# Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur



## Curriculum Structure for First Year Bachelor of Technology

(To be Implemented from Academic Year 2021-2022)

### **UG Programmes in**

- Computer Science & Engineering
- Computer Science & Engineering (Artificial Intelligence & Machine Learning)
- Computer Science & Engineering (Data Science)
- Electronics & Telecommunication Engineering
- Electrical Engineering

#### ----- The Courses Offered and Semester wise Structure of F.Y. B. Tech -----

(Computer Science & Engineering / Artificial Intelligence & Machine Learning / Data Science / Electronics & Telecommunication Engineering / Electrical Engineering)

Group 1: (Division A, B, C & D)

Semester - I									
Course Code	Course Name	Curriculum Component	Teaching Scheme						
			L	T	P	C			
Induction program as per AICTE guidelines									
UHSC0101	Engineering Mathematics-I	BS	3	1	-	4			
UHSC0102	Communication Skills	HS	2	-	-	2			
UHSC0103	Optics and Modern Physics	BS	3	-	-	3			
UHSC0104	Computer Aided Engineering Drawing (CAED)	ES	3	-	-	3			
UHSC0114	Introduction to Programming	ES	2	-	-	2			
UHSC0121	Communication Skills Lab	HS		-	2	1			
UHSC0122	Optics and Modern Physics Lab	BS	-	-	2	1			
UHSC0123	Computer Aided Engineering Drawing (CAED) Lab	ES	-	-	2	1			
UHSC0124	Workshop Practice Lab (Electronics & Computer)	ES	-	-	2	1			
UHSC0137	Introduction to Programming Lab	ES	-	-	2	1			
UHSA0151	Audit Course-I (Entrepreneurship Development)	AU	2	-	-	-			
	Total		15	1	10	19			
	Total Contact hours – 2	26, Total Credits	s - 19	•	•	•			

Semester - II									
Course Code	Course Name	Curriculum Component	Teaching Scheme						
			L	T	P	С			
Induction program as per AICTE guidelines									
UHSC0201	Engineering Mathematics-II	BS	3	1	-	4			
UHSC0205	Modern Chemistry	BS	3	-	-	3			
UHSC0206	Smart and Sustainable Construction	ES	2	-	-	2			
UHSC0207	Basic Electrical and Electronics Engineering	ES	4	-	-	4			
UHSC0215	Problem Solving using C	ES	3	-	-	3			
UHSC0225	Modern Chemistry Lab	BS	-	-	2	1			
UHSC0226	Smart and Sustainable Construction Lab	ES	-	-	2	1			
UHSC0227	Basic Electrical and Electronics Engineering Lab	ES	-	-	2	1			
UHSC0228	Mechanical Engineering Lab	ES	-	-	2	1			
UHSC0238	Problem Solving using C Lab	ES	-	-	2	1			
UHSA0252	Audit Course-II (Human Values and Professional Ethics)	AU	2	-	-	-			
		Total	17	1	10	21			
	Total Contact hours – 28, Total Credits - 21								

## (Computer Science & Engineering / Artificial Intelligence & Machine Learning / Data Science / Electronics & Telecommunication Engineering / Electrical Engineering)

Group 2: (Division E, F, G & H)

Semester - I									
Course Code	Course Name	Curriculum Component	Teaching Scheme						
			L	Т	P	С			
Induction program as per AICTE guidelines									
UHSC0101	Engineering Mathematics-I	BS	3	1	-	4			
UHSC0105	Modern Chemistry	BS	3	-	-	3			
UHSC0106	Smart and Sustainable Construction	ES	2	-	-	2			
UHSC0107	Basic Electrical and Electronics Engineering	ES	4	-	-	4			
UHSC0114	Introduction to Programming	ES	2	-	-	2			
UHSC0125	Modern Chemistry Lab	BS	-	-	2	1			
UHSC0126	Smart and Sustainable Construction	ES	-	-	2	1			
UHSC0127	Basic Electrical and Electronics Engineering Lab	ES	-	-	2	1			
UHSC0128	Mechanical Engineering Lab	ES	-	-	2	1			
UHSC0137	Introduction to Programming Lab	ES	-	-	2	1			
UHSA0152	Audit Course-II (Human Values and Professional Ethics)	AU	2	-	-	-			
	Total		16	1	10	20			
Total Contact hours – 27, Total Credits - 20									

Semester - II							
Course Code	Course Name	Curriculum Component	Teachi	ng Schen	Scheme		
			L	T	P	C	
Induction pro	gram as per AICTE guidelines						
UHSC0201	Engineering Mathematics-II	BS	3	1	-	4	
UHSC0202	Communication Skills	HS	2	-	-	2	
UHSC0203	Optics and Modern Physics	BS	3	-	-	3	
UHSC0204	Computer Aided Engineering Drawing (CAED)	ES	3	-	-	3	
UHSC0215	Problem Solving using C	ES	3	-	-	3	
UHSC0221	Communication Skills Lab	HS		-	2	1	
UHSC0222	Optics and Modern Physics Lab	BS	-	-	2	1	
UHSC0223	Computer Aided Engineering Drawing (CAED) Lab	ES	-	-	2	1	
UHSC0224	Workshop Practice Lab (Electronics & Computer)	ES	-	-	2	1	
UHSC0238	Problem Solving using C Lab	ES	-	-	2	1	
UHSA0251	Audit Course-I (Entrepreneurship Development)	AU	2	-	-	-	
		Total	16	1	10	20	
<u> </u>	Total Contact hours – 27, Total Credits - 20						