



SAGE University, Indore

Institute Name: Institute of Engineering and Technology
 Department Name: Computer Science and Engineering
 CHOICE BASED CREDIT SYSTEM
 Effective from Academic Session: 2025-26

Bachelor of Technology in Computer Science and Engineering

Program: I
 Semester: I

Program Code : B.Tech (CSE)
 Admission batch: 2025-26

Course wise Distribution of Marks and corresponding Credits

S. No.	Subject Code <12 digit>	Category	Subject Title	Theory (100 Marks)				Maximum Marks Allotted			Hours/week				Credits	Hours	
				End Sem	Continuous Evaluation	Attendance/Practical and Viva	End Sem. Exam (ESE) For Practical	Practical (50 Marks)		Total Marks	L	T	P	M/B/SM			NTCC
								Continuous Internal Evaluation	Lab Work / WPR								
1	EBSDCMAT00IT	DC	Engineering Mathematics-I	60	20	20	-	-	100	3	1	-	-	-	4	4	
2	EECDCBEC00IT	DC	Basic Electronics	60	20	20	-	-	100	3	-	-	-	-	3	3	
3	ECSDCBCE00IT	DC	Basic Computer Engineering	60	20	20	-	-	100	3	-	-	-	-	3	3	
4	EBSDCPHY00IT	DC	Physics	60	20	20	-	-	100	3	-	-	-	-	3	3	
5	TRNGSESD00IT	GSEEC	Essential Skills Development 1	60	20	20	-	-	100	2	-	-	-	-	2	2	
6	To be selected ⁵	DSEC	Departmental Skill Enhancement Elective Course-I	-	-	-	30	10	50	-	-	4	-	-	2	4	
7	EBSDCPHY00IP	DC	Physics Lab	-	-	-	30	10	50	-	-	2	-	-	1	2	
8	ECSDCBCE00IP	DC	Basic Computer Engineering LAB	-	-	-	30	10	50	-	-	2	-	-	1	2	
9	EECDCBEC00IP	DC	Basic Electronics LAB	-	-	-	30	10	50	-	-	2	-	-	1	2	
10	TRNGSESD00IP	GSEEC	Essential Skills Development 1 LAB	-	-	-	30	10	50	-	-	4	-	-	2	4	
11	TO BE SELECTED ^{##}	GE	General Elective-1	60	20	20	-	-	100	2	-	-	4	-	4	6	
Total				360	120	120	150	50	850	16	1	14	4	0	26	35	

Details of GE-1 Offered

Course Code	Course Name
ECSGECFS001B	Computer System Fundamental

List of Departmental Skill Enhancement Elective Course - I

Course Code	Course Name
ECSDSPUC001P	Programming Using C Lab
ECSDSPYP001P	Python Programming-I Lab

Students can opt general elective from the Courses offered by other institutes under group 1 in GE category
 Note: Industrial Internship I to be completed before start of V Semester, i.e. evaluation and credit to be added in V Semester.



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Head of Department
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SAGE University, Indore

Institute Name: Institute of Engineering and Technology
 Department Name: Computer Science and Engineering
 CHOICE BASED CREDIT SYSTEM
 Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering
 Semester: II

