

**D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE,
KOLHAPUR
SCHOOL OF ENGINEERING AND TECHNOLOGY
SYLLABUS STRUCTURE
B. Tech. (COMPUTER SCIENCE AND ENGINEERING)**

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B. Tech. (COMPUTER SCIENCE AND ENGINEERING)**

DISTRIBUTION OF SUBJECT GROUPS

- 1 Basic Science Courses (BSC)
- 2 Engineering Science Courses (ESC)
- 3 Humanities & Social Science Including Management Courses (HSSMC)
- 4 Professional Core Courses (PCC)
- 5 Professional Elective Courses (PEC)
- 6 Open Elective Courses
- 7 Seminar/Project/Internship/Industrial Training
- 8 Mandatory Courses

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DISTRIBUTION OF COURSES IN SUBJECT GROUPS

1) BASIC SCIENCE COURSES (BSC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1			Applied Mathematics – I	3	1	-	4
2			Engineering Physics	3	-	2	4
3			Engineering Chemistry	3	-	2	4
4			Applied Mathematics – II	3	1	-	4
5			Probability and Statistics	2	-	-	2
6			Discrete Mathematics	3	1	-	4
7			Microprocessor 8085/86	3		2	4
TOTAL CREDITS							26

2) ENGINEERING SCIENCE COURSES (ESC)

Sr.N o.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1			Fundamentals of Electronics and Electrical	3	-	2	4
2			Computer Programming in C	3	-	2	4
3			Workshop Practice Lab-I		-	2	1
4			Engineering Mechanics	3	-	2	4
5			Object Oriented Programming	3	-	2	4
6			Engineering Drawing and Design	2		4	4
7			Workshop Practice - II			2	1
TOTAL CREDITS							22

3) Humanities & Social Science Including Management Courses (HSSMC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1			Engineering Exploration			4	2
2			Professional Communication	2	-	2	3
3			Project Management	3	-	-	3
4			Social Innovation		1	2	3
5			Foreign language (German / Japanese/ Russian) (Non credit)	1			
6			E Commerce	2	-	-	2
TOTAL CREDITS							13

4) PROFESSIONAL CORE COURSES (PCC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1			Data Communication and Networking	3	1		4
2			Advanced Data Structure	3		2	4
3			HTML Using CSS	2		2	3
4			Theory of Computation and Finite Automata	3	1		4
5			Computer Organization and Architecture	2	1		3
6			Advanced Computer Network	3		2	4
7			Software Engineering	3			3
8			Operating System-I	3		2	4
9			Java Programming	2		2	3
10			Computer Algorithm	3	1		4
11			Operating System-II	3		2	4
12			Relational Database Management System	3		2	4
13			Python Programming	2		2	3
14			Web Technology-I	2		2	3
15			Object Oriented Modeling and Design	3	1		4
16			System Programming and	3		2	4

			Design				
17			Advance Database System	3		2	4
18			Web Technology-II	2		2	3
19			Vb.Net	2		2	3
20			Parallel Computer Architecture	3	1		4
21			Big Data Analytics	3	1		4
22			R Programming	2		2	3
TOTAL CREDITS							84

5) PROFESSIONAL ELECTIVE COURSES (PEC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1			Elective –I				
		1	Cloud Computing	2	1		3
		2	Internet of Things	2	1		3
2			Elective-II				
		1	Machine Learning	2	1		3
		2	Compiler Design	2	1		3
3			Elective-III				
		1	Data Mining	2	1		3
		2	Artificial Neural Network	2	1		3
4			Elective-IV				
		1	Sensor Network	2	1		3
		2	Soft Computing	2	1		3
TOTAL CREDITS							12

6) OPEN ELECTIVE COURSES (OEC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1			Elective –I				
		1	Cloud Computing	2	1		3
		2	Internet of Things	2	1		3
2			Elective-II				
		1	Machine Learning	2	1		3
		2	Compiler Design	2	1		3
3			Elective-III				
		1	Data Mining	2	1		3
		2	Artificial Neural Network	2	1		3
4			Elective-IV				
			Sensor Network	2	1		3
			Soft Computing	2	1		3
TOTAL CREDITS							12

7) SEMINAR/PROJECT/INTERNSHIP/INDUSTRIAL TRAINING

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1			Mini Project/ Seminar			2	1
2			Domain Specific Mini Project			2	1
3			Project Phase-I			4	2
4			Project Phase-II			4	2
TOTAL CREDITS							06

8) MANDATORY COURSES

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1			Mini Project/ Seminar			2	1
2			Domain Specific Mini Project			2	1
3			Project Phase-I			4	2
4			Project Phase-II			4	2
TOTAL CREDITS							06

