



**JSPM's**  
**RAJARSHI SHAHU COLLEGE OF ENGINEERING**  
**TATHAWADE, PUNE-33**  
 (An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune)



F. Y. B. Tech (Pattern 2025)

Structure for

**1. Electronics and Telecommunication Engineering 2. Electrical Engineering**  
**3. Civil Engineering**

**Academic Year -2025-2026 (Semester –I)**

Course Category	Course Code	Course	Teaching Scheme					Credit Cr	Examination Scheme			
			L	T	P	SL	TOTAL hr		ISE	MSE	ESE	Total
BSC	ES1301T	Calculus	3	1	-	4	8	4	20	30	50	100
BSC	ES1309T	Chemistry for Engineers	3	-	-	3	6	3	20	30	50	100
BSC	ES1309L	Chemistry for Engineers Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	CE1301T	Engineering Mechanics	3	-	-	3	6	3	20	30	50	100
ESC	CE1301L	Engineering Mechanics Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	EE1301T	Introduction to Electrical Engineering	3	-	-	3	6	3	20	30	50	100
ESC	EE1301L	Introduction to Electrical Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM (VSEC)	ME1302L	Engineering Drawing Laboratory	-	-	4	2	6	2	40	20	40	100
ESC	ES1310T	Biology for Engineers	2	-	-	2	4	2	20	30	50	100
HSSM	ES1311L	Community Engagement Project	-	-	2	1	3	1	20	10	20	50
HSSM (VSEC)	ES1312L	Introduction to Engineering and Engineering Products	-	-	2	1	3	1	20	10	20	50
HSSM	HS1301	Induction Training	Non –credit course									
<b>Total</b>			<b>14</b>	<b>1</b>	<b>14</b>	<b>22</b>	<b>51</b>	<b>22</b>	<b>240</b>	<b>220</b>	<b>390</b>	<b>850</b>

Dr. S.M. Yadav  
HOD Engg Sciences and Humanities

Dr. A.M. Badadhe  
Dean Academics



Dr. S.P. Bhosle  
Director RSCOE, Pune



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F. Y. B. Tech (Pattern 2025)

Structure for

**1. Electronics and Telecommunication Engineering 2. Electrical Engineering**  
**3. Civil Engineering**

**Academic Year -2025-2026 (Semester –II)**

Course Category	Course Code	Course	Teaching Scheme						Examination Scheme			
			L	T	P	SL	TOTAL Hr	Cr	ISE	MSE	ESE	Total
BSC	ES1302T	Linear Algebra and Integral Transforms	3	1	-	4	8	4	20	30	50	100
BSC	ES1307T	Physics for Engineers	3	-	-	3	3	3	20	30	50	100
BSC	ES1307L	Physics for Engineers Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	CS1301T	Introduction to Computer Programming and Data structure	2	-	-	2	4	2	20	30	50	100
ESC	CS1301L	Introduction to Computer Programming and Data Structure Laboratory	-	-	4	2	6	2	20	10	20	50
ESC	EC1301T	Basic Electronics Engineering	2	-	-	2	4	2	20	30	50	100
ESC	EC1301L	Basic Electronics Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM (AEC)	HS1302T/ HS1303T/ HS1304T/ HS1305T	Professional English Communication / English Language Skills / German Language Skills / Japanese Language Skills	2	-	-	2	4	2	20	30	50	100
HSSM (AEC)	HS1302L/ HS1303L/ HS1304L/ HS1305L	Professional English Communication Laboratory/ English Language Skills Laboratory/ German Language Skills Laboratory/ Japanese Language Skills Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM (VSEC)	ME1301L	Workshop Practice	-	-	4	2	6	2	40	20	40	100
HSSM (IKS)	HS1307T	Indian Knowledge Systems	2	-	-	2	4	2	10	20	20	50
HSSM	HS1306	Indian Constitution	Non –credit course									
<b>Total</b>			<b>14</b>	<b>1</b>	<b>14</b>	<b>22</b>	<b>48</b>	<b>22</b>	<b>230</b>	<b>230</b>	<b>390</b>	<b>850</b>

