



NEWSLETTER

From 1st July 2019 to 30th June 2020

DEPARTMENT OF CHEMICAL ENGINEERING JNTU COLLEGE OF ENGINEERING HYDERABAD (Autonomous) Kukatpally, Hyderabad – 500085

VISION

To be recognized as one of the top 10 institutes in the country offering technical education, sustaining and improving its repute of UG programmes, expanding need based PG and research programmes with global outlook, synergising teaching and research for societal relevance

MISSION

1. To identify technological advancements and build the right level of skills at the right time contributing to the industrial and national growth.
2. To identify and keep abreast with the state of the art technology maintaining its legacy of striving for excellence in higher education.
3. To promote world class research of local relevance to society.
4. With a research community of professors, research fellows and research centres, expand the scale and multidisciplinary character of its research activities.
5. With a global outlook strive for collaborations to network with International Universities and National Institutes of Research and Higher Learning.



JNTU COLLEGE OF ENGINEERING HYDERABAD

DEPARTMENT OF CHEMICAL ENGINEERING



VISION:

To be a premier chemical engineering department meeting the needs of academia, industry and society through quality education and innovative research.

MISSION:

1. Provide a comprehensive learning ambience in sciences, chemical and allied engineering.
2. Impart principles of sustainability and stimulate the evolution of environment friendly techniques and processes for the benefit of society.
3. Promote leadership qualities and team work through collaborations.



PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	
PEO-1	Achieve innovation in research, education and administration in multi-discipline environment.
PEO-2	Obtain leadership positions in prestigious organizations.
PEO-3	Exhibit high ethical standards, team work with continuous learning to cater the ever changing professional needs.
PEO-4	Pursue personal development through acquiring knowledge, skills and attitude.
PROGRAM OUTCOMES (POs)	
1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2 1.	Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural science, and engineering sciences.
3	Design/Development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5 2.	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6 3.	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7	Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8 4.	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9 5.	Individual and in team: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.
11	Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSOs)	
PSO-1	Interdisciplinary Approach: The Students will be able to apply chemical engineering principles to interdisciplinary areas like nanotechnology, environmental & energy engineering, Process safety
PSO-2	Modeling & Simulation: The Students will be able to work on modeling, simulation & optimization of chemical processes using MATLAB & PRO -II software

List of Programs Offered by the College/Academic Unit with Intake:

Sl. No.	Name of the UG/PG Programme	Sanctioned In take
1	B.Tech. (UG)- Chemical Engineering	60

List of Faculty members: (Name and Designation)

S.No.	Name of the Faculty	Designation
1	Dr. S. Devaki Rani	Professor & Head
2	Mr. Dipankar Das	Assistant Professor (C)
3	Dr. M. Anitha	Assistant Professor (C)
4	Mrs. N. Vandana	Assistant Professor (C)
5	Dr. Ch. Ramesh	Assistant Professor (C)
6	Mrs. P. Sowmya	Assistant Professor (C)

