



**Jharkhand University of Technology, Ranchi**  
**Diploma -Automobile Engineering/Mechanical (Automobile) Engineering**

**III<sup>rd</sup> -Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">AUT301</a>	Automobile Chassis and Transmission System	3	1	0	6	4	100	40	30	70	AUT
02	<a href="#">AUT302</a>	Automotive Electrical System	3	1	0		4	100	40	30	70	AUT
03	<a href="#">AUT303</a>	Thermal Engineering and Engine Testing	3	1	0		4	100	40	30	70	AUT
04	<a href="#">AUT304</a>	Automotive Manufacturing Processes	3	1	0		4	100	40	30	70	AUT
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>	<b>Overall Pass Marks</b>	<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	AUT301P	Automobile Chassis and Transmission System	0	0	4		2	50	25	30	20	AUT
06	AUT302P	Automotive Electrical System	0	0	4		2	50	25	30	20	AUT
07	AUT303P	Thermal Engineering and Engine Testing	0	0	4		2	50	25	30	20	AUT
08	AUT304P	Automotive Manufacturing Processes	0	0	4		2	50	25	30	20	AUT
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	<b>200</b>	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>	<b>Overall Pass Marks</b>	<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC301	Professional Skills	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC302P	Sports/NCC/NSS/YOGA/Painting/Music/ Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	--	--	--	--	--	--	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>16</b>	<b>6</b>	<b>24</b>	<b>600</b>	--	--	--	

\*AUT- Automobile; AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice.

J- Self learning hours shall not be reflected in the Time table. Self-learning includes micro project/ assignment/ other activities as mentioned in earlier semester.



**Jharkhand University of Technology, Ranchi**  
**Diploma (Automobile Engineering/Mechanical Engineering Automobile)**

**IV<sup>th</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">AUT401</a>	Advanced Automotive Systems	3	1	0	6	4	100	40	30	70	AUT
02	<a href="#">AUT402</a>	Design and Drafting	3	1	0		4	100	40	30	70	AUT
03	<a href="#">AUT403</a>	Vehicle Body Engineering and Dynamics	3	1	0		4	100	40	30	70	AUT
04	<a href="#">AUT404</a>	Fuels and Pollution Control	3	1	0		4	100	40	30	70	AUT
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	AUT401P	Advanced Automotive Systems	0	0	4		2	50	25	30	20	AUT
06	AUT402P	Design and Drafting	0	0	4		2	50	25	30	20	AUT
07	AUT403P	Vehicle Body Engineering and Dynamics	0	0	4		2	50	25	30	20	AUT
08	AUT404P	Fuels and Pollution Control	0	0	4		2	50	25	30	20	AUT
<b>Total</b>			-	-	<b>16</b>		<b>8</b>	<b>200</b>	--	--	--	--
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC401	Mastering Personal Finance (Basic to Advance Strategies)	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC402P	Sports/NCC/NSS/YOGA/Painting/Music/ Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
11	INT401P	Summer Internship	6-8 Weeks			2	--	--	1/0	--	INT	
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	--	--	--	--	--	
<b>Grand Total</b>			<b>12</b>	<b>4</b>	<b>23</b>	<b>6</b>	<b>26</b>	<b>600</b>	--	--	--	

**Note-**

- AUT- Automobile; AU- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.
- INT- Internship (Completion of internship will be marked as-1; Non-completion of internship will be marked as-0 by the institution; The submitted write up & presentation record shall be kept safely by the institution).
- J- Self learning hours shall not be reflected in the Time table. Self-learning includes Micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Civil Engineering)**

**Semester-III**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">CIV301</a>	Engineering Mechanics and Strength of materials	3	1	0	6	4	100	40	30	70	CIV
02	<a href="#">CIV302</a>	Modern Surveying	3	1	0		4	100	40	30	70	CIV
03	<a href="#">CIV303</a>	Construction Techniques	3	1	0		4	100	40	30	70	CIV
04	<a href="#">CIV304</a>	Building Drawing using CAD	3	1	0		4	100	40	30	70	CIV
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>	<b>Overall Pass Marks</b>	<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	CIV301P	Engineering Mechanics and Strength of materials Lab	0	0	4		2	50	25	30	20	CIV
06	CIV302P	Modern Surveying Lab	0	0	4		2	50	25	30	20	CIV
07	CIV303P	Construction Techniques Lab	0	0	4		2	50	25	30	20	CIV
08	CIV304P	Building Drawing using CAD Lab	0	0	4		2	50	25	30	20	CIV
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	<b>200</b>	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>	<b>Overall Pass Marks</b>	<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC301	Professional Skills	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC301P	Sports/NCC/NSS/YOGA/Painting/Music/ Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	--	--	--	--	--	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>23</b>	<b>6</b>	<b>24</b>	<b>600</b>	--	--	--	

\*CIV- Civil; AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.

