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List of Ph.D. & M. Tech Theses

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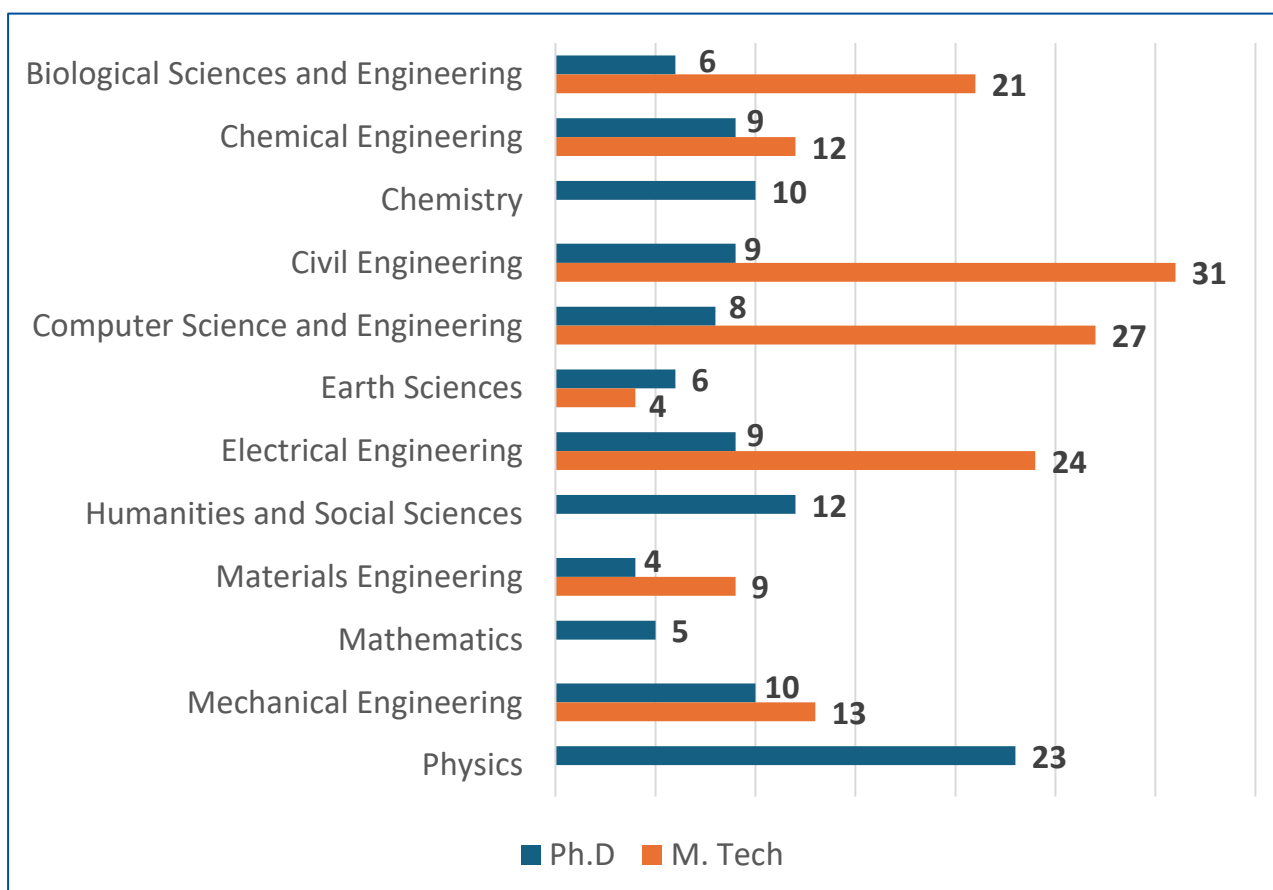
Theses 2025 Facts

- Theses at a glance

Program	No. of Theses
Ph.D.	111
M. Tech.	141
Total	252

- Department wise Ph.D. & M.Tech Theses

Department	Ph.D	M. Tech
Biological Sciences and Engineering	6	21
Chemical Engineering	9	12
Chemistry	10	
Civil Engineering	9	31
Computer Science and Engineering	8	27
Earth Sciences	6	4
Electrical Engineering	9	24
Humanities and Social Sciences	12	
Materials Engineering	4	9
Mathematics	5	
Mechanical Engineering	10	13
Physics	23	
Total	111	141



