

GUDLAVALLERU ENGINEERING COLLEGE

Seshadri Rao Knowledge Village, GUDLAVALLERU
Department of Mechanical Engineering

Date: 18.08.2018.

CIRCULAR

All the faculty are here by informed that MEA is arranged a guest lecture on “**Heat Treatment of Steels**” by **Sri K.V Ratnam**, Superannuated Technical Officer (Gr.A, Gazetted), Indian Ordnance Factories on 24.08.2018 for third year mechanical students.

Venue: A/C Seminar Hall (N-216)

Time: 10:30 AM


H.M.E.

14



IE (I) STUDENT CHAPTER



In association with

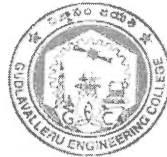
MECHANICAL ENGINEERING ASSOCIATION

Is Organising

**Guest Lecture on Heat Treatment of
Steels**

on

24th August 2018, 10.30 AM



**Department of Mechanical Engineering
Gudlavalleru Engineering College**

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village

GUDLAVALLERU - 521 356

Krishna Dist. A.P.

Programme Schedule

- ⇒ Welcoming Guests
- ⇒ Introduction to Speaker
- ⇒ Lecture on Heat Treatment of Steels
- ⇒ Vote of Thanks

Guest Speaker

Sri. K.V. Ratnam,
Superannuated Technical Officer (Gr.A,Gazetted),
Indian Ordnance Factories

Coordinators

Sri G. Karuna Kumar. *Asst. Prof,*
Sri.B. Ramesh Nayak. *Asst. Prof,*

Venue

ME Seminar Hall
(N – 216)

CURRICULAMVITAE



K.V. RATNAM

7-147 Main Road

NIDAMANURU

VIJAYAWADA (Rural) Pin: 521 104.

Phone no: 0866 2841150 , Mobile: 09441175150

Email ID: kondetiratnam@gmail.com

Aim : A superannuated technical officer (Gr.A, Gazetted) having put up 32 years of service in so called 4th Arm of Indian Armed forces "Indian Ordnance Factories Organization" Dept of defence production , min of Defence , Govt of India and 4 years in private sector involving tool making in tool room.

Through re-employment is not the need of the day in my case, normally what others do, but I would like to share my experience in the areas mentioned a head this CV, with the engineering students.

Employment : I. Indian Ordnance Factories

a) Heavy Vehicles Factory , Avadi, Chennai 1999-June 2010

b) Ordnance Factory Medak, Yeddu Mailaram H. rd. 1984-1999

c) Gun Carriage Factory, Jabalpur 1978-1984

II. Private Sector 1974-1978

Experience : Area: a) Design and drawing office, in House R & D, PROJECT OFFICE T-90 (IN THE CAPACITY OF DIV. OFFICER Gr.'A' Gazetted)

5 years , involving transfer of technology (TOT) in manufacturing in T-90 Main battle tanks, Russian collaboration in the areas of design document, process technology documents, tooling, Non std eqpt (NSE) TEST Rigs, GOST & OST standards , technical specification, trade articles, operating an instruction manuals. Importation of CKD, SKD and product support for indigenized production , and associated in conducting annual meeting of Indo-Russian Inter Governmental Commission on land systems" chaired by Dy. Defence Minister from Russian side and the secretary defence production from Indian side at different cities in India for smooth indigenization of T-90 Tanks production in India.

- Conducting product indigenization meeting with different agencies like DGQA,
- Army, PSUS & MoD.
- Conducting Alteration Committee meeting for product development with the above agencies.
- Looking after process and tool design, in house R & D activities, product design and drawing office.
- Running the section having 30 staff to its strength.

b) **FINAL ASSYMBLY (In the capacity of head of section Gr.C)**
 15 years , in final assembly of infantry combat vehicle (BMP.II) and main battle tank T-72) involving Hull suspension assembly mounting of systems like power pack , running gear, control linkage , fuel, pneumatic and electrical on to the hull, static checks. Parallel assembly of Turret which involves mounting of cradle with barrel, Gun control system, vision devices and target designation system and gun stabilizer. Integration of hull with turret and mounting of track air tight checks of total vehicle and post static check and making vehicle road worthy for running trials . Running the shop having 30 staff and 250 industrial employees to its strength fulfilling administrative, ISO, industrial safety and harmony obligations.

c) 2 years in tool room, looking after right from framing of specifications and procurement of plant and machinery for tool room which handles manufacture of all types of gauges, templates, jigs, fixture, press tools, thermo press tools from 10 T 4000 T. Running the shop having 35 staff and 150 industrial employees to its strength fulfilling administrative , ISO, industrial safety and harmony obligations.

d) Tool Planning office (in the capacity of Head of Section Gr.'C')
 10 years , in tool planning section looking after the entire factory tool requirement which involves design, manufactures, procurement and control of all kinds of metal cutting tools, Gauge and measuring instruments, jigs , fixtures , press tools, machines accessories and work holding devices and indirect consumables having 20 staff in its strength.

e) Tool room (in the capacity of supervisor
 4 years in manufacture of injection, compression, transfer and blow moulds for different components. Running the shop having 20 workers to its strength attending tool try outs and trouble shooting in production.

