



Shram Sadhana Bombay Trust's  
**COLLEGE OF ENGINEERING & TECHNOLOGY**  
BAMBHORI, POST BOX NO. 94, JALGAON- 425001. (M.S.)  
Included Under Section 2(f) & 12(B) of the UGC Act, 1956  
ISO 9001:2015 Certified



November 2021

# ELECTIVE COURSE SYSTEM

Phone: (0257) 2258393, 94, 95 Fax: (0257) 2258392  
Website- [www.sscoetjalgaon.ac.in](http://www.sscoetjalgaon.ac.in) Email: [sscoetjal@gmail.com](mailto:sscoetjal@gmail.com)

### **1.2.1: Percentage of Programmes in which elective course system has been implemented**

#### **Findings of DVV:**

- 1) Provide Affiliating University letter stating implementation of CBCS.
- 2) Provide Structure of the program clearly indicating courses, credits/ Electives as approved by the competent board.
- 3) Provide List of programs in which CBCS/Elective course system implemented in the last completed academic year certified by the Registrar of the affiliating university.

#### **Response of HEI:**

<b>Sr. No.</b>	<b>Description</b>	<b>Page No.</b>
1	Affiliating University letter stating implementation of CBCS	<b>03</b>
2	Structure of the program clearly indicating courses, credits/ Electives as approved by the competent board.	<b>04</b>
3	List of programs in which CBCS/Elective course system implemented in the last completed academic year certified by the Registrar of the affiliating university.	<b>05</b>

### **1. Affiliating University letter stating implementation of CBCS**

There is no CBCS implemented in the UG & PG curriculum of programme offered by our institute by the affiliated University.

**2. Structure of the program clearly indicating courses, credits/ Electives as approved by the competent board.**

Link for Structure of the program indicating credits/Electives courses as approved by the University is as follow:

[Structure of Program](#)

3. List of programs in which CBCS/Elective course system implemented in the last completed academic year certified by the Registrar of the affiliating university.



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 Grade B++ (2.91) NAAC Accredited

Website- [www.scoetjalgaon.ac.in](http://www.scoetjalgaon.ac.in)  
 Email: [sscoetjal@gmail.com](mailto:sscoetjal@gmail.com)  
 Principal: Dr. G.K. Patnaik  
 M.E.(CSE), Ph.D. (CSE)

Phone No. (0257) 2258393  
 Fax No. (0257) 2258392

**Elective courses in the academic year 2020 – 21**

This institute conducting UG and PG programmes affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. The affiliating university has already implemented Elective course system in the colleges under its jurisdiction. As per syllabus approved by the University, the list of programs in which Elective course system along with course name implemented in the academic year 2020 – 21 is as follows.

Sr. No	Programme name	Elective Course	
1	BE (Biotechnology Engineering)	Professional Elective Course –I	Food Biotechnology
		Open Elective Course – I	Biofuel & Alcohol Technology
		Professional Elective Course – II	Plant Biotechnology
		Open Elective Course – II	Bioprocess Instrumentation & Analysis
		Professional Elective Course – III	Crop Improvement
		Professional Elective Course – IV	Analytical Methods in Biotechnology
		Open Elective Course – III	Bioprocess Optimization and Plant Design
		Professional Elective Course – V	Molecular Biology of Cancer
		Professional Elective Course – VI	Industrial Biotechnology
		Open Elective Course – IV	Agricultural Biotechnology
2	BE (Chemical Engineering)	Professional Elective Course –I	Process Equipment Design
		Open Elective Course – I	Energy Engineering
		Professional Elective Course – II	Instrumentation & Instrumental Analysis
		Open Elective Course – II	Alternative Fuels

UG Programs- Engineering Chemical, Civil, Computer, Electrical, Electronics & Telecommunication, Mechanical  
 PG Programs - Engineering MCA  
 - Management: MBA

