About the University

Manipal University is synonymous with excellence in higher education. Over 28,000 students from 57 different nations live, learn and play in the sprawling University town. Nestled on a plateau in Karnataka’s Udupi District. It also has nearly 2500 faculty and almost 10000 other support and service staff, who cater to the various professional institutions in health sciences, engineering, management, communication and humanities which dot the Wi-Fi-enabled campus.

The University has off-campuses in Mangalore and Bangalore, and off-shore campuses in Dubai (UAE) and Melaka (Malaysia). The Mangalore campus offers medical, dental and nursing programs. The Bangalore campus offers in Regenerative Medicine. The Dubai campus offers programs in engineering, management, and architecture, and the Melaka campus offers programs in medicine and dentistry.

Every institute has world class facilities and pedagogy, which are constantly reviewed and upgraded to reflect the latest trends and developments in higher education.

In Manipal, these include educational facilities like the stimulation Lab with computer driven Manikins, an Innovation Centre, one of Asia’s largest health sciences libraries, one of the world’s best anatomy museum, a business incubation centre and various other centres of excellence. Academic collaborations and twinning programs with several universities in the US, UK, Australia and other countries ensure that students get international exposure and expertise.

The Manipal Group, a pioneer in higher education services with a 60 – year old legacy of excellence, also owns and operates campuses in Sikkim and Jaipur in India, and in Nepal, and Antigua, in the Caribbean.
**Our Mission**

- Be the most preferred choice of students, faculty and industry
- Be in the top 10 in every discipline of education health sciences, engineering and management

**Our Vision**

- Global leadership in human development, excellence in education and healthcare
Milestones

1953 - Kasturba Medical College, Manipal
1955 - Kasturba Medical College, Mangalore
1957 - Manipal Institute of Technology, Manipal
1963 - Manipal College of Pharmaceutical Sciences, Manipal
1965 - Manipal College of Dental Sciences, Manipal
1986 - Welcome Group Graduate School of Hotel Administration
1987 - Manipal College of Dental Sciences, Mangalore
1990 - Manipal College of Nursing, Manipal
1993 - Deemed University Status
1997 - Melaka – Manipal Medical College, Manipal and School of Communication, MIT, Manipal
1998 - School of Information Sciences, Manipal
1999 - School of Allied Health Sciences, KMC, Manipal and School of Management MIT, Manipal
2003 - Faculty of Architecture, MIT, Manipal
2006 - School of Life Sciences, Manipal
2017 - Prasanna School of Public Health, Manipal
Core competency at a glance

**Department of Commerce**

Social Entrepreneurship, Rural Development, Banking and Finance, Insurance and Risk Management, Rural Marketing, Business start-up support system, Financial Inclusion, E-learning, Family Business Management, Corporate Liaison, Logistic Solutions

**Faculty of Architecture**

Social research, Technological research, Environmental research, Cultural research, Organizational Research, Educational Research, Historical Research

**Manipal Centre for European Studies**

Europe-Asia interactions, Multiculturalism and Multilingualism, Identity studies, Immigration, Socio-politics, Higher education, Content and language integrated learning, Indian Philosophy and ethics, and Allied areas

**Manipal Centre for Natural Sciences**

**Physics**


**Earth Sciences**

Paleontology – Invertebrate Paleontology, Vertebrate paleontology. Stratigraphy. Evolutionary Biology – evolutionary genetics, population & conservation genetics. Computational biology

**Chemistry**

Theoretical Chemistry, Synthetic Chemistry, Chemistry of advanced materials

**Computational Physics**

Modelling and reactor physics, Scientific Computing, Nuclear and atomic data.
Manipal Centre for Philosophy and Humanities

Literature, Medical humanities, Continental Philosophy, Indian Philosophy, Environmental Philosophy, Pre-Modern Literacy Traditions, Logic and Analytical Philosophy, Religious studies, Cultural History, Cultural Studies, Political Sociology, Gender Studies.