63
 72
 30
 69
 199

Education:

Academic: passed SSLC in first class 1968

Technical: passed in first class 1971
Diploma in mechanical Engineering

Additional :

Successfully completed 2 years course (later converted to post diploma) in plastics mould making from "Central Institute of Plastics Engg. and tools, a Govt. India undertaking, guindy , CHENNAI. A project under ILO and UNDP.

Personal:

Age : 66 years

D.o.B : 01-07-1950

Nationality : Indian

Married : 2 sons

1st son aged about 41 years with M.Sc (chemistry) Working as principal of Junior Corporate College for the past 5 years in Hyderabad. Married having 2 sons.

2nd son aged about 40 years with B.Sc & GNIIT working as project manager in M/S ford Technology India Ltd., Chennai Married having 2 sons.

Having good health condition.

HOBBIES:

Enjoying mutual trust , sincerity and honesty of an organization or institution. Disciplined and hard working and also having the same track record. Participating in Technical Discussions in the areas like production technology, production planning and control, work shop practice (metal cutting), classification of steels, heat treatment.

Lanuages known:

- English(speak, read and write fluently)
- Telugu(mother tongue),(speak, read and write fluently)
- Hindi (speak, read and write fluently)
- Tamil (speak and understand only)

PREAMBLE

This Faculty is having 40 years of experience in both Mechanical and Automobile Engineering. After retirement, worked for Navta Group of Industries as Principal of their ITI and Driving School. During this period, approximately 250 students from various Universities and Colleges have been interviewed for recruiting them as technical personnel including campus interviews also.

It is understood from the above interviews that there is a lot of gap between institution and the industry. To bridge this gap, it is determined to share the experience of this faculty with the engineering students. To be more precise, this faculty shall work in conjunction with placement departments in the colleges. In other words, placement departments shall not only search for the placement of the students shall also prepare the students for interviews in the domain. This faculty will deal with the following topics in the real terms of the industry being followed so that if an engineering student appears for an interview in the manufacturing sector, he can articulate something on the subject.

The topics are :

- Production Technology
- Production planning and control
- Workshop technology (machining)
- Metrology and Gauging
- Heat Treatment of steels
- Classification of Tools steels
- Limits, fits and tolerances
- Material management and stores
- Hand tools and tools used on the machines
- Cutting tools
- Jigs, Fixtures, Press Tools and Dies
- CNC basics
- Automobile engineering basics

GUDLAVALLERU ENGINEERING COLLEGE

Seshadri Rao Knowledge Village, GUDLAVALLERU

(Autonomous 2016-2017 Batch)

MECHANICAL ENGINEERING DEPARTMENT

Students Attendance Sheet For Guest Lecture on Heat Treatment of Steels

Date:24.08.2018

SNo.	H.T.NO.	Sign. of the candidate
1	16481A0301	A Arun Kumar
2	16481A0302	A Phani Raju
3	16481A0303	A. Anant Kumar
4	16481A0304	Absent
5	16481A0305	A. Anant Kumar
6	16481A0306	A. Ramesh
7	16481A0307	A. Trinadh.
8	16481A0308	A. Brahman
9	16481A0309	A. Anam Sunder
10	16481A0310	A. Venkatesh Babu
11	16481A0312	Raja. Nagendran
12	16481A0313	B. Vamsi
13	16481A0314	B. Vikram
14	16481A0315	B. Naga Vamsi
15	16481A0316	B. Chandu
16	16481A0318	B. Chandu
17	16481A0319	B. Rajesh
18	16481A0320	Ch. Nishath
19	16481A0321	Ch. Nishath
20	16481A0322	Ch. Nishath
21	16481A0323	Ch. Nishath
22	16481A0324	Ch. Nishath
23	16481A0325	Ch. Nishath
24	16481A0326	Ch. Nishath
25	16481A0327	Ch. Nishath
26	16481A0328	Ch. Nishath
27	16481A0329	Ch. Nishath
28	16481A0330	Ch. Nishath
29	16481A0331	Ch. Nishath
30	16481A0332	Ch. Nishath
31	16481A0333	Ch. Nishath
32	16481A0334	Ch. Nishath
33	16481A0337	Ch. Nishath
34	16481A0338	Ch. Nishath
35	16481A0340	Ch. Nishath
36	16481A0341	Ch. Nishath
37	16481A0342	Ch. Nishath
38	16481A0343	Ch. Nishath