List of Ph.D. Theses

Biological Sciences and Engineering

Title : [Implications of charge neutralizing post-translational modifications in TDP43 and TMEM106B proteinopathies](#)

Author : Bhavsar, Krishna

Roll No. : 17310020

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 616.83 BHA

Acc. No. : T01297

Title : [G-quadruplexes in MTOR, pancreatic cancer~dysregulated lncRNAs and bacterial small RNAs](#)

Author : Shukla, Chinmayee

Roll No. : 18310015

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 616.9 SHU

Acc. No. : T01306

Title : [Synthesis of Carbon-based fluorescent Nanoparticles and their application in bioimaging](#)

Author : Singh, Udisha

Roll No. : 18310071

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 620.115 SIN

Acc. No. : T01316

Title : [Programmable, carbon-based nanoparticles for applications in targeted bioimaging and therapeutics](#)

Author : Yadav, Pankaj

Roll No. : 19210012

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 610.28 YAD

Acc. No. : T01321

Title : [Ultrasound shear wave imaging for assessing viscoelastic properties: in vitro and ex vivo assessment](#)

Author : Bisht, Sapna Ranjeetsingh

Roll No. : 19310058

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 616.0754 BIS

Acc. No. : T01352

Title : [Targeted applications of tetrahedral DNA nanocages in cancer targeting, immunotherapy and neurotransmitter release](#)

Author : Vaswani, Payal

Roll No. : 20310003

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 660.6 VAS

Acc. No. : T01387

Chemical Engineering

Title : [Microfluidic T-junction devices for the generation of single and multi-layered microbubbles](#)
Author : Khan, Aaqib Haroon
Roll No. : 17210001
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 620.5 KHA
Acc. No. : T01291

Title : [\$\kappa\$ -Carrageenan hydrogels, beads, emulsion gels as functional materials - rheology, 3D extrusion printing, and applications](#)
Author : Patel, Panchami
Roll No. : 18310029
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 547.75 PAT
Acc. No. : T01308

Title : [Physicochemical interfaces offered by quasi two-dimensional nanostructures derived from metal diborides: fundamental and applied studies](#)
Author : Chakrabarty, Satadru
Roll No. : 18310068
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 620.112 CHA
Acc. No. : T01314

Title : [Functionalization of Microbubbles for biomedical and environmental applications](#)
Author : Teja, Guduru Aditya
Roll No. : 19310003
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 660.6 TEJ
Acc. No. : T01322

Title : [Engineered polymer formulations for wound healing and drug delivery](#)
Author : Kumawat, Akshant
Roll No. : 19310004
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 610.28 KUM
Acc. No. : T01323

Title : [Investigating the role of charged residues in protein structural dynamics and adsorption](#)
Author : Singh, Nitin Kumar
Roll No. : 19310005
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 547.7 SIN
Acc. No. : T01324

Title : [Engineering quasi-2D titanium diboride nanostructures: scalable synthesis, polymer composites, and functional surface coatings](#)
Author : Gaykwad, Bhagyashri
Roll No. : 19310059
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 660.284 GAY
Acc. No. : T01353

Title : [Minimally functionalized nanosheets derived from AlB₂ -type metal borides: synthesis, electrocatalytic, and dielectric studies](#)
Author : Rasyotra, Anshul
Roll No. : 19350001
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 620.11 RAS
Acc. No. : T01383

Title : [Pattern formation in electro-responsive polymer ionic liquid blends](#)
Author : Choudhury, Ashima
Roll No. : 19350002
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 620.192 CHO
Acc. No. : T01384

Chemistry

Title : [Co-assembled complexes of charged peptides with pharmaceuticals: structure-function correlation and emergent antibacterial activity](#)

Author : Choubey, Rinku

Roll No. : 18310036

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 572.6 CHO

Acc. No. : T01310

Title : [Investigating the copper based unsupported and supported electrocatalysts for electrochemical CO₂ reduction: utilizing La_{0.8}Sr_{0.2}CoO₃ as a potential support](#)

Author : Dhakar, Shikha

Roll No. : 18310070

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 541.372 DHA

Acc. No. : T01315

Title : [Design, synthesis and DFT studies of Metalloporphyrins and Thiaporphyrins towards application in photocatalytic organic transformations](#)

Author : Anu

Roll No. : 19310006

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 541.3 ANU

Acc. No. : T01325

Title : [Capturing the ring conformational dynamics of hexopyranoses: polarization effects, force field refinements and quantum mechanical investigations](#)

Author : Chythra J. N.