Manipal Institute of Technology

Department of Aeronautical and Automobile Engineering: Composite materials, Tribology of bearings, Nano composites, Biomechanics, Structural membrane, Avionics and Propulsion, Dental materials capable of withstanding high pressure and temperature and last for a long without decay.


Department of Chemistry: Liquid crystals, Corrosion studies, Polymer chemistry, Bio organic and medicinal chemistry, Composite materials, Organic synthesis, Materials chemistry, Polymer electrolytes.

Department of Computer Applications: Data and knowledge discovery, multimedia computing and communication, computer vision.

Department of Civil Engineering: Low cost housing, Water waste management, Geochemistry of rivers, estuaries and adjacent ocean, Utilization of solid waste in construction industry, Soil structure interaction, Design of earthquake resisting structures, Coastal erosion protection techniques, Pre-cast construction techniques, Soil stabilization and earth retaining structures, Sophisticated traffic design.

Department of Computer Science and Engineering: High performance computing system, Computer network and security, Computer vision, Software engineering, Knowledge engineering.

Department of Electrical and electronics engineering: Lighting and Energy Systems, Power and control systems, Power electronics and drives, Microelectronics, Embedded system.

Department of Electronics and Communication Engineering: Plasmonic biosensing, Flexible electronics, Micro Electro Mechanical System (MEMS), Speech Signal Processing, Optical Fibre Communications, Biomedical signal/image processing, Communication and control system, Optical communication, Nano photonics, Analog VLSI signal processing and Analog circuit design, Embedded control systems, Network coding, Coding theory, Wireless sensor networks, E-nose system, Medical image processing.

Department of Humanities and Management: Literature and cultural studies, System dynamics, Operation management, Econometrics, Risk analysis, Marketing and HRM.
Department of Information and Communication Technology: Computer networks - Wireless communication, Sensor networks, information/network security, Data mining & Data analytics, Big data analytics, Image processing & machine learning, Cloud computing and algorithms,

Department of Instrumentation and Control Engineering: Control system engineering, Instrumentation engineering, Biomedical engineering, Smart sensor technology, Process control, Image and computer vision.

Department of Mathematics: Graph theory, Numerical methods, Functional analysis, Topology, Number theory, Fluid dynamics, Geometric function theory, Bio mechanics, Fuzzy logic, Special functions, Algebra, Complex analysis, Computational methods.

Department of Mechanical and Manufacturing Engineering: Tribology, Computational fluid dynamics, Composite materials, Biomechanics, Thermal sciences, Heat treatment, Corrosion engineering, Water jet machining, Machining of metals, alloys and composites.

Department of Mechatronics Engineering: Tribology, Design, Structural integrity, MEMS, Artificial intelligence.

Department of physics: Solid State Physics, Nuclear and Radiation Physics, Theoretical High Energy Physics

School of Communication

Health Communication, Radio and Television Studies, Developmental and Environment Communication, Media Education, Film Studies, Cultural Studies, Gender Studies, Media Studies, New Media Studies, Ad and PR, Visual Communication and Audience Research

School of Information Sciences

Medical Image Processing, Image retrieval, Data science for Healthcare, Hardware and Software verification

Welcomgroup School of Hotel Administration

Hospitality: Social Media and Hospitality, food service consumer choice and service strategies, hospitality strategic management, urban and rural foodscapes, Hospitality human resources, Knowledge management in hospitality, Food network, Green hospitality, Ergonomics in hotel design and Food service establishments, Building experiencescape, Emerging Hospitality Business Models, Social entrepreneurship in hospitality, Tourism: Accessible Tourism: Tourism for Everyone, Coastal Tourism: Potential Tourism Opportunities in Karnataka, Sustainable Coastal Tourism and Community Development, Gastronomic Tourism Destinations in Karnataka, Economics of inbound tourism, Operation research in Tourism management, Rural Landscape: Tourism Potential, Nutrition and Dietetics: Maternal and Child Health, Infant and Young Child, Nutrition, Geriatric Nutrition, Public Health Nutrition, Therapeutic Nutrition, Lifestyle Disorders, Sports and Fitness Nutrition
HOT, HAPPENING
CHAICOPY

