

FEEDBACK ANALYSIS REPORT OF STAKEHOLDERS (2021-22)

Department of Mechanical Engineering, C S Patel Institute of Technology - CHARUSAT

CURRICULUM FEEDBACK ANALYSIS (Students) Academic Year: 2021-22

Scale - Highly Adequate: 5, Adequate: 4, Neutral: 3, Inadequate: 2, Highly Inadequate: 1

Sr. No.	Aspect	Highly Adequate (A)	Adequate (B)	Neutral (C)	Inadequate (D)	Highly Inadequate (E)	Average	% Response
1	The content of the syllabus (whether adequate enough to meet the learning objectives listed)	142	73	22	3	3	4	89
2	The time allocated for completing the syllabus	130	72	33	5	3	4	86
3	The practical components included in the curriculum (if applicable)	131	76	27	5	4	4	87
4	The references listed in the curriculum	135	64	23	4	3	4	83

Average = (A*5 + B*4 + C*3 + D*2 + E*1)/Total no. of responses,

Total No. of Responses: 243 % Response = (Average*100)/5

Other Comments/Suggestions:

- More industrial exposure needed.
- Pneumatic and hydraulic course should be offer separately in 6th sem.
- Control engineering subject should be offered in 7th sem. or 6th sem. rather than in final semester.
- Industrial engineering and management should be taught with operations research.
- The weightage of hours for practical learning should be more than classroom-based learning.
- Include various electives that will help students in further education in one of those subjects as foreign universities looks for credit scores for relevant subjects.



HEAD OF DEPARTMENT Dept. of Mechanical Engg. Chandubhai S. Patel Institute of Technology At. & Po. Changa-388421., Ta. Petlad, Dist. : Anand. (Gujarat)

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Department of Mechanical Engineering, C S Patel Institute of Technology - CHARUSAT

Sr.	or the second se	1						
No.	Aspect	Excellent (A)	Very Good (B)	Good (C)	Satisfactory (D)	Poor (E)	Average	% Response
1	concepts, knowledge, analytical abilities, or broadening perspectives)	38	8	1	-	-	4.8	95.7
2	Curriculum Applicability/relevance to real life situations	31	10	6				
3	Depth of the course content		10	0	-	-	4.5	90.6
4	Extent of coverage of course	33	11	3	-	-	4.6	92.8
5		52	13	2	-	-	4.6	92.8
	Sarriedium Relevance/learning value of project/ report	35	11	-	1	-	4.7	94.0

<u>Scale – Excellent: 5, Very Good: 4, Good: 3, Satisfactory: 2, Poor: 1</u>

Total No. of Responses: 47

Average = (A*5 + B*4 + C*3 + D*2 + E*1)/Total no. of responses

% Response = (Average*100)/5

Other Comments/Suggestions:

- As is always true with any engineering domain push should always be given to practical implementations along with integration of multiple disciplines.
- 2. Kindly add full semester project

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Sr. No.	Aspect	Excellent (A)	Very Good (B)	Good (C)	Satisfactory (D)	Poor (E)	Average	% Response
1	Content of syllabus	15	3	0	0	0	4.83	96.67
2	Relevance of syllabus to industry/research requirements	13	5	0	0	0	4.72	94.44
3	Course outcomes are well defined	13	5	0	0	0	4.72	94.44
4	Sufficient reading materials and digital resources provided	14	4	0	0	0	4.78	95.56
5	Incorporation of advanced topics	8	9	1	0	0	4.39	87.78
6	Pedagogy proposed	11	6	1	0	0	4.56	91.11
7	Have a desired balance between theory and practical	12	3	1	1	0	4.28	85.56
8	Assessment methods are fair, measuring the outcomes	13	4	0	0	0	4.50	90.00
9	Project component in the course, if applicable	4	4	0	2	0	2.22	44.44
10	Industrial training/ practical exposure in the course, if applicable	2	8	2	1	0	2.78	55.56

CURRICULUM FEEDBACK ANALYSIS (Academic Peers) Academic Year: 2021-22

Scale - Excellent: 5, Very Good: 4, Good: 3, Satisfactory: 2, Poor: 1

Total No. of Responses: 18, Average = (A*5 + B*4 + C*3 + D*2 + E*1)/Total no. of responses, % Response = (Average*100)/5

Other Comments/Suggestions:

- 1. Brief of exergy analysis needs to be added.
- 2. All the comments of syllabus are very good with respect to time constraints but it would be better if introductory part of refrigeration insulation (1 hour content) can be added.
- 3. In the topic of gear and thread manufacturing, detailed topics can be included for better understanding.
- 4. Tutorial sessions instead of practical sessions are advised.