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## Abbreviations

<b>L</b>	<b>:</b>	<b>Lecture</b>	<b>P</b>	<b>:</b>	<b>Practical</b>
<b>T</b>	<b>:</b>	<b>Tutorial</b>	<b>C</b>	<b>:</b>	<b>Credits</b>
<b>SL</b>	<b>:</b>	<b>Self-Learning</b>			
<b>Hr</b>	<b>:</b>	<b>Contact Hours</b>			
<b>In Course Code T</b>	<b>:</b>	<b>Theory</b>	<b>In Course Code L</b>	<b>:</b>	<b>Lab</b>
<b>BSC</b>	<b>:</b>	<b>Basic Science Course</b>			
<b>ESC</b>	<b>:</b>	<b>Engineering Science Course</b>			
<b>HSSM</b>	<b>:</b>	<b>Humanities Social Science and Management Course</b>			
<b>AEC</b>		<b>Ability Enhancement Course</b>			
<b>VSEC</b>	<b>:</b>	<b>Vocational Skill Enhancement Course</b>			
<b>CEP</b>	<b>:</b>	<b>Community Engagement Project</b>			
<b>ISE</b>	<b>:</b>	<b>In Semester Evaluation</b>			
<b>MSE</b>	<b>:</b>	<b>Mid Semester Evaluation</b>			
<b>ESE</b>	<b>:</b>	<b>End Semester Evaluation</b>			

While calculating the 'Hr' component from 'P', the 'SL' parameter is excluded from consideration. Continues Assessment: ISE (In-semester Examination), MSE (Mid Semester Examination) Summative Assessment: ESE (End Semester Examination)

## List of Exit Courses after completion of Semester I and II

- Exit option is available for students those who have earned the total 44 credits at the End of Second Semester.
- Student who wants to avail the exit option after first year have to earn additional 8 credits from the list of courses shown below.
- These courses student have to complete within summer vacation after 1<sup>st</sup> Year.
- After fulfillment as mentioned in 1 to 3 above, Students can earn **U.G Certificate** and same will be issued by the Institute.

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## Electronics and Telecommunication Engineering

Sr. No.	Course code	Name	Credits
1.	EX-EC1301	Electrical Technology	2
2.	EX-EC1302	Network analysis	2
3.	EX-EC1303	Basics of Power Electronics	2
4.	EX-EC1304	Electrical Measurement	2
5.	EX-EC1305	Analog and Digital Circuit	2
6.	EX-EC1306	Microcontroller	2

## Electrical Engineering

Sr. No.	Course code	Name	Credits
1.	EX-EE1301	Certificate course in electrical wiring	2
2.	EX-EE1302	Certificate course in fundamental electrical circuit design	2
3.	EX-EE1303	Certificate course in electrical appliances operation	2
4.	EX-EE1304	Certificate course in electrical safety	2
5.	EX-EE1305	Certificate course in electrical drawing	2
6.	EX-ME1306	Certificate course in Electrical studies	2

## Civil Engineering

Sr. No.	Course code	Name	Credits
1.	EX-CE1301	Basic Civil Engineering	2
2.	EX-CE1302	Solid Mechanics	2
3.	EX-CE1303	Geotechnical Engineering	2
4.	EX-CE1304	Fluid Mechanics	2



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**F.Y.B.Tech (Pattern 2025)**

**Structure for**

**1. Mechanical Engineering 2. Automation and Robotics Engineering**

**Academic Year -2025-2026 (Semester –I)**

Course Category	Course Code	Course	Teaching Scheme						Examination Scheme			
			L	T	P	SL	TOTAL Hr	C	ISE	MSE	ESE	Total
BSC	ES1301T	Calculus	3	1	-	4	8	4	20	30	50	100
BSC	ES1307T/ ES1309T	Physics for Engineers/ Chemistry for Engineers	3	-	-	3	6	3	20	30	50	100
BSC	ES1307L/ ES1309L	Physics for Engineers Laboratory/ Chemistry for Engineers Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	CS1301T	Introduction to Computer Programming and Data structure	2	-	-	2	4	2	20	30	50	100
ESC	CS1301L	Introduction to Computer Programming and Data structure Lab	-	-	4	2	6	2	20	10	20	50
ESC	EC1301T	Basic Electronics Engineering	2	-	-	2	4	2	20	30	50	100
ESC	EC1301L	Basic Electronics Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM (AEC)	HS1302T/ HS1303T/ HS1304T/ HS1305T	Professional English Communication/ English Language Skills/ German Language Skills /Japanese Language Skills	2	-	-	2	4	2	20	30	50	100
HSSM (AEC)	HS1302L/ HS1303L/ HS1304L/ HS1305L	Professional English Communication Laboratory/ English Language Skills Laboratory/ German Language Skills Laboratory/ Japanese Language Skills Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM (VSEC)	ME1301L	Workshop Practice	-	-	4	2	6	2	40	20	40	100
HSSM (IKS)	HS1307T	Indian Knowledge Systems	2	-	-	2	4	2	10	20	20	50
HSSM	HS1301	Induction Training	NonCreditCourse									
<b>Total</b>			<b>14</b>	<b>1</b>	<b>14</b>	<b>22</b>	<b>51</b>	<b>22</b>	<b>230</b>	<b>230</b>	<b>390</b>	<b>850</b>