		Professional Elective Course – III	Transport Phenomenon
		Professional Elective Course – IV	Computer Aided Process Equipment Design Plant Utility
		Open Elective Course – III	Plant Utility
		Professional Elective Course – V	Chemical Plant Design and Project Engineering
		Professional Elective Course – VI	Petrochemical Technology
		Open Elective Course– IV	Energy Conservation and Management
3	BE (Civil Engineering)	Professional Elective Course –I	Concrete Materials
		Open Elective Course – I	Project management techniques
		Professional Elective Course – II	Building Construction Practice
		Open Elective Course – II	Smart City Planning
		Professional Elective Course – III	Advanced Steel Structural analysis and design
		Professional Elective Course – IV	Advanced Water Treatment Technology
		Open Elective Course – III	Geology for Engineers
		Professional Elective Course – V	Advanced Concrete Structural Analysis and Design
		Professional Elective Course – VI	Industrial wastewater engineering
		Open Elective Course– IV	Biotechnology of waste Treatment
4	BE (Computer Engineering)	Professional Elective Course –I	Artificial Intelligence
		Open Elective Course – I	Cyber Law and Ethics
		Professional Elective Course – II	Neural Networks
		Open Elective Course – II	Project Management
		Professional Elective Course – III	Machine Learning
		Professional Elective Course – IV	Data Mining
		Open Elective Course – III	Quantitative Reasoning and Problem Solving
		Professional Elective Course – V	Soft Computing

UG Programs- Engineering Chemical, Civil, Computer, Electrical, Electronics & Telecommunication, Mechanical  
 PG Programs - Engineering MCA  
 - Management: MBA



		Professional Elective Course – VI	Data Analytics
		Open Elective Course– IV	Logical Reasoning and Problem Solving
5	BE (Electrical Engineering )	Professional Elective Course –I	Signals and Systems
		Open Elective Course – I	Electronics Measurement
		Professional Elective Course – II	Industrial Automation
		Open Elective Course – II	Power Plant Engineering
		Professional Elective Course – III	Electrical Energy Conservation and Auditing
		Professional Elective Course – IV	Power System Dynamics and Control
		Open Elective Course – III	VLSI Design and Technology
		Professional Elective Course – V	Microwave Theory and Technology
		Professional Elective Course – VI	Embedded System
		Open Elective Course– IV	Automotive Electronics And Electric Vehicle
6	BE (E & TC Engineering)	Professional Elective Course –I	Power Electronics
		Open Elective Course – I	Biomedical Instrumentation
		Professional Elective Course – II	C-MOS Design
		Open Elective Course – II	Wireless Sensor Networks
		Professional Elective Course – III	Fiber Optic Communication
		Professional Elective Course – IV	Satellite Communication
		Open Elective Course – III	Artificial Intelligence and Machine Learning
		Professional Elective Course – V	Microwave Theory and Technique
		Professional Elective Course – VI	Embedded System
		Open Elective Course– IV	Automotive Electronics and Electric Vehicle
	BE (Information	Professional Elective Course –I	Artificial Intelligence
		Open Elective Course – I	Cyber Law and Ethics
		Professional Elective Course – II	Neural Networks

UG Programs- Engineering: Chemical, Civil, Computer, Electrical, Electronics & Telecommunication, Mechanical  
 PG Programs - Engineering: MCA  
 - Management: MBA

7	Technology)	Open Elective Course – II	Project Management
		Professional Elective Course – III	Machine Learning
		Professional Elective Course – IV	Data Mining
		Open Elective Course – III	Quantitative Reasoning and Problem Solving
		Professional Elective Course – V	Soft Computing
		Professional Elective Course – VI	Data Analytics
		Open Elective Course– IV	Logical Reasoning and Problem Solving
8	BE (Mechanical Engineering	Professional Elective Course –I	Energy Conservation & Management
		Open Elective Course – I	Industrial Safety Engineering
		Professional Elective Course – II	Mechanical Estimation and Costing/Internal Combustion Engine
		Open Elective Course – II	Piping Engineering
		Professional Elective Course – III	Operation Research
		Professional Elective Course – IV	Power Plant Engineering
		Open Elective Course – III	Research Methodology
		Professional Elective Course – V	Renewable Energy Sources & Technology
		Professional Elective Course – VI	Automobile Engineering
Open Elective Course– IV	Automobile Engineering		
9	MBA	Elective	<b>Finance Management</b>
			304 A: Banking & Investment Management
			305 A: Tax Management
			306 A: Strategic Financial Management
			307 A: Tally & Advanced Excel
			405 A: Financial Derivatives
			406 A: International Financial Management

UG Programs - Engineering: Chemical, Civil, Computer, Electrical, Electronics & Telecommunication, Mechanical  
PG Programs - Engineering: MCA  
- Management: MBA



