

R24 Course Structure - BTech CSE SAP Program

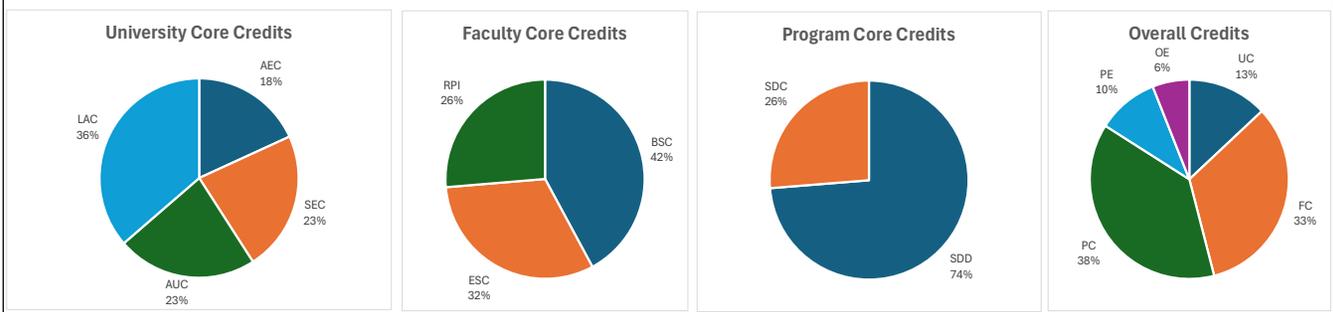
Parent	Sub	Course Code	Level	Course Title	Abb	L	T	P	S	I	C	CH	PRE-REQ	S/NS	MOOCS	EVAL
Semester - 1																
UC	AEC	25ENG1001	100	English for Academic and Professional Growth	EAP	3	0	2	0	0	4	5				
FC	BSC	25MAT1001	100	Discrete Mathematics	DMS	3	1	0	0	0	4	4				
FC	ESC	25CSE1101	100	Problem Solving and Computer Programming through C	PSC	2	0	4	0	0	4	6				
FC	BSC	25PHY1001	100	Engineering Physics	EPY	3	0	2	0	0	4	5				
FC	ESC	25EEC1101	100	Fundamentals of Electrical and Electronics Engineering	FEE	3	0	0	0	0	3	3				
UC	VAC	25VAC1004	100	Environmental Studies	EVS	2	0	2	0	0	0	4				
FC	ESC	TS410	100	Introduction to SAP S/4 HANA		2	0	2	0	0	3	4				
UC	HAS	25HAS1201	100	Introduction to Sustainability, SDGs and Innovation	SSI	0	0	0	2	0	1	2				
UC	VAC	25VAC1001	100	Induction Program	IDP	1	0	0	0	0	0	1				
Total for Sem -1						19	1	12	2	0	23	33				
Semester - 2																
UC	AEC	25ENG1002	100	Joy of Communication: Oral Skills for Success	JOS	0	0	2	2	0	2	4				
FC	BSC	25MAT1002	100	Probability and Statistics	PST	3	1	0	0	0	4	4				
FC	ESC	25CSE1102	100	Data Structures through C	DSC	2	0	4	0	0	4	6	PSC			
FC	ESC	25CSE1103	100	Object Oriented Programming	OOP	0	0	4	2	0	3	6				
FC	ESC	25CSE2302	200	Front-End Development Foundations	FED	0	0	2	2	0	2	4				
FC	ESC	25CSE1001	100	IT Workshop	IWK	0	0	2	0	0	1	2				
PC	SDC	TS410/C_TS410	100	Business Process Integration with SAP S/ 4 HANA		2	0	2	2	0	4	6			✓	
UC	HAS	25HAS1203	200	Design Thinking, Customer Discovery and MVP Development	DCM	0	0	0	2	0	1	2	SSI			
Total for Sem -2						7	1	16	10	0	21	34				
FC	RPI	25CSE1901	100	Social Internship	SIP	0	0	0	0	3	1	0				
Semester - 3																
FC	SDD	25CSE2201	200	Operating Systems	OPS	3	0	2	0	0	4	5				
FC	SDD	25CSE2101	200	Programming through Java	PTJ	2	0	4	0	0	4	6				
FC	SDD	25CSE2102	200	Design and Analysis of Algorithms	DAA	3	0	2	0	0	4	5	DSC			
FC	SDD	25CSE2103	200	Database Management Systems	DBS	3	0	2	0	0	4	5				
PC	SDD	SD400/401		ABAP Programming: Fundamentals and Intermediate		4	0	4	0	0	6	8				
UC	SEC	25SDC2201	200	Competitive Programming Practicum	COP	0	0	0	2	0	1	2				
UC	VAC	25VAC110X/140X	100	Sports Bucket/Health and Wellness Bucket		0	0	0	2	0	0	2		✓		
UC	HAS	25HAS2202	200	Business Model Innovation & Early-Stage Venture Formation	BMI	0	0	0	2	0	1	2	DCM			
