

# Indian Institute of Technology Gandhinagar LIBRARY



## List of Ph.D. & M. Tech Theses Accession No.: T00519-T00690 (New Additions in 2020)

To see this collection in Institutional Repository please visit this link:  
<https://repository.iitgn.ac.in/community-list>

<b>PhD Theses</b>	
<b>Discipline</b>	<b>Total</b>
Biological Engineering	08
Chemical Engineering	03
Chemistry	07
Civil Engineering	01
Computer Science and Engineering	01
Earth Science	02
Electrical Engineering	10
Humanities and Social Science	08
Materials Engineering	04
Mechanical Engineering	02
Mathematics	01
Physics	09
<b>Total</b>	<b>56</b>

<b>M.Tech Theses</b>	
<b>Discipline</b>	<b>Total</b>
Biological Engineering	11
Chemical Engineering	14
Civil Engineering	21
Computer Science and Engineering	13
Earth Science	04
Electrical Engineering	23
Materials Engineering	12
Mechanical Engineering	18
<b>Total</b>	<b>116</b>

# Table of Contents

## PHD THESES

BIOLOGICAL ENGINEERING .....	1
CHEMICAL ENGINEERING.....	2
CHEMISTRY.....	2
CIVIL ENGINEERING.....	3
COMPUTER SCIENCE AND ENGINEERING .....	3
EARTH SCIENCE .....	4
ELECTRICAL ENGINEERING .....	4
HUMANITIES AND SOCIAL SCIENCE .....	6
MATERIALS ENGINEERING .....	6
MATHEMATICS.....	7
MECHANICAL ENGINEERING.....	7
PHYSICS .....	7

## M. TECH. THESES

BIOLOGICAL ENGINEERING .....	10
CHEMICAL ENGINEERING.....	11
CIVIL ENGINEERING.....	13
COMPUTER SCIENCE AND ENGINEERING .....	16
EARTH SCIENCE .....	17
ELECTRICAL ENGINEERING .....	18
MATERIALS ENGINEERING .....	21
MECHANICAL ENGINEERING.....	22

# LIST OF PHD THESES

# LIST OF PHD THESES

## BIOLOGICAL ENGINEERING

1. **Title** : Mechanistic and characteristic investigation of recombinant eukaryotic hCD151 and prokaryotic HpIMPDPH protein  
**Author** : P, Gayathri  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572 GAY  
**Acc. No.** : T00548
  
2. **Title** : Theoretical investigation of carbohydrates and glycoproteins: elucidating structure, function and mechanism  
**Author** : Pandey, Poonam  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.6 PAN  
**Acc. No.** : T00529
  
3. **Title** : Development of peptide-based inhibitors towards tau protein aggregation in alzheimer's disease and sonic hedgehog protein in the hedgehog signaling pathway  
**Author** : Ralhan, Krittika  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.65 RAL  
**Acc. No.** : T00528
  
4. **Title** : Interaction of dimeric carbocyanine dye with G-rich DNA  
**Author** : Chilka, Pallavi  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.86 CHI  
**Acc. No.** : T00523
  
5. **Title** : Molecular Investigation of ATR and NFBD1 as therapeutic targets in cancer  
**Author** : Bhakuni, Rashmi  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 616.075 BHA  
**Acc. No.** : T00539
  
6. **Title** : Two-dimensional films and three-dimensional macrostructures from the aqueous dispersion of graphene oxide: synthesis, rheology, and applications  
**Author** : Ojha, Abhijeet  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 662.9 OJH  
**Acc. No.** : T00540

7. **Title** : Development of nanobioconjugates for the efficient extraction of bioactive compounds and for the detection of environmental and clinical analytes  
**Author** : Kumar, Sanjay  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 610.28 KUM  
**Acc. No.** : T00547
8. **Title** : Validation of human tyrosine-like kinase 1B as a molecular target for anticancer therapy  
**Author** : Bhoir, Siddhant Pandurang  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 616.99 BHO  
**Acc. No.** : T00574

## CHEMICAL ENGINEERING

1. **Title** : Boron based nanosheets from layered metal diborides: synthesis, physicochemical characterization and their nanoscale interfacing  
**Author** : James, Asha Liza  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 660 JAM  
**Acc. No.** : T00541
2. **Title** : Engineering pharmaceutical formulations for modulated release of NSAID and anticancer drugs  
**Author** : Varghese, Sophia  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 660 VAR  
**Acc. No.** : T00542
3. **Title** : Role of engineered nanoscale surface roughness for tuning the wetting behavior of micron-size particles  
**Author** : Dixit, Deepa  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 667 DIX  
**Acc. No.** : T00549

