)	510	12/12/2023	
	4. Microbiology (Sem.I to IV)(2019 Patt.)	510	12/12/2023	
	5. Botany (Sem. I to IV)(2019 Pattern)	510	12/12/2023	
	6. Environmental Science(Sem. I to IV)(2019 Pattern)	510	12/12/2023	
	7. Electronics Science(Sem. I to IV)(2019 Pattern)	510	12/12/2023	
	8. Drug Chemistry(Sem. I to IV)(2019 Pattern)	510	12/12/2023	
	9. Bio-Chemistry (Sem. I to IV)(2019 Pattern)	510	12/12/2023	
	10. Statistics (Sem. I to IV) (2019 Pattern)	510	12/12/2023	
9.	M .Sc. Biotechnology (Sem. I to IV)(2019 Pattern)	1360	12/12/2023	
10.	M.Sc.(Comp. Sci.)(Sem. I to IV) (2019 Pattern)	1360	12/12/2023	
11.	M.A./M.Sc. Mathematics /Geography(Sem. I to IV) (2019 Pattern)	510	12/12/2023	
12.	M.Sc. Computer Application (2019, 2020 Pattern Sem. I to IV)	1360	12/12/2023	
13.	M.Sc. (Ind. Math's with Comp. Application) (Sem. I to V) (2019 Pattern)	1360	12/12/2023	
14.	M.Sc. All 2023 Patt Sem I	1360	12/12/2023	

Note : Detail actual timetable will be displayed prior to the commencement of examinations.

Exam/Coordination/953

Date :25/10/2023

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SAVITRIBAI PHULE PUNE UNIVERSITY
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TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN SECOND HALF OF THE YEAR 2023

Examination Circular No. 297

FACULTY OF SCIENCE AND TECHNOLOGY

(B) ENGINEERING

Sr. No	Name of the Examination	Examination fee(Rs.) per Sem./Part/Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	F.E. (2015 Pattern) Including Credit Pattern	680	26/12/2023	
2.	F.E. (2019 Pattern) Including Credit Pattern	680	26/12/2023	
3.	S.E. (2015 Pattern) Including Credit System	680	30/11/2023	
4.	S.E. (2019 Pattern) Including Credit System	680	30/11/2023	
5.	T.E. (2015 Pattern) Including Credit System	680	29/11/2023	
6.	T.E. (2019 Pattern) Including Credit System	680	29/11/2023	
7.	B.E. (2015 Pattern) Including Credit System	680+510 For Project	29/11/2023	
8.	B.E. (2019 Pattern) Including Credit System	680+510 For Project	29/11/2023	
9.	M.E. (2017 Pattern) Including Credit System (Sem. II to IV)	2040+510 For Project Report	26/12/2023	
10.	M.E. (1st Year) (Sem. I) (2017 Pattern)	2040	26/12/2023	
11.	M.C.A. (Sem. I to V) (2019 Pattern)	2040	28/11/2023	
12.	M.C.A. (Sem. I, II & III) (2020 Pattern)	2040	28/11/2023	
13.	M.C.A. (Sem VI, 2019 Patt) (Sem IV, 2020 Patt)	2040 Project fee Rs.510/- for Sem.VI	----	
14.	B. Arch. (2015 Pattern)(Sem III to V) and (2019 Pattern)(Sem III to VII)	680	28/11/2023	
15.	Second Year B.Arch (2019 Pattern)	680	05/12/2023	
16.	First Year B.Arch (2019 Pattern)	680	22/01/2024	

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Date :25/10/2023


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SAVITRIBAI PHULE PUNE UNIVERSITY
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TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN SECOND HALF OF THE YEAR 2023

Examination Circular No. **297**

FACULTY OF SCIENCE AND TECHNOLOGY

(C) PHARMACEUTICAL SCIENCE

Sr. No	Name of the Examination	Examination fee(Rs.) per Sem./Part/Year/ Term	Date of Commence-ment of Examination	Probable Date of Declaration of Result
1	Pharm D. (2019 Pattern)	1250	21/11/2023	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
2	F.Y./S.Y./T.Y. /Final Year B. Pharmacy (2018 Pattern)	1020	21/11/2023	
3	T.Y. /Final Year B. Pharmacy (2015 Pattern)	1020	21/11/2023	
4	F.Y. B. Pharmacy (2019 Pattern)	1020	02/01/2024	
5	S.Y. B. Pharmacy (2019 Pattern)	1020	02/01/2024	
6	T.Y./Final Year B. Pharmacy (2015 Pattern)	1020	21/11/2023	
7	M. Pharmacy (Sem. I & II) (2019 Pattern)	1360+510 (Project)	10/01/2024	

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Exam/Coordination/**953**

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TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN SECOND HALF OF THE YEAR 2023

Examination Circular No. 297

FACULTY OF COMMERCE AND MANAGEMENT

(A) COMMERCE

Sr. No.	Name of the Examination	Examination fee (Rs.) per Sem./Part/Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	S.Y.B.Com.(Sem III to IV) (2019 Pattern) (Including Regular & Vocational) Choice Based Credit System	340	01/12/2023	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
2.	T.Y. B.Com. (Sem V &VI) (2019 Pattern) (Including Regular & Vocational) Choice Based Credit System	340	01/12/2023	
3.	B.B.A.(I.B.)(Sem III to VI)(2019 Pattern) Choice Based Credit System	1350	01/12/2023	
4.	B.B.A. (Sem III to VI) (2019 Pattern) Choice Based Credit System	1350+520 For project report	01/12/2023	
5.	B.C.A. (Sem. III to VI) (2019 Pattern)Choice Based Credit System B.B.A.(Computer Application)	1350+520 For project report	01/12/2023	
6.	M.Com.(Sem.I to IV) Choice Based Credit System. (2019 Pattern) and M.Com 2023 Pattern	520+340 Project	12/12/2023	

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Examination Circular No. 297

FACULTY OF COMMERCE AND MANAGEMENT

(B) MANAGEMENT

Sr. No.	Name of the Examination	Examination fee (Rs.) per Sem./Part/Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	M.B.A. (All) (Sem III & IV)	1360+510 For project report	01/01/2024	
2.	M.B.A. 2019 Pattern (revised), M.B.A (All 2021 Pattern), M.B.A (HRD & IT) 2020 Pattern (Sem I & II)	1360+510 For project report	11/12/2023	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
3.	M.C.A. (2020 Pattern) (Sem III & IV)	1360+510 For project report	21/11/2023	
4.	M.C.A.(2019 Pattern) (Sem. I to VI)	1360+510 For project report	21/11/2023	
5.	M.C.A. (2020 Pattern) (Sem. I & II)	1360+510 For project report	04/12/2023	
6.	B.H.M.C.T. (2019 Pattern)(Sem. I to VIII)	1360+510 For project report	04/12/2023	

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TENTATIVE SCHEDULE OF EXAMINATIONS TO BE HELD IN SECOND HALF OF THE YEAR 2023

Examination Circular No. 297

FACULTY OF HUMANITIES

(A) ARTS

Sr. No.	Name of the Examination	Examination fee (Rs.) per Sem./Part/Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	S.Y./T.Y.B.A.(Sem I to VI) (2019 Pattern) Choice Based Credit System (Including Vocational)	340	01/12/2023	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
2.	M.A. (2019 Pattern) (Sem. I to IV) and (2023 Pattern) (Sem.I) Choice Based Credit System	510	12/12/2023	

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Examination Circular No. 297

FACULTY OF HUMANITIES

(B) LAW

Sr. No.	Name of the Examination	Examination fee (Rs.) per Sem./Part/Year/ Term	Date of Commencement of Examination	Probable Date of Declaration of Result
1.	Second Year LL.B. & B.A.LL.B. (2017 Pattern)	680	12/01/2024	As per MPUA 2016 Sec. 89 within 30 days from last day of Examination
2.	Third Year LL.B. & B.A.LL.B (2017 Pattern)	680	02/01/2024	
3.	Fourth/Fifth Year B. A.LL.B. (2017 Pattern)	680	21/11/2023	
4.	LL.M. (Sem. III & IV) (2014 Pattern) Including Credit System	680	30/11/2023	
5.	LL.M. (Sem. I & II) (2014 Pattern) Including Credit System	680	02/01/2024	

Note : Detail actual timetable will be displayed prior to the commencement of examinations.

Exam/Coordination/353

Date : 25/10/2023

Director

Board of Examinations & Evaluation

SAVITRIBAI PHULE PUNE UNIVERSITY
(Formerly University of Pune)



**TENTATIVE SCHEDULE OF EXAMINATIONS OF PRACTICAL & ORAL (INCLUDING CREDIT SYSTEM)
(EXAMINATION TO BE HELD IN FIRST HALF OF THE YEAR 2024)**

Sr. No.	Name of the Examination Practical/ Oral/Viva-voce	Date of the Practical / oral/Viva-voce Exam
1.	F.Y. B.A.	01 Apr to 07 Apr 2024 (College level)
2.	S.Y./T.Y. B.A.	15 Apr to 22 Apr 2024 (College level)
3.	M.A. /M.SC.	02 May to 07 May 2024
4.	F.Y. B.Sc.(Including Vocational), F.Y. B.Sc. (Computer Science) F.Y. B.Sc. (Biotechnology) F.Y. B.Sc. (Animation) F.Y. B.Sc. (Hospitality Studies) (Science) F.Y. B. C.A. (Science Faculty)	01 Apr to 07 Apr 2024 (College level)
5.	S.Y. B.Sc. (All)	23 Apr to 30 Apr 2024
6.	T.Y. B.Sc. (All)	15 Apr to 22 Apr 2024
7.	M.Sc. (Biotechnology) (Practical) M.Sc. (All Subjects) , M.Sc. (Tech.), M. Sc (Computer Science) / M.C.S. & M.C.A.	02 May to 07 May 2024
8.	F.Y.B.Com/ F.Y. B.B.A. (All)	01 Apr to 07 Apr 2024 (College level)
9.	S.Y. / T.Y.B.Com. (Including Vocational)	15 Apr to 22 Apr 2024 (College level)
10.	B.B.A.(I.B.) & B.B.A. (C.A.) S.Y./T.Y.	15 Apr to 22 Apr 2024 (College level)
11.	M.Com.	02 May to 07 May 2024
12.	B. Ed Moderation	13 May to 22 May 2024
13.	M.Ed. viva	02 May to 08 May 2024
14.	M.Ed. Moderation	13 May to 15 May 2024
15.	LL.B. /B.A. L.L.B.	02 May to 13 May 2024
16.	Diploma (Law)	05 Apr to 13 Apr 2024
17.	M.B.A. (All Patt.) & M.C.A . Project viva/Practical/ Project/ Mini project.	After Theory exam within 8 days.
18.	F.E./ S.E./T.E./B.E. Insem	20 Mar to 30 Mar 2024
19.	M.E. (Practical)	02 May to 12 May 2024
20.	T.E., S.E. (Oral/Project/Practical)	02 May to 12 May 2024
21.	B.E. (Oral/Project/Practical)	23 Apr to 03 May 2024
22.	B. Architecture Sessional Exam / Viva – voce - First Year	03 Jun to 06 Jun 2024
23.	Sessional Viva (2 nd year to 5 th year)	06 May to 10 May 2024
24.	B. Arch. Final year project	06 May to 18 May 2024
25.	B. Pharmacy - Third year and Final Year	06 May to 11 May 2024
26.	B. Pharmacy - First year and Second year	After Theory exam within 8 days.
27.	M. Pharmacy	After Theory exam within 8 days.
28.	Pharm D.	After Theory exam within 8 days.

Exam/Coordination/87

Date : 05/03/2024

Director

Board of Examinations & Evaluation

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 283 OF. 2023

SECOND YEAR ENGINEERING (2019 PATTERN)

INSEM-EXAMINATION TIMETABLE SEPT/OCT - 2023

(Under Faculty of SCIENCE AND TECHNOLOGY: B) ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

1. Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
2. Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
3. Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
4. No request shall be granted for change in time or date for the University Examination on any ground.
5. Candidates are requested to note the Day, Date and Time of Paper.
6. Candidates are permitted to use stencils at the time of examination.
7. The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
8. Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile are not allowed at the time of examination.
9. The written examination will be conducted in the following order.