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**F.Y.B.Tech (Pattern 2025)**

**Structure for**

**1. Mechanical Engineering 2. Automation and Robotics**

**Academic Year -2025-2026 (Semester –II)**

Course Category	Course Code	Course	Teaching Scheme					Credit	Examination Scheme			
			L	T	P	SL	TOTAL Hr		ISE	MSE	ESE	Total
BSC	ES1302T	Linear Algebra and Integral Transform	3	1	-	4	8	4	20	30	50	100
BSC	ES1309T	Chemistry for Engineers	3	-	-	3	6	3	20	30	50	100
BSC	ES1309L	Chemistry for Engineers Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	CE1301T	Engineering Mechanics	3	-	-	3	6	3	20	30	50	100
ESC	CE1301L	Engineering Mechanics Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	EE1301T	Introduction to Electrical Engineering	3	-	-	3	6	3	20	30	50	100
ESC	EE1301L	Introduction to Electrical Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM (VSEC)	ME1302L	Engineering Drawing Laboratory	-	-	4	2	6	2	40	20	40	100
ESC	ES1310T	Biology for Engineers	2	-	-	2	4	2	20	30	50	100
HSSM	ES1311L	Community Engagement Project	-	-	2	1	3	1	20	10	20	50
HSSM (VSEC)	ES1312L	Introduction to Engineering and Engineering Products	-	-	2	1	3	1	20	10	20	50
HSSM	HS1306	Indian Constitution	NonCredit Course									
<b>Total</b>			<b>14</b>	<b>1</b>	<b>14</b>	<b>22</b>	<b>51</b>	<b>22</b>	<b>240</b>	<b>220</b>	<b>390</b>	<b>850</b>

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## Abbreviations

<b>L</b>	<b>:</b>	<b>Lecture</b>	<b>P</b>	<b>:</b>	<b>Practical</b>
<b>T</b>	<b>:</b>	<b>Tutorial</b>	<b>C</b>	<b>:</b>	<b>Credits</b>
<b>SL</b>	<b>:</b>	<b>Self-Learning</b>			
<b>Hr</b>	<b>:</b>	<b>Contact Hours</b>			
<b>In Course Code T</b>	<b>:</b>	<b>Theory</b>	<b>In Course Code L</b>	<b>:</b>	<b>Lab</b>
<b>BSC</b>	<b>:</b>	<b>Basic Science Course</b>			
<b>ESC</b>	<b>:</b>	<b>Engineering Science Course</b>			
<b>HSSM</b>	<b>:</b>	<b>Humanities Social Science and Management Course</b>			
<b>AEC</b>		<b>Ability Enhancement Course</b>			
<b>VSEC</b>	<b>:</b>	<b>Vocational Skill Enhancement Course</b>			
<b>CEP</b>	<b>:</b>	<b>Community Engagement Project</b>			
<b>ISE</b>	<b>:</b>	<b>In Semester Evaluation</b>			
<b>MSE</b>	<b>:</b>	<b>Mid Semester Evaluation</b>			
<b>ESE</b>	<b>:</b>	<b>End Semester Evaluation</b>			

While calculating the 'Hr' component from 'P', the 'SL' parameter is excluded from consideration

Continues Assessment: ISE (In-semester Examination), MSE (Mid Semester Examination) Summative Assessment: ESE (End Semester Examination)

## List of Exit Courses after completion of Semester I and II

- 1.Exit option is available for students those who have earned the total 44 credits at the End of Second Semester.
- 2.Student who wants to avail the exit option after first year have to earn additional 8 credits from the list of courses shown below.
- 3.These courses student have to complete within summer vacation after 1 st Year.
4. After fulfillment as mentioned in 1 to 3 above, Students can earn **U.G Certificate** and same will be issued by the Institute