## CHEMISTRY

1. **Title** : Design, synthesis, and identification of novel kinase inhibitors: biological and structural studies  
**Author** : Shaik, Althaf  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 540 SHA  
**Acc. No.** : T00530
2. **Title** : La<sub>2</sub>O<sub>3</sub> and its doped analogs: physicochemical, optical and catalytic properties  
**Author** : Gangwar, Bhanu Pratap Singh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 540.3 GAN  
**Acc. No.** : T00531

3. **Title** : Molecular insight into the mechanism of human GSAP and P. aeruginosa G6PI: biochemical and Biophysical studies  
**Author** : Angira, Deekshi  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 541.22 ANG  
**Acc. No.** : T00532
4. **Title** : Electrocatalysis and gas solid catalysis by Pt ions in perovskites and CeO<sub>2</sub>: a comparison between supported and the doped catalyts  
**Author** : Bisht, Anuj  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 541.37 BIS  
**Acc. No.** : T00543
5. **Title** : Regio- and enantioselective vinylogous functionalization of  $\alpha$ ,  $\beta$ -unsaturated aldehydes using dienamine catalysis  
**Author** : Kutwal, Mahesh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 547 KUT  
**Acc. No.** : T00554
6. **Title** : Design and synthesis of small organic fluorophores: aggregation Induced emission, gelation, sensing and bioconjugation  
**Author** : Kumar, Katla Jagdish  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 547.1 KUM  
**Acc. No.** : T00520
7. **Title** : Design and synthesis of  $\pi$ -conjugated organic fluorophores for biological and organic electronics applications  
**Author** : Kumari, Beena  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 547.1 KUM  
**Acc. No.** : T00572

## CIVIL ENGINEERING

1. **Title** : Static and cyclic liquefaction characteristics of Kutch soils  
**Author** : Hussain, Majid  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 624.1517 HUS  
**Acc. No.** : T00569

## COMPUTER SCIENCE AND ENGINEERING

1. **Title** : Models and algorithms for information diffusion  
**Author** : Choudhari, Jayesh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 005.1 CHO  
**Acc. No.** : T00558

## EARTH SCIENCE

- Title** : Climate and anthropogenic contribution to groundwater storage variability in India  
**Author** : A, Akarsh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 551 AKA  
**Acc. No.** : T00559
- Title** : Quantitative geomorphic study of river networks and topography in the Northwest Himalaya, India  
**Author** : Sahoo, Ramendra  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 551.4 SAH  
**Acc. No.** : T00533

## ELECTRICAL ENGINEERING

- Title** : Virtual reality-based treadmill-assisted adaptive response technology for post-stroke gait rehabilitation  
**Author** : Dhaval, Solanki  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 SOL  
**Acc. No.** : T00525
- Title** : Compact electrostatics and transport model for high mobility iii-v channel gate-all-around MOS transistors  
**Author** : Ganeriwala, Mohit D.  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 GAN  
**Acc. No.** : T00527
- Title** : Distributed demand response in smart grid: a game-theoretic and machine learning approach  
**Author** : Rajasekhar, Batchu  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 RAJ  
**Acc. No.** : T00534
- Title** : Field deployable tunable diode laser spectroscopy systems for greenhouse gas and air pollutant monitoring  
**Author** : Roy, Anirban  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 621.3 ROY  
**Acc. No.** : T00550
- Title** : Novel strategies for image retargeting: energy design, acceleration, and scene awareness  
**Author** : Patel, Diptiben  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 621.3 PAT  
**Acc. No.** : T00552



6. **Title** : Technology-assisted exergaming platform for upper limb rehabilitation of post-stroke patients  
**Author** : Dash, Adyasha  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 DAS  
**Acc. No.** : T00570
7. **Title** : Design of fault-tolerant permanent magnet motors and post fault control  
**Author** : Veeramaneni, Naveen Deepak  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.34 VEE  
**Acc. No.** : T00524
8. **Title** : Low power architectures for assistive listening devices  
**Author** : Ray, Dwaipayan  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 621.38 RAY  
**Acc. No.** : T00568
9. **Title** : Advanced CMOS technologies for SoC applications: challenges and solutions from Analog/RF perspective  
**Author** : Bhoir, Mandar S.  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3815 BHO  
**Acc. No.** : T00526
10. **Title** : ASOCC: an evaluation framework for asynchronous and synchronous network-on-chip architectures  
**Author** : Ved, Sneha  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3815 SNE  
**Acc. No.** : T00535