J- Self learning hours shall not be reflected in the Time table. Self-learning includes micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Civil Engineering)**

**Semester-IV**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	CIV401	Concrete Technology	3	1	0	6	4	100	40	30	70	CIV
02	CIV402	Building Estimating and Valuation	3	1	0		4	100	40	30	70	CIV
03	CIV403	Site Management	3	1	0		4	100	40	30	70	CIV
04	CIV404	Design and detailing of RCC structures	3	1	0		4	100	40	30	70	CIV
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	CIV401P	Concrete Technology	0	0	4		2	50	25	30	20	CIV
06	CIV402P	Building Estimating and Valuation	0	0	4		2	50	25	30	20	CIV
07	CIV403P	Site Management	0	0	4		2	50	25	30	20	CIV
08	CIV404P	Design and detailing of RCC structures	0	0	4		2	50	25	30	20	CIV
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>		<b>8</b>	<b>200</b>	--	--	--	--
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC401	Mastering Personal Finance (Basic to Advance Strategies)	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC401P	Sports/NCC/NSS/YOGA/Painting/Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory student participation shall be monitored and participation record shall be maintained at institute level.						
11	INT401P	Summer Internship	6-8 Weeks			2	--	--	1/0	--	INT	
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	
<b>Grand Total</b>			<b>12</b>	<b>4</b>	<b>23</b>	<b>6</b>	<b>26</b>	<b>600</b>	<b>--</b>	<b>--</b>	<b>--</b>	

**Note-**

1. CIV- Civil; AU- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.
2. INT- Internship (Completion of internship will be marked as-1; Non-completion of internship will be marked as-0 by the institution; The submitted write up & presentation record shall be kept safely by the institution).
3. J- Self learning hours shall not be reflected in the Time table. Self-learning includes Micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Computer Science Engineering)**

**III<sup>rd</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">CSE301</a>	Advanced Python Programming	3	1	0	6	4	100	40	30	70	CSE
02	<a href="#">CSE302</a>	Computer Hardware Maintenance and Administration	3	1	0		4	100	40	30	70	CSE
03	<a href="#">CSE303</a>	Computer Networks	3	1	0		4	100	40	30	70	CSE
04	<a href="#">CSE304</a>	Database System Concepts and PL/SQL	3	1	0		4	100	40	30	70	CSE
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>	<b>Overall Pass Marks</b>	<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	CSE301P	Advanced Python Programming	0	0	4		2	50	25	30	20	CSE
06	CSE302P	Computer Hardware Maintenance and Administration	0	0	4		2	50	25	30	20	CSE
07	CSE303P	Computer Networks	0	0	4		2	50	25	30	20	CSE
08	CSE304P	Database System Concepts and PL/SQL	0	0	4		2	50	25	30	20	CSE
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	<b>200</b>	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>	<b>Overall Pass Marks</b>	<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC301	Professional Skills	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC302P	Sports/NCC/NSS/YOGA/Painting/ Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	--	--	--	--	--	--	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>16</b>	<b>6</b>	<b>24</b>	<b>600</b>	--	--	--	--

\*CSE: Computer Science Engineering; - AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice.