			407 A: Case Studies in Financial Management
			<b>Marketing Management</b>
			304 B: Product & Brand Management
			305 B: Consumer Behavior & Service Marketing
			306 B: Sales & Distribution
			307 B: Global Marketing Management
			405 B: Marketing Research & Bus. Analytics
			406 B: Retail Management & Digital Marketing
			407 B: Case Studies in Marketing
			<b>Human Resource Management</b>
			304 C: Industrial Relations & Labour Welfare
			305 C: Human Capital Mgt & Development
			306 C: Strategic Human Resource Management
			307 C: Labour Laws
			405 C: Performance & Compensation Mgt
			406 C: International HRM
			407 C: Case Studies in HRM



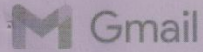
*[Signature]*  
PRINCIPAL

**PRINCIPAL**  
SSBT's College of Engineering & Technology  
Bambhori, Jalgaon-425001 (M.S.)

UG Programs- Engineering: Chemical, Civil, Computer, Electrical, Electronics & Telecommunication, Mechanical  
PG Programs - Engineering: MCA  
- Management: MBA

12/20/21, 1:24 PM

Gmail - List of Elective subjects of I Semester of B.E. (C.G.P.A.) for A.Y. 2020-21



coet bambhori <sscoetjal@gmail.com>

## List of Elective subjects of I Semester of B.E. (C.G.P.A.) for A.Y. 2020-21

1 message


coet bambhori <sscoetjal@gmail.com>  
To: preexamconfidential@gmail.com  
Bcc: ssbtcoetexam@gmail.com

Wed, Dec 23, 2020 at 2:14 PM

Sir,

With reference to the above subject please find attached herewith our college letter in respect of List of Elective subjects of I Semester of B.E. (C.G.P.A.) for A.Y. 2020-21 for needful.

Principal  
SSBT's College of Engg. & Technology,  
Bambhori, Jalgaon. (M.S.)

 List of Elective subjects of BE CGPA for A.Y. 2020-21.pdf  
279K

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Email: [ssoetjal@gmail.com](mailto:ssoetjal@gmail.com)  
Principal: Dr. K.S.Wani  
M. Tech., DBM, Ph.D.

Phone No. (0257) 2258393  
Fax No. (0257) 2258392

Ref. No. COET/Exam./ 807 /12/20

Date: 22/12/2020

To  
The Director,  
Board of Examination & Evaluation,  
KBC North Maharashtra University, Jalgaon.

Sub.- List of Elective subjects of first semester of B.E. (C.G.P.A.) for the academic year 2020-21.  
Ref.- Your letter No. KBCNMU/7A/Te-4/4111/2020, dated 08/12/2020.

Sir,

With reference to above subject, the following is the list of Elective subjects offered by the department mentioned against their names of BE (CGPA) for the academic year 2020-21 in Term-I:

Sr.	Class/course	Professional Elective Course-III	Professional Elective Course-IV	Open Elective Course-III
1	B.E. Civil (CGPA)	Advanced Steel Structural Analysis and Design	Advanced Water Treatment Technology	Solid and Hazardous Waste Management
2	B.E. Chemical (CGPA)	Transport Phenomenon	Computer Aided Process Equipment Design	Plant Utility
3	B.E. Computer (CGPA)	Machine Learning	Data Mining	Quantitative Reasoning and Problem Solving
4	B.E. E&TC (CGPA)	Fibre Optic Communication	Satellite Communication	Artificial Intelligence & Machine Learning
5	B.E. Mechanical (CGPA)	Operation Research	Power Plant Engineering	Research Methodology
6	B.E. I.T. (CGPA)	Machine Learning	Data Mining	Quantitative Reasoning and Problem Solving
7	B.E. Biotech. (CGPA)	Crop Improvement	Analytical Methods in Biotechnology	Bioprocess Optimization and Plant Design
8	B.E. Electrical (CGPA)	Electrical Energy Conservation and Auditing	Power System Dynamics & Control	VLSI Design and Technology

Please accept the same and acknowledge the receipt.