## HUMANITIES AND SOCIAL SCIENCE

1. **Title** : Exploring the affective consequences of creative tasks  
**Author** : Mehta, Krishnesh S.  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 153.35 MEH  
**Acc. No.** : T00519
2. **Title** : Contextual factors in moral judgment and decision making  
**Author** : Sahai, Abhishek  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 153.4 SAH  
**Acc. No.** : T00553
3. **Title** : Decisions under risk: factors affecting descriptive choices  
**Author** : Goyal, Shruti  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 153.4 GOY  
**Acc. No.** : T00555

4. **Title** : Towards the design of multi-user virtual reality based interactive social communication platform for individuals with autism and its implications on eye-gaze  
**Author** : Raj K.B., Pradeep  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 155.6 RAJ  
**Acc. No.** : T00557
  
5. **Title** : Critique of the conceptualization of sense of agency in experimental paradigms  
**Author** : Reddy, Nagireddy Neelakanteswar  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 153.7 RED  
**Acc. No.** : T00522
  
6. **Title** : Caste-coded city: mobility and marginalization in the space politics of Ahmedabad  
**Author** : Banerjee, Dyotana  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 305.5 BAN  
**Acc. No.** : T00544
  
7. **Title** : Law, crime and justice towards an understanding of criminal justice in colonial ASSAM, 1826-1905  
**Author** : Bharadwaj, Jahnu  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 345 BHA  
**Acc. No.** : T00560
  
8. **Title** : Social determinants of menstrual health: a mixed-methods study among Indian adolescent girls and boys  
**Author** : Gundi, Mukta  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 362.1 GUN  
**Acc. No.** : T00561

## MATERIALS ENGINEERING

1. **Title** : Interrelation between electronic structure, microstructure and optoelectronic properties of Al-doped ZnO and Cu<sub>2</sub>-xS  
**Author** : Patel, Tvarit A.  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 620.1 PAT  
**Acc. No.** : T00521
  
2. **Title** : Microstructure modulated optoelectronic properties of Al-doped ZnO and CuInGaSe<sub>2</sub> films using cost-effective, scalable deposition techniques  
**Author** : Bandaru, Narendra  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 620.1 BAN  
**Acc. No.** : T00538

3. **Title** : Aluminium matrix friction stir surface composites – study on mechanical and electrochemical performance  
**Author** : V. P., Mahesh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 620.11 MAH  
**Acc. No.** : T00537
4. **Title** : Development of antibacterial surface coatings  
**Author** : Majhi, Sasmita  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 667 MAJ  
**Acc. No.** : T00546

## MATHEMATICS

1. **Title** : Studies on existence questions of solution to singular elliptic PDEs  
**Author** : Kumar, Dharmendra  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 510 KUM  
**Acc. No.** : T00556

## MECHANICAL ENGINEERING

1. **Title** : Control of optimal growth of instabilities in fluid flows  
**Author** : Kant, Ravi  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 620.106 KAN  
**Acc. No.** : T00536
2. **Title** : Experimental insights on wettability induced enhancement in confined and unconfined pool boiling heat transfer  
**Author** : Sarode, Ajinkya Ashok  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 621.4022 SAR  
**Acc. No.** : T00551

## PHYSICS

1. **Title** : Synthetic magnetic fields and multi-component BECs in optical lattices  
**Author** : Bai, Rukmani  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 530 BAI  
**Acc. No.** : T00545
2. **Title** : Test of new physics at neutrino telescopes  
**Author** : Chauhan, Bhavesh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 530 CHA  
**Acc. No.** : T00563

3. **Title** : Structured beam optical parametric oscillators  
**Author** : Sharma, Varun  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 530 SHA  
**Acc. No.** : T00573
  
4. **Title** : Quantum phase transitions of Bose gases confined in 2D harmonic traps and optical lattices  
**Author** : Bandyopadhyay, Soumik  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 530.12 BAN  
**Acc. No.** : T00567
  
5. **Title** : Aspects of black hole thermodynamics in general relativity & beyond  
**Author** : Fairoos C.  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 530.14 FAR  
**Acc. No.** : T00571
  
6. **Title** : Matter under extreme conditions and transport coefficients of hot and dense matter  
**Author** : Abhishek, Aman  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 536.41 ABH  
**Acc. No.** : T00562
  
7. **Title** : (Semi) leptonic rare decays of B mesons as probes of the standard model and beyond  
**Author** : Kindra, Bharti  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 539.7 KIN  
**Acc. No.** : T00564
  
8. **Title** : Some aspects of low scale seesaw models  
**Author** : Vishnudath, K. N.  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 539.7 VIS  
**Acc. No.** : T00565
  
9. **Title** : Twisted single photons and their applications in quantum information processing  
**Author** : Lal C.K., Nijil  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 539.7 LAL  
**Acc. No.** : T00566