J- Self learning hours shall not be reflected in the Time table. Self-learning includes micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Computer Science Engineering)**

**IV<sup>th</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">CSE401</a>	Data structures with Python	3	1	0	6	4	100	40	30	70	CSE
02	<a href="#">CSE402</a>	Operating System and Administration	3	1	0		4	100	40	30	70	CSE
03	<a href="#">CSE403</a>	Object Oriented Programming and Design with Java	3	1	0		4	100	40	30	70	CSE
04	<a href="#">CSE404</a>	Software Engineering principles and practices	3	1	0		4	100	40	30	70	CSE
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	CSE401P	Data structures with Python	0	0	4		2	50	25	30	20	CSE
06	CSE402P	Operating System and Administration	0	0	4		2	50	25	30	20	CSE
07	CSE403P	Object Oriented Programming and Design with Java	0	0	4		2	50	25	30	20	CSE
08	CSE404P	Software Engineering principles and practices	0	0	4		2	50	25	30	20	CSE
<b>Total</b>			-	-	<b>16</b>		<b>8</b>	<b>200</b>	--	--	--	--
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC401	Mastering Personal Finance (Basic to Advance Strategies)	0	-	3	Passing in Audit Course shall be mandatory.						
10	AUC402P	Sports/NCC/NSS/YOGA/Painting/Music/ Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
11	INT401P	Summer Internship	6-8 Weeks			2	--	--	1/0	--	INT	
<b>Total</b>			-	-	-	2	--	--	--	--	--	
<b>Grand Total</b>			<b>12</b>	<b>4</b>	<b>23</b>	<b>6</b>	<b>26</b>	<b>600</b>	--	--	--	

**Note-**

1. CSE- Computer Science Engineering; AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.
2. INT- Internship (Completion of internship will be marked as-1; Non-completion of internship will be marked as-0 by the institution; The submitted write up & presentation record shall be kept safely by the institution).
3. J- Self learning hours shall not be reflected in the Time table. Self-learning includes Micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Dress Design and Garment Manufacturing)**

**SEMESTER-III**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">DDG301</a>	Fabric Ornamentation	1	0	0	6	1	100	40	30	70	DDG
02	<a href="#">DDG302</a>	Drafting and Pattern Construction	3	0	0		3	100	40	30	70	DDG
03	<a href="#">DDG303</a>	Tools for Apparel construction	3	1	0		4	100	40	30	70	DDG
04	<a href="#">DDG304</a>	Indian Textile and World Embroidery	3	0	0		3	100	40	30	70	DDG
05	<a href="#">DDG305</a>	Indian Costume	3	1	0		4	100	40	30	70	DDG
06	<a href="#">DDG306</a>	Fashion Illustration	1	0	0		1	100	40	30	70	DDG
<b>Total</b>			<b>14</b>	<b>2</b>	<b>0</b>		<b>16</b>	<b>600</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
01	<a href="#">DDG301P</a>	Fabric Ornamentation	0	0	3		1.5	50	25	30	20	DDG
02	<a href="#">DDG302P</a>	Drafting and Pattern Construction	0	0	6		3	50	25	30	20	DDG
03	<a href="#">DDG306P</a>	Fashion Illustration	0	0	3		1.5	50	25	30	20	DDG
04	<a href="#">DDG307P</a>	Computer Aided Designing	0	0	4		2	50	25	30	20	DDG
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>		<b>8</b>	<b>200</b>	--	--	--	--
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
01	AUC301	Professional Skills	3	0	0	Passing in Audit Course shall be mandatory. Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
02	AUC301P	Sports/NCC/NSS/YOGA/Painting/Music/Classical Dance	6									
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	--	--	--	--	--	--	
<b>Grand Total</b>			<b>17</b>	<b>2</b>	<b>16</b>	<b>6</b>	<b>24</b>	<b>800</b>	--	--	--	

\*DDG- Dress Design and Garment Manufacturing; AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation. J- Self learning hours shall not be reflected in the Time table. Self-learning includes micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Dress Design and Garment Manufacturing)**