A Must-Read
the
Centre
Philosophy
Humanities,
contains selected
works from
people across
the world on the
theme "fragments"

DECCAN CHRONICLE

Here they all were, a
crowd of talents with
different writing styles,
all experiencing the
creative "boom" in the
first year of being
members at the Manipal
Mountainside Literary
Festival. They shared
their thoughts and
ideas, and the result
was a collection of
essays, short stories,
drawings, and
photographs, published
in the first edition of
CHAICOPY. The journal
reaches out to
students, faculty,
and alumni of the
university, inviting
them to contribute
their work. The
writing styles ranged
from poetry to
prose, and each
piece had its own
unique voice.

CHAICOPY
An MCPH Literary Journal

Feature

Yuan Le

Chandreshsingh Singh

Features

Next
## A sense of what we have done/do
(major work carried on in Technical and Management)

<table>
<thead>
<tr>
<th>Sl no</th>
<th>Name/ Institution</th>
<th>Project title</th>
<th>Funding Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Nandini Laxmikantha</td>
<td>Effective health communication strategies among young women: An exploratory study</td>
<td>ICMR (2014);</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Padma Rani</td>
<td>Media perception of adolescence</td>
<td>UNFPA, for Rajiv Gandhi Institute of Youth Development, Sriprembudur, Chennai (2012 – 2013);</td>
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<tr>
<td>3</td>
<td>Dr. Neeta Inamdar</td>
<td>Two Jean Monnet Programs</td>
<td>European Union</td>
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<tr>
<td></td>
<td></td>
<td>Jean Monnet Project – policy debate with the academic world as well.</td>
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<td></td>
<td></td>
<td>Erasmus plus capacity building project in Content and Language Integrated Learning (CLIL)</td>
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<tr>
<td></td>
<td></td>
<td>Dvaita Philosophy Resource Centre for the Grammatical Analysis and XML Tagging of Mahabharata with computational linguistic tools.</td>
<td>Dr. Ranjan Pai Endowment Fund</td>
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<tr>
<td>4</td>
<td>WGS HA</td>
<td>Beach Sea Food Festivals with Mantra Tourism Promoters</td>
<td>September 24, 2016</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Resort Up gradation with Akuna Mattala Beach Resort</td>
<td>Ongoing (initial stage)</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Raghuvir Pai</td>
<td>Fundamental study of the use of water and environmentally sustainable water based lubricants in multi axial groove bearings, with Maipal Centre for European Studies</td>
<td>Fundamental Research Grant Scheme (FRGS), Malaysia</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A fundamental investigation of blood flow through patient specific cases through fluid structure interaction</td>
<td></td>
</tr>
<tr>
<td>Sl no</td>
<td>Name/ Institution</td>
<td>Project title</td>
<td>Funding Agency</td>
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<tr>
<td>6</td>
<td>Dr. Manohara Pai MM as Principal Investigator; Mr. Sanoop M, Ms. Manasa S, Mr. Sudarshan, Mr. Yash Mehta as Co-investigator</td>
<td>Connected car services &amp; Apps - Development and Deployment of Predictive Analytics Vehicular Ad-hoc Network (VANET) Application on IBM Bluemix Cloud</td>
<td>IBM Pvt. Ltd, Bangaluru, India</td>
</tr>
<tr>
<td></td>
<td>Dr. Manohara Pai MM as Principal Investigator; Mr. Sanoop M, Ms. Hamsa Bharathi, Ms. Shalini, Mr. Rajagopal Kamath as Co-investigators</td>
<td>Cloud Enabled Delivery Drones</td>
<td>IBM Pvt. Ltd, Bangaloe, India</td>
</tr>
<tr>
<td>7</td>
<td>Mr. Ashwath Rao B as Principal Investigator; Mr. Muralikrishna S.N as Co-investigator</td>
<td>Developing Dependency Treebank for Kannada</td>
<td>Dept. of Electronics and Information Technology</td>
</tr>
<tr>
<td></td>
<td>Dr. Ramesh S. Ve as Principal Investigator; Dr. P C. Siddalingaswamy as Co-investigator</td>
<td>To develop and validate an intuitive home Amsier Grid (E-Amsier) for screening and monitoring of sight threatening Eye (Macular) disease.</td>
<td>Dept. of Science and Technology</td>
</tr>
<tr>
<td>8</td>
<td>Dr. Santhosh C</td>
<td>FIST Program</td>
<td>Department of Science and Technology</td>
</tr>
<tr>
<td>9</td>
<td>Dr. Unnikrishnan V. K</td>
<td>Miniaturized Laser-Induced Breakdown Spectroscopy (LIBS) system for field applications</td>
<td>Board of Research in Nuclear Sciences</td>
</tr>
<tr>
<td>10</td>
