

Bachelor of Technology Computer Science and Engineering in Cloud Computing

- Regular & Lateral (2026)

SEMESTER I		
S No	Course Code	Course Title
1	26BTPH11 C01	Applied Physics
2	26BTPH11 C02	Applied Physics Lab
3	26BTAL11 C03	Programming Concepts
4	26BTAL11 C04	Programming Concepts Lab
5	26BTAL11 C05	Engineering Mathematics-I
6	26BTAL11 C06	Workshop Practices
7	26DOAS0V AC01	Environmental studies
8	26ENGL0A EC1	Communicative English- I
9	26ETPM0V AC1	Entrepreneurship Mindset-I
10	26BTCN11 E01	Open Source Technology
11	26BTCN11 E02	Open Source Technology Lab

Entrepreneurship Mindset-I shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.

SEMESTER II		
S No	Course Code	Course Title
1	26BTCM12C01	Applied Chemistry
2	26BTCM12C02	Applied Chemistry Lab
3	26BTBE12C03	Basics of Electrical and Electronics Engineering
4	26BTBE12C04	Basics of Electrical and Electronics Engineering Lab
5	26BTAL12C05	Engineering Mathematics- II
6	26BTAL12C06	Engineering Drawing
7	26BTAL12C07	C++ Programming
8	26BTAL12C08	C++ Programming Lab
9	26UHVU0VAC1	Universal Human Value
10	26ENGL0AEC02	Communicative English II
11	26ETPM0VAC2	Entrepreneurship Mindset-II
12	26BTCN12E01	Frontend Technologies
13	26BTCN12E02	Frontend Technologies Lab

- Entrepreneurship Mindset-II shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.

SEMESTER III		
S No	Course Code	Course Title
1	26BTCS23C01	Database Management System
2	26BTCS23C02	Database Management System Lab
3	26BTCS23C03	Data Structures and Algorithms
4	26BTCS23C04	Data Structures and Algorithms Lab
5	26BTCS23C05	Engineering Mathematics-III
6	26BTCS23C06	Advanced Python Programming
7	26BTCS23C07	Advanced Python Programming Lab
8	26ETPM0VAC3	Entrepreneurship Mindset-III
9	26BTCC23E01	Cloud Infrastructure and Services
10	26BTCC23E02	Cloud Infrastructure and Services Lab
11	26BTCC23E03	Cloud Storage and Databases System
12	26BTCC23E04	Cloud Storage and Databases System Lab

- Entrepreneurship Mindset-III shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.
- MOOCs courses from recognized platforms such as NPTEL/SWAYAM may be mapped or included after registration opens; total credits and contact hours may increase accordingly

SEMESTER IV		
S No	Course Code	Course Title
1	26BTCS24C01	Analysis & Design of Algorithms
2	26BTCS24C02	Analysis & Design of Algorithms Lab
3	26BTCS24C03	Computer Networks
4	26BTCS24C04	Computer Networks Lab
5	26BTCS24C05	Discrete Structures
6	26BTCS24C06	Operating System
7	26BTCS24C07	Operating System Lab
8	26BTCS24C08	Computer Architecture and Organization
9	26BTCC24E01	Cloud Networking and Security
10	26BTCC24E02	Cloud Networking and Security Lab
11	26BTCC24E03	Containerization Technologies
12	26BTCC24E04	Containerization Technologies Lab
13	26ETPM0VAC4	Entrepreneurship Mindset -IV
Optional to choose (Open Elective Basket)		
14		Learn-One-More-Bharatiya-Bhasha or Foreign Languages
*Summer Term Training (45 days) will be evaluated in Semester V		

- Learn One More Bharatiya Bhasha /Foreign Languages courses are optional. Students opting for these courses will earn 1 additional credit
- Entrepreneurship Mindset-VI shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.