# LIST OF M. TECH THESES

# LIST OF M.Tech THESES

## BIOLOGICAL ENGINEERING

- Title** : Investigating the regulatory mechanism of a mitotic kinesin-3 motor  
**Author** : Siva M, Aravintha  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.6 SIV  
**Acc. No.** : T00603
- Title** : Investigating the dominant negative effects of phospho-site mutants of CGGBP1  
**Author** : Hariharan, Arthi  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.6 HAR  
**Acc. No.** : T00604
- Title** : Effect of tau-derived PHF6 aggregates on microglial inflammation & autophagy  
**Author** : Panda, Chinmaya  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.6 PAN  
**Acc. No.** : T00605
- Title** : Understanding the role of kinesin-3 motor GAKIN in endocytic pathway  
**Author** : Sharma, Surabhi  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.6 SHA  
**Acc. No.** : T00611
- Title** : Investigation on ligand-receptor interaction of THAP9 homologs via molecular modelling and docking  
**Author** : Nepal, Dibyadarsi  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.6 NEP  
**Acc. No.** : T00612
- Title** : Quantifying the effect of selected mutations on the translational velocity of KIF1A motor by using stochastic models and structural information  
**Author** : Mukherjee, Rupsha  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.6 MUK  
**Acc. No.** : T00613
- Title** : Investigation of G-quadruplex formation in the promoter of MDM2 Gene  
**Author** : Sharma, Kuldeep  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.8 SHA  
**Acc. No.** : T00608

8. **Title** : IMPDH as a drug target for H. pylori infection: validating zebra fish model  
**Author** : Saxena, Pragati  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 572.8 SAX  
**Acc. No.** : T00609
9. **Title** : Spatio-temporal interactome & cellular dynamics of epidermal growth factor receptor  
**Author** : Kharbanda, Sumit  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 614.4 KHA  
**Acc. No.** : T00610
10. **Title** : Cloning, expression, purification and characterization studies of helicobacter pylori IMPDH  
**Author** : Banerjee, Hoime  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 616.33 BAN  
**Acc. No.** : T00607
11. **Title** : Receptor desialylation as a switch for cancer metastasis through galectin and EGFR  
**Author** : Ghosh, Debarpan  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 616.99 GHO  
**Acc. No.** : T00606

## CHEMICAL ENGINEERING

1. **Title** : Low temperature CO<sub>2</sub> capture using amine functionalized silica aerogel and its kinetics  
**Author** : Sharma, Kanchan  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 660 SHA  
**Acc. No.** : T00583
2. **Title** : Titanium diboride (TiB<sub>2</sub>) based nanosheets as an active anode material for ultra-fast and long-life Li-ion batteries  
**Author** : Varma, Akash  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 660 VAR  
**Acc. No.** : T00614
3. **Title** : Cognitive engineering approaches to enhance control room operator capabilities in chemical industries  
**Author** : Choudhary, Mahendra Jagdish  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 660 CHO  
**Acc. No.** : T00615
4. **Title** : Design of cellular solids for acoustic noise cancellation: a lattice boltzmann approach  
**Author** : Zope, Rajat Sunil  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 660 ZOP  
**Acc. No.** : T00616

5. **Title** : Co-solvent exfoliation of layered titanium diboride into few-layer-thick nanosheets  
**Author** : Patidar, Rishabh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 660 PAT  
**Acc. No.** : T00617
  
6. **Title** : Molecular dynamics simulations study of polyelectrolyte adsorption on charged surfaces  
**Author** : Chatterjee, Samyabrata  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 660 CHA  
**Acc. No.** : T00618
  
7. **Title** : Kinetics of dissolution of antibubble in an air saturated aqueous medium  
**Author** : Deshmukh, Saurabh D.  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 660 DES  
**Acc. No.** : T00619
  
8. **Title** : Synthesis and stability of monodispersed protein microbubbles using microfluidic T-junction device  
**Author** : Surwase, Swarupkumar  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 660 SUR  
**Acc. No.** : T00620
  
9. **Title** : Metal-based nanomats as catalyst for self-oscillating belousov-zhabotinsky reactions  
**Author** : Sharma, Vishesh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 660 SHA  
**Acc. No.** : T00621
  
10. **Title** : High internal phase emulsion using globular protein ovalbumin  
**Author** : Patel, Krushan  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 660 PAT  
**Acc. No.** : T00622
  
11. **Title** : Measurement-based real-time optimization of wastewater treatment plants  
**Author** : Haq, Ahteshamul  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 660 HAQ  
**Acc. No.** : T00623
  