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CURRICULUM FEEDBACK ANALYSIS (Employers) Academic Year: 2021-22

Scale - Excellent: 5, Very Good: 4, Good: 3, Satisfactory: 2, Poor:

Sr. No	Criteria	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Average	% Response
1	Technical knowledge and skills of the graduate(s) are	3	2	0	0	0	4.6	92
2	Curriculum provides adequate knowledge and training	2	2	1	0	0	4.2	84
3	Curriculum has rich content which ensure s problem	4	2	0	0	0	4.8	96
4	Student maintain good interpersonal relations with	2	3	1	0	0	5	100
5	Students volunteer themselves for new initiatives of	1	4	0	0	0	4.2	84
6	The graduate(s) mould themselves as per need of	4	0	1	0	0	4.6	92
7	Curriculum facilitated the graduate(s) to attain the	5	0	0	0	0	5	100
0	desired competency level. Curriculum enriched the moral values among the	4	1	0	0	0	4.8	96
0	graduate(s). Curriculum transaction sensitized them about team	3	2	0	0	0	4.6	92
9	work Communication skills of the students are good	1	4	0	0	0	4.2	84

Average = (A*5 + B*4 + C*3 + D*2 + E*1)/Total no. of responses, Total No. of Responses: 5, % Response = (Average*100)/5

Other Comments/Suggestions:

- 1. Future technology advancement topics can be added in curriculum.
- 2. Mini project can be included in course.
- 3. Soft skill should be added in curriculum.

HEAD OF DEPARTMENT Dept. of Mechanical Engg. Chandubhai S. Patel Institute of Technology At. & Po. Changa-388421., Ta. Petlad, Dist. : Anand. (Gujarat)



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FEEDBACK ACTION TAKEN REPORT OF STAKEHOLDERS (2021-22)



Faculty of Technology & Engineering

Chandubhai S Patel Institute of Technology

Chamos Matrusanstha Department of Mechanical Engineering



Summary and Action Taken Report of Feedback on Curriculum

Category	Comments	Action Taken
Alumni	As is always true with any engineering domain push should always be given to practical implementations along with integration of multiple disciplines.	Micro project will be introducing in each subject to apply subject knowledge to the real-life problem. [Annexure-I]
	Kindly add full semester project.	Full semester project is assigned in the 8 th semester. [Annexure-I]
Employer	Mini project can be included in course.	Micro project will be introduced in each course to apply subject knowledge for solving the real-life problem. [Annexure-I]
	Soft skill should be added in curriculum.	Special session will be arranged for the soft skill development from experts.
Student	More industrial exposure needed	 Motivate the students to choose the industrial based project instead of inhouse project. Organize more industrial visit. [Annexure-II]
	Pneumatic and hydraulic course should be offer separately in 6 th semester	Hydraulic and pneumatics subject offers separately in 5 th semester. [Annexure- III]
Teacher	All the comments of syllabus are very good with respect to time constraints, but it would be better if introductory part of refrigeration insulation (1 hour content) can be added.	Topic of refrigeration insulation will be incorporated in the course of Refrigeration & Air Conditioning.
	In the topic of gear and thread manufacturing, detailed topics can be included for better understanding.	Case study on gear manufacturing methods will be included in Production Technology course.



Annexure - I

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

MINUTES OF MEETING OF THE BOARD OF STUDIES IN MECHANICAL ENGINEERING

Date : September 24, 2022, Saturday Time : 9:30 am Venue : Department of Mechanical Engineering, CSPIT, CHARUSAT Campus (Online Meeting)

The online meeting of the Board of Studies, Mechanical Engineering, Faculty of Technology and Engineering, Charotar University of Science and Technology (CHARUSAT) was held as per schedule.

