

## Evaluative Report of the Departments

1. **Name of the department** : **Department of Mechanical Engineering**
2. **Year of Establishment** : **2008**
3. **Names of Programmes / Courses offered** (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG : B. Tech (ME)**
4. **Names of Interdisciplinary courses and the departments/units involved:**

Sl No.	Name of the Department	Subjects Covered
1	CSE,ECE,IT,CE	EME, Engg. Drawing, Mfg Practices
2	CE	Fluid Mechanics and Structural Analysis

5. **Annual/ semester/choice based credit system (programme wise)**

B.Tech	Semester
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6. **Participation of the department in the courses offered by other departments:**  
**Applied Sciences**

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**  
**NIL**

8. **Details of courses/programmes discontinued (if any) with reasons:** **NIL**

9. **Number of Teaching posts**

Designation	Sanctioned	Filled
Professors	4	4
Associate Professors	7	7
Asst. Professors	21	21

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

S.NO.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr.Akashdeep Singh	Ph. D	Prof.	Total Quality Management	7	
2	Dr. Bhupinderpal Singh	Ph.D	Prof.	Finite Element method ,	5	
3	Dr. Arvind Bhardwaj	Ph.D in Mechanical Engineering	Prof.	Production Engineering	26	
4	GS. Guglani	Post Graduate in Industrial	Asso. Prof.	Industrial Engineering	4	
5	Amandeep Singh	Ph.d	Asso. Prof	Production Engineeri	4	
6	DS Bhambra	Post Graduate in	Prof.	Production Engineering	3	
7	Dr. Pooja Mahajan	M.Sc, Ph.D	Associate Prof.	Solid Mechanics	4.5	
8	Mr .Charanjit Singh	M. Sc. (Maths).	Associate Prof.	Applied Mathematics	11	
9	Aman Soi	Post Graduate in	Asst. prof	Thermal Engineering	4	
10	Jatinder Bhalla	Post Graduate in	Asst. prof	Production Engineering	4	
11	Dr. Ravinder singh	M.Sc, Ph.D	Associate Prof.		9	
12	Amrinder	Post Graduate in	Asst. prof	Production Engineering		
13	Ravinder Singh	Post Graduate in	Asst. prof		2	
14	Prabhkiran kaur	Ph.D	Asso Prof.	Mechanical Engineering	----	
15	Parmod Malhotra	Post Graduate in	Asst. prof		---	
16	Satnam Singh	Post Graduate Production &	Asst. prof	Production Engineering	2	
17	Ms. Namita	MA	Assistant Prof.	Linguistics	12	
18	Gurvishal Singh	Post Graduate in	Asst. prof	Production Engineering	1	
19	Manbir Singh	Post Graduate in	Asst. prof	Production Engineering	2	
20	Bikramjit Singh	Post Graduate in	Asst. prof	Thermal Engineering	---	
21	Rajinderpal Singh	Post Graduate in	Asst. prof	Production Engineering	----	
22	Ms. Upma Vashisht	M.Sc. (Physics)	Assistant			

23	Vijay Bhanot	Post Graduate in	Asso. prof	Industrial Engineering	----	
24	Rahul Sharma	Post Graduate in Industrial	Asst. prof	----	5	
25	Jugraj Singh	Post Graduate in Production	Asst. prof	Mechanical Engineering	--	
26	Gagandeep Singh	Post Graduate in	Asst. prof	Mechanical Engineering	--	
27	Gurbir Singh	Post Graduate in	Asst. prof	Mechanical Engineering	1	
28	Col. Sudhir Behal	Post Graduate in Industrial	Asst. prof	Production Engineering	3	
29	Ms. Vishavjyoti	M.Sc. (Chem)	Assistant Prof		6	
30	Himanshu Tripathi	Post Graduate in	Asst. prof	Production Engineering	2	
31	Parminderjit Singh	Post Graduate in	Asst. prof	Thermal Engineering	---	
32	Ms. Pawandeep Kaur	M.Sc. (Chem), MBA (HRM)	Assistant Prof.		3	

11. List of senior visiting faculty : Please refer annexure to para 24

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : NIL

13. Student -Teacher Ratio (programme wise)

B.Tech in Mechanical Engineering	Student-Teacher Ratio
Total number of students = 314	1:12
Total number of teachers = 25	

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

S No.	Designation	Sanctioned	Available
1	Lab Instructors	13	11
2	Lab Attendant	5	5
3	DEO	1	1
4	Sewadars	3	3

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

No. of Faculties with Ph.D	04
No. of Faculties with M.Tech.	21

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16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : NIL

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : NIL

18. Research Centre /facility recognized by the University: NIL

19. Publications:

a) Publication per faculty : 5

Year- 2014-2015

a) Number of papers published in peer reviewed national journals : NIL  
b) Number of publications listed in International Journals : 09  
c) Papers in National conferences : 13  
d) Papers in international conferences : 04