Program Code : B.Tech (CSE)
 Admission batch: 2025-26

Course wise Distribution of Marks and corresponding Credits

S. No.	Subject Code <12 digit>	Category	Subject Title	Theory (100 Marks)				Maximum Marks Allotted			Hours/week					Credits Hours	
				End Sem	Continous Internal Evaluation	Attendance/Quiz/Assig./Practicals (MST)	End Sem. Exam (ESE) For Practical and Viva	Practical (50 Marks)	Continuous Internal Evaluation	Lab Work / WPR	Attendance/Assignment /viva/Lab manual	L	T	P	M/B/ SM		NTCC
1	EBSDCMAT002T	DC	Engineering Mathematics-II	60	20	20	-	-	-	100	3	1	-	-	-	4	4
2	EECDCEC001T	DC	Digital Electronics & Communication	60	20	20	-	-	-	100	3	0	-	-	-	3	3
3	ECSDCCOA001T	DC	Computer Architecture	60	20	20	-	-	-	100	3	0	-	-	-	3	3
4	ECSDCDSA001T	DC	Data Structures and Algorithms	60	20	20	-	-	-	100	3	0	-	-	-	3	3
5	To be selected ⁵	DSEC	Departmental Skill Enhancement Elective Course-II	-	-	-	30	10	10	50	-	-	4	-	-	2	4
6	EECDCEC001P	DC	Digital Electronics & Communication Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
7	ECSDCCOA001P	DC	Computer Architecture	-	-	-	30	10	10	50	-	-	2	-	-	1	2
8	ECSDCDSA001P	DC	Data Structures and Algorithms Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
9	AECACUHV001N	AECC	Universal Human Values & Professional Ethics	-	-	-	-	20	30	50	-	-	-	-	4	2	-
10	TRNGESD002P	GSEC	Essential Skills Development 2	-	-	-	30	10	10	50	-	-	4	-	-	2	-
11	TO BE SELECTED ^{##}	GE	General Elective-2	60	20	20	-	-	-	100	2	-	-	4	-	4	6
12	ECSDPMIP001N	DAP	Micro Project-1	-	-	-	-	20	30	50	-	-	-	-	4	2	4
Total				360	100	100	150	90	100	900	14	1	14	0	8	28	33

\$ List of Departmental Skill Enhancement Elective Course-II		Details of GE-2 Offered	
Course Code	Course Name	Course Code	Course Name
ECSDSPIC001P	Programming in C++ Lab	ECSCGIOT002B	Industry 4.0 with IoT MOOC
ECSDSAPP001P	Advanced Python Programming Lab		

Note: Industrial Internship I to be completed before start of V Semester, i.e. evaluation and credit to be added in V Semester.

Students can opt general elective from the Courses offered by other institutes under group 2 in GE category



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SAGE University, Indore
 Institute Name: Institute of Engineering and Technology
 Department Name: Computer Science and Engineering

CHOICE BASED CREDIT SYSTEM

Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering

Semester: III

Program Code : B.Tech (CSE)
 Admission batch: 2024-25

Course wise Distribution of Marks and corresponding Credits

S. No.	Subject Code <12 digit>	Category	Subject Title	Maximum Marks Allotted						Credits	Credits Hours					
				Theory (100 Marks)			Practical (50 Marks)					Total Marks				
				End Sem	Continuou s Internal Evaluation	Attendance/Assig./Practical and Viva	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation	Attendance/Assignment/viva/Lab manual							
1	ECSDCDBM001T	DC	Data Base Management System	60	20	20	-	-	100	3	0	-	-	3	3	
2	ECSDCDS001T	DC	Discrete Structures	60	20	20	-	-	100	3	1	-	-	4	4	
3	To be selected*	DE	Department Elective-I	60	20	20	-	-	100	3	0	-	-	3	3	
4	To be selected**	DE	Department Elective-II	60	20	20	-	-	100	3	0	-	-	3	3	
5	To be selected ^s	DSEC	Departmental Skill Enhancement Elective Course-III	-	-	-	30	10	50	-	4	-	-	2	4	
6	ECSDCDBM001P	DC	Data Base Management System Lab	-	-	-	30	10	50	-	2	-	-	1	2	
7	To be selected*	DE	Department Elective-I Lab	-	-	-	30	10	50	-	2	-	-	1	2	
8	To be selected**	DE	Department Elective-II Lab	-	-	-	30	10	50	-	2	-	-	1	2	
9	TRNGSESD003N	GSEEC	Essential Skills Development 3	-	-	-	20	30	50	-	4	-	-	2	4	
10	AECACEVS002N	AECC	Environmental Study & Disaster Management	-	-	-	20	30	50	-	4	-	-	2	4	
11	To be selected ^{##}	GE	General Elective-3	60	20	20	-	-	100	2	-	-	4	4	6	
Total				360	100	100	80	100	800	14	1	14	4	4	26	33