FOI	owing members were prese	nt.	
1.	Dr. Vijay Chaudhary	Chairman;	Professor & Head, Department of Mechanical Engineering, CSPIT
2.	Dr. Mayur Sutaria	Member;	Professor, Department of Mechanical Engineering, CSPIT
3.	Dr. Gajanan Patange	Member;	Associate Professor, Department of Mechanical Engineering, CSPIT
4.	Dr. Kamlesh Chauhan	Member;	Associate Professor, Department of Mechanical Engineering, CSPIT
5.	Dr. Dattatraya Subhedar	Member;	Associate Professor, Department of Mechanical Engineering, CSPIT
6.	Dr. Dipal Patel	Member;	Assistant Professor, Department of Mechanical Engineering, CSPIT
7.	Dr. Kundan Patel	Member;	Assistant Professor, Department of Mechanical Engineering, CSPIT
8.	Dr. P M George	Member;	Professor, Mechanical Engineering Department, BVM Engg. College, Vallabh Vidyanagar
9.	Dr. Piyush Gohil	Member;	Associate Professor, Mechanical Engineering Department, M S University - Vadodara
10.	Dr. Vikas J Lakhera	Member;	Professor, Mechanical Engineering Department, Nirma University - Ahemdabad
11.	Mr. Sambhaji D. Kudale	Member;	Bajaj Electrical Ltd. Mumbai (Specialist – Technical Audit, Plants)
12	Mr. Anurag	Member;	Director, Modern Automation and Robotic Systems, Vadodara
13	Mr. Gaurang Joshipura	Member;	MD- Zeppelin Systems India Pvt. Ltd. Vadodara
14	Mr. Rajan Shah (01ME058)	Member;	Forbes Marshall, Ahmedabad

Following members were present:

15	Mr. Aditya Bais (20DRME002)	Member;	PhD Scholar, Department of Mechanical Engineering, CSPIT
16	Mr. Vivek Ramani (19ME081)	Member;	Student, Department of Mechanical Engineering, CSPIT

Initiation:

Chairman welcomed all the members of Board of Studies (BoS). The minutes of the Board of Studies meeting held on August 07, 2021 was summarized.

Agenda, Proceeding & Resolutions:-

Item – 20.01: Confirmation of minutes of the 19th BoS meeting.

Proceedings & Resolution – 20.01:

Minutes of 19th BoS Meeting, Mechanical Engineering, Faculty of Technology & Engineering were summarized along with the actions taken on the received suggestions. The minutes of 19th BoS meeting were confirmed.

Item – 20.02: Action taken on the agenda items of the 19th Board of Study Meeting.

Proceedings & Resolution – 20.02:

The Chairman summarized the following major action taken to the board.

- Introduction of full final semester project.
- Inclusion of cutting-edge courses as elective courses in the curriculum.
- Introduction of minor specializations in the emerging areas.

Resolution – 20.02: The board appreciated the actions taken.

Item – 20.03: For Discussion; To review and approve the teaching & examination scheme and syllabus for 6th semester (third year) of B Tech program with CBCS scheme effective from 2021-22 admission batch.

Proceedings – 20.03:

Teaching & examination scheme with syllabus for 6^{th} semester (third year) of B Tech program is discussed in detail. Following revisions for third year of B Tech program are proposed:

- A new practical course on "Python for Mechanical Engineers" is recommended to incorporate in the 6th semester. This course will be helpful to the students in their project work and in the interdisciplinary elective courses.
- In the courses of program elective II the practical component is to be replaced by micro projects.

Resolution - 20.03:

The suggested changes are incorporated in the teaching & examination scheme and syllabus for 6th semester (third year) of B Tech program with CBCS scheme effective from 2021-22 admission batch is attached as an Annexure-I.

Following new course is incorporated in the syllabus of third year B Tech program:

Sr. No.	Course Code & Name	Remarks
1.	ME356: Python for Mechanical Engineers	Semester 6

Pedagogy of following program elective – II courses are revised in the syllabus of third year B Tech program:

Sr. No.	Revised Course Code & Name	Remarks
0111101		Compater 6 (Flective)
1.	ME385.01: Automobile Engineering	Semester 0 (Liecuve)
2	ME383 01: Digital Manufacturing	Semester 6 (Elective)
Ζ.		beinteeter - (
3	ME384.01: Instrumentation & Control	Semester 6 (Elective)
		Q (Electiva)
4.	ME382.01: Industrial Engineering & Management	Semester 6 (Elective)
		Somester 6 (Flective)
5.	ME381.01: Renewable Energy Sources	Jennester o (Electro)

Item – 20.04: For Discussion; To review and approve the teaching and examination scheme of B Tech program and detailed syllabus of 1st year with CBCS scheme.