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SUMMARY OF DISTRIBUTION OF COURSES IN ALL SEMESTER

Sr. No.	Category	No. of Subject in each category	Suggested Breakup of credit of AICTE	Total
1	HUMANITIES & SOCIAL SCIENCE INCLUDING MANAGEMENT COURSES (HSSMC)	5	12	13
2	BASIC SCIENCE COURSES (BSC)	7	25	26
3	ENGINEERING SCIENCE COURSES (ESC)	7	24	22
4	PROFESSIONAL CORE COURSES (PCC)	22	48	84
5	PROFESSIONAL ELECTIVE COURSES (PEC)	4	18	12
6	OPEN ELECTIVE COURSES (OEC)	3	18	9
7	SEMINAR/ MINI PROJECT/ PROJECT/ INTERNSHIP/ INDUSTRIAL TRAINING	4	15	6
8	MANDATORY COURSES	4	NC	NC
Total		57	160	166

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Semester wise Distribution of Courses

Number of courses	SEMESTER							
	I	II	III	IV	V	VI	VII	VIII
1	Applied Mathematics – I	Applied Mathematics – II	Probability and Statistics	Theory of Computation and Finite Automata	Computer Algorithm	Object Oriented Modeling and Design	Parallel Computer Architecture	Project Management
2	Applied Chemistry	Applied Chemistry	Discrete Mathematics	Computer Organization and Architecture	Operating System-II	System Programming and Design	Big Data Analytics	E Commerce
3	Computer Programming in C	Object Oriented Programming	Data Communication and Networking	Advanced Computer Network	Relational Database Management System	Advance Database System	Vb .Net(Lab)	R Programming(Lab)
4	Engineeing Mechanics	Engineeing Mechanics	Microprocessor 8085/86	Software Engineering	Python Programming	Web Technology-II	Project Phase I	Project Phase II
5	Fundamentals of Electronics and Electrical	Fundamentals of Electronics and Electrical	Advanced Data Structure	Operating System-I	Web Technology-I	Domain Specific Mini Project(Lab)	Professional Elective -III	Professional Elective -IV
6	Social Innovation	Engineering Exploration	HTML Using CSS	Java Programming	Operating System-II(Lab)	System Programming and Design(Lab)	Open Elective - II	Open Elective - III

7	Applied Mathematics – I	Applied Mathematics – II	Microprocessor 8085/86(Lab)	Advanced Computer Network(Lab)	Relational Database Management System(Lab)	Advance Database System(Lab)	--	--
8	Applied Chemistry Lab.	Applied Chemistry Lab.	Advanced Data Structure(Lab)	Software Engineering(Lab)	Python Programming(Lab)	Web Technology-II(Lab)	--	--
9	Computer Programming in C lab	Object Oriented Programming	HTML Using CSS(Lab)	Operating System-I(Lab)	Web Technology-I(Lab)	Professional Elective -II	--	--
10	Engineering Mechanics Lab.	Engineering Mechanics Lab.	Environmental studies	Java Programming(Lab)	Professional Elective -I	--	--	--
11	Fundamentals of Electronics and Electrical lab	Fundamentals of electronics and Electrical lab	--	Mini Project	Open Elective - I	--	--	--
12	Workshop Practice I	Workshop Practice II	--	--	--	--	--	--
13	Foreign language (German / Japanese/ Russian) (Non credit)	--	--	--	--	--	--	--
14	Democracy, Elections and Good Governance (Non Credit Mandatory Course)	--	--	--	--	--	--	--

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SEMESTERWISE CREDITS & MARKS

SEM	CREDITS	NO. OF SUBJECT	TOTAL MARKS
I	23	14	825
II	22	12	775
III	20	10	750
IV	23	10	750
V	24	10	750
VI	19	08	700
VII	19	07	600
VIII	16	07	600
TOTAL	166	78	5750

Note:* Democracy, Election & Good Governance subject counted in II SEM

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SCHEME OF TEACHING AND EXAMINATION
FIRST YEAR B. TECH. (COMPUTER SCIENCE AND ENGINEERING)
SEMESTER- I (Chemistry Group)