Course Code	Details of GE-3 Offered	
	Course Code	Course Name
ECSDEMP001TP	ECSDGEDST001B	Data Structures MOOC
ECSDSEEP001TP	Software Engineering & Project Management / Software Engineering & Project Management Lab	

* List of Departmental Elective-I		* List of Departmental Elective-II	
Course Code	Course Name	Course Code	Course Name
ECSDDECM001TP	Microprocessor & Interfacing / Microprocessor & Interfacing Lab	ECSDSCJP001P	Core Java Programming Lab
ECSDSEEP001TP	Software Engineering & Project Management / Software Engineering & Project Management Lab	ECSDSWDS001P	Web Designing Lab



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Institute Name: Institute of Engineering and Technology
Department Name: Computer Science and Engineering



CHOICE BASED CREDIT SYSTEM

Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering
Semester: IV

Course wise Distribution of Marks and corresponding Credits

Program Code : B.Tech (CSE)
Admission batch: 2024-25
Admission batch: 2023-24

S. No.	Subject Code <12 digit>	Category	Subject Title	Theory (100 Marks)					Maximum Marks Allotted			Hours/week					Credits	Hours	
				End Sem	Continuous Internal Evaluation / Assignments	Attendance	End Sem. Exam (ESE) For Practical and Viva	End Sem. Evaluation / Assignments	Practical (50 Marks)	Continuous Internal Evaluation	Lab Work / WPR	Attendance/Assignment / Viva/Lab manual	L	T	P	M/B/ SM			NTCC
1	ECSDCCON001T	DC	Computer Networks	60	20	20	-	-	-	-	100	3	0	-	-	-	3	3	
2	ECSDCOPS001T	DC	Operating System	60	20	20	-	-	-	-	100	3	0	-	-	-	3	3	
3	To be selected*	DE	Department Elective-III	60	20	20	-	-	-	-	100	3	0	-	-	-	3	3	
4	To be selected**	DE	Department Elective-IV	60	20	20	-	-	-	-	100	3	0	-	-	-	3	3	
5	To be selected	DSEC	Departmental Skill Enhancement Elective Course-IV	-	-	-	30	10	10	50	50	-	4	-	-	2	4		
6	ECSDCCON001P	DC	Computer Networks Lab	-	-	-	30	10	10	50	50	-	2	-	-	1	2		
7	ECSDCOPS001P	DC	Operating System Lab	-	-	-	30	10	10	50	50	-	2	-	-	1	2		
8	To be selected*	DE	Department Elective-III Lab	-	-	-	30	10	10	50	50	-	2	-	-	1	2		
9	To be selected**	DE	Department Elective-IV Lab	-	-	-	30	10	10	50	50	-	2	-	-	1	2		
10	TRNGSESD004N	GSEEC	Essential Skills Development	-	-	-	-	20	30	50	50	-	4	-	-	2	6		
11	To be selected##	GE	General Elective-4	60	20	20	-	-	-	100	20	2	-	-	-	4	2		
12	ECSDPMP001N	DAP	Micro Project-II	-	-	-	-	20	30	50	50	-	-	-	-	4	2		
Total				300	100	100	150	90	110	850	14	0	16	4	4	26	30		

* List of Departmental Elective-III

Course Code	Course Name
ECSDDEMW001T/P	Data Mining & Warehousing / Data Mining & Warehousing Lab
ECSDHEPC001T/P	High Performance Computing / High Performance Computing Lab

** List of Departmental Elective-IV

Course Code	Course Name
ECSDFOAD001T/P	Object Oriented Analysis and Design - Unified Modeling Language/ Object Oriented Analysis and Design - Unified Modeling Language Lab
ECSDSAM001T/P	Simulation & Modeling / Simulation & Modeling Lab
§ List of Departmental Skill Enhancement Elective Course-IV	
Course Code	Course Name
ECSDSJPR001P	Advance Java Programming I Lab
ECSDSWDP001P	Web Development Using PHP Lab

Students can opt general elective from the Courses offered by other institutes under group 4 in GE category



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IET, SAGE University, Indore

