

# Scheme for batches 2018 and onwards

## B. Tech. CSE

Year	Semester	Course Code	Course Name	Type	L	T	P	Credits
<b>BS YEAR</b>								
1 <sup>ST</sup>	1 <sup>ST</sup>	MAL 103	Calculus for Engineers #	BS	3	1	0	4
1 <sup>ST</sup>	1 <sup>ST</sup>	BEL 102	Elements of Electrical Engineering	ES	3	0	2	4
1 <sup>ST</sup>	1 <sup>ST</sup>	BSL 101	Applied Sciences	BS	3	0	2	4
1 <sup>ST</sup>	1 <sup>ST</sup>	CSL 101	Computer Programming	DC	3	0	2	4
1 <sup>ST</sup>	1 <sup>ST</sup>	ECL 101	Electronics Devices and Circuits	DC	3	0	2	4
1 <sup>ST</sup>	1 <sup>ST</sup>	SAP 101	Health, Sports & Safety	HU	0	0	2	0
1 <sup>ST</sup>	1 <sup>ST</sup>	HUL 102	Environmental Studies	HU	2	0	0	2
<b>Subtotal</b>					<b>17</b>	<b>1</b>	<b>10</b>	<b>22</b>
1 <sup>ST</sup>	2 <sup>nd</sup>	MAL 104	Matrices, Transform Techniques, and Differential Equations #	BS	3	1	0	4
1 <sup>ST</sup>	2 <sup>nd</sup>	ECL 102	Digital Electronics	DC	3	0	2	4
1 <sup>ST</sup>	2 <sup>nd</sup>	CSL 102	Data Structures	DC	3	0	2	4
1 <sup>ST</sup>	2 <sup>nd</sup>	CSL 103	Application Programming	DC	3	0	2	4
1 <sup>ST</sup>	2 <sup>nd</sup>	HUL 101	Communication Skills	HU	2	0	2	3
1 <sup>ST</sup>	2 <sup>nd</sup>	BEL 101	Mechanics & Graphics	ES	3	0	2	4
<b>Subtotal</b>					<b>17</b>	<b>1</b>	<b>10</b>	<b>23</b>
<b>Total</b>								<b>45</b>
<b>SECOND YEAR</b>								
2 <sup>nd</sup>	3 <sup>rd</sup>	MAL 201	Numerical Methods and Probability Theory	BS	3	1	0	4
2 <sup>nd</sup>	3 <sup>rd</sup>	CSL 202	Introduction to Object Oriented Programming	DC	3	0	2	4
2 <sup>nd</sup>	3 <sup>rd</sup>	CSL 203	Computer System Organisation	DC	3	0	0	3
2 <sup>nd</sup>	4 <sup>th</sup>	CSL 210	Data Structures with Applications	DC	2	0	2	3
2 <sup>nd</sup>	3 <sup>rd</sup>	CSP 201	IT Workshop-I	DC	0	0	4	2
2 <sup>nd</sup>	3 <sup>rd</sup>	ECL 202	Microprocessors & Interfacing	DC	3	0	2	4
<b>Subtotal</b>					<b>14</b>	<b>1</b>	<b>10</b>	<b>20</b>
2 <sup>nd</sup>	4 <sup>th</sup>	CSL 205	Design and Analysis of Algorithms	DC	3	0	2	4
2 <sup>nd</sup>	4 <sup>th</sup>	CSL 206	Software Engineering	DC	3	0	0	3
2 <sup>nd</sup>	4 <sup>th</sup>	CSL 207	Operating Systems	DC	3	0	2	4
2 <sup>nd</sup>	4 <sup>th</sup>	CSL 208	Design Principles of Programming Languages	DC	3	0	2	4
2 <sup>nd</sup>	4 <sup>th</sup>	CSL 204	Discrete Maths and Graph Theory	DC	3	1	0	4
2 <sup>nd</sup>	4 <sup>th</sup>	CSP 202	IT Workshop-II	DC	0	0	4	2
<b>Subtotal</b>					<b>15</b>	<b>1</b>	<b>10</b>	<b>21</b>
<b>Total</b>								<b>41</b>