SNo.	H.T.NO.	Sign. of the candidate
39	16481A0344	G. B. B. Babu
40	16481A0345	G. B. B. Babu
41	16481A0346	G. Mahesh
42	16481A0347	G. S. S. Prasad
43	16481A0348	G. G. G. G. G.
44	16481A0349	G. G. G. G. G.
45	16481A0350	G. G. G. G. G.
46	16481A0351	G. S. S. Prasad
47	16481A0352	G. G. G. G. G.
48	16481A0354	G. G. G. G. G.
49	16481A0355	G. G. G. G. G.
50	16481A0356	G. G. G. G. G.
51	16481A0357	I. Venkateshwararao
52	17485A0341	G. G. G. G. G.
53	17485A0342	T. S. S. S. S.
54	17485A0343	CH. Praneeth
55	17485A0344	Manoj
56	17485A0345	S. S. S. S. S.
57	17485A0346	S. S. S. S. S.
58	17485A0347	M. Chandu S. S. S.
59	17485A0348	K. Nithish Kumar
60	17485A0349	Ch. Teja
61	17485A0350	P. P. P. P. P.
62	17485A0351	P. P. P. P. P.
63	17485A0352	S. B. M. Krishna
64	17485A0353	N. S. S. S. S.
65	17485A0354	K. Hari Babu
66	17485A0355	P. Srinivas
67	17485A0356	Ch. Krishna
68	17485A0357	M. Shiva
69	15481A0340	G. V. Kishore

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MECHANICAL ENGINEERING DEPARTMENT

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SNo.	H.T.NO.	Sign. of the candidate
1	16481A0358	J. Anil kumar
2	16481A0359	J. sharan kumar
3	16481A0360	J. Hari Krishna
4	16481A0361	J. J. Suresh
5	16481A0362	J. J. Suresh
6	16481A0363	J. J. Suresh
7	16481A0364	K. Ravarack
8	16481A0365	J. Anil
9	16481A0366	K. Animesh
10	16481A0367	K. Abhinav
11	16481A0368	K. J. Ganesh
12	16481A0369	K. Sathish Kumar
13	16481A0370	K. Mahesh
14	16481A0371	K. Anil Kumar
15	16481A0372	K. Animesh
16	16481A0373	K. Hema
17	16481A0374	K. V. Suresh
18	16481A0375	K. Sathish
19	16481A0376	K. Naveen
20	16481A0377	K. Prabhu Paul
21	16481A0378	K. Naveen
22	16481A0379	K. Sathish
23	16481A0380	K. Varun
24	16481A0381	K. Animesh
25	16481A0382	K. Jayanth
26	16481A0383	K. Animesh
27	16481A0384	K. Chandu
28	16481A0385	M. Siva Sai
29	16481A0386	M. Vivek Chandra
30	16481A0387	M. V. N. Sai teja
31	16481A0388	M. Aravind
32	16481A0389	M. Laksh
33	16481A0390	M. Laksh
34	16481A0392	M. L. Hari Ravi
35	16481A0393	M. Sankara Rao
36	16481A0394	M. Ashok Kumar
37	16481A0395	M. Naga Jaya

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SNo.	H.T.NO.	Sign. of the candidate
38	16481A0396	M. Kasi Vignesh
39	16481A0397	M. Raju Kumar
40	16481A0398	M. Sharon
41	16481A0399	M. Subba Rao
42	16481A03A0	M. Harsha vardhan
43	16481A03A1	M. Raja vardhan
44	16481A03A2	M. H. N. SRI HARSHA
45	16481A03A3	M. Nitesh
46	16481A03A4	M. Abdul Wahid
47	16481A03A5	C. S. S. S.
48	16481A03A6	M. Suresh Babu
49	16481A03A7	Md Afzal
50	16481A03A8	M. Naveen
51	16481A03A9	M. Nagaraj
52	16481A03B0	M. Tanu
53	17485A0301	S.K. Maheen
54	17485A0302	R. Ajay
55	17485A0303	M. Yuga Sath
56	17485A0304	G. Anurag
57	17485A0305	P. Kamal
58	17485A0306	M. Madala Babu
59	17485A0307	Fauzan
60	17485A0308	Sri Sankar
61	17485A0309	Rajyan. YLSV
62	17485A0310	P. Raju
63	17485A0311	V. Shubh
64	17485A0312	M. Suresh
65	17485A0313	D. Dheeraj
66	17485A0314	A. Siddharth Reddy
67	17485A0315	M. Rajkumar
68	17485A0316	Sri Sankar Babu
69	17485A0317	T. Dhanu Babu
70	17485A0318	M. Gaurav
71	17485A0319	M. Suresh
72	15481A03B1	N. Sandeep