- MOOCs courses from recognized platforms such as NPTEL/SWAYAM may be mapped or included after registration opens; total credits and contact hours may increase accordingly

SEMESTER V		
S No	Course Code	Course Title
1	26BTCS35C01	Software Engineering
2	26BTCS35C02	Theory of Computation
3	26BTCS35C03	Java Programming
4	26BTCS35C04	Java Programming Lab
5	26BTCS35C05	Information Security and Cyber Laws
6	26BTCC35E01	Cloud Application Development
7	26BTCC35E02	Cloud Application Development Lab
8	26BTCC35E03	DevOps
9	26BTCC35E04	DevOps Lab
10	26BTCS35C06	Summer Training-I Evaluation
11	26ASUG0S EC1	Analytical Skills - I
12	26ETPM0V AC5	Entrepreneurship Mindset- V
Optional to choose[#]		
13		Disaster Risk Reduction and Management

- Disaster Risk Reduction and Management is an optional course. Students who opt for this course will earn 2 additional credits.
- Entrepreneurship Mindset-V shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.
- MOOCs courses from recognized platforms such as NPTEL/SWAYAM may be mapped or included after registration opens; total credits and contact hours may increase accordingly.

SEMESTER VI		
S No	Course Code	Course Title
1	26BTCS36C01	Network Security and Cryptography
2	26BTCS36C02	Network Security and Cryptography Lab
3	26BTCS36C03	Advanced Data Structure
4	26BTCS36C04	Advanced Data Structure Lab
5	26BTCS36C05	Compiler Design
6	26BTCS36C06	Artificial Intelligence
7	26BTCS36C07	Data Warehousing and Data Mining
8	26BTCC36E01	Cloud Security and Governance
9	26BTCC36E02	Cloud Security and Governance Lab
10	26BTCC36E03	Cloud Automation
11	26BTCC36E04	Cloud Automation Lab
12	26ASUG0AEC4	Analytical Skills - II
13	26BTCS36C08	Capstone Project - I
Optional to choose (Non-Credit Course)		
13	26PRDV0AEC1	Professional Development –I

- Professional Development–I is an optional, non-credit course. Evaluation shall be on a Satisfactory/Unsatisfactory basis.
- Entrepreneurship Mindset-V shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.
- MOOCs courses from recognized platforms such as NPTEL/SWAYAM may be mapped or included after registration opens; total credits and contact hours may increase accordingly
- Capstone Project-I emphasizes guided self-learning and project work; accordingly, the allotted hours are excluded from total teaching hours

SEMESTER VII		
S No	Course Code	Course Title
1	26BTCS47C01	Computer Vision
2	26BTCS47C02	IOT
3	26BTCS47C03	IOT Lab
4	26BTCS47C04	System Design
5	26BTCS47C05	Blockchain
6	26BTCS47C06	Blockchain Lab
7	26BTCS47C07	Research Methodology
8	26BTCC47E01	AI Driven Cloud Applications
9	26BTCC47E02	AI Driven Cloud Applications Lab
10	26BTCC47E03	GenAI on Cloud Platforms
11	26BTCC47E04	GenAI on Cloud Platforms Lab
12	26BTCS47C08	Capstone Project - II
Optional to choose (Non Credit course)		
9	26PRDV0AEC2	Professional Development –II

- Professional Development–II is an optional, non-credit course. Evaluation shall be on a Satisfactory/Unsatisfactory basis.
- Entrepreneurship Mindset-V shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.
- MOOCs courses from recognized platforms such as NPTEL/SWAYAM may be mapped or included after registration opens; total credits and contact hours may increase accordingly
- Capstone Project-II emphasizes guided self-learning and project work; accordingly, the allotted hours are excluded from total teaching hours

SEMESTER VIII		
S No	Course Code	Course Title
1	26BTCS48C01	Industrial Training

Open Elective Basket Course

S. no	Course Code	Course Title	Course Type	Nature	L	T	P	C	Hrs	I A	ET	Tot.	Type
1	26BFRN0AEC1	Basic French	OE	AEC	1	0	0	1	1	40	60	100	Foreign Languages
2	26BKOR0AEC1	Basic Korean	OE	AEC	1	0	0	1	1	40	60	100	
3	26BSPA0AEC1	Basic Spanish	OE	AEC	1	0	0	1	1	40	60	100	
4	26BHIN0AEC1	Basic Hindi	OE	AEC	1	0	0	1	1	40	60	100	Learn-One-More-Bharatiya-Bhasha
5	26BPUN0AEC1	Basic Punjabi	OE	AEC	1	0	0	1	1	40	60	100	
6	26BURD0AEC1	Basic Urdu	OE	AEC	1	0	0	1	1	40	60	100	