12. **Title** : Synthesis of optimal schedule and water network for a multipurpose multiproduct textile industry through a sequential MILP-NLP technique  
**Author** : Alam, Md Nasre  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 660 ALA  
**Acc. No.** : T00624
  
13. **Title** : Multi objective process optimization of natural gas tri-reformer in tubular and spherical packed bed reactors  
**Author** : Ahmed, Md Zafar



**Publisher** : Gandhinagar: Indian Institute of Technology, 2020

**Call No.** : 660 AHM

**Acc. No.** : T00625

14. **Title** : Development of optimal schedule and water network for multistage multi product textile dyeing batch plant using genetic algorithm

**Author** : Nema,Ayush

**Publisher** : Gandhinagar: Indian Institute of Technology, 2020

**Call No.** : 667.2 NEM

**Acc. No.** : T00581

## CIVIL ENGINEERING

1. **Title** : Revisiting seismic design philosophy of RC beam-column joints and assessment of revised Indian standard

**Author** : Lakhani, Mohit

**Publisher** : Gandhinagar: Indian Institute of Technology, 2019

**Call No.** : 624 LAK

**Acc. No.** : T00584

2. **Title** : Developing a device to reduce carbon dioxide emission from vehicle exhaust gas

**Author** : Sarkar, Prerna

**Publisher** : Gandhinagar: Indian Institute of Technology, 2020

**Call No.** : 624 SAR

**Acc. No.** : T00590

3. **Title** : Propagation of meteorological to hydrological droughts in India

**Author** : Bhardwaj, Kunal

**Publisher** : Gandhinagar: Indian Institute of Technology, 2020

**Call No.** : 624 BHA

**Acc. No.** : T00594

4. **Title** : Development of a novel magnetic nano- geopolymer to reduce the impact of landfill leachate on groundwater

**Author** : Pradhan, Nivedita

**Publisher** : Gandhinagar: Indian Institute of Technology, 2020

**Call No.** : 624 PRA

**Acc. No.** : T00599

5. **Title** : Boundary effects in 3-d seismic analysis and spring constant for 1-D simplified model for soil-pile system

**Author** : Srusti, Bala Harsha Teja

**Publisher** : Gandhinagar: Indian Institute of Technology, 2020

**Call No.** : 624.1 SRU

**Acc. No.** : T00576

6. **Title** : Dynamic behavior and characteristic failure response of low plasticity cohesive soil

**Author** : Thakur, Adarsh

**Publisher** : Gandhinagar: Indian Institute of Technology, 2020

**Call No.** : 624.1 THA

**Acc. No.** : T00591

7. **Title** : Conceptual design to shop-detailing of a self-equilibrating structural loading frame: adaptable vertical and horizontal single-acting actuators  
**Author** : Reddy, Avisina Charitej  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.1 RED  
**Acc. No.** : T00592
8. **Title** : Evaluation of impact plate geophone system (IPGS) for bedload measurement  
**Author** : Kumar, Deepak  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.1 KUM  
**Acc. No.** : T00593
9. **Title** : Runoff sensitivity of Indian sub-continental river basins  
**Author** : Bharat, Shalinee  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.1 BHA  
**Acc. No.** : T00601
10. **Title** : Reinforcement configurations for GRS abutment wall  
**Author** : Khandelwal, Gaurav  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.17 KHA  
**Acc. No.** : T00582
11. **Title** : Effect of stress history on monotonic and cyclic shear behavior of Fatehgarh dam soil  
**Author** : Mukati, Tanaya  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.17 MUK  
**Acc. No.** : T00597
12. **Title** : Effect of stress ratio on shear behavior of earthen dam soils under monotonic and cyclic simple shear loading conditions  
**Author** : Gujrati, Sheetal  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.171 GUJ  
**Acc. No.** : T00596
13. **Title** : Static and seismic performance of barrage foundation with cutoff wall  
**Author** : Masoori, Satish  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.1762 MAS  
**Acc. No.** : T00598
14. **Title** : Modeling and analysis of square tubular steel beams subjected to transverse blast loads using the material point method  
**Author** : Khatri, Rahul  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.1772 KHA  
**Acc. No.** : T00600
15. **Title** : New concept of augmenting steel plate shear wall with auxetic structure to enhance its energy dissipation