Total for Sem -3						15	0	14	6	0	24	35				
Semester - 4																
FC	BSC	25MAT1003	100	Linear Algebra and Calculus	LAC	3	1	0	0	0	4	4				
FC	SDD	25CSE2202	200	Automata and Compiler Design	ACD	3	0	2	0	0	4	5				
FC	ESC	25CSE2404	200	Introduction to Machine Learning	IML	3	1	0	0	0	4	4	LAG			
PC	SDD	S4D430/437/425/C_ABAPD		Application Programming in SAP HANA		4	0	2	2	0	6	8				
FC	SDC	25CSE2303	200	Full Stack Application Development	FSD	0	0	4	2	0	3	6	FED			
OE	OE 1	Refer OEs	100	Open Elective 1#		3	0	0	0	0	3	3				
UC	SEC	25SDC1101	100	21st Century Skills: Quantitative Aptitude and Personal Effectiveness	QAP	0	0	0	2	0	1	2				
UC	VAC	25VAC120X/130X	100	Professional Societies /Community Services Bucket		0	0	0	2	0	0	2		✓		
UC	HAS	25HAS3201	300	Investor Readiness and Scaling Ventures	INM	0	0	0	2	0	1	2	BMI			
Total for Sem -4						16	2	8	10	0	26	36				
FC	RPI	25CSE2901	200	Technical Writing	TIP	0	0	0	0	3	1	0				
Semester - 5																
FC	SDD	25CSE2601	200	Computer Networks	CNW	3	0	2	0	0	4	5				
PC	SDD	UX100/400		Foundation to SAP Friori		2	0	2	0	0	3	4				
PC	SDD	UX402		SAP UI5 development		2	0	2	0	0	3	4				
PE	PE 1	Refer PEs		Program Elective 1*		3	0	0	2	0	4	5				
PE	PE 2	Refer PEs		Program Elective 2*		3	0	0	2	0	4	5				
OE	OE 2	Refer OEs	100	Open Elective 2#		3	0	0	0	0	3	3				
UC	SEC	25SDC1102	100	21st Century Skills: Verbal Aptitude and Digital Literacy	VAE	0	0	0	2	0	1	2				
UC	SEC	25SDC3201	300	Code Challenge Accelerator Program	CAP	0	0	0	2	0	1	2				
UC	HAS	25HAS110X	100	Foreign Languages Bucket		0	0	2	0	0	1	2				
UC	HAS	25HAS3202	300	Product Launch and Market Readiness	PLM	0	0	0	2	0	1	2	IRV			
Total for Sem -5						16	0	8	10	0	25	34				
Semester - 6																
FC	SDD	25CSE2301	200	Software Engineering	SWG	3	0	2	0	0	4	5				
UC	AEC	25ENG2001	200	English for Career Readiness	ECR	0	0	2	2	0	2	4				
PE	PE 3	Refer PEs		Program Elective 3*		3	0	2	2	0	5	7				
PE	PE 4	Refer PEs		Program Elective 4*		3	0	2	2	0	5	7				
OE	OE 3	Refer OEs	100	Open Elective 3#		3	0	0	0	0	3	3				
UC	SEC	25SDC210X	200	Essential Employability Skills Bucket		0	0	0	2	0	1	2				
UC	VAC	25VAC1002	100	Indian Constitution	INC	2	0	0	0	0	0	2		✓		
UC	HAS	25HAS4201	400	Post-Launch Growth & Venture Management	PVM	0	0	0	2	0	1	2	PLM			
Total for Sem -6						14	0	8	10	0	21	32				