Proceedings – 20.04:

Teaching and examination scheme for 1st year of B Tech program is discussed. Following revisions in 1st year of B Tech program are proposed:

- In 1st year, syllabus of "Fundamentals of Computer Programming (IT143)" course is modified and new course "Introduction of Computer Programming (IT145)" is proposed for 2023-24 admission batch. This new course is based on Python programming language.
- In 1st year, syllabus of MA143 and MA144 (Engineering Mathematics-I and Engineering Mathematics-II) are revised for 1st semester and 2nd semester of B.Tech program (All Branches) respectively for the academic year 2022-23.

Resolution - 20.04:

The suggested changes are incorporated in the teaching scheme and syllabus for 1st year B Tech CBCS courses and the syllabus of new courses are attached as an Annexure-II.

Following new course is incorporated in the syllabus of 1st year B Tech program for 2023-24 admission batch.:

Sr No	Course Code & Name	Remarks
1.	IT145: Introduction of Computer Programming	Semester 2

Item – 20.05: For Discussion; To review and approve the teaching & examination scheme and syllabus of First Year M.Tech (Advanced Manufacturing Technology) program with CBCS scheme effective from 2023-24.

Proceedings - 20.05:

Teaching & examination scheme with syllabus for First Year M.Tech (Advanced Manufacturing Technology) program is discussed in detail. Following revisions for M.Tech program are proposed:

In the course of "Manufacturing Planning & Control (ME 763)" following revisions were proposed;

- In the unit on Experimental Design: Statistical Analysis of Data, "Purpose of Statistical Analysis along with descriptive and inferential statics" are added. Earlier only Design of experiments, design models, hypothesis testing along with Taguchi was covered.
- In the unit on Methodologies for improving OEE in manufacturing, "Six sigma, lean and theory of constraints" are added.
- Overall, the percentage of revision based on the change of number of contact hours is 26%.

In the course of "Advanced Engineering Optimization Techniques (ME 767)" following revisions were proposed;

- In the unit on Non-traditional optimization techniques, "Particle swarm method and cuckoo search method" are added.
- In the unit on Multi-variable optimization techniques, "random-walk method and univariate method" are added. Earlier univariate method was covered as a part of the Pattern search method.
- Contact hours of the unit on "Single-variable optimization techniques" is reduced and compensated by increase in contact hours of the units on "Multi-variable optimization techniques, Constrained optimization techniques, and Non-traditional optimization techniques".
- Overall, the percentage of revision based on the change of number of contact hours is 35%.

Resolution – 20.05:

The suggested changes are incorporated in the teaching & examination scheme and syllabus for First Year M.Tech (Advanced Manufacturing Technology) program with CBCS scheme effective from 2023-24 admission batch is attached as an Annexure-III.

Following courses are revised in the syllabus of first year M.Tech (Advanced Manufacturing Technology) program:

Sr. No.	Revised Course Code & Name	Remarks			
1.	ME763.01: Manufacturing Planning & Control	Semester 1			
2.	ME767.01: Advanced Engineering Optimization Techniques	Semester 2			

Item – 20.06: For Discussion; Feedback of the stakeholders.

Proceedings – 20.06:

Feedbacks on curriculum of various stack holders viz. students, alumni, academic peers and employers were considered for the development and revision of syllabi. Feedbacks on curriculum were analysed, reviewed & action taken plan was discussed. Stakeholders feedbacks reports with analysis and proposed action taken are attached herewith as an Annexure IV.

The online feedback for various criteria viz. curricular aspects, teaching - learning & evaluation, research & extension activities, infrastructure & learning resources, student support & progression and governance & leadership was taken from students. Feedbacks were analysed, reviewed & proposed action taken plan was discussed. The detail report of same is attached herewith as an Annexure V.

Resolution – 20.06:

Board members appreciated the feedback analysis of the stakeholders and its action taken. Feedback is vital to improve the various best practices adopted by the department.

Item - 20.07: For Discussion; To review Quality of University Exam Question Papers.

Proceedings – 20.07:

Quality Assessment of University Exam Question Papers is carried out by following measures.

- Mapping of questions with course outcomes.
- Bloom's Taxonomy while drawing the question papers.
- Attainment of course outcomes are analyzed after each examination.
- Evaluation of the question paper also involves parameters like clarity of question paper, grammar with language, syllabus coverage, and overall quality.

Members discussed about the analysis of university exam question papers by identifying the percentage of questions as per different levels of bloom's taxonomy.

