

Punyashlok Ahilyadevi Holkar Solapur University, Solapur



NAAC Accredited-2022
'B'' Grade (CGPA 2.96)

Name of the Faculty: Science & Technology

New Education Policy 2020

Structure: F.Y. B. Tech. (All Branches)

Name of the Course: First Year B. Tech. I (Sem.– I & II)

(Syllabus to be implemented from June 2023)



PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR

FACULTY OF SCIENCE & TECHNOLOGY

CBCS Curriculum for First Year B. Tech. (All Branches)

With effect from 2023-2024

Semester I:

Course Type	Course Code	Name of the Course	Engagement Hours		Credits	FA			Total
			L	P		ESE	ISE	ICA	
BSC	BSC-01/ BSC-02	Engineering Physics / Engineering Chemistry \$	3	2	4	70	30	25	125
	BSC-03	Engineering Mathematics-I	3	2	4	70	30	25	125
ESC	ESC-01/ ESC-02	Basics of Civil and Mechanical Engineering / Basic Electrical & Electronics Engineering #	3	2	4	70	30	25	125
	ESC-03	Engineering Mechanics	3	2	4	70	30	25	125
AEC	AEC-01	Communication Skills	1	2	2	-	25	25	50
CC	CC-01	Sports and Yoga or NSS / NCC / UBA (Liberal Learning Course-I)	1	2	2	-	-	25	25
SEC	SEC-01	Workshop Practices	-	2	1	-	-	25	25
Total			14	14	21	280	145	175	600
Student Induction Program**									

Semester II

Course Type	Course Code	Name of the Course	Engagement Hours		Credits	FA	SA		Total
			L	P		ESE	ISE	ICA	
BSC	BSC-01/ BSC-02	Engineering Physics / Engineering Chemistry \$	3	2	4	70	30	25	125
	BSC-04	Engineering Mathematics - II	3	2	4	70	30	25	125
ESC	ESC-01/ ESC-02	Basics of Civil and Mechanical Engineering / Basic Electrical & Electronics Engineering #	3	2	4	70	30	25	125
	ESC-04	Engineering Graphics and CAD	-	4	2	-	25	50	75
SEC	SEC-02	Data Analysis and Programming Skills	1	2	2	-	25	25	50
CC	CC-02	Professional Personality Development (Liberal Learning Course-II)	1	2	2	-	25	25	50
IKS	IKS-01	Introduction to Indian Knowledge System	2	-	2	-	25	25*	50
Total			13	14	20	210	190	200	600
Democracy, Elections and Good Governance *			1			50			

***For IKS activity report should be submitted**

BSC- Basic Science Course **ESC-** Engineering Science Course, **PCC-** Programme Core Course ,
AEC- Ability Enhancement Course, **IKS-** Indian Knowledge System, **CC-** Co-curricular Courses ,
VSEC- Vocational and Skill Enhancement Course

- Notations used–

L : Lecture	P : Lab Sessions
FA : Formative Assessment	SA : Summative Assessment
ESE : End Semester Examination	ISE : In Semester Evaluation
ICA : Internal Continuous Assessment	

- **Notes-**

1. \$ - Indicates student may choose Engineering Physics or Engineering Chemistry in either first or second semester. Those who have taken Engineering Physics in first semester will take Engineering Chemistry in second semester. Those who have taken Engineering Chemistry in first semester will take Engineering Physics in second semester.
2. # - Indicates student may choose Basics of Civil and Mechanical Engineering or Basic Electrical & Electronics Engineering in either first or second semester. Those who have taken Basics of Civil and Mechanical Engineering in first semester will take Basic Electrical & Electronics Engineering in second semester. Those who have taken Basic Electrical & Electronics Engineering in first semester will take Basics of Civil and Mechanical Engineering in second semester.
3. For the Course Basic Electrical & Electronics Engineering, practical of Basic Electrical Engineering and Basic Electronics Engineering will be conducted in alternate weeks.
4. For the Course Basics of Civil and Mechanical Engineering, practical of Basics of Civil Engineering and Basics of Mechanical Engineering will be conducted in alternate weeks.
5. In Semester Evaluation (ISE) marks shall be based upon student's performance in three tests conducted & evaluated at institute level.
6. Internal Continuous Assessment Marks (ICA) is calculated based upon student's performance during practical sessions.
7. *- Democracy, Elections & Good Governance is mandatory course. The marks earned by student with this course shall not be considered for calculation of SGPA/CGPA. However, student must complete End Semester Examination (ESE) of 50 marks (as prescribed by university) for fulfillment of this course. This course is not considered as a passing head for counting passing heads for ATKT. However, student must pass this subject for award of the degree.
8. Student must complete induction program of minimum five days before commencement of the regular academic schedule at the first semester.

**** GUIDELINES FOR STUDENT INDUCTION PROGRAM**

New entrants into an Engineering program come with diverse thoughts, mind set and different social, economic, regional and cultural backgrounds. It is important to help them adjust to the new environment and inculcate in them the ethos of the institution with a sense of larger purpose.

An induction program for the new UG entrant students is proposed at the commencement of the first semester. It is expected to complete this induction program before commencement of the regular academic schedule.

Its purpose is to make new entrants comfortable in their new environment, open them up, set a healthy daily routine for them, create bonding amongst the peers as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature.

The Induction Program shall encompass (but not limited to) below activity –

1. Physical Activities
2. Creative Arts
3. Exposure to Universal Human Values
4. Literary Activities
5. Proficiency Modules
6. Lectures by Experts / Eminent Persons
7. Visit to Local Establishments like Hospital /Orphanage
8. Familiarization to Department

Induction Program Course do not have any marks or credits however performance of students for Induction Program is assessed at institute level using below mandatory criteria –

1. Attendance and active participation
2. Report writing