



(Declared as deemed to be university under section 3 of UGC Act 1956, vide notification No F.9-5/2000-U.3)

Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BASIC SCIENCES

Date: 23.09.2019

CIRCULAR

Sub: Organising Value added Course: Plastic Working of Metallic Materials- reg.,

With reference to the above mentioned subject, we bring it to your notice that School of Basic Sciences, Bharath Institute of Higher Education & Research is organising **Value added course "Plastic Working of Metallic Materials"**. The syllabus and registration form is enclosed below.

The candidates those who are interested to join must fill the registration form and submit to the Course Coordinator Dr. S. Anandhi, Department of Physics on or before 19.10.2019. The Registration form received after the mentioned date shall not be entertained under any circumstances.

Faculty of Arts & Science
Dean-Faculty of Arts & Science
Bharath Institute of Higher Education & Research
Declared to be university under UGC Act, 1956
Chennai-600 073, INDIA

Encl: A copy of Syllabus & Registration form

Copy To:

- 1.All HODs
- 2.Office File/ Notice Board
3. Course Coordinator

Bharath Institute of Higher Education & Research
School of Basic Sciences
Lesson Plan

Value Added Course: Plastic Working of Metallic Materials			Course Duration:30 Hrs	
S.No	Date	Topic	Time	Hour
1	19/11/06	Introduction to Plastic Working of Metals	2.00-3.00p.m	1
2	19/11/07	Uniaxial Tension Test Analysis, Temperature effects in metal forming.	10.00-12.00p.m	1
3	19/11/08	Friction and Lubrication.	2.00-3.00p.m	1
4	19/11/11	Deformation zone + worked examples. Stresses at point & Theory of Plasticity.	10.00-12.00p.m	2
5	19/11/12	Slab Analysis. Slip Line Field Theory	2.00-4.00p.m	2
6	19/11/13	Upper Bound Theorem. Plasticity equations.	10.00-12.00p.m	2
7	19/11/14	Forging. Analysis of Forging, Forging Die Design consideration. Forging Load.	2.00-4.00p.m	2
8	19/11/15	Rolling of Metals. Analysis of Rolling.	10.00-12.00p.m	2
9	19/11/18	Strain rate in the deformation zone, Rolling mills, Prblem on rolling,	2.00-4.00p.m	1
10	19/11/19	Drawing of Rods, Wires and Tubes,	10.00-12.00p.m	2
11	19/11/20	Analysis of Wire Drawing, Wire Drawing	2.00-4.00p.m	2
12	19/11/21	Tutorial Problems,	10.00-12.00p.m	2
13	19/11/22	Extrusion Process, Analysis of Extrusion.	2.00-4.00p.m	2
14	19/11/25	Introduction- Sheet deformation process,	10.00-12.00p.m	2
15	19/11/26	Deformation of sheet in plane stress	2.00-4.00p.m	2
16	19/11/27	Analysis of stamping, Instability in sheet metal forming,	10.00-12.00p.m	2
17	19/11/28	Deep drawing, Hydroforming	10.00-12.00p.m	2

Bharath Institute of Higher Education & Research
 School of Basic Sciences
 Students Registration List
 Value Added Course: Plastic Working of Metallic Materials

S.NO	REG.NO	NAME OF THE CANDIDATE	DEPARTMENT
1	U19PS001	RAJESH A	PHYSICS
2	U19PS002	NISHALINI R	PHYSICS
3	U19PS003	RAJA S	PHYSICS
4	U19PS004	ANANDU S	PHYSICS
5	U19PS005	SAJITHA M	PHYSICS
6	U19PS006	KEERTHIKA P	PHYSICS
7	U19PS007	THARUN PRASATH D	PHYSICS
8	U19PS008	NISHANTHI R	PHYSICS
9	U19PS009	MATHAN KUMAR M	PHYSICS
10	U19PS010	ARAVIND A	PHYSICS
11	U19PS011	SHANMATHI M	PHYSICS
12	U19PS012	RANGARAMANUJAM N.S	PHYSICS
13	U19PS013	KALAIARASI R	PHYSICS
14	U19PS014	VIVEKANANDAN M	PHYSICS
15	U19PS015	RATHISH M	PHYSICS
16	U19PS016	JOHN PETER A	PHYSICS
17	U19PS017	MEENAKSHI G	PHYSICS
18	U19PS018	SURAJ RAJAN R	PHYSICS
19	U19PS019	SURIYA E	PHYSICS
20	U19PS020	MONISH KUMAR A	PHYSICS
21	U19PS021	SARAVANAN S	PHYSICS
22	U18PS008	SREE LAKSHMI PRIYA S	PHYSICS
23	U18PS009	NAMBIRAJAN S	PHYSICS
24	U18PS010	MOHAMED AZHARUDEEN M	PHYSICS
25	U18PS012	SANGEETHA V	PHYSICS
26	U18PS013	PURUSHOTHAMAN R	PHYSICS
27	U18PS014	KARUNYA G A	PHYSICS
28	U18PS015	KOKILA P	PHYSICS
29	U18PS017	ANTHA L	PHYSICS
30	U18PS018	SARANRAJ C	PHYSICS