Year- 2013-2014

a) Number of papers published in peer reviewed national journals : NIL  
b) Number of publications listed in International Journals : 10  
c) Papers in National conferences : 18  
d) Papers in international conferences : NIL

Year- 2013-2014

a) Number of papers published in peer reviewed national journals : 01  
b) Number of publications listed in International Journals : 05  
c) Papers in National conferences : 01  
d) Papers in international conferences : 08

**Please refer annexure : A**

20. Areas of consultancy and income generated : NIL

21. Faculty as members in

a) National committees  
No. of ISTE (International Society of Technical Education) : 17  
b) International Committees : Nil  
c) Editorial Boards : Nil

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/ programme ( Major Project in last year)

**2014- 68/68 = 100%**

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**2015-132/132 = 100%**

- b) Percentage of students placed for projects in organizations outside the institution  
i.e.in Research laboratories/Industry/ other agencies

**2014 – NIL**

**2015 – 08/132 = 6.06%**

**23. Awards / Recognitions received by faculty and students**

Please refer Annexure : B

**24. List of eminent academicians and scientists / visitors to the department**

As per Annexure : C

**25. Seminars/ Conferences/Workshops organized & the source of funding**

a) National

S.No.	Date	Topic	National/International	Funded by
1	May 25-29,2015	Sustainable Manufacturing and operations management	National	PTU

b) International

S.No.	Date	Topic	National/International	Funded by
1	June 26-28,2013	International conference on sustainable manufacturing and operation management	International	College

**26. Student profile programme/course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2011-2012	162	112	112	0	
2012-2013	120	110	108	2	
2013-2014	134	86	86	0	
2014-2015	125	84	84	0	

\*M = Male \*F = Female

**27. Diversity of Students**

Name of course	% of students from the same state	% of students from other states	% of students from abroad
2014-2015	80.78%	19.22%	0
2013-2014	87.63%	12.37%	0

2012-2013	92.9%	7.1%	0
2011-2012	92.5%	7.5%	0
2010-2011	98.53%	1.47%	0

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.**

**(a) GATE QUALIFIED STUDENT=1**

**(b) DEFENSE SERVICES =2**

**29. Student progression**

Student progression against enrollment %	2011-15	2010-14	2009-13	2008-12
UG to PG	Nil	nil	Nil	nil
Employed: Campus selection	26	13	0	Nil
Other than campus recruitment	Nil	12	38	35
Entrepreneurship/self-employment	nil	Nil	nil	Nil

**30. Details of Infrastructural facilities**

a) Library

Sr.No.	No of books in department library	No of journals of Department library	No of books in main library	No of journals in main library	No of books & journals in research centre
1	282	nil	Vol-2938, Title-589	6 national and international e-journal access by delnet	Nil

b) Internet facilities for Staff & Students : **64 Mbps**

c) Class rooms with ICT facility : Nil

d) Laboratories

Laboratory description in the curriculum	Exclusive Use/ Shared	Space/size.	Number of experiments	Quality of instruments	Laboratory manuals
<b>SOM</b>	Exclusive	113.4sqm/36	11	ASI SALES PVT LTD	Available
<b>ATD</b>	Exclusive	113.4sqm/36	12	J.P.SCIENTIC INSTRUMENT	Available

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<b>MMM</b>	Exclusive	80sqm/36	11	J.P.SCIENTIFIC INSTRUMENT	Available
<b>HT</b>	Exclusive	80Sqm/36	10	J.P.SCIENTIFIC INSTRUMENT	Available
<b>RAC</b>	Exclusive	79.46sqm/36	11	UPPAL	Available
<b>AE</b>	Exclusive	113.0sqm/36	09	J.P.SCIENTIFIC INSTRUMENT	Available
<b>IAR</b>	Exclusive	113.4sqm/36	07	NEELAM.ENGG	Available
<b>EMM</b>	Exclusive	113.0sqm/36	09	J.P.SCIENTIFIC INSTRUMENT	Available
<b>TOM</b>	Exclusive	113.4sqm/36	12	J.P.SCIENTIFIC INSTRUMENT	Available
<b>FM</b>	Exclusive	169.06sqm/36	12	J.P.SCIENTIFIC INSTRUMENT	Available
<b>MP Lab</b>	Exclusive	384sqm/36	17	ATLAS,GAIDU	Available
<b>M.Practise Lab</b>	Exclusive	571sqm/30	12	ATLAS,GAIDU, MILLIHARD.	Available
<b>CAD/CAM</b>	Exclusive	65.78sqm/36	13	HCL,HYTECH	Available
<b>C.G Lab</b>	Shared	65.78sqm/36	22	HCL	Available
<b>FM/C</b>	Exclusive	89.7sqm/36	12	K.C ENGINEERS PVT.LTD	Available
<b>M.V</b>	Exclusive	89.7sqm/36	12	K.C ENGINEERS PVT.LTD	Available