CIVIL ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	201001	Building Technology and Architectural Planning
Tuesday 10-10-2023	201002	Mechanics of structure
Wednesday 11-10-2023	201003	Fluid Mechanics
Thursday 12-10-2023	207001	Engineering Mathematics III
Friday 13-10-2023	207009	Engineering Geology

ELECTRICAL ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	203141	Power Generation Technologies
Tuesday 10-10-2023	203142	Material Science
Wednesday 11-10-2023	203143	Analog and Digital Electronics
Thursday 12-10-2023	203144	Electrical Measurement & Instrumentation
Friday 13-10-2023	207006	Engineering Mathematics -III

**ELECTRONICS / ELECTRONICS & TELECOMMUNICATION
ENGINEERING**

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	207005	Engineering Mathematics III *
Tuesday 10-10-2023	204181	Electronic Circuits
Wednesday 11-10-2023	204182	Digital Circuits*
Thursday 12-10-2023	204183	Electrical Circuits
Friday 13-10-2023	204184	Data structures

* Common with Electronics & Computer Engineering

ELECTRONICS & COMPUTER ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	207005	Engineering Mathematics III *
Tuesday 10-10-2023	204202	Electronic Circuits
Wednesday 11-10-2023	204182	Digital Circuits *
Thursday 12-10-2023	204184	Data structures & Algorithms
Friday 13-10-2023	204203	Computer Organization

* Common with Electronics / Electronics & Telecommunication Engineering

COMPUTER ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	210241	Discrete Mathematics # *
Tuesday 10-10-2023	210242	Fundamentals of Data Structures *
Wednesday 11-10-2023	210243	Object Oriented Programming (OOP) # *
Thursday 12-10-2023	210244	Computer Graphics # *
Friday 13-10-2023	210245	Digital Electronics and Logic Design

Common with COMPUTER SCIENCE & DESIGN ENGINEERING

* Common with ARTIFICIAL INTELLIGENCE & DATA SCIENCE ENGINEERING

ARTIFICIAL INTELLIGENCE & DATA SCIENCE ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	210241	Discrete Mathematics *
Tuesday 10-10-2023	210242	Fundamentals of Data Structures *
Wednesday 11-10-2023	210243	Object Oriented Programming *
Thursday 12-10-2023	210244	Computer Graphics *
Friday 13-10-2023	217521	Operating Systems

* Common with Computer Engineering

COMPUTER SCIENCE & DESIGN ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	210241	Discrete Mathematics #
Tuesday 10-10-2023	218242	Data Structure And Algorithms
Wednesday 11-10-2023	210243	Object Oriented Programming (OOP) #
Thursday 12-10-2023	210244	Computer Graphics #
Friday 13-10-2023	218245	Logic Design and Computer Architecture

Common with Computer Engineering

INFORMATION TECHNOLOGY ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	214441	Discrete Mathematics
Tuesday 10-10-2023	214442	Logic Design and Computer Organization
Wednesday 11-10-2023	214443	Data Structures and Algorithms
Thursday 12-10-2023	214444	Object Oriented Programming
Friday 13-10-2023	214445	Basic of Computer Network

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	218541	Discrete Mathematics
Tuesday 10-10-2023	218542	Data Structures & Algorithms
Wednesday 11-10-2023	218543	Computer Networks
Thursday 12-10-2023	218544	Object Oriented Programming
Friday 13-10-2023	218545	Software Engineering

B.TECH. BIOTECHNOLOGY

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	207004	Engineering Mathematics III *
Tuesday 10-10-2023	215461	Biochemistry I
Wednesday 11-10-2023	215462	Fluid Flow & Unit Operations
Thursday 12-10-2023	215463	Heat transfer
Friday 13-10-2023	215464	Microbiology

* Common with Printing & Chemical Engineering

CHEMICAL ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	207004	Engineering Mathematics -III *
Tuesday 10-10-2023	209341	Industrial Chemistry I
Wednesday 11-10-2023	209342	Fluid Mechanics
Thursday 12-10-2023	209343	Engineering Materials
Friday 13-10-2023	209344	Process Calculations

* Common with B.Tech. Biotechnology & Printing Engineering

PRINTING ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	207004	Engineering Mathematics III *
Tuesday 10-10-2023	202060	Theory of Printing Machine and M/c. Components
Wednesday 11-10-2023	208281	Introduction to Printing Processes
Thursday 12-10-2023	208282	Material Science in Printing and Packaging
Friday 13-10-2023	208283	Printing Digital Electronics

* Common with B.Tech. Biotechnology & Chemical Engineering

PRODUCTION ENGINEERING AND INDUSTRIAL ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	207007	Engineering Mathematics -III *
Tuesday 10-10-2023	211081	Heat and Fluid Engineering *
Wednesday 11-10-2023	211082	Strength of Materials *
Thursday 12-10-2023	211083	Manufacturing Processes -I *
Friday 13-10-2023	211084	Materials Science and Metallurgy *

* Common with Production Engineering (Sandwich)

PRODUCTION ENGINEERING (SANDWICH)

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	207007	Engineering Mathematics -III *
Tuesday 10-10-2023	211081	Heat and Fluid Engineering *
Wednesday 11-10-2023	211082	Strength of Materials *
Thursday 12-10-2023	211083	Manufacturing Processes -I *
Friday 13-10-2023	211084	Materials Science and Metallurgy *

* Common with Production Engineering

ROBOTICS & AUTOMATION(RA) ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	207007	Engineering Mathematics-III *
Tuesday 10-10-2023	211501	Industrial Electronics and Electrical Technology
Wednesday 11-10-2023	211082	Strength of Materials
Thursday 12-10-2023	211502	Manufacturing Technology
Friday 13-10-2023	211503	Materials Science and Engineering Metallurgy

Common with Production Engineering

AUTOMOBILE & MECHANICAL ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	202041	Solid Mechanics *
Tuesday 10-10-2023	202042	Solid Modeling and Drafting *
Wednesday 11-10-2023	202043	Engineering Thermodynamics *
Thursday 12-10-2023	202044	Engineering Materials and Metallurgy *
Friday 13-10-2023	203156	Electrical and Electronics Engineering *

* Common with Mechanical Sandwich Engineering

MECHANICAL SANDWICH ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	202041	Solid Mechanics *
Tuesday 10-10-2023	202042	Solid Modeling and Drafting *
Wednesday 11-10-2023	202043	Engineering Thermodynamics *
Thursday 12-10-2023	202044	Engineering Materials and Metallurgy *
Friday 13-10-2023	203156	Electrical and Electronics Engineering *

* Common with Automobile & Mechanical Engineering

AUTOMATION & ROBOTICS ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	202041	Solid Mechanics *
Tuesday 10-10-2023	202042	Solid Modeling and Drafting *
Wednesday 11-10-2023	202521	Electrical Technology
Thursday 12-10-2023	202044	Engineering Materials and Metallurgy *
Friday 13-10-2023	202522	Industrial Electronics

* Common with Automobile & Mechanical Engineering

MECHATRONICS ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	207002	Engineering Mathematics -III
Tuesday 10-10-2023	217542	Heat and Mass Transfer
Wednesday 11-10-2023	217543	Digital Electronics
Thursday 12-10-2023	217544	Analysis of Mechanical Structure
Friday 13-10-2023	217541	Engineering Material

INSTRUMENTATION ENGINEERING

SEMESTER - III

Time:- 11.00 AM To 12.00 NOON

Day & Date	Paper Code	Subject
Monday 09-10-2023	206261	Sensors and Transducers
Tuesday 10-10-2023	206262	Linear Integrated Circuits
Wednesday 11-10-2023	206263	Electrical Measurements & Instrumentation
Thursday 12-10-2023	206264	Control System Components
Friday 13-10-2023	207008	Engineering Mathematics III

Ganeshkhind, Pune - 411 007

Ref.No/XCT :- 909

Date: 25 / 09 / 2023

Director,
Board of Examinations and Evaluation

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 382 OF. 2023

THIRD YEAR ENGINEERING (2019 PATTERN)

Endsem Examination of Nov / Dec - 2023

(Under Faculty of SCIENCE AND TECHNOLOGY: B)ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
- Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
- Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
- No request shall be granted for change in time or date for the University Examination on any ground.
- Candidates are requested to note the Day, Date and Time of Paper.
- Candidates are permitted to use stencils at the time of examination.
- The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
- Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile are not allowed at the time of examination.
- The written examination will be conducted in the following order.

CIVIL

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Hydrology and Water Resources Engineering (301001)
Friday 01/12/2023	Water Supply Engineering (301002)
Monday 04/12/2023	Design of Steel Structures (301003) # (Time : 10:00 AM To 01:00 PM)
Wednesday 06/12/2023	Engineering Economics and Financial Management (301004)
Saturday 09/12/2023	ELECTIVE-I Advanced Fluid Mechanics and Hydraulic Machines (301005 a)
	ELECTIVE-I Research Methodology and IPR (301005 b)
	ELECTIVE-I Construction Management. (301005 c)
	ELECTIVE-I Advanced Concrete Technology (301005 d)
	ELECTIVE-I Matrix Methods of Structural Analysis (301005 e)
	ELECTIVE-I Advanced Mechanics of Structures (301005 f)

Note : - # Please Note the time

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Waste Water Engineering (301012)
Wednesday 13/12/2023	Design of RC Structures (301013) # (Time : 10:00 AM To 01:00 PM)
Thursday 14/12/2023	Remote Sensing and GIS (301014)
Friday 15/12/2023	ELECTIVE-II Advanced Engineering Geology with Rock Mechanics (301015 a)
	ELECTIVE-II Soft Computing Techniques (301015 b)
	ELECTIVE-II Advanced Surveying. (301015 c)
	ELECTIVE-II Advanced Geotechnical Engineering (301015 d)
	ELECTIVE-II Architecture and Town Planning (301015 e)
	ELECTIVE-II Solid Waste Management (301015 f)

Note : - # Please Note the time

CHEMICAL

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Mass Transfer-I (309341)
Friday 01/12/2023	Chemical Technology -II (309342)
Monday 04/12/2023	Chemical Engineering Mathematics (309343)
Wednesday 06/12/2023	Chemical Engineering Thermodynamics (309344)
Saturday 09/12/2023	ELECTIVE-I Chemical Industry Management (309345A)
	ELECTIVE-I Food Technology (309345 B)
	ELECTIVE-I Polymer Engineering (309345 C)
	ELECTIVE-I Downstream Processing (309345 D)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Chemical Reaction Engineering I (309348)
Wednesday 13/12/2023	Mass Transfer II (309349)
Thursday 14/12/2023	Transport Phenomena (309350)
Friday 15/12/2023	ELECTIVE-II Energy Conservation in Chemical Process Industries (309351 A)
	ELECTIVE-II Process Instrumentation and Control (309351 B)
	ELECTIVE-II Corrosion Engineering (309351 C)
	ELECTIVE-II Artificial intelligence and Data Science (309351 D)

COMPUTER

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Database Management Systems (310241) *
Friday 01/12/2023	Theory of Computation (310242)
Monday 04/12/2023	Systems Programming and Operating System (310243)
Wednesday 06/12/2023	Computer Networks and Security (310244)
Saturday 09/12/2023	ELECTIVE-I Internet of Things and Embedded Systems (310245 A)
	ELECTIVE-I Human Computer Interface (310245 B) *
	ELECTIVE-I Distributed Systems (310245 C)
	ELECTIVE-I Software Project Management (310245 D)

Note :- * Common with A.I.D.S.

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Data Science and Big Data Analytics (310251)
Wednesday 13/12/2023	Web Technology (310252)
Thursday 14/12/2023	Artificial Intelligence (310253)
Friday 15/12/2023	ELECTIVE-II Information Security (310254 A)
	ELECTIVE-II Augmented and Virtual Reality (310254 B)
	ELECTIVE-II Cloud Computing (310254 C) *
	ELECTIVE-II Software Modeling and Architectures (310254 D)*

Note :- * Common with A.I.D.S.

Artificial Intelligence and Data Science

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Data Base Management System (310241) *
Friday 01/12/2023	Computer Networks (317521)
Monday 04/12/2023	Web Technology (310252)
Wednesday 06/12/2023	Artificial Intelligence (310253)
Saturday 09/12/2023	ELECTIVE-I Embedded Systems & Security (317522 A)
	ELECTIVE-I Design Thinking (314445 C)
	ELECTIVE-I Pattern Recognition (317522 B)
	ELECTIVE-I Human Computer Interface (310245 B) *

Note :- * Common with Computer Engineering

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Data Science (317529)
Wednesday 13/12/2023	Cyber security (317530)
Thursday 14/12/2023	Artificial Neural Network (317531)
Friday 15/12/2023	ELECTIVE-II Robotics and Automation (317532 A)
	ELECTIVE-II Natural Language Processing (317532B)
	ELECTIVE-II Cloud Computing (310254 C) *
	ELECTIVE-II Software Modeling and Architecture (310254 D)*

Note :- * Common with Computer Engineering

ELECTRICAL

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Industrial and Technology Management (303141)
Friday 01/12/2023	Power Electronics (303142)
Monday 04/12/2023	Electrical Machines-II (303143)
Wednesday 06/12/2023	Electrical Installation Design and Condition Based Maintenance (303144)
Saturday 09/12/2023	ELECTIVE-I Advanced Microcontroller and Embedded System (303145 A)
	ELECTIVE-I Digital Signal Processing (303145 B)
	ELECTIVE-I Open Elective (303145 C)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Power System-II (303148)
Wednesday 13/12/2023	Computer Aided Design of Electrical Machines (303149)
Thursday 14/12/2023	Control System Engineering (303150)
Friday 15/12/2023	ELECTIVE-II IoT and its Applications in Electrical Engineering (303151 A)
	ELECTIVE-II Electrical Mobility (303151 B)
	ELECTIVE-II Cybernetic Engineering (303151 C)
	ELECTIVE-II Energy Management (303151 D)

ELECTRONICS

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Power and Industrial Electronics (304201)
Friday 01/12/2023	Electromagnetic Waves and Propagation Theory (304202)
Monday 04/12/2023	Database Management (304183) *
Wednesday 06/12/2023	Microcontrollers and Applications (304204)
Saturday 09/12/2023	ELECTIVE-I Instrumentation systems (304205)
	ELECTIVE-I Machine Learning (304205)
	ELECTIVE-I Fundamentals of JAVA Programming (304185) *
	ELECTIVE-I Data Communication (304205)
	ELECTIVE-I Computer Networks (304205)
Note :- * Common with E&TC	