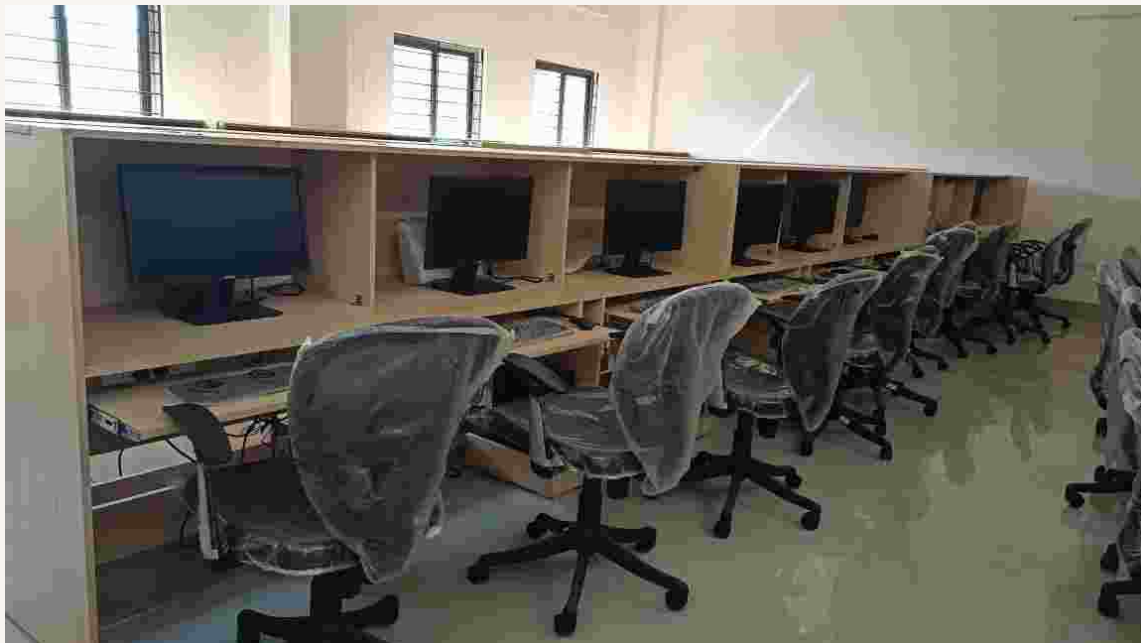
Department Laboratory:

**Mechanical Operations Lab: - Lab Conducted at Metallurgical Engineering Department, JNTUH
Instrumentation & Process Control Lab**

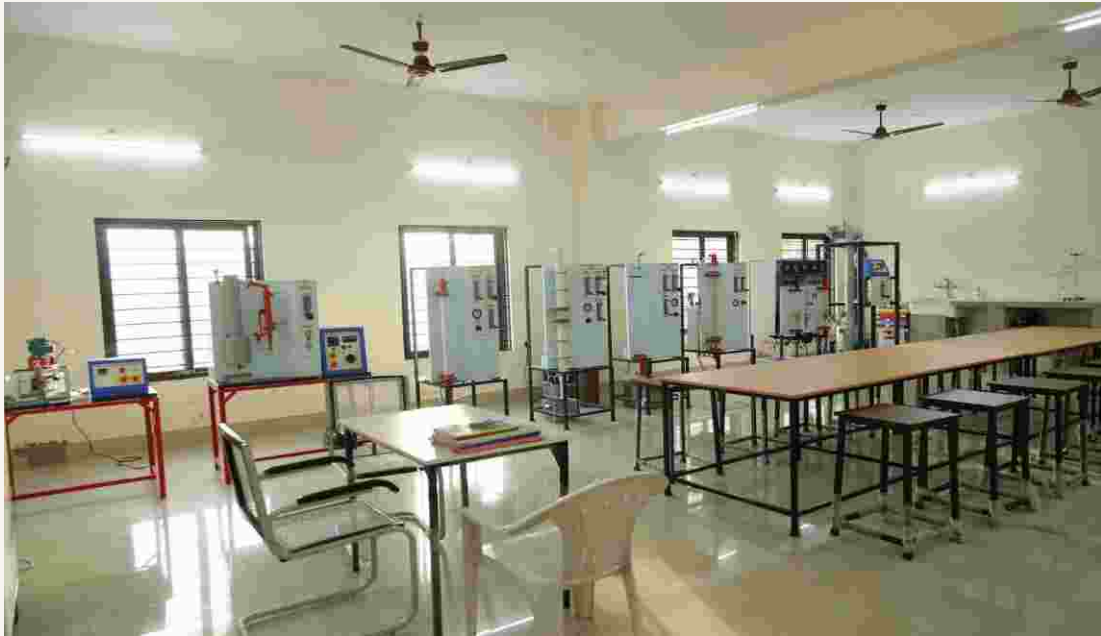


Instrumentation & Process Control Lab

Process Simulation Lab:



Mass Transfer Operations Lab:



Chemical Reaction Engineering Lab:



Chemical Reaction Engineering Lab

Fluid Mechanics Lab:



Fluid Mechanics Lab

New Infrastructure Development in the Dept./College:

S. No.	Date	Details of the Infrastructure setup (Creation of new labs, new facilities etc.)	Quantity	Unit Cost	Total Cost for the Set-up (Rs. in lakhs)
1	11.11.2019	Computer chairs	24 Nos	3,415/-	81,960/-

New Equipment/Software Installed:

- One LCD Projector for the classroom purpose sanctioned under TEQIP-III
- Desktops (DELL) – 10nos. received from TS EAMCET office – 2019 (Rs. 5,54,400/-)
- **New laboratory equipment was installed in September- 2019.**

S. No.	Date	Details of the Equipment	Quantity	Cost of the Equipment
1	02.09.2019	Vibrating Screen	01	38,619/-
2	02.09.2019	Plate & Frame Filter Press	01	77,469/-
3	02.09.2019	Cyclone Separator	01	51,219/-
4	02.09.2019	Hammer Mill	01	40,719/-
5	02.09.2019	Dynamics Of Single Tank System	01	34,419/-
6	02.09.2019	Rtd Studies in Continuous Stirred Tank Reactor (Compressed Air Feed System)	01	44,919/-
7	02.09.2019	Plug Flow Tubular Reactor (Coiled tube Type & Compressed Air Feed System)	01	44,919/-
8	02.09.2019	Cascade Continuous Stirred Tank reactor (Compressed Air Feed System)	01	70,119/-
9	02.09.2019	Rtd Studies in Packed Bed Reactor (Compressed Air Feed System)	1	51,219/-
10	02.09.2019	Rtd Studies in Plug Flow Tubular Reactor	1	38,619/-
11	02.09.2019	Ion Exchange Column	1	51,219/-
12	12.09.2019	Projector	1	32,775/-
13	29.11.2019	Pitot Tube	1	31,500/-
		Total Amount		Rs.6,07,734/-

VALUE ADDED COURSE offered by Chemical Engineering department for the year 2019 -20

Department	Name of the value-added courses offered (with 30 or more contact hours)	Year of Offering	Duration of the course	Number of students enrolled in the year	Number of Students completing the course in the year
Chemical Engineering	Municipal Solid Waste Management	2019-20	30 hours	26	24
Chemical Engineering	Process Safety Management	2019-20	30 hours	29	25
Chemical Engineering	Fertilizer Technology	2019-20	30 hours	27	25

Student Achievements:

Student GATE Score Details:

Sl. No.	Name of the Dept./Centre	Roll No.	Name of the Student	Exam Qualified	Rank Secured	Registration number
1	Chemical Engg.	14011A0822	Prabhu S Patil	GATE	163	CH20S31402733
2		15011A0821	Mohd. Ali Zaheer	GATE	2613	CH20S31404266
3		16011A0819	I. MeghanaSucharitha	GATE	1735	CH20S31404344
4		16011A0834	K. Santhosh Hari	GATE	2895	CH20S31402529
5		16011A0842	Sri PriyaGovardana	GATE	610	CH20S37415024

JNTUH CEH Placements:

Sl.No	Department/ Centre	Registration/Roll No. of the Student	Name of the Student	Organization Placed in	Salary Offered
1	Chemical Engineering	15011A0835	B. Sai Harsh	ITC	6
2		16011A0804	M. Alekya	Accenture	4.5
3		16011A0806	BhavanaKethireddy	Accenture	4.5
4		16011A0817	M. Madhav Reddy	Accenture	4.5
5		16011A0821	PallaviPuduru	Accenture	4.5
6		16011A0822	P. Pavan Reddy	Aurobindo Pharma	3.6
7		16011A0824	P. Rajashekar Reddy	ITC	6
8		16011A0827	Rakshithgoud K	Aurore Life Science	3.6
9		16011A0828	Ranjithkumar More	Aurobindo Pharma	3.6
10		16011A0833	Santhi P	Accenture	4.5
11		16011A0834	K. Santhosh Hari	Aurobindo Pharma	3.6
12		16011A0838	B. Shiva kumar Reddy	Aurore Life Science	3.6
13		16011A0839	Shruti Y	Accenture	4.5
14		16011A0842	Sri PriyaGovardana	ITC	6
15		16011A0844	V S KrishnaNayan M	ITC	6
16		16011A0848	P. Yashwanth	ITC	6