Resolution – 20.07:

Members agrees that in the university exam question paper, around 10% deviation in marks as compared to predefined marks as per weightage of the units/topics in the course syllabus is allowed to account for uncertainty and to facilitate flexibility.

Members suggested that faculty members should keep the uniformity in difficulty level of question paper. Also the questions covering remembering and understanding part from the bloom's taxonomy may contribute not more than 30% to 40 % of the total marks of the question paper in the higher semesters.

Question papers analysis report is attached herewith as an Annexure VI.

Item – 20.08: For Discussion; Implementation of Outcome Based Education & Preparation related to NBA & NAAC.

Proceedings – 20.08:

In continuation with the implementation of OBE for NBA & NAAC, attainment of Program Outcomes (POs) and Program Specific Outcomes (PSOs) for all courses of B. Tech (ME) program were performed based on internal and external exam evaluation. Based on attainment level, the Department has finalized various corrective actions. For better mapping of course outcomes with POs, department adopted the performance indicators suggested by AICTE.

Resolution – 20.08:

Attainment of POs & PSOs for academic year 2021-2022 and its corrective measures are attached as an Annexure VII. In the next phase of OBE implementation, the curriculum are to be revised based on competency, which is under review.

Item - 20.09: For Discussion; Analysis of end semester results of the students.

Proceedings - 20.09:

End semester results for the academic year 2021-22 was presented. In the result of few analytical courses the failure rate was high. Members suggested that assignments/tutorials containing numerical and analytical questions should be provided to the students. Analysis and feedback of make-up and remedial classes to improve the performance of students can be carried out.

Resolution – 20.09:

End semester result analysis for the academic year 2021-22 and its action taken is attached as an Annexure-VIII.

Item - 20.10: For Discussion; To approve panel of examiners for winter and summer examinations.

Proceedings & Resolution – 20.10:

New examiners for UG & PG programs are incorporated in the exam panel. Details of existing examiners are also updated and attached as an Annexure IX.

Item – 20.11: For Discussion; Innovation in Pedagogy.

Proceedings & Resolution – 20.11:

Classroom & Laboratory presentations, Mini projects, Group discussion, Online test, Quiz etc. are part of continuous evaluation system.

Incorporation of Micro Projects:

- The activities to be assigned to the students as part of Continuous Mode Evaluation (if any) may constitute Micro Projects.
- After, needful consideration and necessary alterations, the micro projects may be established as part of teaching-learning part.
- The documentation related to micro-project are to be prepared for each undergraduate course.

Item – 20.12: For Discussion; Analysis of campus placement and its related activities.

Proceedings - 20.12:

Placement statistics & packages offered for 2021-22 batch were presented. To enhance the training and placement activities, aptitude test and mock practice of campus drive are being conducted for students. Institute-industry interaction needs to be improved for enhancing training and placement activities and each faculty member is being involved in the institute-industry interaction.

Resolution – 20.12:

Placement records and its related activities are attached as an Annexure-X.

Item - 20.13: For Discussion; Research Activities

Proceedings & Resolution – 20.13:

During academic year 2021-22, following research project was submitted to the external funding agency.

Name of Project	Funding agency	Amount (INR)
Name of Project Fill Synergic Integration of Smart Innovations in A A Investment Casting for High Valued Products (It is a network project involving 7 institutes and 13 (C To a industries.) O	Advanced Manufacturing Technology scheme (Category II) of Department of Science and Technology	(Total 6.06 Crores) 1.02 Crore for CHARUSAT

Research Paper Publication: 22 Journal, 11 Conference and 01 Book Chapter

Item – 20.14: For Discussion; To approve the PhD synopsis of research scholars.

Proceedings – 20.14:

Department of Mechanical Engineering, Faculty of Technology & Engineering received synopsis of research scholars during 2021-22. The details of synopsis submission is as follow:

Sr.	Research Scholar	Research Topic
No		
1	Denisha N patel	Enhancement of Mechanical Properties of Al-Si-Cu 319 Alloy by
	(15DRME002)	Rare Earth Metal Addition
2	Dave Divyeshkumar	Characterization of TiO2 thin film synthesized by RF
	Pramodrai	magnetron sputtering: An approach to photocatalytic
	(17DRME006)	degradation of low-density polyethylene

Synopsis & panel of referees of research scholars is placed before the BoS members.

