



**WALCHAND INSTITUTE OF TECHNOLOGY,  
SOLAPUR  
(AN AUTONOMOUS INSTITUTE)**

**Affiliated to  
Punyashlok Ahilyadevi Holkar Solapur University,  
Solapur**

**CHOICE BASED CREDIT SYSTEM(CBCS)**

**Structure  
for  
M. Tech.  
in  
Computer Science and Engineering**

***SCHEME-24***

*F. Y. M. Tech. CSE W.E.F.2024-25*

*S. Y. M. Tech. CSE W.E.F.2025-26*



**Walchand Institute of Technology, Solapur**  
**M. Tech.- Computer Science and Engineering**  
**Structure - (Scheme 24)**

**Semester I**

Course Code	Name of the Course	Engagement Hours			Credits	SA			FA			Total
		L	T	P		ESE	ISE	ICA				
CSP1CC1	Applied Algorithms	3	-	2	4	60	40	25			125	
CSP1CC2	Theory of Computation	3	-	2	4	60	40	25			125	
CSP1CC3	Internet of Things	3	-	-	3	60	40	-			100	
CMP1RM	Research Methodology and IPR	3	1	-	4	60	40	25			125	
CSP1CE1N*	Core Elective I	3	-	-	3	60	40	-			100	
CSP1SM1	Seminar-1			4	2	-	-	50			50	
<b>Total</b>		<b>15</b>	<b>1</b>	<b>8</b>	<b>20</b>	<b>300</b>	<b>200</b>	<b>125</b>			<b>625</b>	

*N\*indicates course serial number of elective offered in the respective category*

Course Code	Name of the Course	Engagement Hours			Credits	SA			FA			Total
		L	T	P		ESE	ISE	ICA				
CMP1AC	Yoga for Stress Management	2	-	-	-	-	50	-			50	

**Core Elective-I**

Course Code	Course Title
CSP1CE11	Data Mining
CSP1CE12	Advanced Cryptography
CSP1CE13	Natural Language Processing

## Semester II

Course Code	Name of the Course	Engagement Hours			Credits	SA	FA		Total
		L	T	P		ES E	ISE	ICA	
CSP2CC4	Advanced Cloud Computing	3	-	2	4	60	40	25	125
CSP2CC5	Internet Routing Algorithm	3	-	2	4	60	40	25	125
CSP2CC6	Advanced Database Systems	3	-	-	3	60	40	-	125
CSP2CE2N*	Core Elective– II	3	-	-	3	60	40	-	100
CSP2CE3N*	Core Elective– III	3	-	-	3	60	40	-	100
CSP2SM2	Seminar-2	-	-	6	3	-	-	100	100
<b>Sub Total</b>		<b>15</b>	<b>-</b>	<b>10</b>	<b>20</b>	<b>300</b>	<b>200</b>	<b>150</b>	<b>650</b>

*N\*indicates course serial number of elective offered in the respective category*

### Core Elective-II

Course Code	Course Title
CSP2CE21	Machine Learning
CSP2CE22	Block Chain Technology
CSP2CE23	Reinforcement Learning

### Core Elective-III

Course Code	Course Title
CSP2CE31	Data Science
CSP2CE32	Wireless Sensor Network
CSP2CE33	High Performance Computing

**Note:** -For Open Elective course, students should enroll for one of the minimum 8 weeks duration course offered by SWAYAM/NPTEL platform. They should complete its assignments and appear for certificate examination conducted by SWAYAM / NPTEL. Students should pass the examination till the end of Semester IV. Based on the marks obtained in the assignments and examination; credits will be transferred in Semester IV. The list of courses will be provided by the Board of Studies.

## Semester III

Course Code	Name of the Course	Engagement Hours			Credits	SA	FA		Total
		L	T	P		ESE	ISE	ICA	
CMP3IK	Indian Science and Technology	2	-	-	2	-	50	-	50
CSP3IN	Internship	-	-	-	3	-	-	100	100
CSP3DS1	Dissertation Phase-I	-	-	30	15	-	200	150	350
<b>Total</b>		<b>2</b>	<b>-</b>	<b>30</b>	<b>20</b>		<b>250</b>	<b>350</b>	<b>500</b>

*Note: -Students must compulsorily undergo internship of one month after the Semester-II (in the summer vacation). The evaluation of the same will be carried out at the end of semester – III.*

## Semester IV

Course Code	Name of the Course	Engagement Hours			Credits	SA	FA		Total
		L	T	P		ESE	ISE	ICA	
CMP4OE1N*	Open Elective (SWAYAM/NPTEL MOOC) #	-	-	-	4	-	-	-	-
CSP4DS2	Dissertation Phase-II	-	-	32	16	200	-	200	400
<b>Total</b>		<b>-</b>	<b>-</b>	<b>32</b>	<b>20</b>	<b>200</b>	<b>-</b>	<b>200</b>	<b>400</b>

*N\*indicates course serial number of elective offered in the respective category*

Note: -

*For Open Elective course, students should enroll for one of the minimum 8 weeks duration course offered by SWAYAM / NPTEL platform. They should complete their assignments and appear for certificate examination conducted by SWAYAM/NPTEL. Students should pass the examination till the end of Semester IV. Based on the marks obtained in the assignments and examination; credits will be transferred in Semester IV. The list of courses will be provided by the Board of Studies.*

# As per the instruction provided in Semester II structure, the credits obtained by the students for the SWAYAM / NPTEL course will be transferred in this semester.