**Semester-IV**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">DDG401</a>	Graphic Designing	4	0	0	6	4	100	40	30	70	DDG
02	<a href="#">DDG402</a>	Apparel Merchandising	4	0	0		4	100	40	30	70	DDG
03	<a href="#">DDG403</a>	Textile Process	3	0	0		3	100	40	30	70	DDG
04	<a href="#">DDG404</a>	Advance Fashion Illustration	2	0	0		2	100	40	30	70	DDG
05	<a href="#">DDG405</a>	Advance Pattern Construction	3	0	0		3	100	40	30	70	DDG
<b>Total</b>			<b>16</b>	<b>0</b>	<b>0</b>		<b>16</b>	<b>500</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
06	<a href="#">DDG401P</a>	Graphic Designing (GAD) Lab	0	0	4		2	50	25	30	20	DDG
07	<a href="#">DDG403P</a>	Textile Process Lab	0	0	4		2	50	25	30	20	DDG
08	<a href="#">DDG404P</a>	Advance Fashion Illustration	0	0	4		2	50	25	30	20	DDG
09	<a href="#">DDG405P</a>	Advance Pattern Construction	0	0	4	2	50	25	30	20	DDG	
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	<b>200</b>	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
10	AUC401	Mastering Personal Finance (Basic to Advance Strategies)	3	0	0	Passing in Audit Course shall be mandatory.						
11	AUC401P	Sports/NCC/NSS/YOGA/Painting/ Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
12	INT401P	Summer Internship	6-8 Weeks									
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	--	--	1/0	--	INT	
<b>Grand Total</b>			<b>19</b>	<b>0</b>	<b>16</b>	<b>26</b>	<b>700</b>	--	--	--	--	

**Note-**

1. DDG- Dress Design and Garment Manufacturing; AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.
2. INT- Internship (Completion of internship will be marked as-1; Non-completion of internship will be marked as-0 by the institution; The submitted write up & presentation record shall be kept safely by the institution).
3. J- Self learning hours shall not be reflected in the Time table. Self-learning includes Micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Electronics & Communication Engineering)**

**III<sup>rd</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">ECE301</a>	Analog Electronics	3	1	0	6	4	100	40	30	70	ECE
02	<a href="#">ECE302</a>	Logic Design using Verilog	3	1	0		4	100	40	30	70	ECE
03	<a href="#">ECE303</a>	Communication Systems	3	1	0		4	100	40	30	70	ECE
04	<a href="#">ECE304</a>	Electronics Measurements and Testing Techniques	3	1	0		4	100	40	30	70	ECE
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	ECE301P	Analog Electronics	0	0	4		2	50	25	30	20	ECE
06	ECE302P	Logic Design using Verilog	0	0	4		2	50	25	30	20	ECE
07	ECE303P	Communication Systems	0	0	4		2	50	25	30	20	ECE
08	ECE304P	Electronics Measurements and Testing Techniques	0	0	4		2	50	25	30	20	ECE
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	<b>200</b>	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC301	Professional Skills	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC302P	Sports/NCC/NSS/YOGA/Painting/ Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	--	--	--	--	--	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>16</b>	<b>6</b>	<b>24</b>	<b>600</b>	--	--	--	--

\*ECE: Electronics & Communication Engineering; - AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation. J- Self learning hours shall not be reflected in the Time table. Self-learning includes micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Electronics & Communication Engineering)**

**IV<sup>th</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">ECE401</a>	PCB Design & Fabrication	3	1	0	6	4	100	40	30	70	ECE
02	<a href="#">ECE402</a>	Wireless Communication	3	1	0		4	100	40	30	70	ECE
03	<a href="#">ECE403</a>	Embedded C Programming	3	1	0		4	100	40	30	70	ECE
04	<a href="#">ECE404</a>	Industrial Automation	3	1	0		4	100	40	30	70	ECE
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	ECE401P	PCB Design & Fabrication	0	0	4		2	50	25	30	20	ECE
06	ECE402P	Wireless Communication	0	0	4		2	50	25	30	20	ECE
07	ECE403P	Embedded C Programming	0	0	4		2	50	25	30	20	ECE
08	ECE404P	Industrial Automation	0	0	4		2	50	25	30	20	ECE
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>		<b>8</b>	<b>200</b>	--	--	--	--
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC401	Mastering Personal Finance (Basic to Advance Strategies)	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC401P	Sports/NCC/NSS/YOGA/Painting/ Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
11	INT401P	Summer Internship	6-8 Weeks			2	--	--	1/0	--	INT	
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>16</b>	<b>6</b>	<b>26</b>	<b>600</b>	<b>--</b>	<b>--</b>	<b>--</b>	

**Note-**

1. CSE- Computer Science Engineering; AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.
2. INT- Internship (Completion of internship will be marked as-1; Non-completion of internship will be marked as-0 by the institution; The submitted write up & presentation record shall be kept safely by the institution).
3. J- Self learning hours shall not be reflected in the Time table. Self-learning includes Micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Electrical Engineering/ Electrical & Electronics Engineering)**