FC	RPI	25CSE2902	200	Summer Internship	SUP	0	0	0	0	4	2	0				
Semester - 7																
FC	RPI	25CSEL3902	300	Capstone Project - 1/Internship-1	IN1	0	0	0	0	8	8	8				
Total for Sem -7						0	0	0	0	8	8	8				
Semester - 8																
FC	RPI	25CSE4902	400	Capstone Project - 2/Internship-2/Research	IN2	0	0	0	0	8	8	8				
Total for Sem -8						0	0	0	0	8	8	8				
Total credits and contact hours for BTech CSE SAP program						87	4	66	48	26	160	220				

CREDITS DISTRIBUTION														
Category	Abbr	Sub Category	Abbr	Credits	Courses	Total	Cat vs Credits %			SU vs AICTE vs UGC				
							Cat	Credits	%	Cat	SU	AICTE	UGC	
University Core	UC	Ability Enhancement Courses	AEC	8	3	20	UC	20	13	HAS	20	18	AEC	8
		Skill Enhancement Courses	SEC	5	5									
		Audit Courses	AUC	0	0									
		Humanities and Social Sciences	HAS	7	7									
Faculty Core	FC	Basic Sciences	BSC	16	4	60	PE	18	11	PC	53	59	BSC+ESC +PC+PE(Major +Minor)	112
		Engineering Sciences	ESC	24	8									
		Research, Project and Internship	RPI	20	5									
Program Core	PC	Standard Courses	SDD	46	11	53	RPI	20	15	RPI	20	15	RPI	16
		Skill Development	SDC	7	2									
Program Electives	PE	General	PE 1	4	1	18	AUC	-	-	AUC+OE	6	160	165	160
		General	PE 2	4	1									
		General/SAP	PE 3	5	1									
		General/SAP	PE 4	5	1									
Open Electives	OE	BT/CE/MECH/EE/IE/MGM	OE 1	3	1	9	AICTE	-	-	AUC+OE	6	160	165	160
		BT/CE/MECH/EE/IE/MGM	OE 2	3	1									
		BT/CE/MECH/EE/IE/MGM	OE 3	3	1									
Total Credits for BTech CSE SAP				52	160									
							UGC	https://www.ugc.gov.in/e-book/FYUGP/mobile/index.html						

HAS = AEC + HAS + SEC
PC = PC

AICTE <https://www.aicte.gov.in/sites/default/files/Updated-AICTE%20-%20UG%20CSE.pdf>



- University Core:** Fundamental courses mandated by the university to provide a broad and essential foundation across disciplines.
- Faculty Core:** Core courses specific to a faculty, aimed at building foundational knowledge in the respective academic domain.
- Program Core:** Mandatory courses tailored to a specific program, focusing on essential knowledge and skills within the field of study.
- Professional Electives:** Specialized elective courses offering advanced knowledge and skills related to the professional domain.
- Open Electives:** Flexible elective courses chosen by students from a wide range of disciplines to explore diverse interests.
- Ability Enhancement Courses:** Courses designed to improve essential communication, reasoning, and analytical skills, enhancing overall academic and professional competency.
- Skill Enhancement Courses:** Practical-focused courses aimed at building technical, vocational, and soft skills relevant to employability and career growth.
- Audit Courses:** Mandatory non-credit courses undertaken voluntarily for knowledge enhancement without impacting grades or GPA.
- Liberal Arts:** Courses in humanities, social sciences, and creative arts, promoting critical thinking, design thinking, innovation and holistic education.
- Basic Sciences:** Foundational science courses that provide the basic principles and theories essential for advanced learning.
- Engineering Sciences:** Core engineering courses covering fundamental concepts and applications across various technical disciplines.
- Research, Project and Internship:** Academic initiatives combining research, project work, and internships to foster practical problem-solving skills.
- Skill Development:** Industry-aligned courses that enhance professional, technical, and employability skills in students.

Note:	PE*	May opt from any one/multiple segment(s)/general PEs
	OE#	May opt from any one/multiple categories
ARR	PRE-REQ	Pre-Requisite
	S/NS	Satisfactory/Not Satisfactory

NOTE:	MOOCs	Courses/Global Certifications approved by BoS
	EVAL	Evaluation Pattern for Courses