Bharath Institute of Higher Education & Research
School of Basic Sciences
Course TimeTable

Value Added Course: Plastic Working of Metallic Materials

Course Duration:30 Hrs

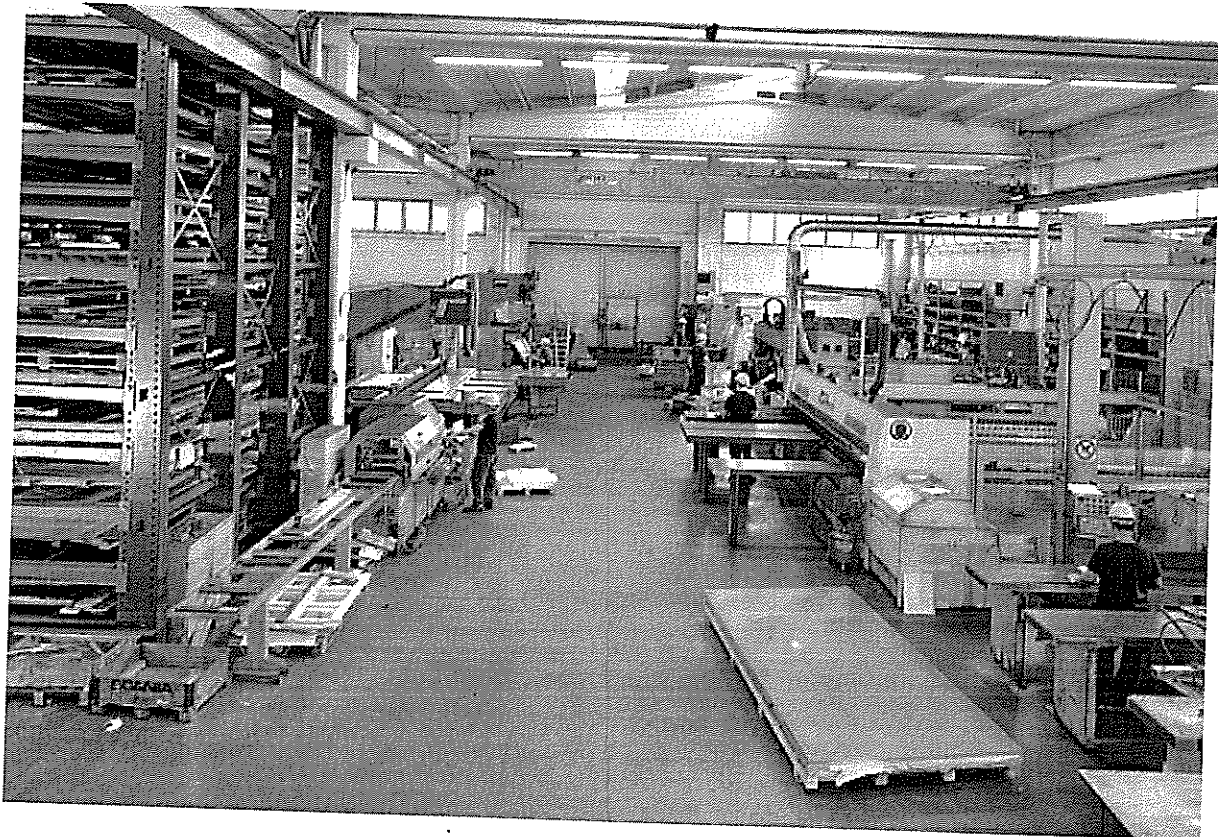
S.No	Date	Time	Hour
1	19/11/06	2.00-3.00p.m	1
2	19/11/07	10.00-12.00p.m	1
3	19/11/08	2.00-3.00p.m	1
4	19/11/11	10.00-12.00p.m	2
5	19/11/12	2.00-4.00p.m	2
6	19/11/13	10.00-12.00p.m	2
7	19/11/14	2.00-4.00p.m	2
8	19/11/15	10.00-12.00p.m	2
9	19/11/18	2.00-4.00p.m	1
10	19/11/19	10.00-12.00p.m	2
11	19/11/20	2.00-4.00p.m	2
12	19/11/21	10.00-12.00p.m	2
13	19/11/22	2.00-4.00p.m	2
14	19/11/25	10.00-12.00p.m	2
15	19/11/26	2.00-4.00p.m	2
16	19/11/27	10.00-12.00p.m	2
17	19/11/28	10.00-12.00p.m	2



