



K.K. Wagh Institute of Engineering Education and Research, Nasik (Autonomous w.e.f. A.Y.2022-23) Details of Course Structure: B.Tech

• Summary of Credits and Total Marks for U.G. Programme :

Semester	Group -A		Group -B		Group-C	
	Credits	Marks	Credits	Marks	Credits	Marks
I	19	675	20	675/650	20	675
II	23	825	22	825/850	22	825
Total	42	1500	42	1500	42	1500

• Definition of Credit :

The Under Graduate (U.G.) and Post Graduate (P.G.) programmes will have credit system. The details of credit will be as follow

1 Credit = 1 hour/week for lecture
= 2 hours /week for practical
= 1 hour /week for tutorial

• **Abbreviations :** TH : Theory PR : Practical TU : Tutorial OR : Oral CA: Continuous Assessment TW:Termwork

• Description of Groups:

Group A= Divisions of Computer , IT, E&TC, AI&DS , CSD – 8 divisions

Group B= Divisions of Mechanical, Civil, Chemical – 5 divisions

Group C= Divisions of Divisions of Electrical and Robotics &Automation – 3 Divisions

• Description of various Courses:

Type of Course	Description	Type of Course	Description
ESC	Engineering Science Course - Workshop - Drawing- Fundamentals of different branches	DCC	Department Core Course
BSC	Basic Science Courses	DEC	Department Elective Course
LHSM	Liberal arts, Humanities, Social Sciences and Management courses	OEC	Open Elective Courses of other technical or emerging areas /Courses designed by Industry
PSI	Project work, Seminar, Internship, PBL	IMC	Induction and Mandatory Courses
NC	Non Credit Courses	ASM	Additional Specialized / MOOCs

Note : The Induction Programme for First year students will be conducted for 2 weeks in First Semester and 1 week in Second Semester before commencement of teaching as per A.I.C.T.E. guidelines.



K.K.Wagh Institute of Engineering Education and Research, Nashik (Autonomous w.e.f. A.Y.2022-23)
Details of Course Structure: Semester - I F.Y.B.Tech (Group –A)

Applicable for **Group A**= Divisions of Computer , IT, E&TC, AI&DS , CSD – 8 divisions

Course Code	Course Type	Title of Course	Teaching Scheme Hrs./week			Assessment Scheme and Marks						Credits			
			TH	TU	PR	In Sem	End Sem	CA	TU/TW	PR/OR	Total	TH	TU/TW	PR/OR	Total
FYE221001	BSC	Applied Mathematics – I	4	1	0	20	60	20	25	0	125	4	1	0	5
FYE221005	BSC	Applied Chemistry	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221006	ESC	Fundamentals of Electrical Engineering	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221010	ESC	Computational Thinking and C Programming	2	0	2	25	50	0	50	0	125	2	1	0	3
FYE221013	ESC	Workshop Practice	0	0	2	0	0	0	50	0	50	0	1	0	1
FYE221014	LHSM	Communication Skills	1	0	2	0	0	25	50	0	75	1	1	0	2
		Total	13	1	10	85	230	85	275	0	675	13	6	0	19



K.K.Wagh Institute of Engineering Education and Research, Nashik (Autonomous w.e.f. A.Y.2022-23)
Details of Course Structure: Semester -II F.Y.B.Tech (Group A)

Applicable for **Group A**= Divisions of Computer , IT, E&TC, AI&DS , CSD – 8 divisions

Course Code	Course Type	Title of Course	Teaching Scheme Hrs./week			Assessment Scheme and Marks						Credits			
			TH	TU	PR	In Sem	End Sem	CA	TU/ TW	PR/ OR	Total	TH	TU / TW	PR/ OR	Total
FYE221002	BSC	Applied Mathematics – II	4	1	0	20	60	20	25	0	125	4	1	0	5
FYE221003	BSC	Applied and Modern Physics (A)	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221007	ESC	Fundamentals of Electronics Engineering	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221011	ESC	Programming in C++	3	0	2	25	50	0	50	0	125	3	1	0	4
FYE221012	ESC	Engineering Drawing	1	1	2	25	50	0	50	0	125	1	2	0	3
FYE221015	PSI	Engineering Explorations	0	0	2	0	0	0	100	0	100	0	1	0	1
FYE221016	LHSM	Democracy, Election and Governance	2	0	0	25	25	0	0	0	50	2	0	0	2
		Total	16	2	10	135	305	60	325	0	825	16	7	0	23



K.K.Wagh Institute of Engineering Education and Research, Nashik (Autonomous w.e.f. A.Y.2022-23)
Details of Course Structure: Semester - I F.Y.B.Tech (Group –B)

Applicable for **Group B**= Divisions of Mechanical, Civil, Chemical – 5 divisions

