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List of Ph.D. Theses

Mathematics

1. Title: Investigations on biharmonic boundary value problems with qualitative questions

Author: Dwivedi, Gaurav

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 515.353 DWI Acc. No.: T00217

Physics

2. Title: Viscoelastic properties of colloidal particles in liquid crystals and anchoring

transitions at interfaces Author: Kulkarni, Siddharth

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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3. Title: Physics beyond the standard model, LHC, and cosmology

Author: Hati, Chandan

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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Engineering

4. Title: Electronic transport properties of materials: the memory function approach

Author: Bhalla, Pankaj

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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Acc. No.: T00216

5. Title: Property improvement of fine pharmaceutical powders under varying humidity conditions through nano-coating

Author: Karde, Vikram Ashok

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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List of M.Tech Dissertations

Computer Science

1. Title: Eye movement as a predictor of cognitive ability

Author: Patel, Valay Paresh

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 004.019 PAT Acc. No.: T00259

2. Title: Distributed estimation in sparse heterogeneous networks

Author: Kumar, Kalyankar Shravan

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 004.6 KUM Acc. No.: T00238

3. Title: Visual object perception problems in computer vision

Author: Vora, Aditya Narendrabhai

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 006.37 VOR Acc. No.: T00223

Social Sciences

4. Title: Effect of crushing and strain rate on mechanical behaviour of

Gandhinagar fly ash Author: Gupta, Kanika

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 363.7288 GUP Acc. No.: T00229

5. Title: Numerical modeling of one dimensional fanno flow

Author: Patnaik, Akhil

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 533.2 PAT Acc. No.: T00264

6. Title: Plasmonic and all-dielectric metasurfaces based spectral filters

Author: Soni, Anurag

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 537.24 SON Acc. No.: T00233 7. Title: A reciprocal lattice model to study the crystallography of epitaxial

films

Author: Behera, Rakesh

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 548.85 BEH Acc. No.: T00246

8. Title: Impacts of climate change on water availability in snow dominated

river basins in Bhutan
Author: Gautam, Prakash

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 551.655498 GAU

Acc. No.: T00261

9. Title: On the development of an adaptive gait characterizer

Author: Mazumder, Aniket

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 612.76 MAZ Acc. No.: T00248

10. Title: Supression of vortex shedding in the wake of a bluff body by active

control

Author: Rath, Sidhartha

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 620.106 RAT Acc. No.: T00258

11. Title: Improvement of the mechanical properties of aluminium alloy

(AA2219) with large plastic deformation at ambient and cryogenic

temperatures
Author: Davinder

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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12. Title: Phase behaviour of polymer ionic liquid system subjected to external

electric field

Author: Agrawal, Anubha

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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for armored fighting vehicles

Author: Luxmi

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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14. Title: Optimization of channel geometry and thermal modeling of

miniaturized vanadium redox flow battery Author: Pinjari, Nehakausar Shaikhramjan

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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Acc. No.: T00254

15. Title: Design Optimization and structural analysis of module mounting

structure for canal top solar photo-voltaic system

Author: Chimane, Pratik Tulsiram

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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mode

Author: Kushwaha, Amarkumar Ayodhyasingh

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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SS dissimilar laser welding Author: Naskar, Niladri

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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18. Title: A real-time portable tunable diode laser spectroscopy system using the TMS320F28377D digital signal processor for gas sensing applications

Author: Sharma, Neetesh Kumar

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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Author: Deshpande, Ameya Dilip

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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performance

Author: Kumari, Neha

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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Acc. No.: T00242

21. Title: Design of a space grade KU * X band mixer using MMIC technology

Author: Gupta, Akash Nandlal

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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Acc. No.: T00236

22. Title: Ultra low power 14 bit successive approximation register analog to

digital converter for bio-medical applications

Author: Soni, Ashish

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 621.38159 SON

Acc. No.: T00234

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Author: Verma, Hemant Kumar

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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24. Title: Alarm management system for a gas based combine cycle power plant

Author: Sompura, Jay

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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Acc. No.: T00244

25. Title: Active noise cancellation in HVAC ducts

Author: Tewari, Kamal

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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Acc. No.: T00252

26. Title: Soft error tolerant designs using guarded dual rail logic

Author: Shah, Hemal Gautamkumar

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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27. Title: Modification of a mechanical glass bottle filler table to enhance the

hygienic requirement

Author: Chandnani, Anurag

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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Author: Joshi, Pariveeksha

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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29. Title: Spacecraft attitude dynamics and control and attitude determination

using GPS

Author: Panda, Baishali

Publisher: Gandhinagar: Indian Institute of Technology, 2017

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30. Title: Simplified 1-D modeling of duo-pile system subjected to lateral loads

Author: Kolli, Mohan Krishna

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 624.154 KOL Acc. No.: T00230

31. Title: Effect of in-plane boundary conditions on buckling and post buckling

response of thin plates under uni-axial compression/in-plane shear

Author: Botlapati, Sri Sahith

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 624.17765 BOT

Acc. No.: T00228

32. Title: Unsteady flow past a sharp crested weir

Author: Behere, Siddharth

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 627.23 BEH Acc. No.: T00222 33. Title: Numerical modeling of flow past a side weir

Author: Amalnath M.

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 627.883 AMA Acc. No.: T00247

34. Title: Fe3O4, ZnO nanoparticles and ZnO- Fe3O4 based nanocomposites for waste water treatment: an adsorptive photocatalytic based approach

Author: Goyal, Prateek

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 628.164 GOY Acc. No.: T00245

35. Title: Design methodology of ash dyke using geosynthetics considering

hydraulic conditions Author: Soni, Shubham

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 628.44564 SON

Acc. No.: T00232

36. Title: Dynamics and guidance of reentry spacecraft

Author: Joshi, Pragati Pradip

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 629.8 JOS Acc. No.: T00255

37. Title: Analysis of a cable driven leg exoskeleton

Author: Sanjeevi, N.S.S.

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 629.892 SAN Acc. No.: T00253

38. Title: Adsorption properties of ovalbumin (OVA) as emulsifier in water-

commercial oil systems Author: Panjwani, Bhawna

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 664 PAN Acc. No.: T00224

39. Title: High pressure carbon dioxide based liquid food preservation:

experiments and modeling Author: Dhuri, Sagar Suresh

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 664.0286 DHU

Acc. No.: T00225

40. Title: Kinetic modeling, simulation and optimization of butylated urea

formaldehyde resin synthesis

Author: Patel, Garima

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 668.4223 PAT

Acc. No.: T00226

41. Title: Thermal properties of polymer foams

Author: Mandale, Snehal

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 668.493 MAN

Acc. No.: T00227

42. Title: Design and development of dieless metal forming prototype

Author: Bharti, Sahil

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 671.52 BHA Acc. No.: T00257

43. Title: Formability of tailor welded blanks produced by friction stir welding - a

study on the effect of tool pin profile and eccentricity

Author: Dey, Ronit

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 671.52 DEY Acc. No.: T00256

44. Title: Enhancing mechanical properties of aluminium-lithium alloy AA2195

using thermomechanical treatment

Author: Chatterjee, Ritam

Publisher: Gandhinagar: Indian Institute of Technology, 2017

Call No.: 673.722 CHA Acc. No.: T00262