Roll No. : 19310007

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 541.39 JNC

Acc. No. : T01326

Title : [Targeting metabolic enzymes \(HpIMPDH and PaG6Pi\) to develop effective therapy for bacterial infections](#)

Author : Haritha D

Roll No. : 19310009

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 574.192 HAR

Acc. No. : T01327

Title : [Targeting a kinase and a phosphatase in cancer therapy: insights into tousel-like kinase \(TLK1\) and protein tyrosine phosphatase \(PTP-PEST\)](#)

Author : George, Johnson Delna J K

Roll No. : 19310011

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 572.87 GEO

Acc. No. : T01328

Title : [Synthesis and application of chiral secondary amine organocatalysts](#)
Author : Kumar, Rohtash
Roll No. : 19310012
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 547.59 KUM
Acc. No. : T01329

Title : [Boosting water electrolysis with anodic valorization of organic substrates and correlating it with aerobic oxidation](#)
Author : Behera, Snehanjali
Roll No. : 19310013
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 541.37 BEH
Acc. No. : T01330

Title : [Design of 3rd generation Pyrrole based theranostic agents: synthesis and pharmacological studies for anticancer application in PDT](#)
Author : Chavda, Jaydeepsinh Pravinsinh
Roll No. : 19310061
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 547.594 CHA
Acc. No. : T01354

Title : [Design and synthesis of \$\pi\$ -conjugated donor-acceptor styryl dyes for subcellular and tissue imaging](#)
Author : Rajput, Deeksha
Roll No. : 20310010
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 547.7 RAJ
Acc. No. : T01388

Civil Engineering

Title : [Additive manufacturing of concrete for civil and military applications](#)
Author : Shekhar, Shashank
Roll No. : 15310056
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 620.1 SHE
Acc. No. : T01287

Title : [Dynamic response of local available sustainable resource \(LASR\) materials](#)
Author : Shrivastava, Aparna
Roll No. : 17250006
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 620.92 SHR
Acc. No. : T01296

Title : [Thermo-mechanical analysis and design of aluminium structural systems subjected to fire](#)
Author : Yadav, Dravesh
Roll No. : 18310018
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 624.18 YAD
Acc. No. : T01307

Title : [Drivers of hydrological flash droughts in India](#)
Author : Singh, Rajesh
Roll No. : 18350005
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 551.577 SIN
Acc. No. : T01320

Title : [2D and 3D characterization of desiccation cracking in compacted expansive soils using digital image processing](#)
Author : Agarwal, Brijesh Kumar
Roll No. : 19310015
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 624.15 AGA
Acc. No. : T01331

Title : [Augmenting machine learning with physics-based approaches for improved predictability and interpretability in the hydrological model with and without management at scales](#)
Author : Bhasme, Pravin Vasudev
Roll No. : 19310017
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 627.1 BHA
Acc. No. : T01332

Title : [A novel framework for developing ground motion prediction models consistent with critical orientation and its implementation in seismic performance assessment](#)

Author : Vats, Falak

Roll No. : 19310063

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 624.1 VAT

Acc. No. : T01355

Title : [A systems approach to multi-hazard impacts on road networks using optimization, network functionality, and dynamic traffic rerouting](#)

Author : Dave, Raviraj

Roll No. : 19310064

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 625.7 DAV

Acc. No. : T01356

Title : [Liquefaction resistance, cyclic degradation and small-strain shear modulus response of compacted pond ash with varying bottom ash content](#)

Author : Teli. Sujay Vipulbhai

Roll No. : 19350005

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 624.1 TEL

Acc. No. : T01385

Computer Science and Engineering

Title : [Fair and efficient resource allocation: algorithms and computational complexity](#)
Author : Sethia, Aditi
Roll No. : 17510005
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 005.13 SET
Acc. No. : T01300

Title : [Online binary search trees: insights from pattern avoidance and group access bounds](#)
Author : Pareek, Akash
Roll No. : 19310021
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 005.73 PAR
Acc. No. : T01333

Title : [On computing optimal representations of finite groups](#)
Author : Thakkar, Dharaben Rmaeshbhai
Roll No. : 19310023
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 005.1 THA
Acc. No. : T01334