SAGE University, Indore

Institute Name: Institute of Engineering and Technology
 Department Name: Computer Science and Engineering
 CHOICE BASED CREDIT SYSTEM
 Effective from Academic Session: 2025-26



Program: Bachelor of Technology in Computer Science and Engineering

Program Code : E.Tech (CSE)
Admission batch: 2025-26
Admission batch: 2024-25
Admission batch: 2023-24

Semester: V

Course wise Distribution of Marks and corresponding Credits

S. No.	Subject Code <12 digit>	Category	Subject Title	Maximum Marks Allotted						Credits	Credits Hours				
				Theory(100 Marks)		Practical (50 Marks)		Total Marks				Hours/week			
				End Sem	Continuous Internal Evaluation	End Sem. Exam (ESE) For Practical and Viva	Lab Work / WPR	Attendance/A	L			T	P	M/B/ NTCC SM	
				End Sem. Evaluation /Assig./Pr	Essentials	Test (MST)	Lab Work / WPR	Assignment /viva/Lab manual							
1	ECSDC0001T	DC	Theory of Computation	60	20	20	-	-	100	3	0	-	-	3	3
2	ECSDC0001T	DC	Principles of Programming Languages	60	20	20	-	-	100	4	-	-	-	4	4
3	To be selected	DE	Department Elective-V	60	20	20	-	-	100	3	0	-	-	3	3
4	To be selected	DE	Department Elective-VI	60	20	20	-	-	100	3	0	-	-	3	3
5	To be selected	DE	Department Elective-VII	60	20	20	-	-	100	3	0	-	-	3	3
6	To be selected	DE	Department Elective-VIII	60	20	20	-	-	100	3	0	-	-	3	3
7	To be selected	DSEC	Departmental Skill Enhancement Elective Course-V	-	-	-	30	10	50	10	10	4	-	2	4
8	ECSDC0001P	DC	Theory of Computation Lab	-	-	-	30	10	50	10	10	2	-	1	2
9	To be selected	DE	Department Elective-V LAB	-	-	-	30	10	50	10	10	2	-	1	2
10	To be selected	DE	Department Elective-VI LAB	-	-	-	30	10	50	10	10	2	-	1	2
11	To be selected	DE	Department Elective-VII LAB	-	-	-	30	10	50	10	10	2	-	1	2
12	To be selected	DE	Department Elective-VIII LAB	60	20	20	-	-	100	3	0	-	-	1	2
13	To be selected	DSEC	Internship-I	-	-	-	-	20	50	-	-	-	-	2	-
Total				420	140	140	150	70	1000	22	0	12	0	4	28

* List of Departmental Elective-V

Course Code	Course Name
ECSDE0S001T/P	Distributed Operating System / Distributed Operating System Lab
ECSDEAML001T/P	Artificial Intelligence & Machine Learning / Artificial Intelligence & Machine Learning Lab

** List of Departmental Elective-VI

Course Code	Course Name
ECSDECS001T/P	Cyber Security / Cyber security Lab
ECSDENMS001T/P	Network Management & Security / Network Management & Security Lab

Departmental Skill Enhancement Elective Course Internship-I

Course Code	Course Name
ECSDSIIN001N	Industrial Internship-I

*** List of Departmental Elective-VII

Course Code	Course Name
ECSDEGEC001T/P	Grid & Edge Computing / Grid & Edge Computing Lab
ECSDECCO001T/P	Cloud Computing / Cloud Computing Lab

**** List of Departmental Elective-VIII

Course Code	Course Name
ECSDERPA001T/P	Robot Process Automation / Robot Process Automation Lab
ECSDEEMS001T/P	Embedded Systems / Embedded Systems Lab

\$ List of Departmental Skill Enhancement Elective Course-V

Course Code	Course Name
ECSDSLUP001P	Unix/Linux Programming Lab
ECSDSJPS001P	Advance Java Programming II Lab



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Institute Name: Institute of Engineering and Technology
 Department Name: Computer Science and Engineering
 CHOICE BASED CREDIT SYSTEM
 Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering

Semester: VI

Program Code : B.Tech (CSE)
 Admission batch: 2024-25
 Admission batch: 2023-24
 Admission batch: 2022-23