**31. Number of students receiving financial assistance from college, university, government or other agencies**

Sr.	Year	financial assistance agencies	Number Of student
1	2011-12	Government	2
		College (GIMET)	4
2	2012-13	Government	2
		College (GIMET)	3
3	2013-14	Government	9
		College (GIMET)	8
4	2014-15	Government	16
		College (GIMET)	6

**32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts : As per Annexure D**

**33. Teaching methods adopted to improve student learning**

- i. LCD overhead projectors
- ii. 4 Assignments per semester
- iii. Solution of assignment and rewriting by weak students
- iv. Solution of semester exam
- v. Revision of previous day lecture during first five minutes of teaching
- vi. Interaction with students during the classroom teach

Guest lectures by other department and eminent guests from premier institutions

- viii. NPTEL video films
- ix. Industrial visits and tours
- x. Models, charts and PPTs

#### **34. Participation in Institutional Social Responsibility (ISR) and Extension activities**

- a) Blood donation camp
- b) Voter ID Enrolment
- c) Tree Plantation
- d) Swachh Bharat Abhiyan

#### **35. SWOC analysis of the department and Future plans**

##### **Strengths**

- MOU signed with more than 3 Industries
- Development of centre of Excellence in the department
- Availability of qualified and experienced staff
- Setting up of R & D Lab in the department
- Continuous progress monitoring of each student
- Monitoring of class notes and assignments
- Feedback from the students
- Interaction with parents of weak students
- Special rewards to faculty achieving the good result
- Well equipped Labs and latest software systems available

##### **Weakness**

- Low IQ of the student
- (b) Minimum bench mark not defined at the time of admission
- (c) Low education standard at 10th & 12th level.
- (d) No counseling by parents and teachers for their future career
- (e) Communication skill very poor
- (f) Low motivation due to non availability of jobs
- (g) Lack of involvement by parents & teachers

##### **Opportunities**

- expansion of automobile sector in a very big manner
- expansion of aviation sector
- computerization of all manufacturing industries(CAD/CAM)
- expansion of infrastructure
- Expansion & modernization of defense and paramilitary forces
- Creating of jobs due to government policy e.g. FDI's etc

##### **Challenges**

- Survival of fittest
- Surplus availability of manpower
- Ratio of jobs availability to the students passing out is very low
- Practical job experience is not available with the students passing out.
- Confidence level of workers is very low
- Communication level is very low
- Not exposed to the latest technology
- Teaching standard is very poor



## Future Plans

- Raising the standard of students
- Induction of quality and experienced staff
- Deciding the minimum percentage on qualifying exams at the time of admission
- Liasion with schools to ensure better standard of education
- Industrial tours outside the state
- Conducting workshops and seminars at state, national and international level

Annexure A (Refer Para 19)

### National and International Conferences

1	Amrinder Singh	International Conference	To Study The Parameter Influence On Bead Geometry Deposited By Mag Welding Process Using Aisi 1018 Steel	International Conference On Sustainable Manufacturing & Operations Management	June 26-28, 2013
2	Dr. Arvind Bhardwaj	International Conference	Theory Of Constraints Based Approach To Marketing Management	International Conference On Sustainable Manufacturing & Operations Management	June 26-28, 2013
3	Dr. Arvind Bhardwaj	International Conference	Gscm Performance Indicators In Agro Industry And Its Ranking In Indian Perspective	International Conference On Sustainable Manufacturing & Operations Management	June 26-28, 2013
4	Dr. Arvind Bhardwaj	International Conference	Determination Of Optimal Location For Dominant Constraint In Multi-Constraint Scenario	International Conference On Sustainable Manufacturing & Operations Management	June 26-28, 2013
5	Dr. Arvind Bhardwaj	International Conference	Achieving Manufacturing Performance Excellence With The Implementation Of TPM: An Exploratory Study On Indian Industry	International Conference On Sustainable Manufacturing & Operations Management	June 26-28, 2013
6	Jatinder	International	To Study The Parameter Influence	International	June 26-

	Bhalla	Conference	On Bead Geometry Deposited By Mag Welding Process Using Aisi 1018 Steel	Conference On Sustainable Manufacturing & Operations Management	28, 2013
7	Parminderjit Singh	International Conference	To Study The Parameter Influence On Bead Geometry Deposited By Mag Welding Process Using Aisi 1018 Steel	International Conference On Sustainable Manufacturing & Operations Management	June 26-28, 2013
8	Dr. Akashdeep Singh	National Conference	Advanced Teaching Techniques And Modern Equipment For Effective Learning	National Conference On Contours Of Commerce Education In India Held At Maharshi Dayanand University, Rohtak	May-13
9	Dr. Akashdeep Singh	International Conference	Review Of Literature On Microeconomic Determinants Of Equity Share Prices	International Conference On Sustainable Manufacturing & Operations Management	June 26-28, 2013