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### Mechanical Engineering

Sr. No.	Course code	Name	Credits
1.	EX-ME1301	Certified in 3D modeling Software	2
2.	EX-ME1302	Certified in Drafting Skills	2
3.	EX-ME1303	Welding Technology	2
4.	EX-ME1304	Hands on Training in any workshop (2 Weeks)	2
5.	EX-ME1305	Certified Programmer in C	2
6.	EX-ME1306	Certified Programmer in AutoCAD	2

### Automation and Robotics Engineering

Sr. No.	Course code	Name	Credits
1.	EX-AR1301	Fundamentals of Automation System	2
2.	EX-AR1302	Fundamentals of Robotics	2
3.	EX-AR1303	Certification in Design and Simulation of Hydraulic/Pneumatic System	2
4.	EX-AR1304	Certified Programmer in C++	2
5.	EX-AR1305	Mini Project	2
6.	EX-AR1306	Internship at Industry	2

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F. Y. B. Tech (Pattern 2025)


Structure for

**F. Y. B. Tech. Computer Engineering**


Academic Year -2025-2026 (Semester –I)

Course Category	Course Code	Course	Teaching Scheme					Credit	Examination Scheme			
			L	T	P	SL	TOTAL Hr		ISE	MSE	ESE	Total
BSC	ES1301T	Calculus	3	1	-	4	8	4	20	30	50	100
BSC	ES1304T	Discrete Mathematics	3	1	-	4	8	4	20	30	50	100
BSC	ES1307T	Physics for Engineers	3	-	-	3	6	3	20	30	50	100
BSC	ES1307L	Physics for Engineers Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	CS1301T	Introduction to Computer Programming and Data Structure	2	-	-	2	4	2	20	30	50	100
ESC	CS1301L	Introduction to Computer Programming and Data Structure Laboratory	-	-	4	2	6	2	20	10	20	50
ESC	EC1301T	Basic Electronics Engineering	2	-	-	2	4	2	20	30	50	100
ESC	EC1301L	Basic Electronics Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM (AEC)	HS1302T/ HS1303T/ HS1304T/ HS1305T	Professional English Communication / English Language Skills / German Language Skills / Japanese Language Skills	2	-	-	2	4	2	20	30	50	100
HSSM (AEC)	HS1302L/ HS1303L/ HS1304L/ HS1305L	Professional English Communication Laboratory/ English Language Skills Laboratory/ German Language Skills Laboratory/ Japanese Language Skills Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM	HS1301	Induction Training	Non Credit Course									
Total			15	2	10	22	49	22	200	220	380	800

  
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F. Y. B. Tech (Pattern 2025)

Structure for

**F. Y. B. Tech. Computer Engineering**

**Academic Year -2025-2026 (Semester –II)**

Course Category	Course Code	Course	Teaching Scheme					Credit	Examination Scheme			
			L	T	P	SL	TOTAL Hr		C	ISE	MSE	ESE
BSC	ES1302T	Linear Algebra and Integral Transforms	3	1	-	4	8	4	20	30	50	100
BSC	ES1309T	Chemistry for Engineers	3	-	-	3	6	3	20	30	50	100
BSC	ES1309L	Chemistry for Engineers Laboratory	-	-	2	1	3	1	20	10	20	50
CS	CS1302T	Object Oriented Programming	2	-	-	2	4	2	20	30	50	100
CS	CS1302L	Object Oriented Programming Laboratory	-	-	4	2	6	2	20	10	20	50
ESC	EE1301T	Introduction to Electrical Engineering	3	-	-	3	6	3	20	30	50	100
ESC	EE1301L	Introduction to Electrical Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	ES1310T	Biology for Engineers	2	-	-	2	4	2	20	30	50	100
HSSM (IKS)	HS1307T	Indian Knowledge Systems	2	-	-	2	4	2	10	20	20	50
HSSM	ES1311L	Community Engagement Project	-	-	2	1	3	1	20	10	20	50
HSSM (VSEC)	ES1312L	Introduction to Engineering and Engineering Products	-	-	2	1	3	1	20	10	20	50
HSSM	HS1306	Indian Constitution	Non-credit course									
	Total		15	1	12	22	50	22	210	220	370	800