Course wise Distribution of Marks and corresponding Credits

S. No.	Subject Code <12 digit>	Category	Subject Title	Maximum Marks Allotted										Credits	Hours				
				Theory (100 Marks)				Practical (50 Marks)				Total Marks				Hours/week			
				End Sem	Continuous Internal Evaluation	Attendance/Assign/Practical	End Sem Exam (ESE) For Practical and Viva	Lab Work / WPR	Continuous Internal Evaluation	Attendance/Assign/viva/Lab manual	L	T	P			M/B/ SM	NTCC		
1	ECSDCCMD001T	DC	Compiler Design	60	20	20	-	-	-	100	3	0	-	-	3	3			
2	To be selected**	DE	Department Elective-IX	60	20	20	-	-	-	100	3	0	-	-	3	3			
3	To be selected**	DE	Department Elective-X	60	20	20	-	-	-	100	3	0	-	-	3	3			
4	To be selected***	DE	Department Elective-XI	60	20	20	-	-	-	100	3	0	-	-	3	3			
5	To be selected***	DE	Department Elective-XII	60	20	20	-	-	-	100	3	0	-	-	3	3			
6	To be selected ⁵	DSEC	Departmental Skill Enhancement Elective Course-VI	-	-	-	30	10	10	50	-	4	-	-	2	4			
7	ECSDCCMD001P	DC	Compiler Design Lab	-	-	-	30	10	10	50	-	2	-	-	1	2			
8	To be selected**	DE	Department Elective-IX LAB	-	-	-	30	10	10	50	-	2	-	-	1	2			
9	To be selected***	DE	Department Elective-X LAB	-	-	-	30	10	10	50	-	2	-	-	1	2			
10	To be selected***	DE	Department Elective-XI LAB	-	-	-	30	10	10	50	-	2	-	-	1	2			
11	To be selected***	DE	Department Elective-XII LAB	-	-	-	30	10	10	50	-	2	-	-	1	2			
12	ECSDPMP001N	DAP	Minor Project	-	-	-	-	40	60	100	-	-	-	-	6	-			
Total				300	100	100	180	100	100	900	15	0	14	0	12	28	29		

* List of Departmental Elective-IX

*** List of Departmental Elective-XII

Course Code	Course Name	Course Code	Course Name
ECSDQA001T/P	Software Testing & Quality Assurance / Software Testing & Quality Assurance Lab	ECDEBDH001T/P	Big Data / Big Data Lab
ECSDDEIT001T/P	Entrepreneurship for Information Technology / Entrepreneurship for Information Technology Lab	ECSDSE001T/P	Data Science / Data Science Lab
** List of Departmental Elective-X			
Course Code	Course Name	Course Code	Course Name
ECSDCYL001T/P	CYBER LAWS/ CYBER LAWS LAB	ECSDSRPR001P	R Programming Lab
ECSDENMA001T/P	Node, Express & MongoDB Advanced/Node, Express & MongoDB Advanced Lab	ECSDSMTL001P	Scilab Lab
*** List of Departmental Elective-XI			
Course Code	Course Name	Course Code	Course Name
ECSDSE001T/P	Departmental Skill Enhancement Elective Course-VI	ECSDSE001T/P	Departmental Skill Enhancement Elective Course-VI

Note: Industrial Internship II to be completed after V semester and before start of VII Semester, i.e. evaluation and credit to be added in VII Semester.



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SAGE University, Indore

Institute Name: Institute of Engineering and Technology
Department Name: Computer Science and Engineering

CHOICE BASED CREDIT SYSTEM
Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering

Semester: VII

Course wise Distribution of Marks and corresponding Credits

S. No.	Subject Code <12 digit>	Category	Subject Title	Theory (100 Marks)					Maximum Marks Allotted			Hours/week					Credits
				End Sem	Continuous Internal Evaluation /Assig./Practical and Viva	Mid Sem Test (MST)	Attendance/Assignments	End Sem. Exam (ESE) For Practical	Practical (50 Marks)		L	T	P	M/B/SM	NTCC		
									Lab Work / WPR	Attendance/Assignment /viva/Lab manual						Total Marks	
				80	80	80	180	240	80	110	90	12	0	12	0	8	22
1	ECSDCNLP001T	DC	Natural Language Processing	60	20	20	-	-	100	3	0	-	-	3	3		
2	To be selected*	DE	Department Elective-XIII	60	20	20	-	-	100	3	0	-	-	3	3		
3	To be selected**	DE	Department Elective-XIV	60	20	20	-	-	100	3	0	-	-	3	3		
4	To be selected***	DE	Department Elective-XV	60	20	20	-	-	100	3	0	-	-	3	3		
5	To be selected ⁵	DSEC	Departmental Skill Enhancement Elective Course-VII	-	-	-	30	10	50	-	-	4	-	2	4		
6	ECSDCNLP001P	DC	Natural Language Processing LAB	-	-	-	30	10	50	-	-	2	-	1	2		
7	To be selected*	DE	Department Elective-XIII LAB	-	-	-	30	10	50	-	-	2	-	1	2		
8	To be selected**	DE	Department Elective-XIV LAB	-	-	-	30	10	50	-	-	2	-	1	2		
9	To be selected***	DE	Department Elective-XV LAB	-	-	-	30	10	50	-	-	2	-	1	2		
10	To be selected ^{sss}	DSEC	Internship-II	-	-	-	-	40	50	-	-	-	-	1	2		
Total				240	80	80	180	90	700	12	0	12	0	8	22	24	



*** List of Departmental Elective-XV	
Course Code	Course Name
ECSDWMC001T/P	Wireless & Mobile Computing / Wireless & Mobile Computing Lab
ECSDEMAN001T/P	Mobile Adhoc Networks / Mobile Adhoc Networks Lab
*** List of Departmental Elective-XIV	
Course Code	Course Name
ECSDWMC001T/P	Wireless & Mobile Computing / Wireless & Mobile Computing Lab
ECSDDECO001T/P	Computational Intelligence / Computational Intelligence Lab
ECSDDEASD001T/P	Agile Software Development & DevOps / Agile Software Development & DevOps Lab
§ List of Departmental Skill Enhancement Elective Course-VII	
Course Code	Course Name
ECSDSMOS001P	Mobile Operating Systems Lab
ECSDSMDB001P	MongoDB Lab

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SAGE University, Indore

Institute Name: Institute of Engineering and Technology
 Department Name: Computer Science and Engineering
 CHOICE BASED CREDIT SYSTEM

Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering (Hons.)
 Semester: VIII

Program Code : B.Tech (CSE)
 Admission batch: 2025-26
 Admission batch: 2024-25
 Admission batch: 2023-24
 Admission batch: 2022-23

Course wise Distribution of Marks and corresponding Credits

S. No.	Course Code <12 digit>	Category	Course Title	Maximum Marks Allotted										Credits	Hours				
				Theory(100 Marks)			Practical (50 Marks)				Total Marks					Hours/week			Credits
				End Sem	Continuous Evaluation	Attendance/Assignment	End Sem. Exam (ESE) For Practical and Viva	Lab Work / WPR	Attendance/Assignment/viva/Lab manual	Internal	Mid Sem Test (MST)	Continuous Internal Evaluation	L			T	P	M/B/ SM	
1	ECSDPMP001N	DAP	Major Project	-	-	-	-	40	60	100	-	-	-	-	24	12	24		
Total				-	-	-	-	40	60	100	0	0	0	0	24	12	24		

Semester	Offered Credit Summary
	B.Tech. CSE (Honours)
I	26
II	28
III	26
IV	26
V	28
VI	28
VII	22
VIII	12
Total	196

Legends	
L= Lecture	1 Hr 1 CR
T= Tutorial	1 Hr 1 CR
P= Practical	2 Hr 1 CR
S= Studio	1 Hr 1.5 CR
NTCC = Non Teaching Credit Course	NA NA
M= MOOC	SWAYAM/NPTEL Certificate
BM = Blended MOOC	1 Hr 1 CR



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