#### 2012-2013 Faculty Publication in Journal

Sr. No.	Name	International/ National Journal	Name of Journal	Volume, Issue & Date	Paper Title
1	Aman Soi	International Journal	"International Journal of Advanced Engineering Technology Journal of Engineering Research and Studies (IJAET)"	Vol.1/ Issue-III / 339-346	"Effect of roughness element pitch on h
2	Himanshu Tripathi	International Journal	International Journal of advanced Engineering Technology	Issue I, Vol IV March 2013 .pp.54-57.	transfer and friction characteristics o
3	Gurvishal Singh	International Journal	International journal of mechanical engineering and robotics research	year (2013)	artificially roughened solar air heater du
4	Simarpreet Singh	International Journal	IJERA	.Vol.2 (6), 1177-1179	Analysis of change in mechanical properti

					low alloy steel (similar to AISI 8740) friction welded with inconel (austenite nickel-chromium based super alloy) after heat treatment
5	Dr. Akashdeep Singh	National Journal	Global Management Horizon	Vol.1, Issue-II, ISSN 2249-6211	Investigating the effect of wear rates on MSJ by thermal spray coating
6	Vjay Bhanot	International Journal	International Journal of Engineering Research and technology	ISSN:2278-0181	Pre-determination of Fouling and Cleaning Factor of the Heat Exchanger

### 2013-2014 Faculty Publication Details in Conference

Sr. No.	Name	International/ National conference name	Paper Title	Conference	
1	Aman Soi	National Conference	A Study of Roughness Elements on Heat Transfer and Friction Characteristics of Artificially Roughened Solar Air Heater Duct	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
2	Sahil Salwan	National Conference	A review on advantages of using Roller Burnishing over other Burnishing Techniques	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
3	Sahil Salwan	National Conference	Exergy analysis on natural resources and its consumption rate:- A Review	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
4	Manbir Singh	National Conference	A review on electric discharge machining	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
5	Amrinder Singh	National Conference	Analysis of bead geometry with and without filler rod TIG welding	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe

6	Prof. Dalbir Singh Bhambra	National Conference	A Study of Roughness Elements on Heat Transfer and Friction Characteristics of Artificially Roughened Solar Air Heater Duct	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
7	Parminderjit Singh	National Conference	Experimental study of friction stir welding of Aluminium AA6061-T6 and AA1100	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
8	Parminderjit Singh	National Conference	To study the effect of post weld heat treatment on microstructure properties os stainless steel	National conference on Recent trends in Mechanical Engineering at BCET Gurdaspur	21-2
9	Ravinder Singh	National Conference	Use Alumina slag as a strengthner for improving the properties of Aluminium	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
10	Rajiv Bhatia	National Conference	A reviewon advantages of using Roller Burnishing over other Burnishing Techniques	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
11	Bikramjit Singh	National Conference	Analysis of bead geometry with and without filler rod TIG welding	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
12	Jugraj Singh	National Conference	A noval approach for improving the characteristics of aluminium by using waster generated during alumina extraction as a reinforcement material	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
13	Jugraj Singh	National Conference	Experimental study of friction stir welding of Aluminium AA6061-T6 and AA1100	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
14	Bikramjit Singh	National Conference	Use Alumina slag as a strengthner for improving the properties of Aluminium	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
15	Jatinder Bhalla	National Conference	Analysis of bead geometry with and without filler rod TIG welding	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe

16	Amrinder Singh	National Conference	Experimental study of friction stir welding of Aluminium AA6061-T6 and AA1100	National Workshop cum Conference on 'Inter - Disciplinary on Areas of Engineering technology Industry and Management'	Septe
17	Amrinder Singh	National Conference	Comparative study of friction welding with gas tungsten arc welding of aluminum	National conference on Recent trends in Mechanical Engineering at BCET Gurdaspur	21-2
18	Dr. Akashdeep Singh	National Conference	Role of E-Commerce for Growth of India	66th All India Commerce conference of the india commerce association held at Department of Commerce, Bangalore University.	Dec

### 2013-2014 Faculty Publication in Journal

Sr. No.	Name	International/ National Journal	Name of Journal	Volume, Issue & Date	Paper Title
1	Atish Kumar	International Journal	International Journal of Emerging Technology and Advanced Engineering	Vol.4/Issue 4/April 25,2014	State of The Art of Carbondioxide Laser Beam Machining
2	Gurvishal Singh	International Journal	International Journal of Mechanical Engineering and Robotics Research	Vol. 2/No.3/July, 2013	Effect on properties of aluminium by adding alumina slag as a strengthener
3	Himanshu Tripathi	International Journal	International Journal of Scientific & Engineering Research	Volume 4, Issue 8, August 2013, pp.238-242	Experimental Investigation of Burnishing process on Brass by Taguchi approach
4	Bikramjit Singh	International Journal	International Journal of Mechanical Engineering and Robotics Research	Vol. 2/No.3/July, 2013	Effect on properties of aluminium by adding alumina slag as a strengthener
5	Dr. Arvind Bhardwaj	International Journal	International Journal of Engineering and Technical Research	Volume-2, Issue-3, March 2014	Importance of Training and Data management Issues in implementing

