



Metal Transfer and Weld Metallurgy

Year:2019-20

Event Description:

This Apparel Production & Marketing webinar was organized on the year of 2019-20. It gave brief idea to students about uses of alloy for a given commercial application.

**Metal Transfer and
Weld Metallurgy**

Year : 2019-2020

**Centurion University of Technology and
Management**



Pre-requisites: Nil
Course Type : Audit (Workshop)
Duration : 30 Hours

Course Objectives:

- ❖ To understand and use of alloys for a given commercial application.
- ❖ To use the physical principles of arc, plasma, laser, resistance spot, electron beam and solid state welding processes

Learning Outcomes:

- Students will be able to learn and use of alloys for a given commercial application
- Students will be able to construct of virtually all components of the assemblies

Module	Contents	Duration
Module-1	Introduction to welding metallurgy , phase diagrams	6 hrs
Module-2	Changing map and geo-information production environments	6 hrs
Module-3	Metallurgical strengthening approaches	6 hrs
Module-4	Heat treatment processes for weldments	6 hrs
Module-5	Analysis of heat flow and temperature distribution in welding	6 hrs
	TOTAL	30 hours

Anita Patra



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Dr. Anita Patra, Registrar, CUTM

Convener



Report on Metal Transfer and Weld Metallurgy

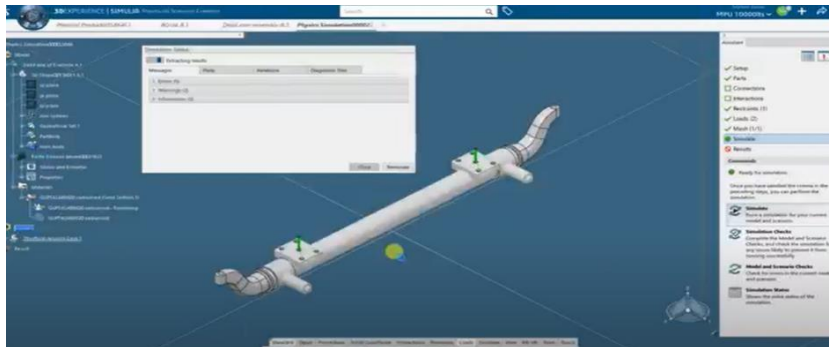
Number of Participant:60

Year: 2018-19

Date: 19.09.2019

This course develops different ways of processing metals and converting them into products which are useful for humans. The students study the science of metals and conduct various types of research in the respective field. They primarily practice in the iron and steel and other metal areas and research laboratories.

Students will be converted into material scientists who specialize in metals such as steel, aluminium, iron, copper etc. They also skilled with alloys to create other elements to create different types of materials.



Metal Transfer and Weld Metallurgy on 19.09.2019

After completing a formal education in the respective field, there are various metallurgist job profiles one can pursue as per their career interest. Some of them are listed below:

- **Process Metallurgist:** They design metal parts and control the processes through which they are shaped such as casting. They also weld and solder metal parts together.
- **Metallurgical Engineer:** Metallurgical engineers develop ways of processing metals and converting them into useful products. Their job role is very similar to that of metallurgical scientists.
- **Chemical Metallurgist:** Their job role is to test ores to determine the recoverability of metals from them, and design processes to recover them efficiently. They also monitor metal corrosion and fatigue and develop ways to strengthen metals.
- **Physical Metallurgist:** They monitor the behaviour of metals under stress, and write reports on test results and do research on the same. They also investigate accidents potentially caused by metallurgical failure.

Anita Patra



Dr. Anita Patra, Registrar, CUTM

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Convener





List of Participants

Metal Transfer and Weld Metallurgy

Organized by: Centurion University of Technology and Management

Date: 19 September 2019

Event Description:

This Apparel Production & Marketing webinar was organized in the year of 2018-19. It gave brief idea to students about uses of alloy for a given commercial application.

List of Participants:

S.No.	Name	Reg. No.	Presence/Absent
1	SIBASUNDAR MIRDA	180301160005	Present
2	UJJWAL KUMAR PRASAD	180301160006	Present
3	PRABHU PRASAD DAS	180301160007	Present
4	ASHIS KUMAR SAMAL	180301160008	Present
5	PRITIRANJAN PATTANAİK	180301160009	Present
6	SOUMYA RANJAN DAS	180301160013	Present
7	RAKESH SWAIN	180301160014	Present
8	D. SHIRDI SAGAR	180301160015	Present
9	SUMONTA GARADA	180301160021	Present
10	BISHWAJIT ROUT	180301160022	Present
11	SOUMYA RANJAN PRADHAN	180301160023	Present
12	SUBRAT SAHU	180301160024	Present
13	ANSUMAN SADANGI	180301160029	Present
14	AKASH KUMAR SINGH	180301160030	Present
15	CHHATRA PAL	180301160034	Present
16	SHAILESH HESSA	180301160035	Present
17	SASWAT SATWIK SAHOO	180301160041	Present
18	DEEPAK SAHOO	180301160042	Present
19	B JYOTI PRAKASH	180301161048	Present
20	RISHIKESH MOHANTY	180301161049	Present
21	JAGANNATH GOPE	180301161050	Present
22	KASIM KHAN	180301161051	Absent
23	SAHIL DASTAGIR MULLA	180301161052	Present
24	SOMERIK SEN	180301161053	Present
25	DEBANJAN SEN	180301161054	Present
26	RAMESH BASKEY	180301161055	Present
27	ANUBHAV KUMAR	180301190001	Present
28	SACHIN KUMAR	180301190002	Present
29	AKASH KUMAR	180301190003	Present

30	ANAND KUMAR	180301190004	Present
31	SOURAV KUMAR SINGH	180301190005	Present
32	LAXMAN KUMAR MAHATO	180301190006	Present
33	ABHISHEK SAHOO	180301190007	Present
34	SANDEEP KUMAR PATRA	180301190008	Present
35	LAXMI NARAYAN DAS	180301160001	Present
36	SK MD ARSHAD ALI	180301160002	Present
37	SUJIT KUMAR ROUT	180301160003	Present
38	SANYASH CHANDRA BHAGAT	180301160004	Present
39	MD OLID ILIYAS	180301160010	Present
40	ABHISEKH PATRA	180301160011	Present
41	SOUMYARANJAN SAHU	180301160012	Present
42	SURYA KANTA ROUT	180301160016	Absent
43	CHINMAYA SAHU	180301160017	Present
44	JAGABANDHU SAHU	180301160018	Present
45	SAUGAT KUMAR SHAW	180301160020	Present
46	ANSHUMAN PANDA	180301160025	Absent
47	PRAKASH CHANDRA MAHATO	180301160026	Present
48	SOUNG Sampurna Swain	180301160027	Present
49	PATITAPABAN MOHANTY	180301160028	Present
50	B. PAVAN KALYAN	180301160031	Present
51	CHINMAYA KUMAR BALIARSINGH	180301160032	Present
52	RASHMIRANJAN ROUT	180301160033	Present
53	SAI SWAGAT BEHERA	180301160036	Present
54	MD JAWED AKHTAR	180301160037	Present
55	DIBYAJYOTI KAR	180301160039	Present
56	LALATENDU ROUT	180301160040	Present
57	SUBHAM BARIK	180301160043	Present
58	PREMCHAND MURMU	180301160044	Present
59	SURESH BISWAL	180301160045	Present
60	SHUBHAM CHAKRABORTY	180301161047	Present

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