- Author** : Shankar, Ravi  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.1776 SHA  
**Acc. No.** : T00587
16. **Title** : Multi-physics modeling of effect of blast on a steel column protected with polyurethane foam  
**Author** : Mathur, Manu  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.18 MAT  
**Acc. No.** : T00595
17. **Title** : Confined masonry buildings: evaluation of modal properties using ambient vibration testing  
**Author** : Chakra Varthy, B Pranav  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 624.183 CHA  
**Acc. No.** : T00602
18. **Title** : Influence of polyvinyl methyl ether on hydration of cement and high-temperature behaviour of cement mortar  
**Author** : Nikhil O  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.1833 NIK  
**Acc. No.** : T00585
19. **Title** : Fire resistance of concrete filled steel tube columns protected by intumescent coating  
**Author** : Patidar, Prajjwal  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.18341 PAT  
**Acc. No.** : T00586
20. **Title** : Seismic coefficients for pseudo-static analysis of wrap faced geosynthetic reinforced soil walls  
**Author** : Sharma, Sukrit  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.18341 SHA  
**Acc. No.** : T00588
21. **Title** : Properties assessment of high-performance fiber-reinforced concrete (HPFRC)  
**Author** : Goyal, Yash  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.18341 YAS  
**Acc. No.** : T00589

## COMPUTER SCIENCE AND ENGINEERING

1. **Title** : EEG pattern identification from convolutional neural networks  
**Author** : Sonawane, Dhananjay  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 SON  
**Acc. No.** : T00626
2. **Title** : Solar energy forecasting using machine learning  
**Author** : Kumar, Karan  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 KUM  
**Acc. No.** : T00627
3. **Title** : Single edge fault tolerant source-wise multiplicative spanner  
**Author** : Chugh, Krishan Kant  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 CHU  
**Acc. No.** : T00628
4. **Title** : Deep learning approach for medical imaging  
**Author** : Yadav, Kushpal Singh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 YAD  
**Acc. No.** : T00629
5. **Title** : Purely additive fault tolerant spanners in undirected graph  
**Author** : Upadhyaya, Neelay  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 UPA  
**Acc. No.** : T00630
6. **Title** : Designing NVM tiered storage system using block traces  
**Author** : Upadhyay, Prathamesh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 UPA  
**Acc. No.** : T00631
7. **Title** : Compressing pre-trained neural network  
**Author** : Choudhuri, Roop  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 CHO  
**Acc. No.** : T00632
8. **Title** : Analyzing the NLP conferences  
**Author** : Chowdhury, Sayak  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 CHO

- Acc. No.** : T00633
9. **Title** : Estimation of PM2.5 using satellite and meteorological data  
**Author** : Roy, Souvik  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 ROY  
**Acc. No.** : T00634
10. **Title** : Study of multilingualism and code-mixing of the low resource languages  
**Author** : Srivastava, Vivek  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 SRI  
**Acc. No.** : T00635
11. **Title** : Deep HDR-GIF and HDR video from LDR content  
**Author** : Kumar, Chandan  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 KUM  
**Acc. No.** : T00636
12. **Title** : Deep over and under exposed region detection  
**Author** : Jain, Darshita  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 JAI  
**Acc. No.** : T00637
13. **Title** : Identifying sleeping beauty authors in the scientific network  
**Author** : Kundu, Soumita  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 004 KUN  
**Acc. No.** : T00638

## EARTH SCIENCE

1. **Title** : Understanding the erosion in the north-western Himalayas  
**Author** : Vashistha, Anushka  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 555 VAS  
**Acc. No.** : T00663
2. **Title** : Flume based analysis of pit migration in sand-bed river channel: implications towards sand mining in river channels  
**Author** : Tripathi, Indra Mani  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 551.3 TRI  
**Acc. No.** : T00664
3. **Title** : Studying sediment and pollution transport in Sabarmati river, India, using HEC-RAS  
**Author** : Rex, Julianna  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 628.168 REX

**Acc. No.** : T00578

4. **Title** : Efficacy of green materials based permeable reactive barrier for in-situ groundwater remediation  
**Author** : Thakur, Alok Kumar  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 628.168 THA  
**Acc. No.** : T00662

## ELECTRICAL ENGINEERING

1. **Title** : Navigation and control of mobile robots using overhead visual odometry  
**Author** : Ucheniya, Ajay Kumar  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 UCH  
**Acc. No.** : T00639
2. **Title** : 3D geometry processing for point cloud registration and region filling  
**Author** : Kumar, Ashish  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 KUM  
**Acc. No.** : T00640
3. **Title** : Design and analysis of deep neural networks for image synthesis, relighting, and small object detection  
**Author** : Tiwari, Ashish  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 TIW  
**Acc. No.** : T00641
4. **Title** : Application-centric efficient SRAM/CAM/TCAM memory design  
**Author** : Datta, Diptesh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 DAT  
**Acc. No.** : T00643
5. **Title** : Robust learning strategies for adaptive room equalization  
**Author** : Kumar, Krishna  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 KUM  
**Acc. No.** : T00644
6. **Title** : Source camera identification for thermal images using photo response non-uniformity (PRNU)  
**Author** : Bhadani, Neha  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 BHA  
**Acc. No.** : T00645
7. **Title** : Wind noise reduction in hearables: a data driven approach  
**Author** : Singh, Deepanshu  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020