<td>Dr. Suresh D. Kulkarni</td>
<td>Development of rapid pyrolysis method for nanostructures and thin films</td>
<td>Science &amp; Engineering Research Board</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Microwave-assisted synthesis of spinel oxide phosphors for display applications and white light generation</td>
<td>SERB, Department of Science and Technology</td>
</tr>
<tr>
<td>11</td>
<td>Dr. Unnikrishnan V K and</td>
<td>Preliminary LIBS study of metal alloys</td>
<td>Titan company Ltd</td>
</tr>
<tr>
<td>12</td>
<td>Dr. Santhosh C</td>
<td>Design, Assembly, Testing and Multi-Centre Evaluation of a Miniature and Portable LIF System for Screening of Oral Malignancy</td>
<td>Department of Science and Technology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Establishment of Bio-Photonic Research Fascility for the Early Detection of Cancers: Cervical Cancer</td>
<td>Vision Group on Science &amp; Technology</td>
</tr>
<tr>
<td>13</td>
<td>Dr. V. H. S. Moorthy</td>
<td>Development of Nano material and optically enabled, front surface and back contact tailored, enhanced efficiency amorphous Silicon Solar cells</td>
<td>DST</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Development of Plasmonic Biosensors using Nanosphere Lithography and Surface Enhanced Raman Spectroscopy for Rapid Diagnosis of Viral Encephalitus</td>
<td>Department of Biotechnology, New Delhi</td>
</tr>
<tr>
<td>Sl no</td>
<td>Name/ Institution</td>
<td>Project title</td>
<td>Funding Agency</td>
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<tr>
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<tr>
<td>14</td>
<td>Mr. Sampath Kumar</td>
<td>Quantification of Spinal Deformities using 3D-Reconstruction from Biplanar Radiographs</td>
<td>DBT, SERB, New Delhi</td>
</tr>
<tr>
<td>15</td>
<td>Dr. Shounak De</td>
<td>Low cost fabrication of nanoscale patterns using soft lithography</td>
<td>VGST</td>
</tr>
<tr>
<td>16</td>
<td>Dr. Ciji Pearl Kurian</td>
<td>Initiative to Promote Habitat Energy Efficiency (I-PHEE)</td>
<td>DST</td>
</tr>
<tr>
<td>17</td>
<td>Dr. Ciji Pearl Kurian, Dr. Sudheer Kumar T.S, &amp; Mrs. Susan Varghese</td>
<td>Test workbench and proof of concept prototype for building energy efficiency solutions</td>
<td>DST</td>
</tr>
<tr>
<td>18</td>
<td>Dr. Mohini Gupta</td>
<td>Dynamics of Weakly Bound Quantum Systems ('DWBQS')</td>
<td>The European Union EU/FP7 Marie Curie Action, International Research Staff Exchange Scheme (IRSES)</td>
</tr>
<tr>
<td>19</td>
<td>Dr. Debbijoy Bhattacharya</td>
<td>Modelling of broadband spectral energy distribution of blazars utilizing multiwavelength observation</td>
<td>University of Giessen / GSI, Germany</td>
</tr>
<tr>
<td>20</td>
<td>Dr. P.K. Sarkar</td>
<td>Development of a neutron dosimetric technique using prompt gamma measurements.</td>
<td>Atomic energy regulatory board(AERB)</td>
</tr>
<tr>
<td>21</td>
<td>Dr. K.V. Subbaiah</td>
<td>Development of indigenous monte carlo code for estimation of neutron multiplication factor for complex systems containing fissile materials</td>
<td>Board of Research in Nuclear Sciences (BRNS), Mumbai</td>
</tr>
<tr>
<td>22</td>
<td>Dr. Priyada</td>
<td>Measurement of thermal capture cross sections and resonance integrals for selected isotopes of range 30 &lt; Z &lt; 60 by activation method, using Am-Be neutron source</td>
<td>Department of Science and Technology (Young Scientist Scheme)</td>
</tr>
<tr>
<td>23</td>
<td>Dr. Kazuyuki Furuuchi</td>
<td>Particle Physics Models of Cosmic Inflation</td>
<td>Department of Science and Technology (DST), Science and Engineering Research Board</td>
</tr>
<tr>
<td>24</td>
<td>Dr. Sudha D. Kamath</td>
<td>The study of effects of radiation in rare earth doped Zinc Bismuth Borate glasses</td>
<td>SERB-DST</td>
</tr>
<tr>
<td>25</td>
<td>Prof. Ashok Rao</td>
<td>Effect of electron beam irradiation on the structure, electrical and transport properties of La$_{1-x}$Sr$_x$CoO$<em>3$ cobaltites and comparison with manganites La$</em>{1-x}$Sr$_x$MnO$_3$</td>
<td>DAE-BRNS</td>
</tr>
<tr>
<td>25</td>
<td>Dr. Mohan Rao K</td>
<td>Preparation and characterization of metal particulate films deposited on electron irradiated inert polymers doped with organosilanes/functionals polymers</td>
<td>DAE-BRNS</td>
</tr>
<tr>
<td>27</td>
<td>Dr. Mahesha MG</td>
<td>Investigation of Potential Alternatives for Window layer to Improve the efficiency of CdTe based solar Cells</td>
<td>VGST</td>
</tr>
</tbody>
</table>
Partners (Industries/Academia)