Thanking you,

Yours faithfully,

  
22.12.2020  
PRINCIPAL

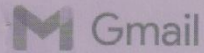
Copy to:- 1) Asstt. Registrar (Exam.- Confidential-Purvardha), KBC NMU, Jalgaon  
SSBT'S COLLEGE OF ENGG. & TECH.  
BAMBHORI, (JALGAON)

UG Programs - Engineering: Bio-Technology, Chemical, Civil, Computer, Electrical, Electronics & Telecommunication, Information Technology, Mechanical  
PG Programs - Engineering: Computer, & Electrical  
- Management: MBA



12/20/21, 1:25 PM

Gmail - List of Elective subjects of I Semester of TE (C.G.P.A.) for A.Y. 2020-21



coet bambhori <sscoetjal@gmail.com>

## List of Elective subjects of I Semester of TE (C.G.P.A.) for A.Y. 2020-21

1 message


coet bambhori <sscoetjal@gmail.com>  
To: preexamconfidential@gmail.com  
Bcc: ssbtcetexam@gmail.com

Wed, Dec 23, 2020 at 2:21 PM

Sir,

With reference to the above subject please find attached herewith our college letter in respect of List of Elective subjects of I Semester of T.E. (C.G.P.A.) for A.Y. 2020-21 for needful.

Principal  
SSBT's College of Engg. & Technology,  
Bambhori, Jalgaon. (M.S.)

 List of Elective subjects of I Sem of TE CGPA for A.Y. 2020-21.pdf  
258K

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Email: [ssoetjal@gmail.com](mailto:ssoetjal@gmail.com)  
Principal: Dr. K.S.Wani  
M. Tech., DBM, Ph.D.

Phone No. (0257) 2258393  
Fax No. (0257) 2258392

Ref. No. COET/Exam./ 806 /12/20  
To

Date: 22/12/2020

The Director,  
Board of Examination & Evaluation,  
KBC North Maharashtra University, Jalgaon.

Sub.- List of Elective subjects of first semester of T.E. (C.G.P.A.) for the academic year 2020-21.

Ref.- Your letter No. KBCNMU/7A/Te-4/4111/2020, dated 08/12/2020.

Sir,

With reference to above subject, the following is the list of Elective subjects offered by the department mentioned against their names of TE (CGPA) for the academic year 2020-21 in Term-I:

Sr.	Class/course	Professional Elective Course-I	Open Elective Course-I
1	T.E. Civil (CGPA)	Concrete Materials	Product Management Techniques
2	T.E. Chemical (CGPA)	Process Equipment Design	Energy Engineering
3	T.E. Computer (CGPA)	Artificial Intelligence	Cyber Law and Ethics
4	T.E. E&TC (CGPA)	Power Electronics	Biomedical Instrumentation
5	T.E. Mechanical (CGPA)	i) Energy Conservation & Management ii) Tribology	Industrial Safety Engineering
6	T.E. I.T. (CGPA)	E-Commerce	E-Waste Management
7	T.E. Biotech. (CGPA)	Food Biotechnology	Biofuel & Alcohol Technology
8	T.E. Electrical (CGPA)	Signals and Systems	Electronics Measurement

Please accept the same and acknowledge the receipt.

Thanking you,

Yours faithfully,

  
22.12.2020  
PRINCIPAL  
SSBT'S COLLEGE OF ENGG. & TECH.  
BAMBHORI, (JALGAON)

Copy to:- 1) Asstt. Registrar (Exam.- Confidential-Purvardha),  
KBC NMU, Jalgaon

UG Programs - Engineering: Bio-Technology, Chemical, Civil, Computer, Electrical, Electronics & Telecommunication, Information Technology, Mechanical  
PG Programs - Engineering: Compute, & Electrical  
- Management: MBA





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Phone No. (0257) 2258393

Email: [ssoetjal@gmail.com](mailto:ssoetjal@gmail.com)

Fax No. (0257) 2258392

Principal: Dr. K.S.Wani

M. Tech., DBM, Ph.D.

Ref. No. COET/Exam./ / 20

Date: 25/06/2021

To,

Director

Board of Examination and Evaluation,

K.B.C. North Maharashtra University, Jalgaon

Sub.- List of Elective-II & Elective-III subjects of second semester of B.E. (All Branches) for the academic year 2020-21.

Ref :- KBC/NMU/7F/ENGG./1375/2021, Dated 24/06/2021.