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## Abbreviations

<b>L</b>	<b>:</b>	<b>Lecture</b>	<b>P</b>	<b>:</b>	<b>Practical</b>
<b>T</b>	<b>:</b>	<b>Tutorial</b>	<b>C</b>	<b>:</b>	<b>Credits</b>
<b>SL</b>	<b>:</b>	<b>Self-Learning</b>			
<b>Hr</b>	<b>:</b>	<b>Contact Hours</b>			
<b>In Course Code T</b>	<b>:</b>	<b>Theory</b>	<b>In Course Code L</b>	<b>:</b>	<b>Lab</b>
<b>BSC</b>	<b>:</b>	<b>Basic Science Course</b>			
<b>ESC</b>	<b>:</b>	<b>Engineering Science Course</b>			
<b>HSSM</b>	<b>:</b>	<b>Humanities Social Science and Management Course</b>			
<b>AEC</b>	<b>:</b>	<b>Ability enhancement course</b>			
<b>VSEC</b>	<b>:</b>	<b>Vocational Skill Enhancement Course</b>			
<b>AEC</b>	<b>:</b>	<b>Ability Enhancement course</b>			
<b>CEP</b>	<b>:</b>	<b>Community Engagement Project</b>			
<b>ISE</b>	<b>:</b>	<b>In Semester Evaluation</b>			
<b>MSE</b>	<b>:</b>	<b>Mid Semester Evaluation</b>			
<b>ESE</b>	<b>:</b>	<b>End Semester Evaluation</b>			

While calculating the 'Hr' component from 'P', the 'SL' parameter is excluded from consideration

Continues Assessment: ISE (In-semester Examination), MSE (Mid Semester Examination) Summative Assessment: ESE(End Semester Examination)

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## List of Exit Courses after completion of Semester I and II

1. Exit option is available for students those who have earned the total 44 credits at the End of Second Semester.
2. Student who wants to avail the exit option after first year have to earn additional 8 credits from the list of courses shown below.
3. These courses student have to complete within summer vacation after 1 st Year.
4. After fulfillment as mentioned in 1 to 3 above, Students can earn **U.G Certificate** and same will be issued by the Institute.

### Computer Engineering

Sr. No.	Course code	Name	Credits
1.	EX-CS1301	Desktop Engineer	2
2.	EX-CS1302	IT Support Engineer	2
3.	EX-CS1303	Certified Programmer in C	2
4.	EX-CS1304	Certified Programmer in C++	2
5.	EX-CS1305	MS Office certification program	2
6.	EX-CS1306	Computer Hardware Maintenance	2

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F. Y. B. Tech (Pattern 2025)

Structure for

**F. Y. B. Tech. Information Technology**

Academic Year -2025-2026 (Semester –I)

Course Category	Course Code	Course	Teaching Scheme					Credit C	Examination Scheme			
			L	T	P	SL	TOTAL Hr		ISE	MSE	ESE	Total
BSC	ES1301T	Calculus	3	1	-	4	8	4	20	30	50	100
BSC	ES1309T	Chemistry for Engineers	3	-	-	3	6	3	20	30	50	100
BSC	ES1309L	Chemistry for Engineers Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	CS1301T	Introduction to Computer Programming and Data Sstructure	2	-	-	2	4	2	20	30	50	100
ESC	CS1301L	Introduction to Computer Programming and Data Sstructure Laboratory	-	-	4	2	6	2	20	10	20	50
ESC	EE1301T	Introduction to Electrical Engineering	3	-	-	3	6	3	20	30	50	100
ESC	EE1301L	Introduction to Electrical Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	ES1310T	Biology for Engineers	2	-	-	2	4	2	20	30	50	100
HSSM (IKS)	HS1307T	Indian Knowledge Systems	2	-	-	2	4	2	10	20	20	50
HSSM	ES1311L	Community Engagement Project	-	-	2	1	3	1	20	10	20	50
HSSM (VSEC)	ES1312L	Introduction to Engineering and Engineering Products	-	-	2	1	3	1	20	10	20	50
HSSM	HS1301	Induction Training	Non-credit course									
<b>Total</b>			<b>15</b>	<b>1</b>	<b>12</b>	<b>22</b>	<b>50</b>	<b>22</b>	<b>210</b>	<b>220</b>	<b>370</b>	<b>800</b>