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Fundamentals of HDL (304212)
Wednesday 13/12/2023	Embedded Processors and Applications (304213)
Thursday 14/12/2023	Industrial Management (304214)
Friday 15/12/2023	ELECTIVE-II PLC & Automation (304215)
	ELECTIVE-II Advanced JAVA Programming (304195) *
	ELECTIVE-II Digital Signal Processing (304215)
	ELECTIVE-II Fiber Optic Communication (304215)
	ELECTIVE-II e Mobility (304215)

Note : *Common with E&TC

ELECTRONICS & TELECOMMUNICATION

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Digital Communication (304181)
Friday 01/12/2023	Electromagnetic Field Theory (304182)
Monday 04/12/2023	Database Management (304183) *
Wednesday 06/12/2023	Microcontrollers (304184)
Saturday 09/12/2023	ELECTIVE-I Digital Signal Processing (304185)
	ELECTIVE-I Electronic Measurements (304185)
	ELECTIVE-I Fundamentals of JAVA Programming (304185) *
	ELECTIVE-I Computer Networks (304185)
Note :- * Common with Electronics	

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Cellular Networks (304192)
Wednesday 13/12/2023	Project Management (304193)
Thursday 14/12/2023	Power Devices & Circuits (304194)
Friday 15/12/2023	ELECTIVE-II Digital Image Processing (304195)
	ELECTIVE-II Sensors in Automation (304195)
	ELECTIVE-II Advanced JAVA Programming (304195) *
	ELECTIVE-II Embedded Processors (304195)
	ELECTIVE-II Network Security (304195)
Note :- * Common with Electronics	

Electronics and Computer Engineering

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Database Management Systems (310341)
Friday 01/12/2023	Advanced Java Programming (310342)
Monday 04/12/2023	Data Communication (310343)
Wednesday 06/12/2023	Microcontroller and Applications (310344)
Saturday 09/12/2023	ELECTIVE-I Distributed Systems (310345 A)
	ELECTIVE-I Block Chain Technology (310345 B)
	ELECTIVE-I Digital Signal Processing (310345 C)
	ELECTIVE-I Sensors and Applications (310345 D)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Software Engineering and Project Management (310352)
Wednesday 13/12/2023	Computer Networks and Security (310353)
Thursday 14/12/2023	Embedded Processors & Applications (310354)
Friday 15/12/2023	ELECTIVE-II Software Modeling and Design (310355 A)
	ELECTIVE-II Advanced Database Management Systems (310355 B)
	ELECTIVE-II Power Electronics (310355 C)
	ELECTIVE-II PLC and Automation (310355 D)

INFORMATION TECHNOLOGY

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Theory of Computation (314441)
Friday 01/12/2023	Operating Systems (314442)
Monday 04/12/2023	Machine Learning (314443)
Wednesday 06/12/2023	Human Computer Interaction (314444)
Saturday 09/12/2023	ELECTIVE-I Design and Analysis of Algorithm (314445 A)
	ELECTIVE-I Advanced Database and Management System (314445 B)
	ELECTIVE-I Design Thinking (314445 C)
	ELECTIVE-I Internet of Things (314445 D)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Computer Networks & Security (314451)
Wednesday 13/12/2023	Data Science and Big Data Analytics (314452)
Thursday 14/12/2023	Web Application Development (314464A)
Friday 15/12/2023	ELECTIVE-II Artificial Intelligence (314454 A)
	ELECTIVE-II Cyber Security (314454 B)
	ELECTIVE-II Cloud Computing (314454 C)
	ELECTIVE-II Software Modeling and Design (314454 D)

INSTRUMENTATION & CONTROL

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Embedded Systems (306261)
Friday 01/12/2023	Industrial Automation-I (306262)
Monday 04/12/2023	Modern Control Theory (306263)
Wednesday 06/12/2023	Operating System (306264)
Saturday 09/12/2023	ELECTIVE-I Mechatronics & Robotics (306265 A)
	ELECTIVE-I Data Science (306265 B)
	ELECTIVE-I Power Electronics (306265 C)
	ELECTIVE-I Bio-Medical Instrumentation (306265 D)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Internet of Things (306268)
Wednesday 13/12/2023	Industrial Automation-II (306269)
Thursday 14/12/2023	Digital Signal Processing (306270)
Friday 15/12/2023	ELECTIVE-II Building Automation (306271 A)
	ELECTIVE-II Machine Learning (306271 B)
	ELECTIVE-II Electrical Drives (306271 C)
	ELECTIVE-II Analytical Instrumentation (306271 D)

AUTOMOBILE

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Numerical & Optimization Methods (316481)
Friday 01/12/2023	Heat Transfer (316482)
Monday 04/12/2023	Design of Machine Components (316483)
Wednesday 06/12/2023	Automobile Electrical and Electronics (316484)
Saturday 09/12/2023	ELECTIVE-I Advanced Forming & Joining Processes (302045-A)*
	ELECTIVE-I Machining Science and Technology (302045-B)*

Note :- * Common with Mechanical

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Automotive Refrigeration and Air Conditioning (316485)
Wednesday 13/12/2023	Automotive Chassis and Transmission (316486)
Thursday 14/12/2023	Design of Engine Components (316487)
Friday 15/12/2023	ELECTIVE-II Automotive Aerodynamics and Body Engineering (316488-A)
	ELECTIVE-II Automotive Materials (316488-B)

MECHANICAL

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Numerical & Statistical Methods (302041) *
Friday 01/12/2023	Heat & Mass Transfer (302042) *
Monday 04/12/2023	Design of Machine Elements (302043) *
Wednesday 06/12/2023	Mechatronics (302044) *
Saturday 09/12/2023	ELECTIVE-I Advanced Forming & Joining Processes (302045-A) **
	ELECTIVE-I Machining Science & Technology (302045-B) **

NOTE:- * **Common to Mechanical Sandwich Engineering**
** **Common to Automobile Engineering**

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Artificial Intelligence & Machine Learning (302049)
Wednesday 13/12/2023	Computer Aided Engineering (302050)
Thursday 14/12/2023	Design of Transmission Systems (302051) # (Time : 10:00 AM To 01:00 PM)
Friday 15/12/2023	ELECTIVE-II Composite Materials (302052-A)
	ELECTIVE-II Surface Engineering (302052-B)

Note : - # Please Note the time

MECHANICAL-SANDWICH

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Numerical & Statistical Methods (302041) *
Friday 01/12/2023	Heat & Mass Transfer (302042) *
Monday 04/12/2023	Design of Machine Elements (302043) *
Wednesday 06/12/2023	Mechatronics (302044) *
Saturday 09/12/2023	Fundamentals of Computer Aided Engineering (302061)

NOTE:- * **Common to Mechanical Engineering**

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Process Planning & Tool Selection (Self-Study-I) (302066)
Wednesday 13/12/2023	Advanced Materials & Manufacturing (Self-Study-II) (302067)

Automation and Robotics

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Design of Robot Elements (302521)
Friday 01/12/2023	Robot Kinematics and Dynamics (302522)
Monday 04/12/2023	Computer Aided Engineering and Manufacturing (302523)
Wednesday 06/12/2023	Signal Processing and Conditioning (302524)
Saturday 09/12/2023	ELECTIVE-I Advanced Forming & Joining Processes (302525-A)
	ELECTIVE-I Optimization Techniques (302525-B)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Sensors and Vision Systems in Robots (302527)
Wednesday 13/12/2023	Artificial Intelligence in Robots (302528)
Thursday 14/12/2023	Modelling and Simulation (302529)
Friday 15/12/2023	ELECTIVE-II Machining Science and Technology (302530-A)
	ELECTIVE-II Maintenance and Safety Engineering (302530-B)

B. Tech. Biotechnology

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Analytical Techniques (315461)
Friday 01/12/2023	Material Balances and Stoichiometry (315462)
Monday 04/12/2023	Genetic Engineering (315463)
Wednesday 06/12/2023	Introduction to Immunology (315464)
Saturday 09/12/2023	ELECTIVE-I Enzyme Technology (315465 A)
	ELECTIVE-I Good Laboratory Practices and Good Manufacturing Practices (315465 B)
	ELECTIVE-I Agricultural Biotechnology (315465 C)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Fermentation Technology (315471)
Wednesday 13/12/2023	Mass Transfer (315472)
Thursday 14/12/2023	Bioseparation Engineering (315473)
Friday 15/12/2023	ELECTIVE-II Instrumentation and Process Control (315474 A)
	ELECTIVE-II Food Biotechnology (315474 B)
	ELECTIVE-II Data base management systems (315474 C)

Printing

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Print Statistics (308281)
Friday 01/12/2023	Offset Printing Techniques (308282)
Monday 04/12/2023	Color Science and Measurement (308283)
Wednesday 06/12/2023	Ink Technology (308284)
Saturday 09/12/2023	ELECTIVE-I Cyber Security (308286 A)
	ELECTIVE-I Wood, Glass and Metal Based Packaging (308286 B)
	ELECTIVE-I Engineering Ethics (308286 C)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Flexo Printing Techniques (308289)
Wednesday 13/12/2023	Color Management (308290)
Thursday 14/12/2023	Design of Experiments (308291)
Friday 15/12/2023	ELECTIVE-II Maintenance Management of Printing Machines (308293 A)
	ELECTIVE-II Basic Communication Systems and Electronic Instrumentation (308293 B)
	ELECTIVE-II E-Publishing (308293 C)

Production

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Engineering Metrology and Instrumentation (311081 A)
Friday 01/12/2023	Material Forming Technology (311082 A)
Monday 04/12/2023	Machining Science and Technology (311083 A)
Wednesday 06/12/2023	Kinematics and Design of Machines (311084 A)
Saturday 09/12/2023	ELECTIVE-I Finite Element Analysis (311085 A)-I
	ELECTIVE-I Advances in Manufacturing Processes (311085 A)-II
	ELECTIVE-I Mechatronics (311085 A)-III
	ELECTIVE-I Supply Chain Management (311085 A)-IV

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Production Tooling (311088 (A)
Wednesday 13/12/2023	Production and Operations Management (311089) (A)
Thursday 14/12/2023	Process Engineering and Resource Planning (311090 (A)
Friday 15/12/2023	ELECTIVE-II Product Design and Development (311091 A)-I
	ELECTIVE-II Nano Manufacturing (311091 A)-II
	ELECTIVE-II Statistics and Numerical Methods (311091 A)-III
	ELECTIVE-II Financial Management and Costing (311091 A)-IV

Production Sandwich

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Manufacturing Technology (Self Study) (311122)(A)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Kinematics and Design of Machines (311084 A)
Wednesday 13/12/2023	Material forming and Mould Design (311124 A)
Thursday 14/12/2023	Metrology & Quality Control (311125 A)
Friday 15/12/2023	Statistics and Numerical Optimization methods (311088 A)
Saturday 16/12/2023	ELECTIVE-II Advanced Materials (311126 A)-I
	ELECTIVE-II Costing and Cost Control (311126 A)-II
	ELECTIVE-II Advanced Joining Technology (311126 A)-III
	ELECTIVE-II World Class Manufacturing (311126 A)-IV

Mechatronics Engineering

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Machine Design (317541)
Friday 01/12/2023	Manufacturing Processes (317542)
Monday 04/12/2023	Control System (317543)
Wednesday 06/12/2023	Digital Signal Processing (317544)
Saturday 09/12/2023	Microcontrollers (317545)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Industrial Automation (317547)
Wednesday 13/12/2023	Electro-Mechanical System (317548)
Thursday 14/12/2023	Finite Element Analysis (317549)
Friday 15/12/2023	Embedded System Design (317550)
Saturday 16/12/2023	Artificial Intelligence & Machine Learning (317551)

Robotics and Automation Engineering

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Embedded systems in Robotics (311501 A)
Friday 01/12/2023	Hydraulics and Pneumatics (311502 A)
Monday 04/12/2023	Robot Kinematics and Dynamics (311503 A)
Wednesday 06/12/2023	Sensors Technology (311504 A)
Saturday 09/12/2023	ELECTIVE-I Statistics and Numerical Methods (311505 A)-I
	ELECTIVE-I Finite Element Analysis (311505 A)-II
	ELECTIVE-I Industrial Robotics and Material handling Systems (311505 A)-III
	ELECTIVE-I Intelligent Manufacturing System (311505 A)-IV

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Robot Programming (311508 A)
Wednesday 13/12/2023	Artificial Intelligence for Robotics (311509 A)
Thursday 14/12/2023	Flexible Manufacturing Systems (311510 A)
Friday 15/12/2023	ELECTIVE-II Micro-electro-mechanical Systems (311511A)-I
	ELECTIVE-II Humanoid Robots (311511 A)-II
	ELECTIVE-II Modeling and Simulation (311511 A)-III
	ELECTIVE-II Swarm Intelligence in Robotics (311511 A)-IV

Artificial Intelligence and Machine Learning

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Design and analysis of Algorithm (318541)
Friday 01/12/2023	IoT with Artificial Intelligence (318542)
Monday 04/12/2023	Web Technology (318543)
Wednesday 06/12/2023	Management & Entrepreneurship for IT Industry (318544)
Saturday 09/12/2023	ELECTIVE-I Robotics (318545 A)
	ELECTIVE-I Pattern Recognition (318545 B)
	ELECTIVE-I Information Security (318545 C)
	ELECTIVE-I Business Intelligence (318545 D)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Machine intelligence for Data Science (318552)
Wednesday 13/12/2023	Data Mining & Warehousing (318553)
Thursday 14/12/2023	Artificial Neural Network (318554)
Friday 15/12/2023	ELECTIVE-II Industrial Internet of Things (318555 A)
	ELECTIVE-II Brain computer interface (318555 B)
	ELECTIVE-II AI for cyber security (318555 C)
	ELECTIVE-II Video Analytics (318555 D)