- **Harshita Varma** & IV B.Tech. (Roll No.16011A0811) has received the admission to MBA in prestigious IIFT, Delhi through her excellent performance in CAT Examination. CAT, Exam Qualified. Overall Percentile- 96.3, CAT Registration number is 9111346.
- **Prabhu S Patil** & IV B.Tech. (Roll No.14011A0822) has received the admission to M. Tech. in prestigious institute IIT Madras.
- **D. PrabhatSourya** & IV B.Tech. (Roll No.14011A0821) has received the admission to Ph.D. in prestigious institute BITS Pilani Hyderabad with ID No. 2019PHXP0407H.
- **Parsa Aditya Kasyap** & IV B.Tech. (Roll No.15011A0801) has received the admission to M. S. in prestigious Western University, Canada.

- **P.G.L. Priya** & IV B.Tech. (Roll No.16011A0810) achieved the best student award with prize money of Rs. 2500/- and Trophy of this award sponsored by Indian Institute of Chemical Engineers (IICHE).
- **P. ShasiVamsi Krishna** & IV B.Tech. (Roll No.15011A0841) has received the admission to M. S. in prestigious University of Bologna, Italy, in Chemical and Process Engineering, Sustainable technologies and biotechnologies of energy and materials.

Technical Paper Presentations:

Sl. No	Roll No.	Name of the Students	Title of the Paper	Event Date	Organizing Institution
1	17011A0804	K. Akshaya	Workshop on □ Recent Advances in Chemical Process Simulation using Aspen Plus □	26 th – 27 th September, 2019	CBIT Hyderabad
2	17011A0815	S. Madhumitha			
3	17011A0817	B. Mahesh Krishna			
4	17011A0837	K.Sri Surya Charan			
5	17011A0849	N. Vinod Kumar			
6	17011A0850	A. Vishwas Reddy			
7	17011A0841	D. Supriya	Bio filtration for Air pollution control	JNTUH/ National	12th March 2020
8	17011A0848	S. Venkatayubaraju	Bio filtration for Air pollution control	JNTUH/ National	12th March 2020
9	17011A0841	D. Supriya	Bio- diesel and bio-plastic	JNTUH/ National	13th March 2020
10	17011A0848	S. Venkatayubaraju	Bio- diesel and bio-plastic	JNTUH/ National	13th March 2020

- **Expert Lecture** on “Liquid Membrane and development Polarization Phenomena.” by Dr. G. Srinivas, Assistant Prof, Department of Chemical Engineering, BVRITN. on 25.10.2019.

- **Expert Lecture** on “Gas Dispersion Measurements in a column Floatation using Electrical Resistance Tomography.” by Dr. M. Narasimha Associate Professor & H.O.D, Dept. of Chemical Engineering. on 13.12.2019.



- Department has conducted National Level Technical Symposium GENOS'2020 on March 12th and 13th 2020.

ABOUT US

Genos'20 is an annual event of the Department of Chemical Engineering , a National Level Technical Symposium organised under JNTUH College of Engineering Hyderabad . This brings a plethora of events to awaken the sustainable Chemical Engineering and deals with the international issues.

ABOUT INSTITUTION



JNTUH College of Engineering , Hyderabad established in 1965, celebrating golden jubilee year is one of the premier engineering college in the country . The Department Of Chemical Engineering formed in 2014, the youngest member in the World's Biggest University. The institution holds a high standard of education and imparts practical as well as research based knowledge. The college churns out talented students every year who joins the industries for a sustainable growth and technical advancements of the country