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Dr. A.M. Badadhe  
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**F. Y. B. Tech (Pattern 2025)**

**Structure for**

**F. Y. B. Tech. Information Technology**

**Academic Year -2025-2026 (Semester –II)**

Course Category	Course Code	Course	Teaching Scheme					Credit	Examination Scheme			
			L	T	P	SL	TOTAL Hr	C	ISE	MSE	ESE	Total
BSC	ES1302T	Linear Algebra and Integral Transforms	3	1	-	4	8	4	20	30	50	100
BSC	ES1304T	Discrete Mathematics	3	1	-	4	8	4	20	30	50	100
BSC	ES1307T	Physics for Engineers	3	-	-	3	6	3	20	30	50	100
BSC	ES1307L	Physics for Engineers Laboratory	-	-	2	1	3	1	20	10	20	50
CS	CS1302T	Object Oriented Programming	2	-	-	2	4	2	20	30	50	100
CS	CS1302L	Object Oriented Programming Laboratory	-	-	4	2	6	2	20	10	20	50
ESC	EC1301T	Basic Electronics Engineering	2	-	-	2	4	2	20	30	50	100
ESC	EC1301L	Basic Electronics Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM (AEC)	HS1302T/	Professional English Communication /	2	-	-	2	4	2	20	30	50	100
	HS1303T/	English Language Skills /										
	HS1304T/	German Language Skills /										
	HS1305T	Japanese Language Skills										
HSSM (AEC)	HS1302L/	Professional English Communication Laboratory/	-	-	2	1	3	1	20	10	20	50
	HS1303L/	English Language Skills Laboratory/										
	HS1304L/	German Language Skills Laboratory/										
	HS1305L	Japanese Language Skills Laboratory										
HSSM	HS1306	Indian Constitution	Non Credit Course									
	Total		15	2	10	22	49	22	200	220	380	800

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## Abbreviations

<b>L</b>	<b>:</b>	<b>Lecture</b>	<b>P</b>	<b>:</b>	<b>Practical</b>
<b>T</b>	<b>:</b>	<b>Tutorial</b>	<b>C</b>	<b>:</b>	<b>Credits</b>
<b>SL</b>	<b>:</b>	<b>Self Learning</b>			
<b>Hr</b>	<b>:</b>	<b>Contact Hours</b>			
<b>In Course Code T</b>	<b>:</b>	<b>Theory</b>	<b>In Course Code L</b>	<b>:</b>	<b>Lab</b>
<b>BSC</b>	<b>:</b>	<b>Basic Science Course</b>			
<b>ESC</b>	<b>:</b>	<b>Engineering Science Course</b>			
<b>HSSM</b>	<b>:</b>	<b>Humanities Social Science and Management Course</b>			
<b>AEC</b>	<b>:</b>	<b>Ability enhancement course</b>			
<b>VSEC</b>	<b>:</b>	<b>Vocational Skill Enhancement Course</b>			
<b>AEC</b>	<b>:</b>	<b>Ability Enhancement course</b>			
<b>CEP</b>	<b>:</b>	<b>Community Engagement Project</b>			
<b>ISE</b>	<b>:</b>	<b>In Semester Evaluation</b>			
<b>MSE</b>	<b>:</b>	<b>Mid Semester Evaluation</b>			
<b>ESE</b>	<b>:</b>	<b>End Semester Evaluation</b>			

While calculating the 'Hr' component from 'P', the 'SL' parameter is excluded from consideration

Continues Assessment: ISE (In-semester Examination), MSE (Mid Semester Examination) Summative Assessment: ESE (End Semester Examination)

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## List of Exit Courses after completion of Semester I and II

1. Exit option is available for students those who have earned the total 44 credits at the End of Second Semester.
2. Student who wants to avail the exit option after first year have to earn additional 8 credits from the list of courses shown below.
3. These courses student have to complete within summer vacation after 1 st Year.
4. After fulfillment as mentioned in 1 to 3 above, Students can earn **U.G Certificate** and same will be issued by the Institute.