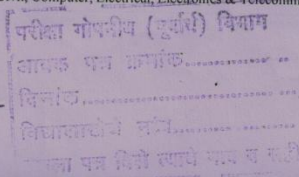
Sir,

With reference to the above subject, we are submitting herewith the list of Elective subjects of BE Sem.-VIII (All branches) for the academic year 2020-21 in Term-II as mentioned below.

Sr.	Class/ Course	Professional Elective Course – V	Professional Elective Course – VI	Open Elective Course – IV
1	BE Civil	Advanced Concrete Structural Analysis and Design	Industrial wastewater engineering	Biotechnology of waste treatment
2	BE Chem.	Chemical Plant Design and Project Engineering	Petrochemical Technology	Energy Conservation and Management
3	BE Comp.	Soft Computing	Data Analytics	Logical Reasoning and Problem Solving
4	BE E&Tc	Microwave Theory and Technique	Embedded System	Automotive Electronics and Electric Vehicle
5	BE Mech.	Renewable Energy Sources and technology	Automobile Engineering	Industrial and System Engineering
6	BE Electri.	Flexible AC Transmission System & Power Quality	Electric and Hybrid Vehicles	Digital Signal Processing
7	BE I.T.	Soft Computing	Blockchain	Logical Reasoning and Problem Solving
8	BE Biotech.	Molecular Biology of Cancer	Industrial Biotechnology	Agricultural Biotechnology

UG Programs - Engineering: Bio-Technology, Chemical, Civil, Computer, Electrical, Electronics & Telecommunication, Information Technology, Mechanical  
PG Programs - Engineering: Computer, Electrical  
- Management: MBA


*ASL*  
26/8/2021



Please accept the same and acknowledge the receipt.

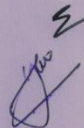
Thanking you,

Yours faithfully,

  
25.6.2021

Principal

SSBT's College of Engg. & Technology  
Bambhori, Jalgaon-425001.(M.S.)

  
25/6/2021

Copy to:-1) Asstt. Registrar (Confidential Pre Exam.)  
N.M.U., Jalgaon

UG Programs - Engineering: Bio-Technology, Chemical, Civil, Computer, Electrical, Electronics & Telecommunication, Information Technology, Mechanical  
PG Programs - Engineering: Computer, Electrical  
- Management: MBA





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Principal: Dr. K.S.Wani  
M. Tech., DBM, Ph.D.

Phone No. (0257) 2258393  
Fax No. (0257) 2258392

Ref. No. COET/Exam./ / 20

Date: 25/06/2021

To,  
Director  
Board of Examination and Evaluation,  
K.B.C. North Maharashtra University, Jalgaon

Sub.- List of Elective-II Professional & Open Elective-II subjects of second semester of T.E. (All Branches) of 60-40 Pattern for the academic year 2020-21.

Ref :- KBC/NMU/7F/ENGG./1375/2021, Dated 24/06/2021.

Sir,

With reference to the above subject, we are submitting herewith the list of Elective subjects of TE Sem.-VI (All branches) for the academic year 2020-21 in Term-II as mentioned below.

Sr.	Class/ Course	Open Elective-II Subject	Professional Elective-II Subject
1	TE Civil	Smart City Planning	Building Construction Practice
2	TE Chem.	Alternative Fuel	Instrumentation & Instrumental Analysis
3	TE Comp.	Project Management	Neural Networks
4	TE E&Tc	Wireless Sensor Network	C-MOS Design
5	TE Mech.	Piping Engineering	1) Mechanical Estimation & Costing 2) Internal Combustion Engine
6	TE Elect.	Power Plant Engineering	Industrial Automation
7	TE I.T.	Project Management	Embedded Systems
8	TE Biotech.	Bioprocess Instrumentation & Analysis	Plant Biotechnology

Please accept the same and acknowledge the receipt.

Thanking you,

Yours faithfully,

Copy to:-1) Asstt. Registrar (Confidential **Pre Exam.**)  
N.M.U., Jalgaon

Principal

SSBT's College of Engg. & Technology  
Bambhori, Jalgaon-425001.(M.S.)

UG Programs - Engineering: Bio-Technology, Chemical, Civil, Computer, Electrical, Electronics & Telecommunication, Information Technology, Mechanical  
PG Programs - Engineering: Computer, Electrical  
- Management: MBA