**III<sup>rd</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	EEE301	Basic of Electrical Power System	3	1	0	6	4	100	40	30	70	EEE
02	EEE302	Transmission and Distribution	3	1	0		4	100	40	30	70	EEE
03	EEE303	Switchgear and Protection	3	1	0		4	100	40	30	70	EEE
04	EEE304	Analog and Digital Electronics	3	1	0		4	100	40	30	70	EEE
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	EEE301P	Basic of Electrical Power System	0	0	4		2	50	25	30	20	EEE
06	EEE302P	Transmission and Distribution	0	0	4		2	50	25	30	20	EEE
07	EEE303P	Switchgear and Protection	0	0	4		2	50	25	30	20	EEE
08	EEE304P	Analog and Digital Electronics	0	0	4		2	50	25	30	20	EEE
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	<b>200</b>	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC301	Professional Skills	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC301P	Sports/NCC/NSS/YOGA/Painting/ Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	--	--	--	--	--	
<b>Grand Total</b>			<b>12</b>	<b>4</b>	<b>23</b>	<b>6</b>	<b>24</b>	<b>600</b>	--	--	--	--

\*EE/EEE: - Electrical Engineering/ Electrical & Electronics Engineering, AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.

J- Self learning hours shall not be reflected in the Time table. Self-learning includes micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Electrical Engineering/ Electrical & Electronics Engineering)**

**IV<sup>th</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	EEE401	Electric Motors	3	1	0	6	4	100	40	30	70	EEE
02	EEE402	Power Electronics	3	1	0		4	100	40	30	70	EEE
03	EEE403	Fundamentals of Automation Technology	3	1	0		4	100	40	30	70	EEE
04	EEE404	Computer Aided Electrical Drafting (CAED)	3	1	0		4	100	40	30	70	EEE
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	--	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	EEE401P	Electric Motors	0	0	4		2	50	25	30	20	EEE
06	EEE402P	Power Electronics	0	0	4		2	50	25	30	20	EEE
07	EEE403P	Fundamentals of Automation Technology	0	0	4		2	50	25	30	20	EEE
08	EEE404P	Computer Aided Electrical Drafting (CAED)	0	0	4		2	50	25	30	20	EEE
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>		<b>8</b>	<b>200</b>	--	--	--	--
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC401	Mastering Personal Finance (Basic to Advance Strategies)	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC401P	Sports/NCC/NSS/YOGA/Painting/ Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
11	INT401P	Summer Internship	6-8 Weeks			2	--	--	<b>1/0</b>	--	INT	
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	--	--	--	--	--	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>16</b>	<b>6</b>	<b>26</b>	<b>600</b>	--	--	--	

**Note-**

1. EE/EEE: - Electrical Engineering/ Electrical & Electronics Engineering, AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.
2. INT- Internship (Completion of internship will be marked as-1; Non-completion of internship will be marked as-0 by the institution; The submitted write up & presentation record shall be kept safely by the institution).
3. J- Self learning hours shall not be reflected in the Time table. Self-learning includes Micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (EV-Technology)**

**III<sup>rd</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">EVT301</a>	Transformers and Alternators	3	1	0	6	4	100	40	30	70	EVT
02	<a href="#">EVT302</a>	Transmission, Distribution and Switchgear	3	1	0		4	100	40	30	70	EVT
03	<a href="#">EVT303</a>	Analog and Digital Electronics	3	1	0		4	100	40	30	70	EVT
04	<a href="#">EVT304</a>	Automobile Chassis and Transmission	3	1	0		4	100	40	30	70	EVT
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	400	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	EVT301P	Transformers and Alternators	0	0	4		2	50	25	30	20	EVT
06	EVT302P	Transmission, Distribution and Switchgear	0	0	4		2	50	25	30	20	EVT
07	EVT303P	Analog and Digital Electronics	0	0	4		2	50	25	30	20	EVT
08	EVT304P	Automobile Chassis and Transmission	0	0	4		2	50	25	30	20	EVT
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	200	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC301	Professional Skills	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC301P	Sports/NCC/NSS/YOGA/Painting/ Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	--	--	--	--	--	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>16</b>	<b>6</b>	<b>24</b>	<b>600</b>	--	--	--	--

\*EVT: - EV-Technology, AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.  
J- Self learning hours shall not be reflected in the Time table. Self-learning includes micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (EV-Technology)**