Course Code	Course Type	Title of Course	Teaching Scheme Hrs./week			Assessment Scheme and Marks						Credits			
			TH	TU	PR	In Sem	End Sem	CA	TU/ TW	PR/ OR	Total	TH	TU / TW	PR/ OR	Total
FYE221001	BSC	Applied Mathematics – I	4	1	0	20	60	20	25	0	125	4	1	0	5
FYE221004	BSC	Applied and Modern Physics (B)	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221008/ FYE221009	ESC	Fundamentals of Mechanical Engineering / Engineering Mechanics	3	0	2	20	60	20	50/ 25	0	150/ 125	3	1	0	4
FYE221012	ESC	Engineering Drawing	1	1	2	25	50	0	50	0	125	1	2	0	3
FYE221014	LHSM	Communication Skills	1	0	2	0	0	25	50	0	75	1	1	0	2
FYE221016	LHSM	Democracy, Election and Governance	2	0	0	25	25	0	0	0	50	2	0	0	2
		Total	14	2	8	110	255	85	225/ 200	0	675 / 650	14	6	0	20



K.K.Wagh Institute of Engineering Education and Research, Nashik(Autonomous w.e.f. A.Y.2022-23)
Details of Course Structure: Semester - II F.Y.B.Tech (Group B)

Applicable for **Group B**= Divisions of Divisions of Mechanical, Civil, Chemical – 5 divisions

Course Code	Course Type	Title of Course	Teaching Scheme Hrs./week			Assessment Scheme and Marks						Credits			
			TH	TU	PR	In Sem	End Sem	CA	TU/ TW	PR/ OR	Total	TH	TU / TW	PR/ OR	Total
FYE221002	BSC	Applied Mathematics – II	4	1	0	20	60	20	25	0	125	4	1	0	5
FYE221005	BSC	Applied Chemistry	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221006	ESC	Fundamentals of Electrical Engineering	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221010	ESC	Computational Thinking and C Programming	2	0	2	25	50	0	50	0	125	2	1	0	3
FYE221009/ FYE221008	ESC	Engineering Mechanics / Fundamentals of Mechanical Engineering	3	0	2	20	60	20	25 /50	0	125/ 150	3	1	0	4
FYE221013	ESC	Workshop Practice	0	0	2	0	0	0	50	0	50	0	1	0	1
FYE221015	PSI	Engineering Explorations	0	0	2	0	0	0	100	0	100	0	1	0	1
		Total	15	1	12	105	290	80	350/ 375	0	825/ 850	15	7	0	22



K.K.Wagh Institute of Engineering Education and Research, Nashik (Autonomous w.e.f. A.Y.2022-23)
Details of Course Structure : Semester - I F.Y.B.Tech (Group –C)

Applicable for GroupC= Divisions of Electrical and Robotics &Automation – 3 Divisions

Course Code	Course Type	Title of Course	Teaching Scheme Hrs./week			Assessment Scheme and Marks						Credits			
			TH	TU	PR	In Sem	End Sem	CA	TU/TW	PR/OR	Total	TH	TU / TW	PR/OR	Total
FYE221001	BSC	Applied Mathematics – I	4	1	0	20	60	20	25	0	125	4	1	0	5
FYE221003	BSC	Applied and Modern Physics (A)	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221007	ESC	Fundamentals of Electronics Engineering	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221012	ESC	Engineering Drawing	1	1	2	25	50	0	50	0	125	1	2	0	3
FYE221014	LHSM	Communication Skills	1	0	2	0	0	25	50	0	75	1	1	0	2
FYE221016	LHSM	Democracy, Election and Governance	2	0	0	25	25	0	0	0	50	2	0	0	2
		Total	14	2	8	110	255	85	225	0	675	14	6	0	20



K.K.Wagh Institute of Engineering Education and Research, Nashik (Autonomous w.e.f. A.Y.2022-23)
Details of Course Structure: Semester - II F.Y.B.Tech (Group C)

Applicable for **Group C**= Divisions of Electrical and Robotics &Automation – 3 Divisions

Course Code	Course Type	Title of Course	Teaching Scheme Hrs./week			Assessment Scheme and Marks						Credits			
			TH	TU	PR	In Sem	End Sem	CA	TU/TW	PR/OR	Total	TH	TU/TW	PR/OR	Total
FYE221002	BSC	Applied Mathematics – II	4	1	0	20	60	20	25	0	125	4	1	0	5
FYE221005	BSC	Applied Chemistry	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221006	ESC	Fundamentals of Electrical Engineering	3	0	2	20	60	20	50	0	150	3	1	0	4
FYE221009	ESC	Engineering Mechanics	3	0	2	20	60	20	25	0	125	3	1	0	4
FYE221010	ESC	Computational Thinking and C Programming	2	0	2	25	50	0	50	0	125	2	1	0	3
FYE221013	ESC	Workshop Practice	0	0	2	0	0	0	50	0	50	0	1	0	1
FYE221015	PSI	Engineering Explorations	0	0	2	0	0	0	100	0	100	0	1	0	1
		Total	15	1	12	105	290	80	350	0	825	15	7	0	22