EVENTS

AAVISHKAR
Promoting innovations , developing analysis of live projects

WORKSHOP
On trending chemical engineering technologies

CHEMFLUENCE
Technical talks by experts of prestigious institutions

CHEMPRO
Technical Quiz related to engineering topics

AFFICHE
Paper and Poster presentation

TRIVIA
General quiz

SOLUTIONRISE
Chemical Engineering Industrial Problem Solving

OUR PREVIOUS PROJECTS

- Chem-e-car
- Heat Exchanger
- Bio fuel
- Hydro Cyclone
- Activated charcoal filtration

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- 2.Ad in the webpage
- 3.Video footage during the event

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- 2.Video footage during the event





Traditional Day Celebrations

- One-day Workshop on “Molecular Modelling & Vibrational Spectroscopy” 2nd March, 2020

JNTUH COLLEGE OF ENGINEERING HYDERABAD
 DEPARTMENT OF CHEMICAL ENGINEERING
GENOS 2020 PROUDLY PRESENTS
 ONE DAY WORKSHOP ON
MOLECULAR MODELLING & VIBRATIONAL SPECTROSCOPY

TOPICS AND TRAINER

<p>MOLECULAR MODELLING - Prof M VIJULATHA (O.U.)</p> <p>HANDS ON MOLECULE SKETCHING 2D&3D HOMOLOGY MODELLING MOLECULAR DOCKING</p>	<p>VIBRATIONAL SPECTROSCOPY - Prof PADMAVATHI (O.U.)</p> <p>INTRODUCTION INSTRUMENTATION FTIR POLY ATOMIC VIBRATIONS APPLICATIONS</p>
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FEE :500/-
 [Includes lunch, material & Certificate]

CONTACT:
 M.VAMSHI - 9666224425
 CH.DIVYA - 8501802361
 A.ARUN - 8106815518
 S.PRANATHI - 9515445817

DATE AND VENUE:
 2nd MARCH '20 @ JNTUH, Kukatpally

www.genos2020.com
jntuhcehgenos@gmail.com
[genos_jntuh](https://www.instagram.com/genos_jntuh)
[Genos2020](https://www.facebook.com/Genos2020)

- Prof. A. Annapurna, O.U. delivered a talk on “Vibrational Spectroscopy” for B. Tech. (Chem. Engg.) II/IV, III/IV, IV/IV students on March 2nd 2020 in JNTUH organized by Dr. S. Devaki Rani Professor & Head I/c. Chemical Engineering Department.
- Prof. M. Vijjulatha, O.U. delivered a talk on “molecular modelling” for B. Tech. (Chem. Engg.) II/IV, III/IV, IV/IV students on March 2nd 2020 in JNTUH organized by Dr. S. Devaki Rani Professor & Head I/c. Chemical Engineering Department.



Workshop on Vibrational Spectroscopy



Faculty Achievements:

Details of Webinars/Conferences/Seminars/Workshops/ Refresher Courses/Orientation Courses/ FDPs Attended by the Faculty:

- **Mr. Dipankar Das,Assistant Professor (C)** attended a One-Day National Webinar on “How to Improve Teaching Skills”organized by MLR Institute of Technology, June 24th,2020.
- **Mr. Dipankar Das,Assistant Professor (C)** attended a One-Day National Webinar on “Research and Publication Ethics in Science”organized by St. Albert's College (Autonomous), June 27th,2020.
- **Mr. Dipankar Das,Assistant Professor (C)** attended a One-Day Online course on “Aspen Plus- Basic Process Modeling”organized by Chemical Engineering Guy &Udemy, June 30th,2020.
- **Ms N. Vandana,Assistant Professor (C)** attended a One-Day International Webinar on "Reimagining how to sustain student engagement & learning Virtually” organized by Education Week, June 23rd,2020.