Title : [Exploring health and wellness through respiratory sensing](#)
Author : Adhikary, Rishiraj
Roll No. : 19310024
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 610.285 ADH
Acc. No. : T01335

Title : [Datasets, models, and tools for scholarly documents](#)
Author : Singh, Shruti
Roll No. : 19310025
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 006.3 SIN
Acc. No. : T01336

Title : [Fault tolerant distance oracles](#)
Author : Dey, Dipan
Roll No. : 19310065
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 005.73 DEY
Acc. No. : T01357

Title : [Diverse solutions, modifying graph eigenvalues and bounded-width ABPs](#)
Author : Harshil M
Roll No. : 19310066
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 005.1 HAR

Acc. No. : T01358

Title : [On dynamic weight generation and context switching in deep learning](#)

Author : Sawant, Shriraj

Roll No. : 19350006

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 006.31 SAW

Acc. No. : T01386

Earth Sciences

Title : [Hydro-morphological analysis of a Himalayan River with special reference to stream management: a case study of the Yamuna River System, India](#)

Author : Karnatak, Nikita

Roll No. : 19310027

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 551.48 KAR

Acc. No. : T01337

Title : [Quantifying nutrient pollution in agricultural systems, restructuring strategies for its management and assessing implications on trade networks](#)

Author : Goyal, Shekhar Sharan

Roll No. : 19310070

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 551.49 GOY

Acc. No. : T01359

Title : [Carbon and nitrogen assimilation rates in aquatic ecosystems](#)

Author : Rath, Km Ajayeta

Roll No. : 19330002

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 577.63 RAT

Acc. No. : T01367

Title : [Spatiotemporal analysis of Indian summer monsoon rainfall variability: identifying multi-decadal trends, trend reversals, and the underlying factors](#)

Author : Chakra, Swagatika

Roll No. : 19330003

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 551.577 CHA

Acc. No. : T01368

Title : [Understanding the Lunar deformations: insights from impact cratering, magmatism, and tectonism](#)

Author : Basumatary, Kimi Khungree

Roll No. : 19330009

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 559.3 BAS

Acc. No. : T01373

Title : [Eastern limb of the moon through the lens of multi-ring basins: Insights from remote sensing data](#)
Author : Panwar, Neha
Roll No. : 19330013
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 523.31 PAN
Acc. No. : T01375

Electrical Engineering

Title : [Network-aware peer-to-peer energy trading in electrical distribution system](#)
Author : Suthar, Sachinkumar Babubhai
Roll No. : 17210088
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 621.31 SUT
Acc. No. : T01295

Title : [Automatic crater detection and shape retrieval from optical images and digital elevation maps using deep learning](#)
Author : Tewari, Atal
Roll No. : 18310009
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 621.36 TEW
Acc. No. : T01305

Title : [Nanosheet FET based CMOS technology for future electronics: challenges in sheet thickness scaling and solutions](#)
Author : Kaur, Ramandeep
Roll No. : 18310035
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 621.381 KAU
Acc. No. : T01309

Title : [Nonlinear imaging approaches for ultrasound image guidance and monitoring of histotripsy](#)
Author : Trivedi, Vishwas
Roll No. : 18310072
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 621 TRI
Acc. No. : T01317

Title : [Demand response frameworks for smart electrical distribution system](#)
Author : Tiwari, Abhishek
Roll No. : 19310029
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 621.31 TIW
Acc. No. : T01338

Title : [Rational design of phase change material-based active nanophotonic devices](#)
Author : Tripathi, Devdutt
Roll No. : 19310031
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 621.31 TRI
Acc. No. : T01339

Title : [Design, optimization and development of switched reluctance motor for cone crusher](#)
Author : Chakrabarty, Swasti Rani
Roll No. : 19310033
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 621.3 CHA
Acc. No. : T01340

Title : [Virtual sensing based head movement immune active headrest systems](#)
Author : Karthik, Munukutla L N S
Roll No. : 19310073
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 621.381 KAR
Acc. No. : T01360

Title : [Low complexity adaptive signal processing algorithms and architectures for audio signal processing](#)
Author : Ghosh, Shouharda
Roll No. : 22310074
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 621.3 GHO
Acc. No. : T01397

Humanities and Social Sciences

Title : [The making of a vegetarian city: food and the fashioning of modern hindu middle class identities in Ahmedabad](#)