**IV<sup>th</sup> Semester**

S.No.	Course Code	Course Title	Hours per week			J	Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P							
01	<a href="#">EVT401</a>	Electric Motors	3	1	0	6	4	100	40	30	70	EVT
02	<a href="#">EVT402</a>	Power Electronics	3	1	0		4	100	40	30	70	EVT
03	<a href="#">EVT403</a>	Fundamentals of Electrical vechle Technology	3	1	0		4	100	40	30	70	EVT
04	<a href="#">EVT404</a>	Embedded System	3	1	0		4	100	40	30	70	EVT
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>					
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	EVT401P	Electric Motors	0	0	4		2	50	25	30	20	EVT
06	EVT402P	Power Electronics	0	0	4		2	50	25	30	20	EVT
07	EVT403PP	Fundamentals of Electrical vechle Technology	0	0	4		2	50	25	30	20	EVT
08	EVT404	Embedded System	0	0	4		2	50	25	30	20	EVT
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>		<b>8</b>					
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC401	Mastering Personal Finance (Basic to Advance Strategies)	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC401P	Sports/NCC/NSS/YOGA/Painting/ Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
11	INT401P	Summer Internship	6-8 Weeks			2	--	--	1/0	--	INT	
<b>Total</b>			<b>3</b>	<b>0</b>	<b>7</b>	<b>2</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>23</b>	<b>6</b>	<b>26</b>	<b>600</b>	<b>--</b>	<b>--</b>	<b>--</b>	

**Note-**

1. EVT: - **EV-Technology**, AUC- **Audit Course**; L: **Lecture**, T: **Tutorial**, P: **Practice**, CIE- **Continuous Internal Evaluation**, SEE- **Semester End Evaluation**.
2. INT- **Internship** (Completion of internship will be marked as-1; Non-completion of internship will be marked as-0 by the institution; The submitted write up & presentation record shall be kept safely by the institution).
3. J- **Self learning hours** shall not be reflected in the Time table. Self-learning includes Micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Interior Design)**

**III<sup>th</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">IDE301</a>	Building Construction and Drawing – I	3	1	0	6	4	100	40	30	70	ID
02	<a href="#">IDE302</a>	Interior Design – I	3	1	0		4	100	40	30	70	ID
03	<a href="#">IDE303</a>	Computer Aided Drafting	3	1	0		4	100	40	30	70	ID
04	<a href="#">IDE304</a>	Furniture Design	3	1	0		4	100	40	30	70	ID
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	400	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	IDE301P	Building Construction and Drawing – I	0	0	4		2	50	25	30	20	ID
06	IDE302P	interior Design – I	0	0	4		2	50	25	30	20	ID
07	IDE303P	Computer Aided Drafting	0	0	4		2	50	25	30	20	ID
08	IDE304P	Furniture Design	0	0	4		2	50	25	30	20	ID
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	200	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC301	Professional Skills	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC301P	Sports/NCC/NSS/YOGA/Painting/ Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester “Participation Certificate” in activity will be mandatory student participation shall be monitored and participation record shall be maintained at institute level.						
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	--	--	--	--	--	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>23</b>	<b>6</b>	<b>24</b>	<b>600</b>	--	--	--	--

**\*IDE: - Interior Design, AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.**  
**J- Self learning hours shall not be reflected in the Time table. Self-learning includes micro project/ assignment/ other activities as mentioned in earlier semester.**

**Jharkhand University of Technology, Ranchi**  
**Diploma (Interior Design)**

**IV<sup>th</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">IDE401</a>	Building Construction and Drawing – II	3	1	0	6	4	100	40	30	70	IDE
02	<a href="#">IDE402</a>	Interior Design – II	3	1	0		4	100	40	30	70	IDE
03	<a href="#">IDE403</a>	Computer Aided Presentation Technique	3	1	0		4	100	40	30	70	IDE
04	<a href="#">IDE404</a>	Building Services and Drawing	3	1	0		4	100	40	30	70	IDE
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	IDE401P	Building Construction and Drawing – II	0	0	4		2	50	25	30	20	IDE
06	IDE402P	Interior Design – II	0	0	4		2	50	25	30	20	IDE
07	IDE403P	Computer Aided Presentation Technique	0	0	4		2	50	25	30	20	IDE
08	IDE404P	Building Services and Drawing	0	0	4		2	50	25	30	20	IDE
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>		<b>8</b>	<b>200</b>	--	--	--	--
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC401	Mastering Personal Finance (Basic to Advance Strategies)	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC401P	Sports/NCC/NSS/YOGA/Painting/Music/Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
11	INT401P	Summer Internship	6-8 Weeks			2	--	--	1/0	--	INT	
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	--	--	--	--	--	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>23</b>	<b>6</b>	<b>26</b>	<b>600</b>	--	--	--	