- **Ms N. Vandana,Assistant Professor (C)** attended a One-Day National Webinar on “How to Improve Teaching Skills”organized by MLR Institute of Technology, June 24th,2020.
- **Ms N. Vandana,Assistant Professor (C)** attended a One-Day International Webinar on “Re-shaping Education through life skills during the Pandemic”organized by Alagappa University College of Education, June 26th,2020.
- **Ms N. Vandana,Assistant Professor (C)** attended a One-Day National Webinar on “An impact of Document Image processing in a Decade Research”organized by Vaagdevi Engineering College, June 26th,2020.
- **Ms N. Vandana,Assistant Professor (C)** attended a (Five days FDP) Faculty Development Program on “Recent Innovations in Chemical Engineering (RICE)”organized by Khadre Institute Technology(BKIT), Bhalki, Bidar, Karnataka, 29th June, to 3rd July, 2020.
- **Dr. Ch. Ramesh,Assistant Professor (C)** attended a One-Day national Webinar on “Basic Principles and Applications of Cooling Towers in Process Industries””organized by BVRIT, Narsapur, July 5th,2020.
- **Ms. P. Sowmya,Assistant Professor (C)** attended a One-Day National Webinar on 'Electrical Discharge machining of duplex brass” organized by Sri Indu College of Engineering &Technology, May 30th 2020.
- **Ms. P. Sowmya, Assistant Professor (C)** attended a One-Day International Webinar on "Reimagine how to sustain student engagement and learning—virtually” organized by Education Week, June 23rd,2020.
- **Ms. P. Sowmya,Assistant Professor (C)** attended a One-Day National Webinar on How to Improve Teaching Skills”organized by MLR Institute of Technology, June 24th,2020.
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• **JNTUH CEH Library: Information about the Books/Journals/Online sources/ Unique Features / Facilities.**

Library Books:

S.No	Subject Name	Title	Author Name	Publisher	Number of Copies
1	Introduction To Chemical Engg	Chemical Engg An Introduction	Morton. M.Denn	Cambridge University Press	01
2	Chemical Process Calculations	Chemical Process Principles	O.A. Hougen, K.M. Watson, R. A.Ragatz	Asia Publishing House	01
3	Chemical Engg Fluid Mechanics	Unit Operations Of Chemical Engg	W. L. McCabe , J.C.Smith	Mc. Graw-Hill (3rd Edition)	01
4	Thermodynamics	Steam Tables With Miller Diagram(In Si Units)	R.S.Khurmi	S.Chand& Company Ltd	01
5	Heat And Mass Transfer	Analysis Of Mass Contactors & Heat Exchangers	T.W.F Russell, A.S. Robinson, N.J.Wagner	Cambridge University Press	01
		Diffusion- Mass Transfer In Fluid Systems	E.L.Cussler	Cambridge University Press (3rd Edition)	01
		Process Heat Transfer	Donald.Q.Kern	Mc. Graw-Hill	01
6	Chemical Reaction Engg	Chemical Reaction Engg	Octave Levenspiel	Wiley Eastern University (2nd Edition)	01
7	Instrumentation & Process Control	Automatic Process Control	Donald. P.Eckman	Wiley Eastern Limited	01
8	Process Modeling & Simulation	Mathematical Modelling & Simulation In Chemical Engg	M.Chidambaram	Cambridge University Press	01
		Computational Simulation Tools In Engg	V.Ramesh Kumar, T.BalaNarsaiah,K.Ravi Chand	Bs Publications	01
9	Transport Phenomena	A Modern Course In Transport Phenomena	D.C.Venerus, H.C.Ottinger	Cambridge University Press	01
10	Chemical Engg Plant Design & Economics	Plant Design & Economics For Chemical Engg	M.S.Peters, K. D. Timmerhaus	Mc. Graw-Hill (3rd Edition)	01
11	Petroleum Refining & Petro-Chemicals	Petroleum Processing	V.P.Sukhanov	Mir Publishers	01
		Instrumentation Manual Petroleum Processing & Petro-Chemical Industries	N.Komissarova	Mir Publishers	01
12	Material Science	Strength Of Materials	N.K.Mehta	Mir Publishers	01
		Material Science & Metallurgy	Dr. O.P.Khanna	Dhanpat Rai & Sons	01
13	Energy Engg	Fuels & Combustion	S.P.Sharma Chander Mohan	Tata Mc. Graw-Hill	01
14	Optimization Methods	Optimization In Chemical Engg	Suman Dutta	Cambridge University Press	01