					Reliability Centered Maintenance (RCM)
6	Simarpreet Singh	International Journal	IJMIE	2013, 3(1), 2231	“Life Prediction” for the heat exchanger
7	Parminderjeet Singh	International Journal	International Journal of Mechanical Engineering and Robotics Research	Vol. 2/No.3/July, 2013	Effect on properties of aluminium by adding alumina slag as a strengthener
8	Dr. Akashdeep Singh	International Journal	Management Vistas	Vol.3, July-Dec. 2013	Applying TQM to Management Education on Indian Perspective
9	Vjay Bhanot	International Journal	International Journal of Mechanical Engineering and Robotics Research	ISSN:2278-0149	Research work on fiber glass wool reinforced and Epoxy Matrix Composite Material
10	Prabhkiran kaur	International Journal	International Journal of Advanced Manufacturing Technology	ISSN:0268-3768, page No. 415-420	Effect of Electromagnetic stirring and rare earth compounds on the microstructure and mechanical properties of hypereutectic Al-Si alloys,

#### 2014-2015 Faculty Publication in Conference

Sr. No.	Name	International / National conference	Paper Title	Conference Name	Year
1	Ravinder Singh	National conference	Experimental investigation to study the effect of the coating thickness on cutting tool performance	National Conference on Inter-Disciplinary Research in Engineering, Technology and Management	17-18 Dec, 2014

2	Aman soi	National conference	To study the methods for enhancing heat transfer rate from a flat hot surface to the flowing air stream under forced conditions	National Conference on Inter-Disciplinary Research in Engineering, Technology and Management	17-18 <sup>th</sup> Dec.2014
3	Bikramjit Singh	National conference	Optimization of process parameters in Electrical Discharge Machining with H11 tool steel using response surface methodology	National Conference on Inter-Disciplinary Research in Engineering, Technology and Management	17-18 <sup>th</sup> Dec.2014
4	Himanshu Tripathi	National	Comparative Study of cylindrical grinding and roller burnishing on C40E Steel.	Recent Trends in Mechanical Engg. (RTME-2015)	20-21 March,2015
5	Ravinder Singh	National conference	Study of Change In Cutting Force Due to Monolayer and Multilayer Coating on cutting Tool Inserts in Turning	Recent Trends in Mechanical Engg. (RTME-2015)	20-21 March,2015
6	Parminderjit Singh	National conference	To study the effect of post weld heat treatment on mechanical Properties of GTAW welded Austenitic Stainless Steel	Recent Trends in Mechanical Engg. (RTME-2015)	20-21 March,2015
7	Amrinder Singh	National conference	To study the effect of Friction welding parameters on the mechanical properties of Aluminium 6063-T6	Recent Trends in Mechanical Engg. (RTME-2015)	20-21 March,2015
8	Jatinder Bhalla	National conference	To study the effect of solid lubricants on performance parameters of AISI 1040 Steel while turning	Recent Trends in Mechanical Engg. (RTME-2015)	20-21 March,2015
9	Atish Kumar	National conference	Ageing of Ni based super alloys for the improvement of mechanical and physical properties	Recent Trends in Mechanical Engg. (RTME-2015)	20-21 March,2015
10	Rahul Sharma	International conference	Effect of cryogenic treatment on machining performance of tungsten carbide: abibliographic review	International multi track conference on sciences, engineering and Technical innovations	Vol.2 , Issue.1, 22-23 may, 2015

11	Gurvishal Singh	National conference	To study the methods for enhancing heat transfer rate from a flat hot surface to the flowing air stream under forced conditions	National Conference on Inter-Disciplinary Research in Engineering, Technology and Management	17-18 <sup>th</sup> Dec.2014
12	Parmod Malhotra	National conference	Optimization of process parameters in Electrical Discharge Machining with H11 tool steel using response surface methodology	National Conference on Inter-Disciplinary Research in Engineering, Technology and Management	17-18 <sup>th</sup> Dec.2014
13	Parmod Malhotra	National conference	experimental study of effects of annealing process on mahinabilty and toollife of drill bit for 20MNCR5 steel	National Conference on Inter-Disciplinary Research in Engineering, Technology and Management	17-18 <sup>th</sup> Dec.2014
14	Parminderjit Singh	National conference	Experimental investigation to study the effect of the coating thickness on cutting tool performance	National Conference on Inter-Disciplinary Research in Engineering, Technology and Management	17-18 Dec, 2014
15	Vjay Bhanot	International conference	Effect of cryogenic treatment on machining performance of tungsten carbide: abibliographic review	International multi track conference on sciences, engineering and Technical innovations	Vol.2 , Issue.1, 22-23 may, 2015
16	Vjay Bhanot	International conference	Machinability assesment of superni-800 during edm with powder metallurgy electrodes	International conference AIMTDR-2014 at IIT, Guwahati	Dec-14
17	Amandeep Singh	International conference	Two Step Facility Layout Optimization of an Indian Bus Body Manufacturing Plant Using Artificial Bee Colony Algorithm and its Variants.	IEEE International Conference on Industrial Engineering and Operations Management (IEOM),	pp 1-8, 3-5 March 2015.