THIRD YEAR								
3 <sup>rd</sup>	5 <sup>th</sup>	CSL 301	Database Management Systems	DC	3	0	2	4
3 <sup>rd</sup>	5 <sup>th</sup>		Open Course - I	OC	3	0	0	3
3 <sup>rd</sup>	5 <sup>th</sup>	CSL 302	Computer Networks	DC	3	0	2	4
3 <sup>rd</sup>	5 <sup>th</sup>	CSL 303	Theory of Computation	DC	3	1	0	4
3 <sup>rd</sup>	5 <sup>th</sup>		Elective-I	DE	3	0	0	3
<b>Subtotal</b>					<b>15</b>	<b>1</b>	<b>4</b>	<b>18</b>
3 <sup>rd</sup>	6 <sup>th</sup>	CSL 304	Compilers	DC	3	0	2	4
3 <sup>rd</sup>	6 <sup>th</sup>	CSL 305	Cryptography and Network Security	DC	3	0	2	4
3 <sup>rd</sup>	6 <sup>th</sup>		Open course-II	OC	3	0	0	3
3 <sup>rd</sup>	6 <sup>th</sup>		Elective-II	DE	3	0	0	3
3 <sup>rd</sup>	6 <sup>th</sup>		Elective –III	DE	3	0	2	4
<b>Subtotal</b>					<b>15</b>	<b>0</b>	<b>6</b>	<b>18</b>
<b>Total</b>								<b>36</b>
FINAL YEAR								
4 <sup>th</sup>	7 <sup>th</sup>	CSD 403	Project Phase - I	DE	0	0	2	2
4 <sup>th</sup>	7 <sup>th</sup>		Elective-IV	DE	3	0	2	4
4 <sup>th</sup>	7 <sup>th</sup>		Elective-V	DE	3	0	2	4
4 <sup>th</sup>	7 <sup>th</sup>		Elective-VI	DE	3	0	0	3
4 <sup>th</sup>	7 <sup>th</sup>		Elective-VII	DE	3	0	0	3
4 <sup>th</sup>	7 <sup>th</sup>		MooC Course*	OC	3	0	0	3
<b>OR</b>								
4 <sup>th</sup>	7 <sup>th</sup>	CSD 403	Project Phase - I	DE	0	0	2	2
4 <sup>th</sup>	7 <sup>th</sup>	CSD 402	Industry Internship Project	DE	0	0	4	6
<b>Subtotal</b>					<b>15</b>	<b>0</b>	<b>14</b>	<b>19 / 8</b>
<b>Total</b>								<b>27</b>
4 <sup>th</sup>	8 <sup>th</sup>	CSD 404	Project Phase - II	DE	0	0	4	6
4 <sup>th</sup>	8 <sup>th</sup>	CSD 402	Industry Internship Project	DE	0	0	4	6
<b>OR</b>								
4 <sup>th</sup>	8 <sup>th</sup>	CSD 404	Project Phase - II	DE	0	0	4	6
4 <sup>th</sup>	8 <sup>th</sup>		Elective-IV	DE	3	0	2	4
4 <sup>th</sup>	8 <sup>th</sup>		Elective-V	DE	3	0	2	4
4 <sup>th</sup>	8 <sup>th</sup>		Elective-VI	DE	3	0	0	3
4 <sup>th</sup>	8 <sup>th</sup>		Elective-VII	DE	3	0	0	3
4 <sup>th</sup>	8 <sup>th</sup>		MooC Course*	OC	3	0	0	3
<b>Subtotal</b>					<b>15</b>	<b>0</b>	<b>16</b>	<b>12 / 23</b>
<b>Total</b>								<b>35</b>
<b>GRAND TOTAL</b>								<b>153</b>

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Maths – I (MAL 101) is mapped with Calculus for Engineers (MAL 103) from batch 2020 (1<sup>st</sup> Year)

Maths – II (MAL 102) is mapped with Matrices, Transform Techniques, and Differential Equations (MAL 104) from batch 2020 (1<sup>st</sup> Year)

Backlog students will take the new mapped courses.

<b>TYPE</b>	<b>CREDITS</b>
BS	16
ES	08
HU	05
OC	06+03*
DE	38
DC	77
<b>Total</b>	<b>153</b>

**\* MooC courses are to be taken by the students after the prior approval from the concerned authority. The MooC courses can be taken either in 3rd year or in final year.**