Computer Science and Design

SEM-I

Day & Date	2021 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Software Engineering and Project Management (318241)
Friday 01/12/2023	Theory of Computation (318242)
Monday 04/12/2023	Database System Design (318243)
Wednesday 06/12/2023	Design and analysis of Algorithm (318244)
Saturday 09/12/2023	ELECTIVE-I Internet of Things (318245 A)
	ELECTIVE-I Pattern Recognition (318245 B)
	ELECTIVE-I Distributed Systems (318245 C)
	ELECTIVE-I Data Mining and warehousing (318245 D)

HONORS / MINORS

SEM-I

Day & Date	Honors / Minors	Time : Time : 10:00 AM To 12:30 PM
Monday 11/12/2023	Artificial Intelligence And Machine	Computational Statistics (310301)
	Cyber Security	Information and Cyber Security (310401)
	Data Science	Data Science and Visualization (310501)
	Internet of Things	Embedded Systems and Internet of Things (310601)
	Virtual Reality And Augmented Reality	Virtual Reality (310701)
	Systems Engineering	Foundations of systems & systems engineering (302041MJ)
	Energy Management in Utility Systems	Energy Management (302021MJ)
	Electric Vehicles	e-Vehicle Technology (302031MJ)
	3D Printing	Additive Manufacturing Technology (302011MJ)
	Robotics	Principles of Robotics (304181 HR)
	Block Chain Technology	Introduction to Block chain (304181 HBCT)
	Metro Construction	Surveying in Metro construction (301301)
	Architecture and Town Planning	Urban Housing and Infrastructure Planning (301401)
	Advanced Packaging Technology	Internet of Things (308211)

HONORS / MINORS

SEM-II

Day & Date	Honors / Minors	Time : 02:00 PM To 04:30 PM
Saturday 16/12/2023	Artificial Intelligence And Machine	Artificial Intelligence (310303)
	Cyber Security	Enterprise Architecture and Components (310403)
	Data Science	Statistics and Machine Learning (310503)
	Internet of Things	Internet of Things Architectures, Protocols and Systems Programming (310603)
	Virtual Reality And Augmented Reality	Augmented Reality (310703)
	Systems Engineering	Model Based Systems Engineering (302043MJ)
	Energy Management in Utility Systems	Energy Efficiency of Thermal Utilities (302023MJ)
	Electric Vehicles	e-Vehicle System Design (302033MJ)
	3D Printing	Design for Additive Manufacturing (302013MJ)
	Robotics	Robot Programming & Simulation (304183 HR)
	Block Chain Technology	Decentralize & Blockchain Technologies (304183 HBCT)
	Metro Construction	Planning and Quantity estimation for metro construction (301303)
	Architecture and Town Planning	Sustainable Architecture and Landscape Design (301403)
	Advanced Packaging Technology	Smart Packaging (308213)

Ganeshkhind, Pune - 411 007

Ref.No/ XCT/ 1086

Date: 08 / 11 / 2023

Director

Board of Examinations and Evaluation

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO.121 OF. 2023

BACHELOR OF ENGINEERING (2019 PATTERN)

Examination of INSEM MARCH/APRIL-2023

(Under Faculty of SCIENCE AND TECHNOLOGY: B)ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
- Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
- Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
- No request shall be granted for change in time or date for the University Examination on any ground.
- Candidates are requested to note the Day, Date and Time of Paper.
- Candidates are permitted to use stencils at the time of examination.
- The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
- Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile are not allowed at the time of examination.
- The written examination will be conducted in the following order.

B.E. AUTOMOBILE ENGINEERING

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Hybrid and Electric Vehicle	416489
Wednesday, 05/04/2023	Automotive System Design	416490
Thursday, 06/04/2023	(ELECTIVE - V) Alternative Fuels and Emission control	416491 A
	(ELECTIVE - V) Renewable Energy	416491 B
Saturday, 08/04/2023	(ELECTIVE - VI) Transport Management and Automobile Industry	416492 A
	(ELECTIVE - VI) Automotive Safety	416492 B
	(ELECTIVE - VI) Process Planning and Cost Estimation	416492 C

B.E. BIOTECHNOLOGY

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Bioprocess Modeling and Simulation	415471
Wednesday, 05/04/2023	Plant Engineering and Project costing	415472
Thursday, 06/04/2023	(ELECTIVE - V) Biomaterials	415473 A
	(ELECTIVE - V) Molecular diagnostics	415473 B
	(ELECTIVE - V) Bio-therapeutics Technology	415473 C
Saturday, 08/04/2023	(ELECTIVE - VI) Management and Entrepreneurship	415474 A
	(ELECTIVE - VI) IPR, Intellectual Property Rights.	415474 B
	(ELECTIVE - VI) Industrial Organization and Management	415474 C

B.E. CHEMICAL ENGINEERING

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Process Modeling and Simulation	409349
Wednesday, 05/04/2023	Process Engineering Costing & Plant Design	409350
Thursday, 06/04/2023	(ELECTIVE - V) Energy Audit and Conservation	409351 A
	(ELECTIVE - V) Chemical Process Safety	409351 B
	(ELECTIVE - V) Computational Fluid Dynamics	409351 C
	(ELECTIVE - V) Advanced Materials	409351 D
Saturday, 08/04/2023	(ELECTIVE - VI) Catalysis	409352 A
	(ELECTIVE - VI) Nanotechnology	409352 B
	(ELECTIVE - VI) Fuel Cell Technology	409352 C
	(ELECTIVE - VI) Petrochemical Engineering	409352 D

B.E. CIVIL ENGINEERING

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Dams and Hydraulics Structures	401011
Wednesday, 05/04/2023	Quantity Surveying, Contracts and Tenders	401012
Thursday, 06/04/2023	(ELECTIVE - V) Earthquake Engineering	401013 A
	(ELECTIVE - V) Structural Design of Bridges	401013 B
	(ELECTIVE - V) Irrigation and Drainage	401013 C
	(ELECTIVE - V) Design of Precast and Composite Structures	401013 D
	(ELECTIVE - V) Hydropower Engineering	401013 E
	(ELECTIVE - V) Structural Audit and Retrofitting of Structures	401013 F
Saturday, 08/04/2023	(ELECTIVE - VI) TQM and MIS	401014 A
	(ELECTIVE - VI) Advanced Transportation Engineering	401014 B
	(ELECTIVE - VI) Geo Synthetic Engineering	401014 C
	(ELECTIVE - VI) Structural Design of Foundations	401014 D
	(ELECTIVE - VI) Green Structures and Smart Cities	401014 E
	(ELECTIVE - VI) Rural Water Supply and Sanitation	401014 F

B.E. COMPUTER ENGINEERING

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	High Performance Computing	410250
Wednesday, 05/04/2023	Deep Learning	410251
Thursday, 06/04/2023	(ELECTIVE - V) Natural Language Processing	410252 A
	(ELECTIVE - V) Image Processing	410252 B
	(ELECTIVE - V) Software Defined Networks	410252 C
	(ELECTIVE - V) Advanced Digital Signal Processing	410252 D
Saturday, 08/04/2023	(ELECTIVE - VI) Pattern Recognition	410253 A
	(ELECTIVE - VI) Soft Computing	410253 B
	(ELECTIVE - VI) Business Intelligence	410253 C
	(ELECTIVE - VI) Quantum Computing	410253 D

B.E. ELECTRICAL ENGINEERING

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Switchgear and Protection	403148
Wednesday, 05/04/2023	Advanced Electrical Drives & Control	403149
Thursday, 06/04/2023	(ELECTIVE - V) Digital Control System	403150 A
	(ELECTIVE - V) Restructuring and Deregulation	403150 B
	(ELECTIVE - V) Smart Grid	403150 C
	(ELECTIVE - V) Sensor Technology (Open Elective)	403150 D
Saturday, 08/04/2023	(ELECTIVE - VI) EHV AC Transmission	403151 A
	(ELECTIVE - VI) Illumination Engineering	403151 B
	(ELECTIVE - VI) Electromagnetic Fields	403151 C
	(ELECTIVE - VI) AI and ML (Open Elective)	403151 D

B.E. ELECTRONICS ENGINEERING

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Process Instrumentation	404210
Thursday, 06/04/2023	(ELECTIVE - V) Biomedical Electronics	404211 A
	(ELECTIVE - V) Artificial Intelligence and Neural Network	404211 B
	*(ELECTIVE - V) Android Development	404191 C
	(ELECTIVE - V) Audio Video Engineering	404211 C
	(ELECTIVE - V) Automotive Electronics	404211 D
Saturday, 08/04/2023	(ELECTIVE - VI) Renewable Energy System & DSM	404212 A
	(ELECTIVE - VI) Wireless Sensor Network	404212 B
	*(ELECTIVE - VI) Remote Sensing	404192 C
	*(ELECTIVE - VI) Digital Marketing	404192 D

* Subjects common with BE E&TC 2019 course

B.E. ELECTRONICS & TELECOMMUNICATION ENGINEERING

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Fiber Optic Communication	404190
Thursday, 06/04/2023	(ELECTIVE - V) Biomedical Signal Processing	404191 A
	(ELECTIVE - V) Industrial Drives & Automation	404191 B
	(ELECTIVE - V) Android Development	404191 C
	(ELECTIVE - V) Embedded System Design	404191 D
	(ELECTIVE - V) Mobile Computing	404191 E
Saturday, 08/04/2023	(ELECTIVE - VI) System on Chip	404192 A
	(ELECTIVE - VI) Nano Electronics	404192 B
	(ELECTIVE - VI) Remote Sensing	404192 C
	(ELECTIVE - VI) Digital Marketing	404192 D

B.E. INFORMATION TECHNOLOGY

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Distributed Systems	414450
Thursday, 06/04/2023	(ELECTIVE - V) Software Defined Networks	414451 A
	(ELECTIVE - V) Social Computing	414451 B
	(ELECTIVE - V) Natural Language Processing	414451 C
	(ELECTIVE - V) Soft Computing	414451 D
	(ELECTIVE - V) Game Engineering	414451 E
Saturday, 08/04/2023	(ELECTIVE - VI) Ethical Hacking and Security	414452 A
	(ELECTIVE - VI) Augmented and Virtual Reality	414452 B
	(ELECTIVE - VI) Business Analytics and Intelligence	414452 C
	(ELECTIVE - VI) Blockchain Technology	414452 D

B.E. INSTRUMENTATION & CONTROL

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Process Instrumentation	406268
Wednesday, 05/04/2023	Advanced Embedded System	406269
Thursday, 06/04/2023	(ELECTIVE - V) Electric Vehicles	406270 A
	(ELECTIVE - V) Safety Instrumentation Systems	406270 B
	(ELECTIVE - V) Renewable Energy Systems	406270 C
	(ELECTIVE - V) Optical Instrumentation	406270 D
Saturday, 08/04/2023	(ELECTIVE - VI) Cyber Security	406271 A
	(ELECTIVE - VI) Automation in Agriculture	406271 B
	(ELECTIVE - VI) Environmental Instrumentation	406271 C

B.E. MECHANICAL ENGINEERING

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Computer Integrated Manufacturing	402048
Wednesday, 05/04/2023	Energy Engineering	402049
Thursday, 06/04/2023	(ELECTIVE - V) Quality and Reliability Engineering	402050 A
	(ELECTIVE - V) Energy Audit and Management	402050 B
	(ELECTIVE - V) Manufacturing Systems and Simulation	402050 C
	(ELECTIVE - V) Engineering Economics and Financial Management	402050 D
	(ELECTIVE - V) Organizational Informatics	402050 E
	(ELECTIVE - V) Computational Multi Body Dynamics	402050 F
Saturday, 08/04/2023	(ELECTIVE - VI) Process Equipment Design	402051 A
	(ELECTIVE - VI) Renewable Energy Technologies	402051 B
	(ELECTIVE - VI) Automation and Robotics	402051 C
	(ELECTIVE - VI) Industrial Psychology and Organizational Behavior	402051 D
	(ELECTIVE - VI) Electrical and Hybrid Vehicle	402051 E

B.E. MECHANICAL SANDWICH

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Design of Transmission Elements** TIME: 09.30 AM TO 11.00 AM.	402066
Wednesday, 05/04/2023	Machine Dynamics and Vibration	402067
Thursday, 06/04/2023	Artificial Intelligence in Mechanical Engineering	402068
Saturday, 08/04/2023	(ELECTIVE - I) Automobile Engineering	402069 A
	(ELECTIVE - I) Refrigeration and Air-Conditioning	402069 B
	(ELECTIVE - I) Fluid Power Control	402069 C
	(ELECTIVE - I) Additive Manufacturing	402045 C
	(ELECTIVE - I) Automation and Robotics	402051 C
Monday, 10/04/2023	(ELECTIVE - II) Product Design and Development	402045 A
	(ELECTIVE - II) Operations Research	402045 D
	(ELECTIVE - II) Electrical and Hybrid Vehicle	402051 E
	(ELECTIVE - II) Quality and Reliability Engineering	402050 A
	(ELECTIVE - II) Internet of Things	402044 E

Note: ** Please note the Timing

B.E. PRINTING TECHNOLOGY

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Operations Management in Printing and Packaging	408290
Wednesday, 05/04/2023	Adhesives and Coatings in Packaging	408291
Thursday, 06/04/2023	(ELECTIVE - V) Food and Pharmaceutical Packaging	408288 A
	(ELECTIVE - V) Printed Electronics	408288 B
Saturday, 08/04/2023	(ELECTIVE - VI) Sustainable Packaging	408289 A
	(ELECTIVE - VI) Management Information Systems and Data Science	408289 B

B.E. PRODUCTION ENGINEERING

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Monday, 03/04/2023	Computer Integrated Design and Manufacturing	411088
Wednesday, 05/04/2023	Industrial Robotics	411089
Thursday, 06/04/2023	(ELECTIVE - V) E-Mobility in Automobile	411090 A
	(ELECTIVE - V) Smart Manufacturing	411090 B
	(ELECTIVE - V) Manufacturing System design	411090 C
	(ELECTIVE - V) Ergonomics and Work Management	411090 D
Saturday, 08/04/2023	(ELECTIVE - VI) Facility Planning	411091 A
	(ELECTIVE - VI) Additive Manufacturing	411091 B
	(ELECTIVE - VI) Reliability Engineering	411091 C
	(ELECTIVE - VI) Data Analytics	411091 D

B.E. PRODUCTION SANDWICH ENGINEERING

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Thursday, 06/04/2023	(ELECTIVE - V) Supply Chain Management	411134 A
	(ELECTIVE - V) Plant Engineering and Maintenance	411134 B
	(ELECTIVE - V) Industrial Relation and Human Resource Management	411134 C
	(ELECTIVE - V) Marketing mgmt.	411134 D

B.E. HONORS/MINORS

SEM-VIII

TIME: 09.30 AM TO 10.30 AM.