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MECHANICAL ENGINEERING DEPARTMENT**Students Attendance Sheet For Guest Lecture on Heat Treatment of Steels**

Date:24.08.2018

SNo.	H.T.NO.	Sign. of the candidate
1	16481A03B1	Naga Babu
2	16481A03B2	Lakshmi
3	16481A03B3	N. Parvathy
4	16481A03B4	Narash. NARA
5	16481A03B5	Chait
6	16481A03B6	N. V. G. H. S.
7	16481A03B7	N.S. Vis. Sai Krishna babu
8	16481A03B8	P. Sri Pavan
9	16481A03C0	P. Pureeth.
10	16481A03C1	P. N. D. Sandeep.
11	16481A03C2	P. Ragun. Kumar
12	16481A03C3	Kameshwarri
13	16481A03C4	P. Groutham
14	16481A03C5	P. Hari Suban
15	16481A03C6	P. Kavi Shankar
16	16481A03C7	A. Raj.
17	16481A03C8	P. Sri Teja
18	16481A03C9	P. Praveen
19	16481A03D0	P. Praveen
20	16481A03D1	P. Srikanth.
21	16481A03D2	P. Srikanth.
22	16481A03D3	S. N. S.
23	16481A03D4	S. V. Rambhadr
24	16481A03D5	S. Naresh.
25	16481A03D6	S. V. Praveen
26	16481A03D7	Sk. Sashidev
27	16481A03D8	Sk. M. Adib
28	16481A03D9	S. Vamsi
29	16481A03E0	S. Vamsi
30	16481A03E1	S. Srinivas
31	16481A03E2	S. Srinivas
32	16481A03E3	S. Srinivas
33	16481A03E4	S. Srinivas
34	16481A03E5	S. Srinivas
35	16481A03E7	T. Praveen Kumar
36	16481A03E8	T. Praveen Kumar

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Date:24.08.2018

SNo.	H.T.NO.	Sign. of the candidate
37	16481A03E9	T. Ayyappa
38	16481A03F0	T. Maheshi
39	16481A03F1	V. V. Babu
40	16481A03F2	Vasavi
41	16481A03F3	Thani
42	16481A03F4	V. Venkatesh
43	16481A03F5	V. Ajay
44	16481A03F6	V. Mohan
45	16481A03F7	Y. Pavuluri
46	16481A03F8	Y. Abhok Kumar
47	17485A0320	B. N. R. Ramareddy
48	17485A0321	M. Pavan Kumar
49	17485A0322	A. Balaji
50	17485A0323	M. Ramu Bahaman
51	17485A0324	Shobu
52	17485A0325	Sandeep
53	17485A0326	S. Norondra
54	17485A0327	T. Satish Babu
55	17485A0328	P. Muni Babu
56	17485A0329	A. Ravi Kumar
57	17485A0330	Gr. Gopi Babu
58	17485A0331	D. Ganesh
59	17485A0332	A. Rajendra
60	17485A0333	Prasanthi
61	17485A0334	M. Venkateswarlu
62	17485A0335	G. Bhayath Raj
63	17485A0336	M. Sathya
64	17485A0337	T. Naga chandru
65	17485A0338	G. Sai abhok
66	17485A0339	G. L. Prasad
67	15481A0331	Ch. Hemant
68	15481A0342	

✓

16 Q&A

PROGRAM REPORT

Name of the Program : Guest Lecture on “**Heat Treatment of Steels**”

Dates : 24.08.2018

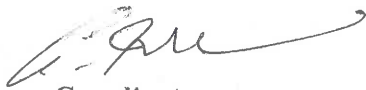
Details of the Resource Person : Sri. K.V. Ratnam, Superannuated Technical Officer
(Gr. A, Gazetted), Indian Ordinance Factories

Objective of the Program : To bring awareness on the heat treatment of steels

Outcome of the Program : Students are able to understand the need of heat treatment of steels.

No. of Participants : 208

Concluding Remarks : Speaker has explained the various heat treatments for steels in order to achieve the desired properties based on the application it is used for.


Coordinator


H.M.E.