### 2014-2015 Faculty Publication in Journal

Sr. No.	Name	International/National Journal	Name of Journal	Volume, Issue & Date	Paper Title



1	Gurbir Singh	International Journal	Journal of civil engineering and environmental technology	Vol. 1, pp. 66-70	Computational Fluid Dynamics Analysis of shell and tube heat exchanger
2	Aman soi	International Journal	International Journal of Advance Research in Science and Engineering (IJARSE)	Vol.04/S.I.(01)1700-1709	CFD based performance investigation of solar air heater having roughness elements as a combination of transverse & V-up ribs on the absorber plate
3	Himanshu Tripathi	International Journal	International Journal of Engineering Research and Application	Vol.5, Issue.1, Jan 2015	Optimization of cylindrical grinding process parameters on C40 E Steel using Taguchi Technique
4	Manbir Singh	International Journal	International journal for science and emerging technology with latest trends	volume 20, issue 1	Multi Response Optimization of Parameters in Electric Discharge Machining of Al/SiC-Graphite Hybrid Composite using Grey Relational Analysis
5	Jugraj Singh	International Journal	International Journal of Productivity and Quality Management		5S implementation methodologies : Literature Review and Directions
6	Dr. Arvind Bhardwaj	International Journal	International Journal of Industrial and Systems Engineering	2014, Vol. 16, No. 4, pp.433-450	An interpretive structural modelling approach for analyzing barriers in total productive maintenance implementation
7	Simarpreet Singh	International Journal	Int. Journal of Engineering Research and Applications	2014, 4 (4), 127-131	Performance Investigation of Plate Type Heat Exchanger (A Case Study)
8	Prabhkiran kaur	International Journal	Bonfring International Journal of Industrial Engineering and Management Science	August 2014, Vol.4. No.3, page No. 121-124	Improvement in wear properties of a Hypereutectic Aluminium Silicon Alloy with Manganese
9	Amandeep Singh	International Journal	Procedia CIRP	vol. 29, pp 257-262, 2015.	Quantifying green manufacturability of a unit production process using Simulation

## Annexure B (Please refer para 23)

YEAR	STUDENTS NAME	PLACE/EVENT	REMARKS
2014	Ravi Thukral	C.T Group Of Colleges	Best All Rounder Student Of Year
2014	Ravi Thukral	Rayat & Bahara Engg. College	Best Student Of The Year ( North Region)
2013	Akkshit Kumar	Street Play (Rayat & Bahara University,Ropar)	1 <sup>st</sup> Prize
2014	Akkshit Kumar	Tattoo Making At Adesh Institute Faridkot	1 <sup>st</sup> Prize
2014	Akkshit Kumar	Face Painting At Adesh Institute Faridkot	3 <sup>rd</sup> Prize
2014	Akkshit Kumar	Choreography At Nit Jalandhar	Best Theme
2014	Akkshit Kumar	Thomso Fest 14,Iit Roorkee	2 <sup>nd</sup> Prize In Mime
2013	Amritpal Singh Bal	Ptu Inter-College Basketball Championship	1 <sup>st</sup> Prize
2013	Vikramjeet Singh	Ptu Inter-College Basketball Championship	1 <sup>st</sup> Prize
2013	Gurlal Singh	Bhangra At Rayat & Bahara Engg. College	3 <sup>rd</sup> Prize
2014	Moied Guttoo	Quiz At Adesh Institute Faridkot	2 <sup>nd</sup> Prize
2014	Akkshit Kumar	Thomso Got Talent, IIT Roorkee	2 <sup>nd</sup> Prize
2014	Varun Bansal	Thomso Got Talent ,IIT Roorkee	2 <sup>nd</sup> Prize
2015	Akkshit Kumar	Razzmatazz, NIT Jalandhar	2 <sup>nd</sup> Prize
2015	Anuj Mehra	Movie Making , NIT Jalandhar	2 <sup>nd</sup> Prize
2014	Jagraj Singh,Ranjodh Singh,Gurpreet Singh	Inno-Tech-2014	Ist Price
2014	Sagar Sharma ,Mandeep singh Yogesh, Rajbir, Jajraj Singh	Inno-Tech-2014	2 <sup>nd</sup> Prize
2013	Rajan Bali	Youth Vibe At Lpu	3 <sup>rd</sup> Prize
2013	Gurlal Singh	Bhangra At Sai College	2 <sup>nd</sup> Prize
2014	Nikesh Kumar	Bhangra At Rayat & Bahara Engg. College	1 <sup>st</sup> Prize
2013	Nikesh Kumar	Bhangra At Nit Jalandhar	1 <sup>st</sup> Prize
2013	Lovepreet Singh	Bhangra At Rayat & Bahara Engg. College	3 <sup>rd</sup> Prize