Author : George, Jerene Sarah

Roll No. : 16310019

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2023

Call No. : 306.46 GEO

Acc. No. : T01290

Title : [Undh Chal Gaye: mobilities, place, and \(non\) human entanglements in Uttarakhand](#)

Author : Rai, Ayushi

Roll No. : 17310025

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 305.8 RAI

Acc. No. : T01298

Title : [Gender preferences and stereotypes in local communities: evidences from various Indian contexts](#)

Author : Sharma, Anupam

Roll No. : 17520004

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 305.3 SHA

Acc. No. : T01301

Title : [Re-conceptualizing old age through leisure: a time use study of age, gender and culture](#)

Author : Tripathi, Ashwin

Roll No. : 18310008

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 305.26 TRI

Acc. No. : T01304

Title : [Dwelling in the Rann: embodied place-making among agariyas \(salt cultivators\) in the little Rann of Kutch](#)

Author : Harchandani, Bhavna

Roll No. : 18310056

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 306.1 HAR

Acc. No. : T01311

Title : [Experiencing academic migration: agency and aspiration among tribal girls pursuing higher education in Rajasthan](#)

Author : Meena, Deepika Kumari

Roll No. : 18310058

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 371.82 MEE

Acc. No. : T01313

Title : [Kinship on the move: reeth, rented spaces, and ration cards among transgender people in a parivar in Kerala](#)
 Author : John, Nimisha
 Roll No. : 19310035
 Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
 Call No. : 306.76 JOH
 Acc. No. : T01341

Title : [Ecology, Language Ideology and the Discourse of Language Loss in the Nicobar Islands](#)
 Author : Vysakh R
 Roll No. : 19310037
 Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
 Call No. : 306.44 VYS
 Acc. No. : T01342

Title : [Food matters: shaping new gastronomic culture\(s\) in Western India, 1875-1947](#)
 Author : Tagare, Maithili
 Roll No. : 19310078
 Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
 Call No. : 641.3 TAG
 Acc. No. : T01361

Title : [Theatres of writing: from Artaud'S contagious passage to Mallarmé'S projective passage](#)
 Author : Tiwari, Parul
 Roll No. : 19310081
 Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
 Call No. : 842.9 TIW
 Acc. No. : T01362

Title : [Emotions, objects, and identities: mapping affective alienation in literary narratives from Assam](#)
 Author : Banerjee, Udit
 Roll No. : 19310083
 Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
 Call No. : 306.7 BAN
 Acc. No. : T01363

Title : [Risk assessment and conservation strategies of Gujarat Chalcolithic sites using remote sensing and Geographic Information System \(GIS\)](#)
 Author : Kadapa, Haritha
 Roll No. : 20310079
 Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
 Call No. : 934 KAD
 Acc. No. : T01393

Materials Engineering

Title : [Exploring the complex structure-property landscape in nacre-inspired biomimetic composites](#)

Author : Singh, Param Punj

Roll No. : 16210061

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 620.1 SIN

Acc. No. : T01288

Title : [An analysis of heterogeneous catalytic activity of transition metal - carbon composites and thiospinels towards electrochemical energy generation](#)

Author : Mohan, Ajay

Roll No. : 18310003

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025

Call No. : 621.3 MOH

Acc. No. : T01303

Title : [A reusable, substrate-independent polymer coating for long-term antibacterial application](#)

Author : Prajapati, Deepakkumar

Roll No. : 19310038

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 620.11 PRA

Acc. No. : T01343

Title : [Development of high visible and near-infrared transparent Ta:TiO₂-based electrode](#)

Author : Shukla, Shivam

Roll No. : 19310041

Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024

Call No. : 620.1 SHU

Acc. No. : T01344

Mathematics

Title : [Games on graphs and graphs from games](#)
Author : Nanoti, Saraswati Girish
Roll No. : 19310085
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 511.5 NAN
Acc. No. : T01364

Title : [Semi-finite bundles and fundamental group schemes](#)
Author : Hasmukhbhai, Adroja Pavan
Roll No. : 20310029
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 512.55 HAS
Acc. No. : T01389

Title : [Jet spaces and hodge theoretic results](#)
Author : Mishra, Rajat Kumar
Roll No. : 20310030
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 516.36 MIS
Acc. No. : T01390

Title : [A study of q-deformation of special orthogonal groups and their homogeneous spaces](#)
Author : Bhuva, Akshay
Roll No. : 20310041
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 512.57 BHU
Acc. No. : T01391