Resolution - 20.14:

Members approved the synopsis & panel of referees of Research Scholar for further process.

Item – 20.15: For Discussion; New Education Policy (NEP) 2020.

Proceedings & Resolution – 20.15:

As per the NEP 2020, there is a need to incorporate Vocational/Certificate Courses in curriculum. The institutes may offer a certificate course/audit courses to enhance skill and employability of the graduating students. The courses may be offered in diversified areas and may have an interdisciplinary component to be embedded. The preferable mode of transaction would be an online mode with suitable evaluation mode and the courses should have tangible outcomes.

Following certification courses are offered by the department to increase portfolio of programme.

Certificate Courses conducted:

Sr. No.	Programme Name	Category	Duration of Programme		
1	"Finite Element Modeling and Simulation with	CHARUSAT Students	24th July to 25th Sept. 2021		
1	ANSYS Workbench" (Online)	External Students	(36 Hrs)		
2	"Basic Pneumatics & Electro Pneumatics" (Online + Offline)	Students & Industry persons	30th May to 8th June 2022 (36 Hrs)		

Proposed Certificate Course:

Sr. No.	Programme Name	Category	Duration of Programme
1	"Industrial Safety" (Offline) In coordination with Federation of Gujarat Industries (FGI)	Students & Industry persons	30 Hrs

Item – 20.16: For Information; To inform reduction in the intake in B. Tech. (Mechanical Engineering) program.

Proceedings & Resolution – 20.16:

Chairman gave information about the reduction in the intake in B. Tech. (Mechanical Engineering) program. Looking to the need looking to the demand-supply scenario, future needs of industry and accreditation stipulations following reduction in the seats are done.

Sr. No.	Branch	Intake (2021-22)	Intake (2022-23)
1	Mechanical Engineering	120	60

Board noted the reduction in intake in B. Tech. (Mechanical Engineering).

Item - 20.17: For Discussion; Planning of online course conduction and effective implementation of it.

Proceedings – 20.16:

Students are opting for a few online courses (SWAYAM/NPTEL) during their course of study to strengthen lifelong learning. Credit transfer of online courses can be done initially by conducting exams by the university. Online MOOC's course assignment/quiz scores can be considered as a part of internal evaluation component.

Resolution – 20.16:

Board advised to implement credit transfer of MOOC's courses initially for program elective courses.

The meeting ended with a vote of thanks by the Chairman.

Dr. Vijay Chaudhary Chairman Date: 10/10/2022

CHARUSAT



Minutes BoS Meeting

Annexure - II

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY CHANDUBHAI S PATEL INSTITUTE OF TECHNILOGY MECHANICAL ENGINEERING DEPARTMENT

INDUSTRIAL VISIT REPORT

Date of Visit:	13/09/2022
Industry Name and Address:	 Suryadeep Alloy Steels Castings, Vitthal Udyognagar, New Vallabh Vidyanagar, GIDC, Anand Shree Vallabh Alloy Steel Castings, 704/4, G.I.D.C. Phase IV, Vitthal Udyognagar, New Vallabh Vidyanagar, GIDC, Anand
Organized For	B. Tech 3 rd Semester
Objectives:	• To give industrial exposure to students by which they can learn about different types of patterns, core & mould making process, melting, pouring practice, sand casting, etc.
Outcomes:	 Students became aware about various stages of sand casting process Students have gain knowledge of different types of patterns Students became aware of core & mould making process Students explored the melting and pouring practice in foundry. Students have observed fettling and post processing activities performed on cast product.



CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT), CHANGA – 388 421

Chandubhai S. Patel Institute of Technology

CHAMOS Matrusanstha Department of Mechanical Engineering

Event Report

Name of Industry :	Industry Visit at 'LEXCRU WATERTECH Pvt. Ltd'
Date and Time of Visit :	20 th September 2022, 09:30 to 05:30 p.m.
Event coordinator :	Gaurang Patel
Resource person details (if any):	Vaishali Jadhav (9173971133)
	Email: hrlexcru@gmail.com
Event for (UG/PG/PhD)	UG (5 th Semester students)

Event Schedule:

Date	Time	Activity
20 th September 2022	09:30 to 05:30 p.m.	Industry Visit

Summary of the Event (Maximum 200 words):

This industry visit was arranged for 5th semester students for the subjects of ME341 (DCMD) and ME352 (M&QC). Students learnt about the assembly line of making of RO system and the advanced machineries and technology used by industry.