S.NO	STUDENT NAME	EVENT/PLACE	REMARKS
2013	AKKSHIT KUMAR	BADMINTON, INTER-DEPT. SPORTS MEET-13	2 <sup>ND</sup> PRIZE
2014	AKKSHIT KUMAR	CHOREOGRAPHY AT UDAAN FEST 14	1 <sup>ST</sup> PRIZE
2014	AKKSHIT KUMAR	GROUP DISCUSION AT UDAAN FEST 14	2 <sup>ND</sup> PRIZE
2014	AKKSHIT KUMAR	ADMAD AT UDAAN FEST 14	2 <sup>ND</sup> PRIZE
2014	AKKSHIT KUMAR	BADMINTON, INTER-DEPT. SPORTS MEET-14	2 <sup>ND</sup> PRIZE
2014	ARSHDEEP SINGH	MOBILE TYPING AT UDAAN FEST 14	1 <sup>ST</sup> PRIZE
2013	AMRITPAL SINGH BAL	BASKETBALL, INTER-DEPT. SPORTS MEET-13	3 <sup>RD</sup> PRIZE
2014	AMRITPAL SINGH BAL, ARSHDEEP SINGH, BARJINDER SINGH ,BHUPINDER SINGH, GURJANT SINGH, HARJINDER SINGH, GURUNAAM SINGH	FOOTBALL AT INTER-DEPT. SPORTS MEET-14	1 <sup>ST</sup> PRIZE
2014	AMRITPAL SINGH BAL, ARSHDEEP SINGH, BARJINDER SINGH ,BHUPINDER SINGH, BALDEEP SINGH, BACHITAR SINGH, PRATEEK SHARMA, ANUJ SAINI	VOLLEYBALL AT INTER-DEPT. SPORTS MEET-14	2 <sup>ND</sup> PRIZE
2014	AMRITPAL SINGH BAL, ARSHDEEP SINGH, BARJINDER SINGH, GURNAIN SINGH, NOBALDEEP SINGH , BHUPINDER SINGH, BHARAT GULATI	BASKETBALL AT INTER-DEPT. SPORTS MEET-14	2 <sup>ND</sup> PRIZE
2014	AKSHAY GAUTAM	GPL	1 <sup>ST</sup> PRIZE
2014	JATINDER KUMAR	GPL	1 <sup>ST</sup> PRIZE
2011 (DEC, 7 <sup>TH</sup> SEM )	SUMIT RANA	Class Topper	Got a price of 2000/-
2012 (APR, 4 <sup>TH</sup> SEM)	ABHISHEK SACHDEVA	Class Topper	Got a price of 2000/-
2012	AMROJPREET SINGH	Class Topper	Got a price of 2000/- <sup>97</sup>

(DEC,1 <sup>ST</sup> SEM)			
2013 (MAY,3 <sup>RD</sup> SEM)	GURSHERBIR SINGH	Class Topper	Got a price of 2000/-
2012 (DEC,5 <sup>TH</sup> SEM)	ABHISHEK SACHDEVA	Class Topper	Got a price of 2000/-
2013 (MAY,2 <sup>ND</sup> SEM)	AMROJPREET SINGH	Class Topper	Got a price of 2000/-
2013 (MAY,6 <sup>TH</sup> SEM)	AJAYPAL SINGH	Class Topper	Got a price of 2000/-
2013 (MAY,8 <sup>TH</sup> SEM)	ABHINAV SHARMA	Class Topper	Got a price of 2000/-
2014	Akshay Gautam	Group Discussion	1st position
2015	Saif Rafiq, Moied Guttoo	Quiz Competition	1st position
2015	Rahul Kumar, Kulpreet Singh and Vivek Sharma	Quiz Competition	second position
2015	Anuj Mehra	Photography Event	1st position
2015	Varun	Group Discussion Competition	1st position
2015	Gurpreet Singh , Harjot Singh	Go Auto Expo ( Udaan 2015)	1st position

**LIST OF STUDENTS WHO HAVE PARTICIPATED IN INTER-INSTITUTE EVENTS**

S. No	Name	Roll No	Class	Event Name/Place
1.	Nikesh Kumar	1144063	ME 4 <sup>th</sup> Year	Bhangra, Youth Fest
2.	Sangeet Singh	1410258	ME	Singing, , Youth Fest
3.	Gurlal Singh	1243308	ME 3 <sup>RD</sup> YEAR	Bhangra, Youth Fest
4.	Ravi Thukral	1283892	ME	Autocad Scinetilla 2015)

5.	Akkshit	1243280	ME 3 <sup>RD</sup> YEAR	Thomso 2014 (IIT Roorke)
6.	Akkshit	1243280	ME 3 <sup>RD</sup> YEAR	Jam And Face Painting , Cultural Fest PCTE Ludhiana

Annexure C (Refer para 24)