DAY & DATE	SUBJECT NAME	SUBJECT CODE
Tuesday, 11/04/2023	Land Use and Land Cover	401403
	Tunnel Engineering	401303
	Brand and Packaging Management	408216
	Block Chain Solutions	404183 HBCT
	Artificial Intelligence in Robotics	404183 HR
	3D Printing Applications & Entrepreneurship	402016 MJ
	e-Vehicle Standards, Charging & Safety	302036 MJ
	Sustainable Energy Conversion Systems	402026 MJ
	Systems Engineering Management	302046 MJ
	Soft Computing and Deep Learning	410303
	Information Systems Management	410403
	Artificial Intelligence for Big Data Analytics	410503
	Internet of Things Security	410603
	Application Development using Augmented Reality and Virtual Reality	410703

Ganeshkhind, Pune - 411 007

Ref.No/XCT/277

Date: 20/03/2023

Director
Board of Examinations and Evaluation



Shri Someshwar Shikshan Prasarak Mandal's
**Sharadchandra Pawar College of Engineering &
Technology,**

Someshwarnagar Tal – Baramati, Dist – Pune 412 306
(Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra
& Affiliated to Savitribai Phule Pune University, Id.no.PU/PN.Engg./445/2012)
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Paper Solution




PRINCIPAL
Sharadchandra Pawar College of Engineering & Technology
Someshwarnagar, Tal. Baramati, Dist. Pune (Pin : 412 306)

[6186]-S-510

S.E. (Electrical Engineering) (Insem.)
ENGINEERING MATHEMATICS - III
(2019 Pattern) (Semester - III) (207006)

Solution/Scheme of Marking

Q.1) a)

$$i) (D^2 - 1)y = 2x^4 - 3x + 1$$

$$\text{A.E. is } D^2 - 1 = 0 \therefore D = \pm 1$$

$$\therefore y_c = c_1 e^x + c_2 e^{-x}$$

$$\begin{aligned} \text{Also, } y_p &= \frac{1}{D^2 - 1} (2x^4 - 3x + 1) \\ &= -(1 + D^2 + D^4 + \dots)(2x^4 - 3x + 1) \\ &= -[(2x^4 - 3x + 1) + (24x^2) + (48)] \\ &= -(2x^4 + 24x^2 - 3x + 49) \end{aligned}$$

$$\begin{aligned} \text{Now, } y &= y_c + y_p \\ &= c_1 e^x + c_2 e^{-x} - (2x^4 + 24x^2 - 3x + 49) \end{aligned}$$

$$ii) \frac{d^2 y}{dx^2} + y = \operatorname{cosec} x$$

$$\therefore (D^2 + 1)y = \operatorname{cosec} x$$

$$\text{A.E. is } D^2 + 1 = 0 \therefore D = \pm i$$

$$\therefore y_c = c_1 \cos x + c_2 \sin x = c_1 y_1 + c_2 y_2$$

$$D = \begin{vmatrix} y_1 & y_2 \\ y_1' & y_2' \end{vmatrix} = \begin{vmatrix} \cos x & \sin x \\ -\sin x & \cos x \end{vmatrix} = 1$$

$$D_1 = \begin{vmatrix} 0 & \sin x \\ \operatorname{cosec} x & \cos x \end{vmatrix} = -1$$

$$D_2 = \begin{vmatrix} \cos x & 0 \\ -\sin x & \operatorname{cosec} x \end{vmatrix} = \cot x$$

$$u = \int \frac{D_1}{D} dx = \int -dx = -x$$

$$v = \int \frac{D_2}{D} dx = \int \cot x dx = \log \sin x$$

$$\therefore y_p = u y_1 + v y_2 = -x \cos x + \sin x (\log \sin x)$$

$$\begin{aligned} \text{Thus, } y &= y_c + y_p \\ &= c_1 \cos x + c_2 \sin x - x \cos x + \sin x (\log \sin x) \end{aligned}$$

$$iii) x^2 \frac{d^2 y}{dx^2} - 4x \frac{dy}{dx} + 6y = x^5$$

$$\text{Put } x = \log z \text{ i.e. } x = e^z$$

$$\therefore D(D-1)y - 4Dy + 6y = e^{5z}$$

$$\therefore (D^2 - 5D + 6)y = e^{5z}$$

$$\text{A.E. is } D^2 - 5D + 6 = 0 \therefore (D-2)(D-3) = 0$$

$$\therefore D = 2, 3 \therefore y_c = c_1 e^{2z} + c_2 e^{3z}$$

P.T.O.

$$y_p = \frac{1}{(D-2)(D-3)} e^{5z} = \frac{1}{(5-2)(5-3)} e^{5z} = \frac{e^{5z}}{6}$$

$$\text{Thus, } y = y_c + y_p = c_1 x^2 + c_2 x^3 + \frac{x^5}{6}$$

$$b) \frac{dx}{3z-4y} = \frac{dy}{4x-2z} = \frac{dz}{2y-3x}$$

Using the multipliers (2, 3, 4),

$$\text{each ratio} = \frac{2dx + 3dy + 4dz}{0}$$

$$\therefore 2dx + 3dy + 4dz = 0$$

$$\therefore 2x + 3y + 4z = c_1 \quad (1)$$

Using the multipliers (x, y, z),

$$\text{each ratio} = \frac{x dx + y dy + z dz}{0}$$

$$\therefore x dx + y dy + z dz = 0$$

$$\therefore x^2 + y^2 + z^2 = c_2 \quad (2)$$

$$Q2) a) i) (D^2 + 3D + 2)y = e^x$$

$$\text{AE is } D^2 + 3D + 2 = 0$$

$$\therefore (D+1)(D+2) = 0 \therefore D = -1, -2$$

$$\therefore y_c = c_1 e^{-x} + c_2 e^{-2x}$$

$$y_p = \frac{1}{(D+2)(D+1)} e^x = \frac{1}{D+2} e^{-x} \int e^x e^x dx$$

$$= \frac{1}{D+2} e^{-x} e^x = e^{-2x} \int e^{2x-x} e^x dx$$

$$= e^{-2x} e^x$$

$$\therefore y = y_c + y_p = c_1 e^{-x} + c_2 e^{-2x} + e^{-x} e^x$$

$$ii) (D^2 - 4D + 3)y = e^x \cos 2x$$

$$\text{AE is } D^2 - 4D + 3 = 0 \therefore (D-1)(D-3) = 0$$

$$\therefore D = 1, 3 \therefore y_c = c_1 e^x + c_2 e^{3x}$$

$$y_p = \frac{1}{(D-1)(D-3)} e^x \cos 2x = e^x \frac{1}{D(D-2)} \cos 2x$$

$$= e^x \frac{1}{D-2} \cos 2x = e^x \frac{1}{-2-2D} \cos 2x$$

$$= -\frac{e^x}{2} \frac{1}{D+2} \cos 2x = -\frac{e^x}{2} \frac{D-2}{D^2-4} \cos 2x$$

$$= \left(-\frac{e^x}{2}\right) \left(\frac{1}{-2^2-4}\right) (-2 \sin 2x - 2 \cos 2x)$$

$$\therefore y = y_c + y_p = c_1 e^x + c_2 e^{3x} - \frac{e^x}{8} (\sin 2x + \cos 2x)$$

iii)

$$\frac{dx}{dt} = y + 1 \quad \text{Let } D = \frac{d}{dt} \therefore Dx - y = 1$$

$$\frac{dy}{dt} = x + 1 \quad -x + Dy = 1$$

Solving, we get $(D^2 - 1)x = 1$

AE is $D^2 - 1 = 0 \therefore D = \pm 1$ $x_c(t) = c_1 e^t + c_2 e^{-t}$

$$x_p(t) = \frac{1}{D^2 - 1}(1) = \frac{-1}{1 - D^2}(1) = -1(1 + D^2 + \dots)(1) = -1$$

$$\therefore x(t) = c_1 e^t + c_2 e^{-t} - 1$$

$$\therefore y(t) = c_1 e^t - c_2 e^{-t} - 1$$

b) $L = 0.05 \text{ H}, R = 5 \Omega, C = 4 \times 10^{-4} \text{ F}, E = 110 \text{ V}$

The DE of the RLC circuit is

$$L \frac{d^2 q}{dt^2} + R \frac{dq}{dt} + \frac{q}{C} = E$$

$$\therefore 0.05 \frac{d^2 q}{dt^2} + 5 \frac{dq}{dt} + \frac{q}{4 \times 10^{-4}} = 110$$

$$\therefore \frac{d^2 q}{dt^2} + 100 \frac{dq}{dt} + 50000 q = 2200$$

$$\therefore (D^2 + 100D + 50000)q = 2200$$

AE is $D^2 + 100D + 50000 = 0$

$$\therefore D = -50 \pm i 50 \sqrt{19}$$

$$\therefore q_c = e^{-50t} (c_1 \cos 50\sqrt{19}t + c_2 \sin 50\sqrt{19}t)$$

Also, $q_p = \frac{1}{D^2 + 100D + 50000} 2200$

$$= \frac{2200}{50000} = \frac{11}{250}$$

$$\therefore q = q_c + q_p$$

$$\therefore q(t) = e^{-50t} (c_1 \cos 50\sqrt{19}t + c_2 \sin 50\sqrt{19}t) + \frac{11}{250}$$

At $t=0, q=0 \therefore c_1 = \frac{-11}{250}$

$$\therefore i = \frac{dq}{dt} = e^{-50t} (-50\sqrt{19}c_1 \sin 50\sqrt{19}t + 50\sqrt{19}c_2 \cos 50\sqrt{19}t) - 50 e^{-50t} (c_1 \cos 50\sqrt{19}t + c_2 \sin 50\sqrt{19}t)$$

At $t=0, i=0$ gives $c_2 = -\frac{11\sqrt{19}}{4750}$

Thus, $q(t) = e^{-50t} \left(\frac{-11}{250} \cos 50\sqrt{19}t - \frac{11\sqrt{19}}{4750} \sin 50\sqrt{19}t \right) + \frac{11}{250}$ and

$$i(t) = e^{-50t} \left(\frac{11\sqrt{19}}{5} \sin 50\sqrt{19}t - \frac{11\sqrt{19}}{95} \cos 50\sqrt{19}t \right)$$

$$- 50 e^{-50t} \left(\frac{-11}{250} \cos 50\sqrt{19}t - \frac{11\sqrt{19}}{4750} \sin 50\sqrt{19}t \right)$$