**Note-**

- IDE: - Interior Design, AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.**
- INT- Internship (Completion of internship will be marked as-1; Non-completion of internship will be marked as-0 by the institution; The submitted write up & presentation record shall be kept safely by the institution).**
- J- Self learning hours shall not be reflected in the Time table. Self-learning includes Micro project/ assignment/ other activities as mentioned in earlier semester.**

**Jharkhand University of Technology, Ranchi**  
**Diploma (Mechanical Engineering)**

**III<sup>rd</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal	External	Categorization
			L	T	P	J						
01	<a href="#">MEC301</a>	Mechanics of Materials	3	1	0	6	4	100	40	30	70	MEC
02	<a href="#">MEC302</a>	Machine Tool Technology	3	1	0		4	100	40	30	70	MEC
03	<a href="#">MEC303</a>	Manufacturing Processes	3	1	0		4	100	40	30	70	MEC
04	<a href="#">MEC304</a>	Fluid Power Engineering	3	1	0		4	100	40	30	70	MEC
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	MEC301P	Mechanics of Materials	0	0	4		2	50	25	30	20	MEC
06	MEC302P	Machine Tool Technology	0	0	4		2	50	25	30	20	MEC
07	MEC303P	Manufacturing Processes	0	0	4		2	50	25	30	20	MEC
08	MEC304P	Fluid Power Engineering	0	0	4		2	50	25	30	20	MEC
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	<b>200</b>	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC301	Professional Skills	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC301P	Sports/NCC/NSS/YOGA/Painting/Music/ Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	--	--	--	--	--	
<b>Grand Total</b>			<b>12</b>	<b>4</b>	<b>23</b>	<b>6</b>	<b>24</b>	<b>600</b>	--	--	--	--

\*PC: Programme Core; - AU- Audit Course; L: Lecture, T: Tutorial, P: Practice.

J- Self learning hours shall not be reflected in the Time table. Self-learning includes micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Mechanical Engineering)**

**IV<sup>th</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal	External	Categorization
			L	T	P	J						
01	<a href="#">MEC401</a>	Operations Management	3	1	0	6	4	100	40	30	70	MEC
02	<a href="#">MEC402</a>	CNC Programming and Machining	3	1	0		4	100	40	30	70	MEC
03	<a href="#">MEC403</a>	Product Design and Development	3	1	0		4	100	40	30	70	MEC
04	<a href="#">MEC404</a>	Elements of Industrial Automation	3	1	0		4	100	40	30	70	MEC
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	MEC401P	Operations Management	0	0	4		2	50	25	30	20	MEC
06	MEC402P	CNC Programming and Machining	0	0	4		2	50	25	30	20	MEC
07	MEC403P	Product Design and Development	0	0	4	2	50	25	30	20	MEC	
08	MEC404P	Elements of Industrial Automation	0	0	4	2	50	25	30	20	MEC	
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	<b>200</b>	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC401	Mastering Personal Finance (Basic to Advance Strategies)	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC401P	Sports/NCC/NSS/YOGA/Painting/Music/ Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
11	INT401P	Summer Internship	6-8 Weeks			2	--	--	1/0	--	INT	
<b>Total</b>			-	-	-	2	--	--	--	--	--	
<b>Grand Total</b>			-	-	-	<b>6</b>	<b>26</b>	<b>600</b>	--	--	--	

**Note-**

1. **MEC:** - Mechanical Engineering, AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.
2. **INT-** Internship (Completion of internship will be marked as-1; Non-completion of internship will be marked as-0 by the institution; The submitted write up & presentation record shall be kept safely by the institution).
3. **J-** Self learning hours shall not be reflected in the Time table. Self-learning includes Micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Metallurgical Engineering)**

