

*Chhattisgarh Swami Vivekanand Technical University, Bhilai, CG*

**SCHEME OF MASTER OF TECHNOLOGY**

**Electronics & Telecommunication Engineering (Instrumentation & Control)**

**M. Tech. [First Semester]**

S. No.	Board of Studies	CODE	SUBJECT	Weekly Teaching Hrs./Pds			Scheme of Examination			GRAND TOTAL	Credits
				L	T	P	ESE	CT	TA		
1	Electronics & Telecomm.	528111(28)	Industrial Transducers & Sensors	3	1	-	100	20	20	140	4
2	Electronics & Telecomm.	528112(28)	Bio-Medical Instrumentation	3	1	-	100	20	20	140	4
3	Electronics & Telecomm.	528113(28)	Digital Measurement Techniques	3	1	-	100	20	20	140	4
4	Electronics & Telecomm.	528114(28)	Control System Design	3	1	-	100	20	20	140	4
5	Electronics & Telecomm.	Refer Below Elective – I		3	1	-	100	20	20	140	4
6	Electronics & Telecomm.	528121(28)	Industrial Transducers & Sensors Lab	-	-	3	75	75	-	150	2
7	Electronics & Telecomm.	528122(28)	Control System Design Lab	-	-	3	75	75	-	150	2
<b>TOTAL</b>				<b>15</b>	<b>5</b>	<b>6</b>	<b>650</b>	<b>250</b>	<b>100</b>	<b>1000</b>	<b>24</b>

**Table-I**

**ELECTIVE - I**

S.No.	Board of Study	Subject Code	Subject
1	Electronics & Telecomm.	528131(28)	Systems Optimization
2	Electronics & Telecomm.	528132(28)	Reliability Engineering
3	Electronics & Telecomm.	528133(28)	Robotics & Computer Vision

**Note (1) –** *1/4<sup>th</sup> of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session .*

**Note (2) –** *Choice of elective course once made for an examination cannot be changed in future examinations.*

*Chhattisgarh Swami Vivekanand Technical University, Bhilai, CG*

**SCHEME OF MASTER OF TECHNOLOGY**

**Electronics & Telecommunication Engineering (Instrumentation & Control)**

**M.Tech. [Second Semester]**

S. No.	Board of Studies	CODE	SUBJECT	Weekly Teaching Hrs.			Scheme of Examination			GRAND TOTAL	Credits
				L	T	P	ESE	TA	CT		
1	Electronics & Telecomm.	528211(28)	Microcontroller & Embedded Systems	3	1	-	100	20	20	140	4
2	Electronics & Telecomm.	528212(28)	Optimal Control Systems	3	1	-	100	20	20	140	4
3	Electronics & Telecomm.	528213(28)	Process Control & Industrial Automation	3	1	-	100	20	20	140	4
4	Electronics & Telecomm.	528214(28)	Industrial Electronics & Power Control	3	1	-	100	20	20	140	4
5	Electronics & Telecomm.	Refer Below Elective – II		3	1	-	100	20	20	140	4
6	Electronics & Telecomm.	528221(28)	Microcontroller & Embedded Systems Lab	-	-	3	75	75	-	150	2
7	Electronics & Telecomm.	528222(28)	Computer Simulation Lab	-	-	3	75	75	-	150	2
<b>TOTAL</b>				<b>15</b>	<b>5</b>	<b>6</b>	<b>100</b>	<b>250</b>	<b>650</b>	<b>1000</b>	<b>24</b>

**Table-II**

<b>ELECTIVE - II</b>			
S.No.	Board of Study	Subject Code	Subject
1	Electronics & Telecomm.	528231(28)	Fuzzy - Neural Control
2	Electronics & Telecomm.	528232(28)	Computer Numerical Control & Programming
3	Electronics & Telecomm.	528233(28)	AI & ES in Industrial Systems

**Note (1) –** *1/4<sup>th</sup> of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session.*

**Note (2) –** **Choice of elective course once made for an examination cannot be changed in future examinations.**

## *Chhattisgarh Swami Vivekanand Technical University, Bhilai, CG*

### SCHEME OF TEACHING AND EXAMINATION

#### M. Tech. Electronics & Telecommunication Engineering (Instrumentation & Control)

#### III Semester

S. No.	Board of Studies	CODE	SUBJECT	Periods per week			Scheme of Exam Theory/Practical			GRAND TOTAL	Credit L+(T+P)/2
				L	T	P	ESE	TA	CT		
1	Electronics & Telecomm.	552311(28)	Adaptive Control Systems	3	1	-	100	20	20	140	4
2	Electronics & Telecomm.	Refer Below Elective -III		3	1	-	100	20	20	140	4
3	Electronics & Telecomm.	552321(28)	Preliminary Work on Dissertation	-	-	28	100	100	-	200	14
4	Electronics & Telecomm.	552322(28)	Seminar on Industrial Training & Dissertation	-	-	3	-	20	-	20	2
<b>TOTAL</b>				<b>6</b>	<b>2</b>	<b>31</b>	<b>300</b>	<b>160</b>	<b>40</b>	<b>500</b>	<b>24</b>

**L – Lecture, T – Tutorial, P – Practical, ESE- End Semester Exam , CT- Class Test TA – Teacher’s Assessment**

<b>Table - III</b>			
<b>Elective – III</b>			
<b>S.No.</b>	<b>Board of Studies</b>	<b>Code</b>	<b>Subject</b>
1	Electronics & Telecomm.	552331(28)	Analytical Instrumentation
2	Electronics & Telecomm.	552332 (28)	Real Time Systems
3	Electronics & Telecomm.	552333(28)	Programmable Logic Controllers

**Note (1) –** 1/4<sup>th</sup> of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session.

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## SCHEME OF TEACHING AND EXAMINATION

**M. Tech. Electronics & Telecommunication Engineering (Instrumentation & Control)**

## IV Semester

S. No.	Board of Studies	CODE	SUBJECT	Periods per week			Scheme of Exam. <u>Theory / Practical</u>			GRAND TOTAL	Credit $L+(T+P)/2$
				L	T	P	ESE	TA	CT		
1	Electronics & Telecomm.	552421(28)	Dissertation	6	-	34	300	200	-	500	23
			<b>TOTAL</b>	<b>6</b>	<b>-</b>	<b>34</b>	<b>300</b>	<b>200</b>	<b>-</b>	<b>500</b>	<b>23</b>

L – Lecture, T – Tutorial, P – Practical, ESE- End Semester Exam , CT- Class Test TA – Teacher's Assessment