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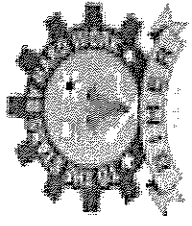
SCHOOL OF BASIC SCIENCES

Value Added Course: Plastic Working of Metallic Materials



Resource Person Details

Dr.L.Rajesh
Asst. Prof and Head,
Department of Physics,
Sri Sankara Arts & Science College,
Kanchipuram



BSRU

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

School of Basic Sciences

Certificate of participation

This is to certify that

Karunya G A

has participated in the Course on Plastic Working of Metallic Materials, conducted by the school of Basic Sciences, BIHER from June November 06, 2019 to November 28, 2019.

S. Anandhi

Dr.S. Anandhi

Course Co-ordinator

Dr. E. Thirumal

Dr. E. Thirumal

Convener

Dr. A. Muthukumar

Dr. A. Muthukumar

Dean- Arts & Science



Shaarath

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SCHOOL OF BASIC SCIENCES

Value Added Course

Plastic Working of Metallic Materials

Syllabus

Introduction to Plastic Working of Metals, Uniaxial Tension Test Analysis, Temperature effects in metal forming. Friction and Lubrication. Deformation zone + worked examples. Stresses at point &

Theory of Plasticity. Slab Analysis. Slip Line Field Theory

Upper Bound Theorem. Plasticity equations. Forging. Analysis of Forging. Forging Die Design consideration. Forging Load. Rolling of Metals. Analysis of Rolling.

Strain rate in the deformation zone, Rolling mills, Problem on rolling, Drawing of Rods, Wires and Tubes, Analysis of Wire Drawing, Wire Drawing: Tutorial Problems, Extrusion Process, Analysis of Extrusion.

Introduction- Sheet deformation process, Deformation of sheet in plane stress, Analysis of stamping, Instability in sheet metal forming, Deep drawing, Hydroforming



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SCHOOL OF BASIC SCIENCES

Registration Form

Value Added Course: Plastic Working of Metallic Materials

Date: 6.11.19

Name : Keerthika. P

Reg.No. : UAP25006

Date of Birth : 16/11/2000

Gender : Female

Department : physics

Year : 2019

Contact No. : 9445669307

Email ID : thijaguphysics@gmail.com

Course Applied For : plastic working of Metallic

Materials.


Signature



Shaheed

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SCHOOL OF BASIC SCIENCE

Course Feedback form

Value Added Course

Course Title: Plastic Working of Metallic Materials

Date: 28.11.2019

Name: Keerthika P

RegNo: V19PS006

Department: physics

S.No	Particulars	1	2	3	4	5
(1. Very Unsatisfied 2. Unsatisfied 3. Neutral 4. Satisfied 5. Very Satisfied)						
1.	Ojectives of the course clear to you					✓
2.	Course contents met with your expectations					✓
3.	Lecture sequence was well planned					✓
4.	Lectures were clear and easy to understand				✓	
5.	Teaching aids were effective				✓	
6.	Instructors encourage interaction and were helpful					✓
7.	The level of the course					✓
(1. Very poor 2. Poor 3. Average 4. Good 5. Excellent)						
8.	Overall rating of the course:	1	2	3	4	5

Please give Suggestion for the improvement of the course:


Signature