**III<sup>rd</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">MET301</a>	Foundry Technology	3	1	0	6	4	100	40	30	70	MET
02	<a href="#">MET302</a>	Iron Making	3	1	0		4	100	40	30	70	MET
03	<a href="#">MET303</a>	Non Ferrous Extractive Metallurgy	3	1	0		4	100	40	30	70	MET
04	<a href="#">MET304</a>	Machine Toll technology	3	1	0		4	100	40	30	70	MET
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	MET301P	Foundry Technology	0	0	4		2	50	25	30	20	MET
06	MET302P	Iron Making	0	0	4		2	50	25	30	20	MET
07	MET303P	Non Ferrous Extractive Metallurgy	0	0	4		2	50	25	30	20	MET
08	MET304P	Machine Toll Technology	0	0	4		2	50	25	30	20	MET
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>	<b>8</b>	<b>200</b>	--	--	--	--	
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>	
09	AUC301	Professional Skills	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC301P	Sports/NCC/NSS/YOGA/Painting/Music/ Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	--	--	--	--	--	--	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>16</b>	<b>6</b>	<b>24</b>	<b>600</b>	--	--	--	--

\* MET- Metallurgical Engineering; AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.  
J- Self learning hours shall not be reflected in the Time table. Self-learning includes micro project/ assignment/ other activities as mentioned in earlier semester.

**Jharkhand University of Technology, Ranchi**  
**Diploma (Metallurgical Engineering)**

**IV<sup>th</sup> Semester**

S.No.	Course Code	Course Title	Hours per week				Cr	FM	Overall Pass Marks	Internal (CIE)	External (SEE)	Categorization
			L	T	P	J						
01	<a href="#">MET401</a>	Physical Metallurgy	3	1	0	6	4	100	40	30	70	MET
02	<a href="#">MET402</a>	Testing of Metallic Materials	3	1	0		4	100	40	30	70	MET
03	<a href="#">MET403</a>	Fuels and Refractories	3	1	0		4	100	40	30	70	MET
04	<a href="#">MET404</a>	Operations Management	3	1	0		4	100	40	30	70	MET
<b>Total</b>			<b>12</b>	<b>4</b>	<b>0</b>		<b>16</b>	<b>400</b>	--	--	--	--
<b>Practical</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
05	MET401P	Physical Metallurgy	0	0	4		2	50	25	30	20	MET
06	MET402P	Testing of Metallic Materials	0	0	4		2	50	25	30	20	MET
07	MET403P	Fuels and Refractories	0	0	4		2	50	25	30	20	MET
08	MET404P	Operations Management	0	0	4		2	50	25	30	20	MET
<b>Total</b>			<b>0</b>	<b>0</b>	<b>16</b>		<b>8</b>	<b>200</b>	--	--	--	--
<b>Audit Course</b>			<b>L</b>	<b>T</b>	<b>P</b>		<b>Cr</b>	<b>FM</b>		<b>Internal</b>	<b>External</b>	<b>Categorization</b>
09	AUC401	Mastering Personal Finance (Basic to Advance Strategies)	3	0	0	Passing in Audit Course shall be mandatory.						
10	AUC401P	Sports/NCC/NSS/YOGA/Painting/Music/ Classical Dance	6			Student shall participate actively in one of the activities and for Passing of the semester "Participation Certificate" in activity will be mandatory. Student participation shall be monitored and participation record shall be maintained at institute level.						
11	INT401P	Summer Internship	6-8 Weeks			2	--	--	1/0	--	INT	
<b>Total</b>			<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	
<b>Grand Total</b>			<b>15</b>	<b>4</b>	<b>16</b>	<b>6</b>	<b>26</b>	<b>600</b>	<b>--</b>	<b>--</b>	<b>--</b>	

**Note-**

- MET- Metallurgical Engineering; AUC- Audit Course; L: Lecture, T: Tutorial, P: Practice, CIE- Continuous Internal Evaluation, SEE- Semester End Evaluation.**
- INT- Internship (Completion of internship will be marked as-1; Non-completion of internship will be marked as-0 by the institution; The submitted write up & presentation record shall be kept safely by the institution).**
- J- Self learning hours shall not be reflected in the Time table. Self-learning includes Micro project/ assignment/ other activities as mentioned in earlier semester.**