Sr. No.	Course Code	Course Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-I	3	-	-	03	100						
2			Applied Chemistry	3	-	-	03	100						
3			Computer Programming in C	3	-	-	03	100						
4			Engineering Mechanics	3	-	-	03	100						
5			Fundamental of electronics and Electrical	3	-	-	03	100						
6			Social Innovation	-	1	2	02	50						
7			Applied Mathematics-I	-	1	-	01	25						
8			Applied Chemistry Lab	-	-	2	01	25						
9			Computer Programming in C Lab	-	-	2	01	25						
10			Engineering Mechanics Lab	-	-	2	01	25						
11			Fundamental of electronics and Electrical Lab	-	-	2	01	25						
12			Workshop Practice Lab-I	-	-	2	01	50						
13			Foreign language (German/Japanese/ Russian) (Non Credit)	1	-	-	-	100						
14			Democracy, Election & Good Governance (Non Credit Mandatory Course)*											
			Total	16	2	12	23	825						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

SEE: Semester End Evaluation

IPE: Internal Practical Evaluation

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FIRST YEAR B. TECH. (COMPUTER SCIENCE AND ENGINEERING)
SEMESTER- II

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Cred its		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-II	3	-	-	03	100						
2			Applied Physics	3	-	-	03	100						
3			Object oriented Programming	3	-	-	03	100						
4			Engineering Drawing	2	-	-	02	100						
5			Engineering Exploration	-	-	4	02	100						
6			Professional Communication	2	-	-	02	100						
7			Applied Mathematics-II	-	1	-	01	25						
8			Applied Physics Lab	-	-	2	01	25						
9			Object oriented Programming Lab	-	-	2	01	25						
10			Engineering Drawing Lab	-	-	4	02	25						
11			Professional; Communications Lab	-	-	2	01	25						
12			Workshop Practice Lab-II	-	-	2	01	50						
			Total	13	1	16	22	775						

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SCHEME OF TEACHING AND EXAMINATION
FIRST YEAR B. TECH. ((COMPUTER SCIENCE AND ENGINEERING)
SEMESTER- I (Physics Group)

Sr. No .	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-I	3	-	-	03	100						
2			Applied Physics	3	-	-	03	100						
3			Computer Programming in C	3	-	-	03	100						
4			Engineering Drawing	2	-	-	02	100						
5			Social Innovation	-	1	2	02	50						
6			Professional Communication	2	-	-	02	100						
7			Applied Mathematics-I	-	1	-	01	25						
8			Applied Physics Lab	-	-	2	01	25						
9			Computer Programming in C Lab	-	-	2	01	25						
10			Engineering Drawing Lab	-	-	4	02	25						
11			Professional; Communications Lab	-	-	2	01	25						
12			Workshop Practice Lab-I	-	-	2	01	50						
13			Foreign language (German/Japanese/ Russian) (Non Credit)	1	-	-	-	100						
14			Democracy, Election & Good Governance (Non Credit Mandatory Course)*											
			Total	14	2	14	22	825						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

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FIRST YEAR B. TECH. (COMPUTER SCIENCE AND ENGINEERING)
SEMESTER- II

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-II	3	-	-	03	100						
2			Applied Chemistry	3	-	-	03	100						
3			Object oriented Programming	3	-	-	03	100						
4			Engineering Mechanics	3	-	-	03	100						
5			Engineering Exploration	-	-	4	02	100						
6			Fundamental of electronics and Electrical	3	-	-	03	100						
7			Applied Mathematics-II	-	1	-	01	25						
8			Applied Chemistry Lab	-	-	2	01	25						
9			Object oriented Programming Lab	-	-	2	01	25						
10			Engineering Mechanics Lab	-	-	2	01	25						
11			Fundamental of electronics and Electrical Lab	-	-	2	01	25						
12			Workshop Practice Lab-II	-	-	2	01	50						
			Total	15	1	14	23	775						

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SECOND YEAR B. TECH. (COMPUTER SCIENCE AND ENGINEERING) SEMESTER- III

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Probability and Statistics	2	-	-	02	100						
2			Discrete Mathematics	3	1	-	04	100						
3			Data Communication and Networking	2	1	-	03	100						
4			Microprocessor 8085/86	3	-	-	03	100						
5			Advanced Data Structure	3	-		03	100						
6			HTML Using CSS	2	-	-	02	100						
7			Microprocessor 8085/86 (Lab)	-		2	01	25						
8			Advanced Data Structure(Lab)	-	-	2	01	25						
9			HTML Using CSS(Lab)			2	01							
10			Environmental Studies	4	-	-		50						
Total				17	2	6	20	750						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

3) *Environmental Studies project evaluation and theory examination will be conducted at the end of the year (along with Sem IV end examination)

CSE: Continuous Semester Evaluation

SEE: Semester End Evaluation

IPE: Internal Practical Evaluation

EPE: External Practical Examination

IOE: Internal Oral Evaluation

EOE: External Oral Examination

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SECOND YEAR B. TECH. (COMPUTER SCIENCE AND ENGINEERING) SEMESTER- IV