### Information Technology

Sr. No.	Course code	Name	Credits
1.	EX-CS1301	Desktop Engineer	2
2.	EX-CS1302	IT Support Engineer	2
3.	EX-CS1303	Certified Programmer in C	2
4.	EX-CS1304	Certified Programmer in C++	2
5.	EX-CS1305	MS Office certification program	2
6.	EX-CS1306	Computer Hardware Maintenance	2

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**F. Y. B. Tech. Computer Science and Business System**

**Academic Year -2025-2026 (Semester –I)**

**F. Y. B. Tech (Pattern 2025)**

Course Category	Course Code	Course	Teaching Scheme					Credit	Examination Scheme			
			L	T	P	SL	TOTAL Hr		ISE	MSE	ESE	Total
BSC	ES1304T	Discrete Mathematics	3	1	-	4	8	4	20	30	50	100
BSC	ES1305T	Introduction to Statistics, Probability and Calculus	3	-	-	3	6	3	20	30	50	100
ESC	CB1301T	Fundamentals of Computer Science	3	-	-	3	6	3	20	30	50	100
ESC	CB1301L	Fundamentals of Computer Science Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	EE1302T	Principles of Electrical Engineering	2	-	-	2	4	2	20	30	50	100
ESC	EE1302L	Principles of Electrical Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
BSC	ES1308T	Fundamentals of Physics	3	-	-	3	6	3	20	30	50	100
BSC	ES1308L	Fundamentals of Physics Laboratory	-	-	2	1	3	1	20	10	20	50
AEC	CB1303L	Business Communication and Value Science-I	-	-	2	1	3	1	20	10	20	50
HSSM (IKS)	HS1307T	Indian Knowledge Systems	2	-	-	2	4	2	10	20	20	50
VSEC	CB1302L	Python Scripting	-	-	4	2	6	2	40	20	40	100
HSSM	HS1301	Induction Training	NonCredit Course									
Total			16	1	12	23	52	23	230	230	390	850

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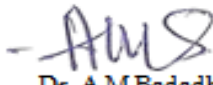
**F. Y. B. Tech. Computer Science and Business System**


**Academic Year -2025-2026 (Semester –II)**

**F. Y. B. Tech (Pattern 2025)**

Course Category	Course Code	Course	Teaching Scheme					Credit	Examination Scheme			
			L	T	P	SL	Total Hr		C	ISE	MSE	ESE
BSC	ES1303T	Linear Algebra	3	-	-	3	6	3	20	30	50	100
BSC	ES1306T	Statistical Methods & Modelling	3	-	-	3	6	3	20	30	50	100
ESC	CS1302T	Object Oriented Programming	2	-	-	2	4	2	20	30	50	100
ESC	CS1302L	Object Oriented Programming Laboratory	-	-	4	2	6	2	20	10	20	50
ESC	EC1302T	Principle of Electronics	3	-	-	3	6	3	20	30	50	100
ESC	EC1302L	Principle of Electronics Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM (AEC)	HS1302T/ HS1303T/ HS1304T/ HS1305T	Professional English Communication / English Language Skills / German Language Skills / Japanese Language Skills	2	-	-	2	4	2	20	30	50	100
HSSM (AEC)	HS1302L/ HS1303L/ HS1304L/ HS1305L	Professional English Communication Laboratory/ English Language Skills Laboratory/ German Language Skills Laboratory/ Japanese Language Skills Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM	HS1308T	Fundamentals of Management and Business Strategy	3	-	-	3	6	3	20	30	50	100
AEC	CB1304L	Business Communication and Value Science-II	-	-	2	1	3	1	20	10	20	50
HSSM	HS1306	Indian Constitution	NonCredit Course									
	Total		16	0	10	21	47	21	200	210	380	800

  
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<b>BSC</b>	<b>:</b>	<b>Basic Science Courses</b>			
<b>ESC</b>	<b>:</b>	<b>Engineering Science Course</b>			
<b>HSSM</b>	<b>:</b>	<b>Humanities Social Science and Management Course</b>			
<b>VSEC</b>	<b>:</b>	<b>Vocational Skill Enhancement Course</b>			
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While calculating the 'Hr' component from 'P', the 'SL' parameter is excluded from consideration. Continues Assessment: ISE (In-semester Examination), MSE (Mid Semester Examination) Summative Assessment: ESE (End Semester Examination)

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### Computer Sciences and Business Systems

Sr. No.	Course code	Name	Credits
1.	EX-CB1301	Desktop Engineer	2
2.	EX-CB1302	IT Support Engineer	2
3.	EX-CB1303	Certified Programmer in C	2
4.	EX-CB1304	Certified Programmer in C++	2

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