Q.3) a)

$$i) \quad L\{\sin 4t\} = \frac{4}{s^2+16}$$

$$L\{e^{-t}\sin 4t\} = \frac{4}{(s+1)^2+16} = \frac{4}{s^2+2s+17} \quad \text{--- (2) M}$$

$$L\{te^{-t}\sin 4t\} = -\frac{d}{ds} \left[\frac{4}{s^2+2s+17} \right] = \frac{4(2s+2)}{(s^2+2s+17)^2}$$

$$L\left\{\int_0^t te^{-t}\sin 4t\right\} = \frac{1}{s} \frac{8(s+1)}{(s^2+2s+17)^2} // \quad \text{--- (3) M}$$

$$ii) \quad L^{-1}\left\{\frac{1}{s+2}\right\} = e^{-2t} \quad \text{--- (2) M}$$

$$\therefore L^{-1}\left\{\frac{1}{s} \frac{1}{s+2}\right\} = \int_0^t e^{-2u} du$$

$$= \left. \frac{e^{-2u}}{-2} \right|_0^t = -\frac{e^{-2t}}{2} + \frac{1}{2}$$

$$L^{-1}\left\{\frac{1}{s(s+2)}\right\} = \frac{1-e^{-2t}}{2} // \quad \text{--- (3) M}$$

$$iii) \quad L\{1-e^{2t}\} = L\{1\} - L\{e^{2t}\} = \frac{1}{s} - \frac{1}{s-2} \quad \text{--- (2) M}$$

$$L\left\{\frac{1-e^{2t}}{t}\right\} = \int_s^\infty \left[\frac{1}{u} - \frac{1}{u-2}\right] du = \left[\ln u - \ln(u-2)\right]_s^\infty$$

$$= \ln\left(\frac{u}{u-2}\right) \Big|_s^\infty = 0 - \ln\left(\frac{s}{s-2}\right)$$

$$L\left\{\frac{1-e^{2t}}{t}\right\} = \ln\left(\frac{s-2}{s}\right) // \quad \text{--- (3) M}$$

$$b) \quad L\{y'' - 2y' - 8y\} = L\{0\}$$

$$L\{y''\} - 2L\{y'\} - 8L\{y\} = L\{0\}$$

$$[s^2 Y(s) - sy(0) - y'(0)] - 2[sY(s) - y(0)] - 8Y(s) = 0$$

$$[s^2 Y(s) - 3s - 6] - 2[sY(s) - 3] - 8Y(s) = 0$$

$$Y(s) = \frac{3s}{s^2 - 2s - 8} // \quad \text{--- (3) M}$$

$$Y(s) = \frac{3s}{(s-4)(s+2)} = \frac{2}{s-4} + \frac{1}{s+2}$$

$$L^{-1}[Y(s)] = L^{-1}\left[\frac{2}{s-4} + \frac{1}{s+2}\right] = L^{-1}\left[\frac{2}{s-4}\right] + L^{-1}\left[\frac{1}{s+2}\right]$$

$$= 2L^{-1}\left[\frac{2}{s-4}\right] + L^{-1}\left[\frac{1}{s+2}\right]$$

$$y(t) = 2e^{4t} + e^{-2t} // \quad \text{--- (2) M}$$

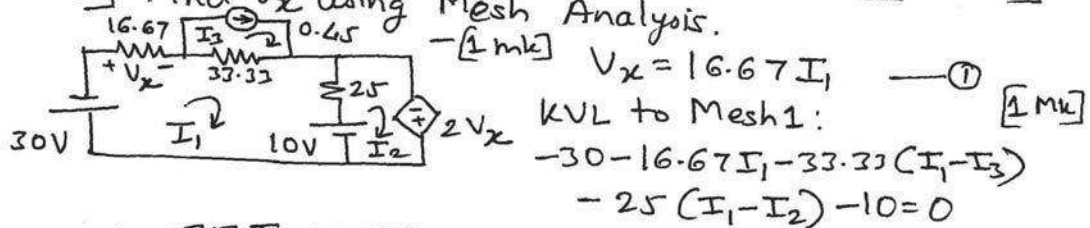
PB5013

[6268]-S-208

S.E. (Electrical Engineering) (Insem)
NETWORK ANALYSIS
 (2019 Pattern) (Semester - IV) (203147)
 Solution and Scheme of Marking

Q.1] a) Classification of networks. [7 Marks]

b) Find V_x using Mesh Analysis. [1mk]



$V_x = 16.67 I_1$ — (1) [1mk]
 KVL to Mesh 1:
 $-30 - 16.67 I_1 - 33.33 (I_1 - I_3) - 25 (I_1 - I_2) - 10 = 0$

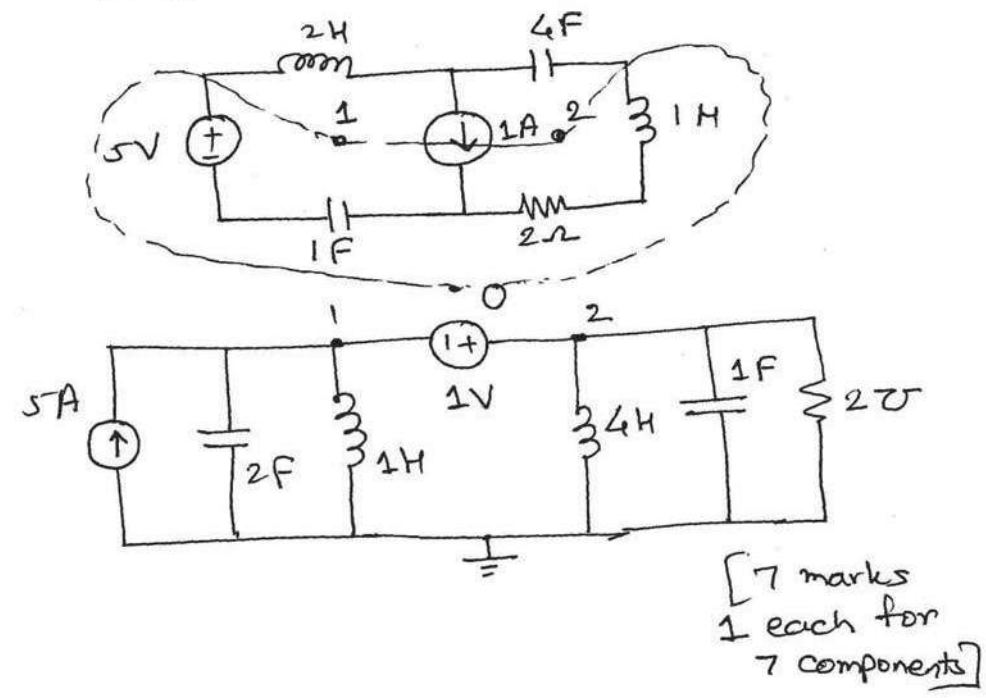
$\therefore -75 I_1 + 25 I_2 + 33.33 I_3 = 40$ — (2) [2mk]

Apply KVL to Mesh 2,
 $10 - 25 (I_2 - I_1) + 2V_x = 0$
 $\therefore 58.34 I_1 - 25 I_2 = -10$ — (3) [2mk]

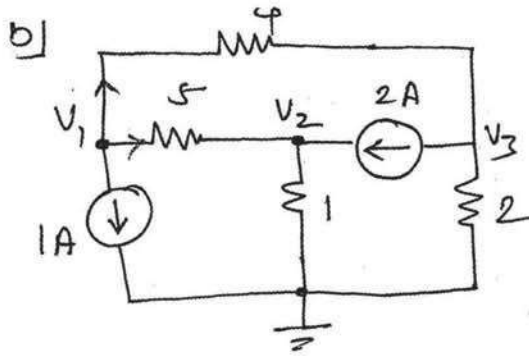
For Mesh 3; $I_3 = 0.45$ — (4)

Solving eqns (2), (3), (4) $I_1 = -0.9A, I_2 = -1.7A$, [1mk]
 $I_3 = 0.45A \therefore V_x = 16.67 (-0.9) = -15V$ - Ans. [1mk]

Q.2] a) Dual network



[7 marks
 1 each for
 7 components]



Assume currents are moving away from the nodes.

Apply KCL at Node 1,

$$1 + \frac{V_1 - V_2}{5} + \frac{V_1 - V_3}{4} = 0$$

$$0.45V_1 - 0.2V_2 - 0.25V_3 = -1$$

$$\text{--- (1)} \quad [2 \text{ mks}]$$

Apply KCL at Node 2,

$$\frac{V_2 - V_1}{5} + \frac{V_2}{1} = 2 \quad \therefore -0.2V_1 + 1.2V_2 = 2 \quad \text{--- (2)}$$

$$[2 \text{ mks}]$$

Apply KCL at Node 3,

$$\frac{V_3}{2} + \frac{V_3 - V_1}{4} + 2 = 0 \quad \therefore -0.25V_1 + 0.75V_3 = -2 \quad \text{--- (3)}$$

$$[2 \text{ mks}]$$

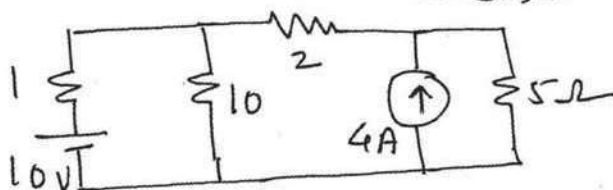
Solving eqns (1), (2), (3)

$$V_1 = -4V, V_2 = 1V, V_3 = -4V$$

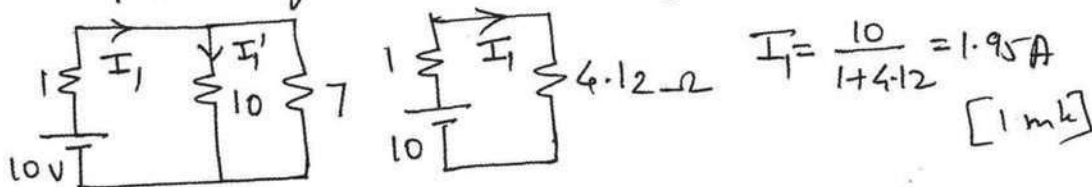
$$V_{5\Omega} = V_2 - V_1 = 1 - (-4) = 5V \quad [2 \text{ mks}]$$

Q.3] a) state and prove max. power Transfer Theorem [7 mks]

b) Superposition theorem -



step 1 - Only 10V source acting alone



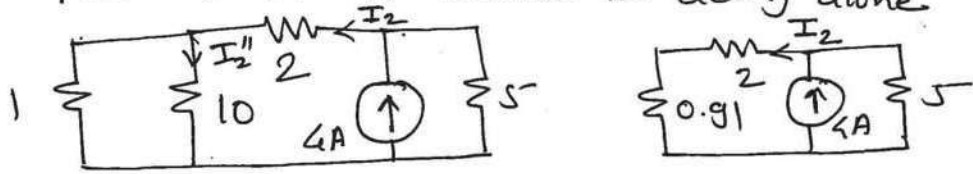
$$I_1 = \frac{10}{1+4.12} = 1.95A$$

$$[1 \text{ mk}]$$

$$I_1' \text{ using current division} = 1.95 \times \frac{7}{10+7}$$

$$= 0.8A \downarrow \quad [2 \text{ mk}]$$

Step II When 4A source is acting alone



$$I_2 = 4 \times \frac{5}{5+2.91} = 2.53A \quad \text{--- [1 mk]}$$

$$I_2'' = I_2 \frac{1}{1+10} = 0.23A \downarrow \quad \text{--- [2 mk]}$$

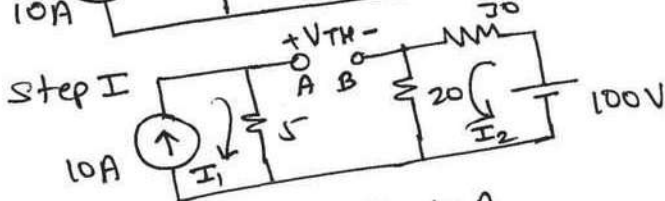
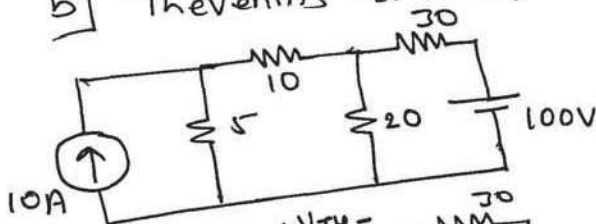
Step III By superposition theorem

Current in 10Ω resistance

$$= I_1' + I_2'' = 0.8 + 0.23 = 1.03A \downarrow \quad \text{--- [2 mk]}$$

Q. 4] a) Explain the terms.

b) Thevenin's theorem



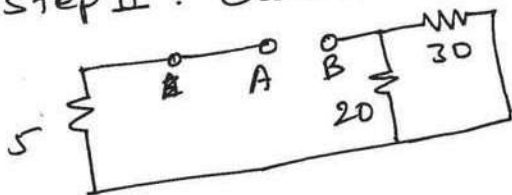
For Mesh I, $I_1 = 10A$

Apply KVL to mesh II: $100 - 30I_2 - 20I_2 = 0$

$$\therefore I_2 = 2A$$

$$V_{TH} = 5I_1 - 20I_2 = 5 \times 10 - 20 \times 2 = 10V \quad \text{--- [1 mk]}$$

Step II: Calculate R_{TH}

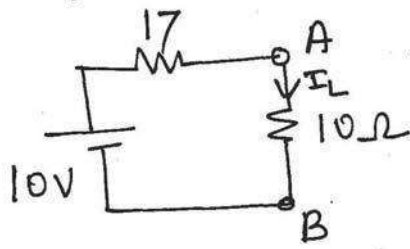


$$R_{TH} = 5 + [20 \parallel 30]$$

$$= 17\Omega$$

[2 mk]

Step III: Calculation of I_L



Thevenin's equivalent network.

$$I_L = \frac{10}{17+10} = \frac{V_{TH}}{R_{TH}+R_L}$$

$$= 0.37A$$

— [2 marks]

x x x



Shri Someshwar Shikshan Prasarak Mandal's
**Sharadchandra Pawar College of Engineering &
Technology,**

Someshwarnagar Tal – Baramati, Dist – Pune 412 306
(Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra
& Affiliated to Savitribai Phule Pune University, Id.no.PU/PN.Engg./445/2012)
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Internal Assessment




PRINCIPAL
Sharadchandra Pawar College of Engineering & Technology
Someshwarnagar, Tal. Baramati, Dist. Pune (Pin : 412 306)

SSPM's SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY , SOMESHWARNAGAR

ASSESSMENT RECORD

Department: Humanity & SCIENCE

Academic Year: 2023-24

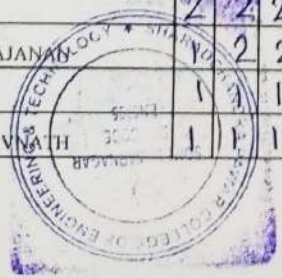
Semester: I |


Class: FE (DIV-A)

Subject: Engineering Mathematics I

Subject In Charge: Prof. Kadam S.S.

