

In light of the eligibility condition specified in the **AICTE Process Handbook 2022-23** (Page Nos 89 and 90), the **Chemistry Papers BS-121 / BS-120 entitled “Basic Chemistry”** shall be offered to students admitted from Academic Session 2022-23 (in the 1st/ 2ndSemester) in lieu of **Chemistry Papers BS-103 / BS-104 entitled “Applied Chemistry”**. This shall be offered only to students who have not studied Chemistry at 10+2 Level and are admitted to the following disciplines only:

- 1) Computer Science and Engineering (CSE)
- 2) Information Technology (IT)
- 3) Computer Science and Technology (CST)
- 4) Information Technology and Engineering (ITE)
- 5) Electronics and Communications Engineering (ECE)
- 6) Electrical Engineering (EE)
- 7) Electrical and Electronics Engineering (EEE)
- 8) Instrumentation and Control Engineering (ICE)
- 9) Computer Science and Engineering (Artificial Intelligence) (CSE-AI)
- 10) Computer Science and Engineering (Artificial Intelligence and Machine Learning) (CSE-AIML)
- 11) Computer Science and Engineering (Data Science) (CSE-DS)
- 12) Computer Science and Engineering (Internet of Things) (CSE-IoT)
- 13) Computer Science and Engineering (Internet of Things and Cyber Security including Block Chain Technology) (CSE-ICB)
- 14) Computer Science and Engineering (Networks) (CSE-Net)
- 15) Computer Science and Engineering (Cyber Security) (CSE-CS)
- 16) Electronics Engineering (VLSI Design and Technology) (EE-VDT)
- 17) Electronics and Communication (Advanced Communication Technology) (EC-ACT)

Note: The corresponding practical paper (BS-155 / BS-156) shall be unchanged.(Addition from AY 2022-23)

First Semester					
Group	Code	Paper	L	P	Credits
Theory Papers					
ES BS	ES-101 BS-103/BS-121 [#]	*Any one of the following: Programming in ‘C’ Applied Chemistry / Basic Chemistry [#]	3	-	3
BS	BS-105	Applied Physics – I	3	-	3
ES BS	ES-107 BS-109	*Any one of the following: Electrical Science Environmental Studies	3	-	3
BS	BS-111	Applied Mathematics – I	4	-	4
HS	HS-113	**Group 1 or Group 2 shall be offered: Group 1: Communications Skills OR	3	-	3
HS	HS-115	Group 2: Indian Constitution***	2		2
HS	HS-117	Human Values and Ethics***	1		1
ES	ES-119	Manufacturing Process	4	-	4
Practical/Viva Voce					
BS	BS-151	Physics-I Lab	-	2	1
ES BS	ES-153 BS-155	Any of the following corresponding to the theory paper offered: Programming in ‘C’ Lab Applied Chemistry	-	2	1
ES	ES-157	Engineering Graphics-I	-	4	2
ES BS	ES-159 BS-161	Any of the following corresponding to the theory paper offered: Electrical Science Lab Environmental Studies Lab	-	2	1
Total			20	10	25

*For a particular batch of a programme of study one out of these two papers shall be taught in the first semester while the other shall be taught in the 2nd semester. Students who have to re-appear can only reappear in the odd semester if originally offered to the student in the 1st semester and similarly for the students who study the paper in the second semester. The institution shall decide which paper to offer in which semester.

**For a particular batch of a programme of study either the paper on “Communications Skills” (Group 1), or Group 2: papers (“Indian Constitution” and “Human values and ethics”) shall be taught in the first semester while the other group shall be taught in the 2nd semester. Students who have to re-appear can only reappear in the odd semester if originally offered to the student in the 1st semester and similarly for the students who study the paper(s) in the second semester. The institution shall decide which paper group to offer in which semester.

*****NUES**: All examinations to be conducted by the concerned teacher as specified in the detailed syllabus of the paper.

#The students who have not studied Chemistry at 10+2 level shall be offered BS-121 in lieu of BS-103, as applicable in applicable disciplines. (Addition from the Academic Session 2022-23)

Group	Code	Paper	L	P	Credits
HS/MS	HS-352	NSS / NCC / Cultural Clubs / Technical Society / Technical Club*			2

***NUES**: Comprehensive evaluation of the students by the concerned coordinator of NCC / NSS / Cultural Clubs / Technical Society / Technical Clubs, out of 100 as per the evaluation schemes worked out by these activity societies, organizations; the co-ordinators shall be responsible for the evaluation of the same. These activities shall start from the 1st semester and the evaluation shall be conducted at the end of the 6th semester for students admitted in the first semester. Students admitted in the 2nd year (3rd semester) as lateral entry shall undergo training or participate in the activities for the period of 3rd semester to 6th semester only

Second Semester					
Group	Paper Code	Paper	L	P	Credits
Theory Papers					
ES BS	ES-102 BS-104/BS-120 [#]	*Any one of the following: Programming in ‘C’ Applied Chemistry / Basic Chemistry [#]	3	-	3
BS	BS-106	Applied Physics – II	3	-	3
ES BS	ES-108 BS-110	*Any one of the following: Electrical Science Environmental Studies	3	-	3
BS	BS-112	Applied Mathematics – II	4	-	4
HS	HS-114	**Group 1 or Group 2 shall be offered: Group 1: Communications Skills OR	3	-	3
HS	HS-116	Group 2: Indian Constitution***	2		2
HS	HS-118	Human Values and Ethics***	1		1
ES	ES-114	Engineering Mechanics	3	-	3
Practical/Viva Voce					
BS	BS-152	Physics-II Lab	-	2	1
ES BS	ES-154 BS-156	*Any of the following corresponding to the theory paper offered: Programming in ‘C’ Lab Applied Chemistry	-	2	1
ES	ES-158	Engineering Graphics-II	-	2	1
ES BS	ES-160 BS-162	*Any of the following corresponding to the theory paper offered: Electrical Science Lab Environmental Studies Lab	-	2	1
ES	ES-164	Workshop Practice		4	2
Total			19	12	25

*For a particular batch of a programme of study one out of these two papers shall be taught in the first semester while the other shall be taught in the 2nd semester. Students who have to re-appear can only reappear in the odd semester if originally offered to the student in the 1st semester and similarly for the students who study the paper in the second semester. The institution shall decide which paper to offer in which semester.

**For a particular batch of a programme of study either the paper on “Communications Skills” (Group 1), or Group 2: papers (“Indian Constitution” and “Human values and ethics”) shall be taught in the first semester while the other group shall be taught in the 2nd semester. Students who have to re-appear can only reappear in the odd semester if originally offered to the student in the 1st semester and similarly for the students who study the paper(s) in the second semester. The institution shall decide which paper group to offer in which semester.

*****NUES**: All examinations to be conducted by the concerned teacher as specified in the detailed syllabus of the paper.

#The students who have not studied Chemistry at 10+2 level shall be offered BS-120 in lieu of BS-104, as applicable in applicable disciplines. (Addition from the Academic Session 2022-23)