S.No.	Resource Person	Designation	Name of Organization	Date	Topic
1	Mr. Jaichand Verma	Sr. Manager(HR)	Hero Cycles, Ludhiana	18/Aug/2013	Effective Role of HR in the productivity of an organization
2	Mr. R B Madhekar	Sr. Advisor	Maruti Suzuki India Ltd	2/Apr/2014	Importance of Quality assurance in automobile industry
3	Mr Tarun Bhambra	Consultant	Mc Kinsey & Company	8/March/2014	Building Your Career
4	Mr. Vinayak Shankar Gogate	Asst. General Manager	TATA Motors	10/Oct/2014	Crash Safety Measures
5	Mr. Mukul Sharma	Head, Business Transformation	Tata Consultancy Services, USA	19/Dec/2014	EXPERT LECTURE ON "TECHNOLOGY ENABLED BUSINESS TRANSFORMATION"
6	Dr.Harwinder Singh	Eminent Scholar	GNDEC, Ludhiana	16th sept 2011	Guest lecture on various models of operational research
7	Dr Mayur Sutaria	Co-investigator	IIT, Bombay	20th Feb 2012	Seminar on E-Foundry
8	Dr. Shailendra Singh	Asst.Professor	NIT Jalandhar.	27th Feb 2012	Guest lecture on fracture mechanics for mechanical engineers and researchers
9	Prof. Uday Shankar	Professor	IIT Guwahati	16Aug12	Guest lecture on Green Manufacturing
10	Mr. Ranjan Vashisht	Formerly Deputy GM	Maruti Udyog Ltd	22nd Aug 2012	Seminar on motivation, communication, Japanese Culture and Lean Sigma techniques of Management
11	Dr. Knut Sorby	Professor	Department of Production and Quality Systems, Norwegian University of	28 March 2013.	Expert talk on "Double Tuned Mass Damper for Long Boring Bars"

			Science & Technology		
12	Mr. Yogesh Kalia	Manager	Medhaavi Automobile Industrial and Research Centre, Hoshiarpur	3th Feb 2013	Seminar on latest Automotive Technologies
13	Mr. Dharmendra	Manager	Technical Marketing Support from CADD Centre of Chennai	13th Sep 2013.	Guest lecture on CAD/CAM
14	Dr B M Arora	Professor	IIT Mumbai	17th oct 2013	Expert talk on "Efficient Solar Energy Devices
15	Er. Tejinder Singh Aulakh	Sr. Mechanical Design Engineer	Intel USA	21Jan2014	Guest Lecture on Career of Mechanical Engineering Students in India and Abroad
16	Dr. R.K. Awasthi	Dean Research & Development	BCET,GSP	20TH FEB 2014	Guest lecture on Hybrid fluid flow journals bearing
17	Dr. O.P. Singh	Professor	BCET,GURD ASPUR	05th Sep 2014	Guest lecture on recent trends in optimization techniques
18	Mr. Anurag Byala	Managing Director	Techie's Engineers	19th March 2015	Guest lecture on The Sorry State of Indian Engineers
19	PPS Sandhu	Gp Capt (Retd)	Chandigarh	16th Feb 2015	Guest lecture on process management expenses

Annexure D (Refer para 32)

**For Guest lectures** refer annexure C to para 24

**WORKSHOP**

S No	Organised By	Event	Date	Attended By
1	Er . Aman Soi	WORKSHOP ON MECHATRONICS AND ROBOTICS	02/04/2015	2nd , 3rd year students of Mechanical Engineering department and the faculty members
2	Er . Jugraj Singh	WORKSHOP ON MODERN TECHNOLOGIES ADOPTED IN AUTOMOBILE INDUSTRIES	07/03/2013	Students of B.Tech and inter department faculty

3	Er. Jatinder Bhalla	NATIONAL WORKSHOP CUM CONFERENCE	6-18/09/2013	MORE THAN 100 SCHOLARS FROM DIFFERENT UNIVERSITIES AND COLLEGES
4	Wg. Cdr. D S Bhambra, Aman Soi	NATIONAL CONFERENCE ON INTER- DISCIPLINARY RESEARCH IN ENGINEERING TECHNOLOGY & MANAGEMENT IDETM-2014.	17 & 18 DECEMBER 2014	MORE THAN 50 SCHOLARS FROM DIFFERENT UNIVERSITIES AND COLLEGES
5	Er . Jatinder Bhalla , Jugraj Singh	INTERNATIONAL CONFERENCE ON SUSTAINABLE MANUFACTURING AND OPERATIONS MANAGEMENT ISOM-2013	JUNE 26-28, 2013	MORE THAN 50 SCHOLARS FROM DIFFERENT UNIVERSITIES AND COLLEGES
6	Er. Vijay Bhanot , Jagandeep Singh	FDP ON "SUSTAINABLE MANUFACTURING AND OPERATIONS MANAGEMENT"	25-29 may 2015	MORE THAN 50 PARTICIPANTS FROM DIFFERENT ENGINEERING COLLEGES HAVE PARTICIPATED IN THIS FDP