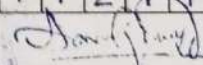
Roll No.	Name of Candidate	TUT1				TUT2				TUT3				TUT4				TUT5				TUT6				Total	Out of 25	
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D			
FE101	APSINGKAR SOHAM PRAVIN	02	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	60	24	
FE102	BAHIRAT SALONI PRAMOD	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	60	24	
FE103	BEDWAL GANESH BALRAMSING	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	38	15
FE104	BENGARE BHAGYASHRI NAVNATH	02	2	2	3	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	3	2	3	2	3	56	22	
FE105	BHAGAT SARTHAK BAPURAO	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	3	2	3	2	3	2	3	56	22	
FE106	BHAGAT SHIVANI SUDAM	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	38	15
FE107	BHAMARE LAJARI ANIL	2	1	2	3	2	3	2	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	58	23	
FE108	BHOSALE PRATHAMESH MILIND	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	28	11
FE109	BHOSALE SHRAVAN SUNIL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	26	10
FE110	BHOSALE VAISHNAVI VILAS	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	60	24	
FE111	BILWAL SURAJ DILIP	1	1	1	1	1	1	1	1	1	2	2	2	1	2	2	1	1	2	2	2	1	2	2	1	1	34	13
FE112	BITKE ARATI BHARAT	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	3	2	3	2	3	2	3	56	22	
FE113	BODARE HARSHADA RAVINDRA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	50	20
FE114	CHANDGUDE ADITYA DATTATRAY	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	3	2	3	2	3	2	3	56	22	
FE115	CHAVAN SNEHA JAGANNATH	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	60	24	
FE116	DAGADE PAYAL SACHIN	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	50	24	
FE117	DAGADE TEJAS ANIL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	50	20
FE118	DHATTURE VIKRAM SHANKAR	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	28	11
FE119	DUDHE SHIVTEJ SUNIL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	50	20
FE120	FOKMARE SHUBHAM GAJANAN	2	2	1	1	2	2	1	1	2	2	2	1	2	2	1	1	2	2	2	1	2	2	1	1	1	38	15
FE121	GADGE AMOL BALAJI	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	28	11
FE122	GAIKWAD HARSHAD NAVNATH	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	28	11




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 SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY
 SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE (M.S.)

FE123	GAIKWAD TUSHAR DATTATRAY	2	2	2	3	2	2	2	3	2	2	2	3	2	3	2	2	2	2	2	2	3	2	50	20	
FE124	GAVALI DISHA RAMESH	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	3	2	3	2	3	2	56	22	
FE125	GAWADE AMAR RAHUL	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	3	2	3	2	3	2	56	22	
FE126	GAWADE PRANAV BABASO	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	60	24	
FE127	GAWADE SAURABH MARUTI	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	3	2	3	2	3	2	56	22	
FE128	GHUGARKAR GAURAV APPASAHEB	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	60	24	
FE129	GORADE TEJAS RASIK	1	2	2	1	1	2	2	1	1	2	2	2	1	2	2	1	1	2	2	2	1	2	2	38	15
FE130	HAKE NIKITA VITTHAL	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	3	2	3	2	3	2	56	22	
FE131	HIWALE MIHIR SUNIL	1	2	2	1	1	2	2	1	1	2	2	2	1	2	2	1	1	2	2	2	1	2	2	38	15
FE132	JADHAV ANIKET NITIN	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	1	1	2	1	28	11
FE133	JADHAV DISHA RAJENDRA	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	3	2	3	2	3	2	56	22	
FE134	JADHAV HARSHWARDHAN APPASO	1	2	2	1	1	2	2	1	1	2	2	2	1	2	2	1	1	2	2	2	1	2	2	38	15
FE135	JADHAV POONAM HEMANT	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	3	2	3	2	3	2	56	22	
FE136	JAGDALE GAURAV HARISHCHANDRA	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	1	2	1	28	11	
FE137	JAGDHANE VISHAL SANTOSH	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	1	1	2	1	28	11
FE138	JAGTAP SIDDHANT SANTOSH	1	1	1	2	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	2	1	1	28	11	
FE139	JAGTAP VIVEK VIJAY	2	1	1	1	2	1	1	1	1	1	2	1	1	1	2	1	1	1	1	2	1	1	28	11	
FE140	JARIKOTE OMKAR HANMANT	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	1	1	2	1	28	11
FE141	JAYBHAYE PRATIKSHA SANJAY	2	2	2	3	2	2	2	3	2	2	2	3	2	2	3	2	3	2	3	2	3	2	56	22	
FE142	KADAM MAHESH RAJENDRA	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	60	24	
FE143	KARANKALAE MUKESH KISHOR	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	1	1	2	1	28	11
FE144	KHARAT OM CHANDRAKANAT	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	1	1	2	1	28	11
FE145	KHEDKAR PRAVIN SHIVAJI	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	1	1	2	1	28	11
FE146	KOKARE SONAL SHAHAJI	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	60	24	
FE147	KORADE ABHAY DATTATRAY	2	1	1	1	2	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	28	11	
FE148	KUTWAL SHRADDHA ASHOK	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	60	24	
FE149	LONKAR ABHISHEK MANOHAR	2	1	1	1	2	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	28	11	




 PRINCIPAL
 SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY
 SURVEKSHANAGAR, TAL. AURANGTI, DIST. PUNE (INDIA) 412 201




Sharadchandra Pawar College of Engineering & Technology, Someshwarnagar


Tal: Baramati Dist:Pune412 306

Tentative Time Table

SE/TE/BE Practical/Oral Examination of April/May 2023-24

Sr.No	Class	Subject Name	Examination Head(OR/PR/TW)	Date
16	SE Electrical (2019 Pattern)	Material Science	OR/TW	04/05/2024
		Analog & Digital Electronics	PR	06/05/2024
		Electrical Measurement & Instrumentation	PR/TW	08/05/2024
		Electrical Machine-I	PR	09/05/2024
17		Numerical Method & Computer Programming	PR	13/05/2024
18		Fundamental of Microcontroller & Application	OR/TW	11/05/2024


Exam Co-ordinator
Prof. D. D. Changan


HOD
Prof. G. G. Gadhave
HEAD OF DEPARTMENT
ELECTRICAL ENGINEERING



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING & TECHNOLOGY, SOMESHWARNAGAR

Record No:-

Revision:-

Date:-

Date:28/02/2023


Department: Electrical

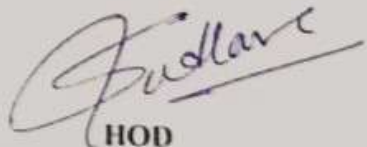
AY-2023-24

Notice and Schedule

This is hereby informed to all SE/TE/BE Electrical Engineering Respected Teaching faculty members and Dear , students college level **Unit Test of SEM-II** is scheduled from **04/03/2024 to 06/03/2024**. The time-table for **Unit Test** is as follows :-

Class	Date	Subject	Time
BE (30Marks)	04/03/2024	SGP	9.30 AM to 10.30 AM
	04/03/2024	PECD	01.30 PM to 02.30 PM
	05/03/2024	SG (ELECTIVE-III)	9.30 AM to 10.30 AM
	05/03/2024	1E (ELECTIVE-IV)	01.30 PM to 02.30 PM
TE (30Marks)	04/03/2024	PS-II	9.30 AM to 10.30 AM
	04/03/2024	CADEM	01.30 PM to 02.30 PM
	05/03/2024	CSE	9.30 AM to 10.30 AM
	05/03/2024	EL-II(EM)	01.30 PM to 02.30 PM
SE (30Marks)	04/03/2024	PS-I	9.30 AM to 10.30 AM
	04/03/2024	EM-I	01.30 PM to 02.30 PM
	05/03/2024	NA	9.30 AM to 10.30 AM
	05/03/2024	NMCP	01.30 PM to 02.30 PM
	06/03/2024	FMA	9.30 AM to 10.30 AM


Departmental Test Coordinator
Prof. D.D.Changan


HOD
Prof. G.G.Gadhawe
HEAD OF DEPARTMENT
ELECTRICAL ENGINEERING



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
Sharadchandra Pauer College of Engineering and Technology
Someshwarnagar, Baramati-412306
DEPARTMENT OF ELECTRICAL ENGINEERING
A.Y.-2023-24 (SEM-I)

Date-18/08/2023

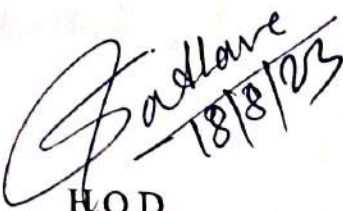
NOTICE

All B.E Electrical students are hereby informed that, your **Project Idea Presentation** will be scheduled on Fri, 25/08/2023 at 9.00AM Onwards, Be present on time for presentation.

Along With: -

1. Base Paper (IEEE)
2. PPT's


Project Coordinator


18/8/23
H.O.D.
(Electrical Engineering)



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No: -

Revision: -

Date: -

BE Electrical Project Group List

Department: Electrical Engineering

Academic Year: 2023-24

Group No.	STUDENT NAME	Contact No.	SIGN
1	SANIYA RAVINDRA PILANE	9322626734	<u>Pilane</u>
	DIKSHA RAJENDRA KINHALE	8530772298	<u>Kinhale</u>
	DHASADE PRITEE MOHAN	9604067202	<u>Pritee</u>
2	JARAD RUSHIKESH VISHWAS	8182029696	<u>Jarad</u>
	SHINDE ADITYA UTTAM	9766957085	<u>Ashika</u>
	DHUMAL SHUBHAM JAYANT	9657975909	<u>Shubham</u>
3	WABLE VIDYA SHIVAJI	8308640247	<u>Wable</u>
	KALBHOR SAKSHI TUKARAM	8308291395	<u>Sakshi</u>
	AADKI ABHISHEK YASHWANT	9527167048	<u>Abhishek</u>
4	BHANDWALKAR SANKET DHANANJAY	9359024455	<u>Sanket</u>
	WABALE SANDIP DIPAK	9890175832	<u>Sandip</u>
	GAIKWAD RUSHIKESH DASHARATH	9130923772	<u>Rushikesh</u>
5	WAYAL PRATIK RAJENDRA	9595426300	<u>Pratik</u>
	JAGTAP NISHIKANT MADHUKAR	7219824555	<u>Nishikant</u>
	OM SANJAY KUDALE	8805133823	<u>Om</u>

Pratik

CLASS COORDINATOR

Jadhav

HEAD OF DEPARTMENT



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No: -

Revision: -

Date: -

BE Electrical Project Group List

Department: Electrical Engineering

Academic Year: 2023-24

Group No.	STUDENT NAME	Guide Name	Sign
1	SANIYA RAVINDRA PILANE	Prof. Sorate S.B	<u>Sorate</u>
	DIKSHA RAJENDRA KINHALE		
	DHASADE PRITEE MOHAN		
2	WABLE VIDYA SHIVAJI	Prof.Gadhawe G.G	
	KALBHOR SAKSHI TUKARAM		
	AADKI ABHISHEK YASHWANT		
3	JARAD RUSHIKESH VISHWAS	Prof..Sorate S.B	<u>Sorate</u>
	SHINDE ADITYA UTTAM		
	DHUMAL SHUBHAM JAYANT		
4	BHANDWALKAR SANKET DHANANJAY	Prof.Gadhawe G.G	
	WABALE SANDIP DIPAK		
	GAIKWAD RUSHIKESH DASHARATH		
5	WAYAL PRATIK RAJENDRA	Prof. Sorate S.B	<u>Sorate</u>
	JAGTAP NISHIKANT MADHUKAR		
	OM SANJAY KUDALE		
	DHONE AKASH SURESH	Prof.Gadhawe G.G	
	PHADKE DNYANESHWAR DASHRATH		
	SASTE SWAPNIL BAPURAO		

Sorate

PROJECT COORDINATOR

Gadhawe
HEAD OF DEPARTMENT

PROJECT EVALUATION SHEET

Name of Students	Marks out of 50	Group No- 01		
		Topic Name-	IoT based	Industrial plant safety Gas leakage.
Problem Definition	05	Sanjay R.P.	01Ksh R.K	ohaxdeprf
Scope and Objectives	10	4	9	4
Literature Review	10	8	9	8
Methodology	10	8	9	9
Block Diagram/Architecture	10	8	8	8
Project Planning	05	4	4	4
Total	50	40	42	42

Name of Students	Marks out of 50	Group No- 02		
		Topic Name-	Wireless EV charging system using Piezo plate.	
Problem Definition	05	Jayad R.V	Shrid AV	Ohmal S.T
Scope and Objectives	10	4	3	3
Literature Review	10	8	7	6
Methodology	10	8	8	7
Block Diagram/Architecture	10	8	8	8
Project Planning	05	4	4	4
Total	50	40	38	36



Class : BE Electrical Engg.