- Call No.** : 621.3897 SIN  
**Acc. No.** : T00642
8. **Title** : Investigating the analog performance of FinFETs in sub-10nm Wf in regime by analyzing the drain saturation Voltage (VDS,SAT )  
**Author** : Jain,Shubham  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3746 JAI  
**Acc. No.** : T00646
9. **Title** : Energy-efficient sense amplifier designs using different replica circuits  
**Author** : Maurya, Surendra Kumar  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3815 MAU  
**Acc. No.** : T00647
10. **Title** : Crater classification and detection using machine learning based approaches  
**Author** : Prasad, Vishal Ranjan  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 PRA  
**Acc. No.** : T00648
11. **Title** : Design of memory compiler for embedded memories  
**Author** : Tiwari, Gyanendra K.  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 TIW  
**Acc. No.** : T00649
12. **Title** : Framework for synchronous to asynchronous design conversion  
**Author** : Sah, Jitesh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 SAH  
**Acc. No.** : T00650
13. **Title** : Design of LDO for low power biomedical applications  
**Author** : Pothal, Rakesh Kumar  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 POT  
**Acc. No.** : T00651
14. **Title** : Development and validation of compact models for LDMOS transistor with channel doping gradient  
**Author** : Patil, Shubham  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 PAT  
**Acc. No.** : T00653
15. **Title** : Peer to peer energy trading platform: hardware and software integration  
**Author** : Chauhan, Anandsingh P.  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 CHA  
**Acc. No.** : T00654

16. **Title** : Parametric analysis based identification of yield detractor patterns from ULSI layouts  
**Author** : Nath, Biplob  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 NAT  
**Acc. No.** : T00656
17. **Title** : Modular induction stove design for Indian cookware  
**Author** : Dadsena, Kaushal  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 DAD  
**Acc. No.** : T00658
18. **Title** : Design of robust and low power signal processing circuit for CCD image sensor  
**Author** : Dewangan, Piyush  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 DEW  
**Acc. No.** : T00659
19. **Title** : Design and optimization of high voltage (HV) drain extended FinFET transistors for analog SoC applications  
**Author** : Pal, Priyanjana  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 PAL  
**Acc. No.** : T00660
20. **Title** : Enhanced regenerative braking for electric vehicles using ultracapacitor  
**Author** : Agrawal, Roshni  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.3 AGR  
**Acc. No.** : T00661
21. **Title** : Intelligent power management system (IPMS) and health monitoring framework for electrical loads in armored fighting vehicles  
**Author** : Agarwal, Deepesh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.31 AGA  
**Acc. No.** : T00657
22. **Title** : Co-optimizing energy and quality using approximate designs and techniques  
**Author** : Nandi, Ankita  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.38 NAN  
**Acc. No.** : T00655
23. **Title** : 3D shape completion using variational inference and continuous normalizing flow based approach  
**Author** : Garg, Shubham  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 621.3822 GAR  
**Acc. No.** : T00652



## MATERIALS ENGINEERING

- Title** : Mechanical property prediction in age hardened magnesium binary alloys  
**Author** : Sarmah, Sidharth  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.11 SAR  
**Acc. No.** : T00685
- Title** : Development of antibacterial surface composite by friction stir processing and aluminium 1050 as matrix  
**Author** : Gautam, Sudha  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.11 GAU  
**Acc. No.** : T00686
- Title** : Hot deformation of IN718: modelling and experimental validation  
**Author** : Yadav, Gaurav Anilkumar  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.11 YAD  
**Acc. No.** : T00687
- Title** : Study on wetting transition in metals: an approach towards grain boundary segregation  
**Author** : Tiwari, Priya  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 620.16 TIW  
**Acc. No.** : T00682
- Title** : Effect of doping copper-metal organic frameworks with emphasis on hydrostability and Lead ion removal capacity  
**Author** : Jaiswal, Ankit  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 620.18 JAI  
**Acc. No.** : T00680
- Title** : Surface study of Cu<sub>2</sub>SnS<sub>3</sub> using first principle density functional theory  
**Author** : Dahule, Rohit Sanjay  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.44 DAH  
**Acc. No.** : T00684
- Title** : Optimization of the tool dimensions and process parameters for friction stir welding of AA2219 and thermal analysis using numerical simulation  
**Author** : Srivastava, Akshay  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 671.52 SRI  
**Acc. No.** : T00679