Title : [Voronoi-type summation identities and omega results for a class of arithmetical functions](#)
Author : Sahoo, Jagannath
Roll No. : 20310052
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 512.73 SAH
Acc. No. : T01392

Mechanical Engineering

Title : [Design and experimental characterization of a non-catalytic diesel autothermal reformer](#)
Author : Kumar, Ravinder
Roll No. : 16210074
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 620.16 KUM
Acc. No. : T01289

Title : [Investigations of Taylor-Couette flows in complex enclosures](#)
Author : Unnikrishnan, Akash
Roll No. : 17210005
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 532.5 UNN
Acc. No. : T01292

Title : [Modeling and simulation of combustion of metal-liquid oxidizer propellants](#)
Author : Kulkarni, Prasanna P
Roll No. : 17210069
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 629.47 KUL
Acc. No. : T01293

Title : [Human-aerial robot interaction for payload transportation](#)
Author : Prajapati, Pratik
Roll No. : 17210070
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 629.892 PRA
Acc. No. : T01294

Title : [Intermittent control in humans and for robots balancing on unstable platforms](#)
Author : Rao, Aishwarya Vinayak
Roll No. : 18310002
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 629.89 RAO
Acc. No. : T01302

Title : [Comparison and improvement of the energy efficiency of membrane technologies for brine separation](#)
Author : Gopalbhai, Patel Chirag
Roll No. : 19310044
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 621.042 GOP
Acc. No. : T01345

Title : [Active cooling load design for buildings in hot and dry climate: modelling and experimentation](#)
Author : Ahmad, Inzamam
Roll No. : 19310045
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 697.93 AHM
Acc. No. : T01346

Title : [Investigating reinforcement dynamics in extrusion based additive manufacturing](#)
Author : Mishra, Rajat
Roll No. : 19310046
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 621.03 MIS
Acc. No. : T01347

Title : [Improving the biocompatibility of Ti6Al4V implants using laser surface texturing](#)
Author : Gupta, Rohit
Roll No. : 19310047
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 620.1 GUP
Acc. No. : T01348

Title : [Flow regimes in spherical couette flow](#)
Author : Ananthu J P
Roll No. : 19310087
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
Call No. : 621.4 JPA
Acc. No. : T01365

Physics

Title : [Generation, characterization and application of vector vortex beams](#)
Author : Kumar P M, Subith
Roll No. : 17330032
Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2024
Call No. : 535.2 KUM
Acc. No. : T01299

Title : [Selective and tunable ion transport through the angstrom size fluidic channels of van der waal materials: from iontronics to energy generation](#)
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Biological Sciences and Engineering

Title : [N- terminal domain as the aggregation determinant: impact of acetylation and carbamylation on \$\alpha\$ -synuclein peptides](#)

Author : Kar, Aitijhya

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Title : [Site-specific & combinatorial effects of acetylation and phosphorylation on peptides derived from microtubule-binding domain of tau protein in alzheimer's disease](#)

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Author : Behera, Anwesha

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Chemical Engineering

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Civil Engineering

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Author : Poonia, Hemant

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Author : Mevawala, Jeet

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 Author : Sharma, Saurabh Kumar
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Author : Jahan, Rubayet Parvez
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Author : Jaiswal, Sushil Kumar
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Title : [Microstructural evolution and hydration mechanisms of GGBS activated with 5M sodium hydroxide](#)
Author : Valligatla, Venkata Siddeswara
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Author : Khachi, Anushka
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Title : [Influence of borax on the setting time and characterization of NaOH-activated GGBS-based geopolymers](#)

Author : Dey, Ashmita

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Author : Tamang, Choden

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Author : Khan, Faizy

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Title : [Thermal stability of alkali-activated GGBS using NaOH and LiOH as alkaline activators](#)

Author : Rai, Kritika

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Title : [Hydrological sensitivity analysis of glacier-fed Himalayan river basins](#)

Author : Tahir, Mohd Suhail

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Author : Rathor, Pragya

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Computer Science and Engineering

Title : [Development and curation of a comprehensive Nepali language dataset for NLP](#)

Author : Thakur, Rakesh

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Author : Yadav, Ankit

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 Author : Saxena, Anshika
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Author : Potta, Mukul Paras
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Publisher : Gandhinagar: Indian Institute of Technology Gandhinagar, 2025
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Acc. No. : T01473

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