CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

M. TECH IN STEEL TECHNOLOGY

INFORMATION BROCHURE

(2009-2010)

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M. TECH. IN STEEL TECHNOLGOY

Preamble

Chhattisgarh Swami Vivekanand Technical University was established by an Act of Legislature passed by the Chhattisgarh State Government Assembly and published in State Govt gazette of 24th January 2005. The Foundation Stone of the University was laid down by Hon'ble Dr Manmohan Singh, the Prime Minister, Govt of India on April 30th, 2005. The M Tech in Steel Technology Course is a symbol of the synergistic partnership between Chhattisgarh Swami Vivekanand Technical University and Bhilai Steel Plant. The objective is to develop highly qualified and competent human resource for managing the Steel Industries. The course has been approved by the All India Council for Technical Education New Delhi.

Human intellectual capital is the single most precious asset of our country and our aim is to build up a man-power capable to support the aspiration of the nation. The M Tech (Steel Technology) degree is a must if one aspires to set oneself apart from the anonymous mass of run of the mill "Metallurgists" and to assume a leading role in transforming the industry. The Steel Sector is eagerly waiting for the specialists. Build a carreer in the world of steel.

General Information

1. For the award of PG Degree (M.Tech.) in Steel Technology, the student has to appear in the subject given in scheme of examination and teaching. The Examination shall be conducted by means of theory papers and practical examination.
2. The Examination shall consist of four parts as below:
   a) The First Semester examination
   b) The Second Semester Examination and
   c) The Third Semester Examination
   d) The Fourth Semester Examination

   Each Semester shall be of six months duration.
3. A student is required to attend 85% of the lectures delivered and of practical classes held separately in each subject, provided that a shortfall in attendance up to 15% can be condoned by the University for satisfactory reasons.
4. In order to pass in any part of PG Degree (M.Tech.) in Steel Technology, an examinee has to obtain at least 40% marks in each theory End Semester Examination (ESE), 50% marks in ESE of each practical examination and 0% Teacher's Assessment (TA/ Sessional). Apart from above, in order to pass any part the candidate has to obtain at least 40% marks in aggregated

of theory including ESE, TA and CT. In each theory subject in a semester, at least two class tests (CT) are to be conducted.

5. The Division in which a candidate shall be placed, will be determined on the basis of aggregate marks obtained in the total of all the three semester exams. No division shall be assigned in first semester.
6. Students shall be required to pay the fees as follows:
   Course fee : Rs 60,000.00 Enrollment fee: Rs 60, Examination Fee: Rs 620 Per semester and Caution money : Rs 5000 (refundable at the end of the session).

Code of Conduct for Students

Chhattisgarh Swami Vivekanand Technical University expects a high level of discipline and conduct from all her students. All the students have to observe the rules and statutes of the University. Failure to maintain the standard of conduct, shall result in disciplinary action.

Misconduct

Any of the following activities (not exclusively) will be termed as misconduct:

1. Disruption of teaching activities or disturbing the learning process of the students.
   Use of unparliamentarily languages.
2. Disruption of functioning and damage to he university properties.
3. Any activity endangering the health and safety of the students and stuffs. Possession of weapons and dangerous materials. Smoking in the premises.
4. Cheating in examination and submission of false documents.
5. Failure to return loaned materials from the university or settling of dues.

Disciplinary Actions

Failure to adhere to good conduct may result in disciplinary action like:

1. A warning by the authorities
2. Suspension from a class, semester or from the course.
3. Withholding of examination results or withdrawal of the awarded certificate.
4. Any other action deemed appropriate by the university.

CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY

Courses of Study and Scheme of Examination

Scheme of Teaching and Examination

M. TECH IN STEEL TECHNOLOGY

FIRST SEMESTER

S.No	Board of Study	Subject Code	Subject	Periods Per Week			Scheme of Examination Theory/Practical			Total Marks	Credit [L+[T+P]]/2
				L	T	P	ESE	CT	TA		
1	Metallurgical Engineering	556111 (38)	Ferrous Thermodynamics & Kinetics	3	1	0	100	20	20	140	4
2	Metallurgical Engineering	556112 (38)	Equipment Maintenance Technology	2	1	0	100	20	20	140	3
3	Metallurgical Engineering	556113 (38)	Physical Metallurgy, Corrosion & Surface Engineering	3	1	0	100	20	20	140	4
4	Metallurgical Engineering	556114 (38)	Sinter Making & Blast Furnace Technology	3	1	0	100	20	20	140	4
5	Metallurgical Engineering	556115 (38)	Material Science	2	1	0	100	20	20	140	3
6	Metallurgical Engineering	556121 (38)	Process Control in Iron making LAB	0	0	6	75	0	75	150	3
7	Metallurgical Engineering	556122 (38)	Physical Metallurgy LAB	0	0	6	75	0	75	150	3
TOTAL				13	5	12	650	100	250	1000	24

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

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Courses of Study and Scheme of Examination

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M. TECH IN STEEL TECHNOLOGY

SECOND SEMESTER

S.No	Board of Study	Subject Code	Subject	Periods Per Week			Scheme of Examination Theory/Practical			Total Marks	Credit [L+[T+P]] 2
				L	T	P	ESE	CT	TA		
1	Metallurgical Engineering	556211 (38)	Basic Oxygen Steel Making and Continuous Casting Process	3	1	0	100	20	20	140	4
2	Metallurgical Engineering	556212 (38)	Automation & Process Control in Steel Industry	3	1	0	100	20	20	140	4
3	Metallurgical Engineering	556213 (38)	Refractory & Fuel	2	1	0	100	20	20	140	3
4	Metallurgical Engineering	556214 (38)	Mechanical Working Testing and Joining of Metals	3	1	0	100	20	20	140	4
5	Metallurgical Engineering	556215 (38)	Environment Management & Safety Engineering	2	1	0	100	20	20	140	3
6	Metallurgical Engineering	556221 (38)	Process Control in Steel Making LAB	0	0	6	75	0	75	150	3
7	Metallurgical Engineering	556222 (38)	Rolling & Mechanical Testing LAB	0	0	6	75	0	75	150	3
TOTAL				13	5	12	650	100	250	1000	24

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

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THIRD SEMESTER

S.No	Board of Study	Subject Code	Subject	Periods Per Week			Scheme of Examination Theory/Practical			Total Marks	Credit $[L+\frac{[T+P]}{2}]$
				L	T	P	ESE	CT	TA		
1	Metallurgical Engineering	556311 (38)	Advanced Iron Making	3	1	0	100	20	20	140	4
2	Metallurgical Engineering	556312 (38)	Advanced Steel making & Continuous Casting	3	1	0	100	20	20	140	4
3	Metallurgical Engineering	556321 (38)	Preliminary work on Dissertation and On Job Training	-	-	28	100	-	100	200	14
4	Metallurgical Engineering	556322 (38)	Seminar on Industrial Training and Dissertation	-	-	03	-	-	20	20	2
TOTAL				6	2	31	300	40	160	500	24

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

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FOURTH SEMESTER

S.No	Board of Study	Subject Code	Subject	Periods Per Week			Scheme of Examination Theory/Practical			Total Marks	Credit [L+(T+P)] 2
				L	T	P	ESE	CT	TA		
I	Metallurgical Engineering	556421 (38)	Project + Seminar	6	-	34	300	-	200	500	23
TOTAL				6	-	34	300	-	200	500	23

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

Scheme of Marks Allotment

Semester	Total Marks	Grand Total
I	1000	3000
II	1000	
III	500	
IV	500	