8. **Title** : Study of the antibacterial and mechanical properties of peptide modified LDPE films for food packaging applications  
**Author** : Mittalbhaj, Trivedi Pranav  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2019  
**Call No.** : 620.8 MIT  
**Acc. No.** : T00681
9. **Title** : Failure detection of bioimplants using stable tracers in vitro: a pathway for implant health diagnosis  
**Author** : Pidathala, Ranga Teja  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.8 PID  
**Acc. No.** : T00683
10. **Title** : Development of cellulose based bionano composites scaffold by using zirconia and magnetite nanoparticles for bone tissue engineering  
**Author** : Soni, Saurabh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.8 SON  
**Acc. No.** : T00688
11. **Title** : Oxidation of ferrochrome slag using CO<sub>2</sub>: a possible O<sub>2</sub> carrier in CLC process  
**Author** : Das, Swagat  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.1 DAS  
**Acc. No.** : T00689
12. **Title** : Comparative intergranular corrosion susceptibility studies of retrogression & reaged 7075 Al alloy  
**Author** : Srivastava, Nishkarsh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.11 SRI  
**Acc. No.** : T00690

## MECHANICAL ENGINEERING

1. **Title** : Dynamics and control of quadrotor carrying cable suspended load  
**Author** : Lanje, Saurabh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620 LAN  
**Acc. No.** : T00577
2. **Title** : Porous electrodes with directionally aligned macro pores for higher energy density Li ion batteries  
**Author** : Mathur, Rishabh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.1 MAT  
**Acc. No.** : T00575

3. **Title** : Dynamical analysis of liquid sloshing employing phenomenological mechanical model  
**Author** : Choudhury, Arunav  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.1 CHO  
**Acc. No.** : T00580
4. **Title** : Computation of surface free energies of aluminum by molecular dynamics simulations  
**Author** : Thosare, Ruchi  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.1 THO  
**Acc. No.** : T00673
5. **Title** : Control implementation on cool flame vaporizer for diesel auto-thermal reforming  
**Author** : Narendra, Challa Sai Ajay  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.1 NAR  
**Acc. No.** : T00674
6. **Title** : Design and performance analysis of a cool flame vaporiser for diesel auto-thermal reformers  
**Author** : Krishnan R, Hemanth  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.1 KRI  
**Acc. No.** : T00672
7. **Title** : Dam break flow past a circular cylinder in a meandering channel  
**Author** : Bauskar, Dinesh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.106 BAU  
**Acc. No.** : T00670
8. **Title** : Optimal control of growth of instabilities in Taylor Couette flows  
**Author** : Dandelia, Harvansh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.106 DAN  
**Acc. No.** : T00671
9. **Title** : Mechanical and acoustic characterization of polymeric foams  
**Author** : Verma, Devki  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 620.2 VER  
**Acc. No.** : T00668
10. **Title** : Analytical investigation on eccentric Taylor Couette flow in low Reynolds number regime  
**Author** : Abhimanyu  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621 ABH  
**Acc. No.** : T00579

11. **Title** : Optimal operation of air gap distillation coupled with solar thermal heat input  
**Author** : Ahmad, Aqbal  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.4022 AHM  
**Acc. No.** : T00676
12. **Title** : Standardization of Delta C mechanical filler machine  
**Author** : Kumar, Chandan  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.8 KUM  
**Acc. No.** : T00666
13. **Title** : Roe-based numerical scheme for calorically imperfect multispecies shock tube problem  
**Author** : Dubey, Deepam  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.8 DUB  
**Acc. No.** : T00667
14. **Title** : Technology upgradation for increasing reliability of filler machine  
**Author** : Shrivastava, Dewansh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 621.8 SHR  
**Acc. No.** : T00669
15. **Title** : Nonlinear modal interactions in inflated beam structure  
**Author** : Kumar, Sanjeev  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 624.1 KUM  
**Acc. No.** : T00665
16. **Title** : Study of hydrodynamics and sediment transportation at Coastal Dahej, Gulf of Khambhat, India  
**Author** : Patel, Rishabh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 627.122 PAT  
**Acc. No.** : T00677
17. **Title** : Study of hydrodynamics and sediment transportation at coastal Hazira, Bay of Khambhat, Gujarat  
**Author** : Upadhyay, Utkarsh  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 627.122 UPA  
**Acc. No.** : T00678
18. **Title** : Effect of surfactant on the settling of a drop towards a wall  
**Author** : Jadhav, Sayali Nitin  
**Publisher** : Gandhinagar: Indian Institute of Technology, 2020  
**Call No.** : 668.1 JAD  
**Acc. No.** : T00675