Sr. No.	Course Code	Course Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Theory of Computation and Finite Automata	3	1	-	04	100						
2			Computer Organization and Architecture	2	1	-	03	100						
3			Advanced Computer Network	3	-	-	03	100						
4			Software Engineering	3	-	-	03	100						
5			Operating System	3	-	-	03	100						
6			Java Programming	2	-	-	02							
7			Advanced Computer Network(Lab)	-	-	2	01	50						
8			Software Engineering(Lab)	-	-	2	01	25						
7			Operating System I(Lab)	-	-	2	01	25						
9			Java Programming (Lab)	-	-	2	01	50						
10			Mini Project	-	-	2	01	50						
Total				16	2	10	23	750						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

3) * Environmental Studies project evaluation & theory examination will be conducted at the end of the year (along with Sem IV end examination)

CSE: Continuous Semester Evaluation

SEE: Semester End Evaluation

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EPE: External Practical Examination

IOE: Internal Oral Evaluation

EOE: External Oral Examination

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THIRD YEAR B. TECH. (COMPUTER SCIENCE AND ENGINEERING) SEMESTER- V

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Computer Algorithm	3	1	-	04	100						
2			Operating System-II	3	-	-	03	100						
3			Relational Database Management System	3	-	-	03	100						
4			Python Programming	2	-	-	02	-						
5			Web Technology-I(Lab)	2	-	2	03	100						
6			Operating System-II(Lab)	-	-	2	01	50						
7			Relational Database Management System(Lab)			2	01	50						
8			Python Programming(Lab)	-	-	2	01	50						
9			Professional Elective -I	2	1		03	100						
10			Open Elective - I	3	-		03	100						
Total				18	2	8	24	750						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

EPE: External Practical Examination

Open Elective I- 1) Computer Graphics and Multimedia

Professional Elective I- 1) Cloud Computing

SEE: Semester End Evaluation

IOE: Internal Oral Evaluation

2) Storage Network

2) Internet of Things

IPE: Internal Practical Evaluation

EOE: External Oral Examination

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THIRD YEAR B. TECH. (COMPUTER SCIENCE AND ENGINEERING) SEMESTER- VI

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Object Oriented Modeling and Design	3	1	-	04	100						
2			System Programming and Design	3	-	-	03	100						
3			Advance Database System	3	-	-	03	100						
4			Domain Specific Mini Project(Lab)	-	-	2	01	50						
5			System Programming and Design (Lab)	-	-	2	01	25						
6			Advance Database System (Lab)	-	-	2	01	50						
7			Web Technology II (Lab)	2		2	03	75						
8			Professional Elective II	2	1	-	03	100						
Total				16	2	8	19	700						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.
2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

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IPE: Internal Practical Evaluation

EPE: External Practical Examination

IOE: Internal Oral Evaluation

EOE: External Oral Examination

Professional Elective II: 1) Machine Learning 2) Compiler Design

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FINAL YEAR B. TECH. (COMPUTER SCIENCE AND ENGINEERING) SEMESTER- VII

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Parallel Computer Architecture	3	1	-	04	100						
2			Big Data Analysis	3	1	-	04	100						
3			Vb.Net	2	-		02							
4			Vb.Net(Lab)	-	-	2	01	75						
5			Project Phase -I	-	-	4	02	125						
6			Professional Elective III	2	1	-	03	100						
7			Open Elective- II	3	-	-	03	100						
Total				22	5	8	19	600						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

EPE: External Practical Examination

Open Elective II:

1) Cyber Law

Professional Elective III:

1) Data Mining

SEE: Semester End Evaluation

IOE: Internal Oral Evaluation

2) Information Security

2) Artificial Neural Network

IPE: Internal Practical Evaluation

EOE: External Oral Examination

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FINALYEAR B. TECH. (COMPUTER SCIENCE AND ENGINEERING) SEMESTER- VIII

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Project Management	3	-	-	03	100						
2			E Commerce	3	-	-	02	100						
3			R Programming	2	-		02							
4			R Programming (Lab)	-	-	2	01	75						
5			Project Phase -II	-	-	4	02	125						
6			Professional Elective IV	2	1	-	03	100						
7			Open Elective- III	3	-	-	03	100						
Total				12	1	6	16	600						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.
2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

EPE: External Practical Examination

Open Elective III:

1) Embedded System

Professional Elective IV:

1) Sensor Network

SEE: Semester End Evaluation

IOE: Internal Oral Evaluation

2) Principles of Industry 2.0

2) Soft Computing

IPE: Internal Practical Evaluation

EOE: External Oral Examination