Registration fee (if any):Nil.

No. of Participants: 54

List of Participants : List is attached

Amount sanctioned by CSPIT/CHARUSAT: --

Accounts details:

Sr. No.	Details	Rupees
Expanses		
1.	Travelling Allowance	-
Total		-

Coordinator Sign:

50

Head of Department Sign:

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Photographs of the event with captions:







CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY CHANDUBHAI S PATEL INSTITUTE OF TECHNILOGY MECHANICAL ENGINEERING DEPARTMENT

INDUSTRIAL VISIT REPORT

Date of Visit:	28/09/2022
Industry Name (and Address:	Suryadeep Alloy Steels Castings, Vitthal Udyognagar, New Vallabh Vidyanagar, GIDC, Anand
Organized For	B. Tech 5 th Semester
Objectives:	• To give industrial exposure to students by which they can learn about different types of patterns, core & mould making process, melting, pouring practice, sand casting, etc.
Outcomes:	 Students became aware about various stages of sand casting process Students have gain knowledge of different types of patterns Students became aware of core & mould making process Students explored the melting and pouring practice in foundry. Students have observed fettling and post processing activities performed on cast product.





Annexure - III

Date : 24/12/2022

Semester : 5

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY BACHELOR OF TECHNOLOGY

Syllabus Details

Effective Year 2021-22

Program	: BTECH(ME)
Total Subjects	: 7
Total Regular Subjects	: 6
Total Elective Subjects	: 1

Group Name : Regular

		Teaching Scheme					Examination Scheme						
Course Code	Course Title	CREDIT					тн		PR		PRJ		
		тн	PR	PRJ	TOTAL	HOURS	Internal	External	Internal	External	Internal	Externa	TOTAL
ME350	THERMAL ENGINEERING	3.00			3.00	3.00	0/30	28/70	-	-	-	-	100
ME341	DESIGN CONCEPTS & MACHINE DRAWING	4.00	1.00		5.00	6.00	0/30	28/70	0/25	10/25	-	-	150
ME342	HEAT & MASS TRANSFER	4.00	1.00		5.00	6.00	0/30	28/70	0/25	10/25	-	-	150
ME349	SUMMER INTERNSHIP-I		3.00		3.00	0.00	-	-	0/75	30/75	-	-	150
ME352	METROLOGY & QUALITY CONTROL	3.00	1.00		4.00	5.00	0/30	28/70	0/25	10/25	-	-	150
HS131.02 A	COMMUNICATION AND SOFT SKILLS		2.00		2.00	2.00	-	-	0/30	28/70	-	-	100
					22.00	22.00							800

Group Name : Elective-I

		Teaching Scheme					Examination Scheme						
Course	Course Title		С	REDIT			1	ГН	F	'nR	P	RJ	
Code		тн	PR	PRJ	TOTAL	HOURS	Internal	External	Internal	External	Internal	Externa	TOTAL
ME373	METAL CASTING TECHNOLOGY	3.00	1.00		4.00	5.00	0/30	28/70	0/25	10/25	-	-	150
ME377	DYNAMICS OF COMPRESSIBLE FLOW	3.00	1.00		4.00	5.00	0/30	28/70	0/25	10/25	-	-	150
ME378	NOISE, VIBRATION & HARSHNESS	3.00	1.00		4.00	5.00	0/30	28/70	0/25	10/25	-	-	150
ME379	HYDRAULICS & PNUEMATICS	3.00	1.00		4.00	5.00	0/30	28/70	0/25	10/25	-	-	150
ME380	COMBUSTION PROCESS	3.00	1.00		4.00	5.00	0/30	28/70	0/25	10/25	-		150
Total Credit f	for Pogular Subjects	22.00											

Total Credit for Regular Subjects	:	22.00
Total Credit for Elective Subjects	:	4.00
Total Credit	:	26.00

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY BACHELOR OF TECHNOLOGY

Syllabus Details

Effective Year 2021-22

Program	: BTECH(ME)
Total Subjects	: 7
Total Regular Subjects	: 6
Total Elective Subjects	: 1

Examination Grade Range & Value

Grade	Grade Points	From Marks	To Marks
AA	10.00	80	100
AB	9.00	73	79
BB	8.00	66	72
BC	7.00	60	65
CC	6.00	55	59
CD	5.00	50	54
DD	4.00	45	49
FF	0.00	0	44

Semester : 5