Date:

Group No.	NAME	Problem Definition (5)	Scope & Objectives (10)	Literature Review (10)	Methodology (10)	Block Diagram / Architecture (10)	Project Planning (5)	Total Marks (50)	Guide Sign
1	SANTYA RAVINDRA PILANE	3	8	8	7	6	6	36	
	DIKSHA RAJENDRA KINHALE	4	8	8	6	8	6	38	
	DHASADE PRITEE MOHAN	4	8	7	7	8	6	38	
2	JARAD RUSHIKESH VISHWAS	3	8	8	7	8	6	38	
	SHINDE ADITYA UTTAM	3	7	7	6	6	6	33	
	DHUMAL SHUBHAM JAYANT	3	7	6	6	7	6	36	
3	WABLE VIDYA SHIVAJI	4	7	7	7	7	6	36	
	KALBHOR SAKSHI TUKARAM	3	8	7	7	8	3	36	
	AADKI ABHISHEK YASHWANT	0	0	0	0	0	0	0	
4	OM SANJAY KUDALE	0	0	0	0	0	0	0	
	WABALE SANDIP DIPAK	0	0	0	0	0	0	0	
	GAIKWAD RUSHIKESH DASHARATH	0	0	0	0	0	0	0	
5	WAYAL PRAKTIK RAJENDRA	0	0	0	0	0	0	0	
	JAGTAP NISHIKANT MADHUKAR	0	0	0	0	0	0	0	
	BHANDWALKAR SANKET DHANANJAY	0	0	0	0	0	0	0	
6	DHONE AKASH SURESH	0	0	6	0	0	0	0	
	PHADKE DNYANESHWAR DASHRATH	0	0	0	0	0	0	0	
	SASTE SWAPNIL BAPURAO	0	0	0	0	0	0	0	

[Signature]
HOD
Electrical Dept.

[Signature]
Project Coordinator

Date-26/10/2023

NOTICE

All B.E Electrical students are hereby informed that, your Project Presentation will be scheduled on Wed , 1/11/2023 at 10AM Onwards, Be present on time for presentation.

Along With: -

1. Base Paper (IEEE)
2. PPT's
3. Project Report (Hard copy/Soft Copy)
4. 50 % Project work

Prate
26.10.23.
Project Coordinator

Padlani
H.O.D.
(Electrical Engineering)



ELECTRICAL ENGINEERING DEPARTMENT

Submission of Project Stage - I Report (A.Y.2023-24)

Date: _____

Class : BE Electrical Engg.

Group No.	NAME	Timely submission (5)	Formatting and Report Writing Style (5)	Abstract, Literature Survey, Conclusion (5)	Referreed References (5)	Grammatical correctness in the report (5)	Total Marks (25)	Guide Sign
1	SANIYA RAVINDRA PILANE	4	4	3	3	4	18	
	DIKSHA RAJENDRA KINHALE	4	4	3	3	4	18	
	DHASADE PRITEE MOHAN	4	4	3	3	4	18	
2	JARAD RUSHIKESH VISHWAS	4	4	3	3	4	14	
	SHINDE ADITYA UTTAM	3	3	3	2	3	15	
	DHUMAL SHUBHAM JAYANT	3	3	3	3	3	13	
3	WABLE VIDYA SHIVAJI	4	3	4	3	4	13	
	KALBHOR SAKSHI TUKARAM	4	3	3	4	3	17	
	AADKI ABHISHEK YASHWANT	3	3	3	3	3	15	
4	OM SANJAY KUDALE	0	0	0	0	0	0	
	WABALE SANDIP DIPAK	0	0	0	0	0	0	
	GAIKWAD RUSHIKESH DASHARATH	0	0	0	0	0	0	
5	WAYAL PRATIK RAJENDRA	2	3	3	4	2	14	
	JAGTAP NISHIKANT MADHUKAR	2	2	3	3	2	12	
	BHANDWALKAR SANKET DHANANJAY	2	3	3	3	2	13	
6	DHONE AKASH SURESH	0	0	0	0	0	0	
	PHADKE DNYANESHWAR DASHRATH	0	0	0	0	0	0	
	SASTE SWAPNIL BAPURAO	0	0	0	0	0	0	

Prateek

Project Coordinator

Prateek
HOD
Electrical Dept.



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No: -

Revision: -

Date: -

BE Electrical Project Group List

Department: Electrical Engineering

Academic Year: 2023-24

Group No.	STUDENT NAME	Topic Name	Guide Name
1	SANIYA RAVINDRA PILANE	IOT Based Industrial Plant safety.	Dr.Deokar S.A
	DIKSHA RAJENDRA KINHALE		
	DHASADE PRITEE MOHAN		
2	JARAD RUSHIKESH VISHWAS	Wireless Charging System Using Solar Panel	Prof.Sorate S.B
	SHINDE ADITYA UTTAM		
	DHUMAL SHUBHAM JAYANT		
3	WABLE VIDYA SHIVAJI	Vehicle Accident Detection & Warning System	Prof. Gadhav G.G
	KALBHOR SAKSHI TUKARAM		
	AADKI ABHISHEK YASHWANT		
4	OM SANJAY KUDALE	DC Motor Control By Using Arduino	Prof. Gadhav G.G
	WABALE SANDIP DIPAK		
	GAIKWADRUSHIKESH DASHARATH		
	PHADKE DNYANESHWAR DASHRATH		
5	WAYAL PRATIK RAJENDRA	Smart Energy Meter Using GSM System	Prof. Sorate S.B
	JAGTAP NISHIKANT MADHUKAR		
	BHANDWALKARSANKET DHANANJAY		

Sorate.

PROJECT COORDINATOR

Gadhav

HEAD OF DEPARTMENT




SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY
SOMESHWARNAGAR
ELECTRICAL ENGINEERING DEPARTMENT
Project Stage -I TW Marksheet (A.Y.2023-24)



: BE Electrical Engg.

ROLL NO.	Seat No.	PRN No.	NAME	Total Marks (50)	Sign
E-401	30	72222413D	AADKI ABHISHEK YASHWANT	22	<i>AB</i>
E-402	22	72160117M	BHANDWALKAR SANKET DHANANJAY	22	<i>SBS</i>
E-403	44	72222415L	DHASADE PRITEE MOHAN	38	<i>Pritee</i>
E-404	45	72222418E	DIKSHA RAJENDRA KINHALE	37	<i>Diksha</i>
E-405	30	72222417G	DHUMAL SHUBHAM JAYANT	30	<i>Shubham</i>
E-406	00	72222421E	GAIKWAD RUSHIKESH DASHARATH	00	<i>Rushikesh</i>
E-407	22	72222423M	JAGTAP NISHIKANT MADHUKAR	22	<i>Nishikant</i>
E-408	45	72222424K	JARAD RUSHIKESH VISHWAS	35	<i>Jarad</i>
E-409	42	72222425H	KALBHOR SAKSHI TUKARAM	32	<i>Sakshi</i>
E-410	00	72222429L	OM SANJAY KUDALE	00	<i>Om</i>
E-411	45	72222432L	SANIYA RAVINDRA PILANE	34	<i>Saniya</i>
E-412	32	72222434G	SHINDE ADITYA UTTAM	31	<i>Aditya</i>
E-413	00	72160159G	WABALE SANDIP DIPAK	00	<i>Sandip</i>
E-414	43	72222440M	WABLE VIDYA SHIVAJI	33	<i>Vidya</i>
E-415	22	72222441K	WAYAL PRATIK RAJENDRA	22	<i>Pratik</i>
E-416	00	72222416J	DHONE AKASH SURESH	00	
E-417	00	72222431B	PHADKE DNYANESHWAR DASHRATH	00	
E-418	00	72160148M	SASTE SWAPNIL BAPURAO	00	



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
Sharadchandra Pawar College of Engineering and Technology
Someshwarnagar, Baramati-412306
DEPARTMENT OF ELECTRICAL ENGINEERING
A.Y.-2023-24 (SEM-II)

Date-24/01/2024

NOTICE

All B.E Electrical students are hereby informed that, your **Progress Review-Project Presentation** will be scheduled on Fri, 02/02/2024 at 10.00 Am Onwards, Be present on time for presentation.

Along With: -

1. Revised Final Design
2. Tools and Techniques Used with justification
3. Partial Implementation/development
4. Partial Results

Arate
24/01/24

Project Coordinator



H.O.D.

(Electrical Engineering)



Class : BE Electrical Engg.

Date:

Group No.	NAME	Requirement Specification (10)	Literature Review (revised) (5)	Detailed Design (10)	Experimental Setup/Simulation (10)	Performance Parameters (10)	Partial Conclusion (5)	Total Marks (50)	Sign
1	SANIYA RAVINDRA PILANE	7	3	7	6	7	3	33	Saniya
	DIKSHA RAJENDRA KINHALE	8	4	7	7	7	4	37	Diksha
	DHASADE PRITEE MOHAN	8	4	7	7	7	3	36	Pritee
2	JARAD RUSHIKESH VISHWAS	7	4	7	7	6	4	35	Jarad
	SHINDE ADITYA UTTAM	6	3	6	7	5	3	30	Aditya
	DHUMAL SHUBHAM JAYANT	6	3	6	7	5	4	31	Shubham
3	WABLE VIDYA SHIVAJI	7	3	7	6	7	4	34	Wable
	KALBHOR SAKSHI TUKARAM	7	3	6	7	7	4	34	Sakshi
	AADKI ABHISHEK YASHWANT	6	3	6	5	6	3	30	Aadki
4	OM SANJAY KUDALE	0	0	0	0	0	0	0	Om
	WABALE SANDIP DIPAK	0	0	0	0	0	0	0	Sandip
	GAIKWAD RUSHIKESH DASHARATH	0	0	0	0	0	0	0	Rushikesh
5	WAYAL PRATIK RAJENDRA	3	7	5	7	7	3	32	Pratik
	JAGTAP NISHIKANT MADHUKAR	3	7	6	5	7	3	31	Nishikant
	BHANDWALKAR SANKET DHANANJAY	3	7	6	6	7	3	32	Sanket
6	DHONE AKASH SURESH	0	0	0	0	0	0	0	Akash
	PHADKE DNYANESHWAR DASHRATH	0	0	0	0	0	0	0	Dnyaneshwar
	SASTE SWAPNIL BAPURAO	0	0	0	0	0	0	0	Swapnil

(Signature)
Project Coordinator

(Signature)
HOD
Electrical Dept.



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
**Sharadchandra Pawar College of Engineering
and Technology**
Someshwarnagar, Baramati-412306
DEPARTMENT OF ELECTRICAL ENGINEERING



CERTIFICATE

This is to certify that the Seminar work entitled “**Wireless Charging System Using Solar Panel**” submitted by **Jarad Rushikesh Vishwas, Shinde Aditya Uttam, Dhumal Shubham Jayant** is a record of bonafide work carried out by his in the department of Electrical Engineering, SSPM's Sharadchandra Pawar College of Engineering and Technology Someshwarnagar, Baramati-412306 under my guidance and supervision in partial fulfillment of requirements for the award of **Degree of Bachelors of Electrical Engineering** as prescribed by the S. P. Pune University, in the academic year 2023-2024.

Place: Someshwarnagar
Date: 28/5/2024

Sorate
28/5/24

Prof. S. B. Sorate
Project co-ordinator

Gadhave

Prof. G. G. Gadhave
HOD

Deokar
External Sr. Examiner

Deokar
Dr. S. A. Deokar
Principal 28/05/24



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
**Sharadchandra Pawar College of Engineering
and Technology**

Someshwarnagar, Baramati-412306
DEPARTMENT OF ELECTRICAL ENGINEERING



CERTIFICATE

This is to certify that the Project work entitled "**IOT Solution For Industrial Safety**" submitted by **Dhasade Pritee Mohan, Kinhale Diksha Rajendra, Pilane Saniya Ravindra** is a record of bonafide work carried out by herin the department of Electrical Engineering, SSPM's Sharadchandra Pawar College of Engineering and Technology Someshwarnagar, Baramati-412306 under my guidance and supervision in partial fulfillment of requirements for the award of **Degree of Bachelors of Electrical Engineering** as prescribed by the S. P. Pune University, in the academic year 2023-2024.

Place: Pune / Someshwarnagar
Date: 25/5/2024

Name of Guide
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External Examiner

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SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
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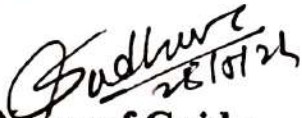
DEPARTMENT OF ELECTRICAL ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **“Vehicle accident detection and warning system”** submitted by **kalbhor Sakshi Tukaram , Wable Vidya Shivaji, Aadki Abhishek Yashwanth** is a record of bonafide work carried out by our in the department of Electrical Engineering, SSPM's Sharadchandra Pawar College of Engineering and Technology Someshwarnagar, Baramati-412306 under my guidance and supervision in partial fulfillment of requirements for the award of **Degree of Bachelors of Electrical Engineering** as prescribed by the S. P. Pune University, in the academic year 2023-2024.

Place: Pune / Someshwarnagar

Date: / / 2024

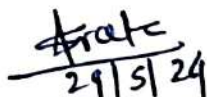

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