**Department of Atomic and Molecular Physics**
- Bhabha Atomic Research Centre, Mumbai
- Holmarc, Kochi
- International Centre for Theoretical Physics (ICTP), Trieste, Italy
- Raman Research Institute, Bangalore
- Tata Institute of Fundamental Research, Mumbai
- Titan Company Limited, Hosur
- UM-DAE Centre for Excellence in Basic Sciences, Mumbai University, Mumbai
- University of Texas, USA

**Department of Commerce**
- Certified Management Accountants (CMA)
- Chartered Institute of Management Accountants (CIMA)
- Confederation of Indian Industry (CII)
- Deakin University, Australia
- Massey University, New Zealand
- RMIT University, Australia
- Wright State University, U.S.A
- University of Waikato, New Zealand
- Tata consultancy services
- Safeducate Pvt. Ltd.
- The Association of Chartered Certified Accountants (ACCA)
- UADE Business School, Argentina
- University of Applied Sciences Utrecht, Netherlands
- University of Cincinnati, USA
- University of Kentucky, USA
- University of South Florida, USA
- The Association of Chartered Certified Accountants (ACCA)
- UADE Business School, Argentina
- University of Applied Sciences Utrecht, Netherlands
- University of Cincinnati, USA
- University of Kentucky, USA
- University of South Florida, USA

**Faculty of Architecture**
- Deakin University, Australia
- Energy and Resources Institute (TERI) Bangalore and SELCO Foundation, Bangalore
- Hochshule Bremen, University of Applied Sciences, Germany
- Leibniz University of Hanover, Germany
- Sapienza, University of Rome
- Trimble Buildings Design Lab
- UMEA University, Sweden
- Universal college of Learning, New Zealand
- University of Cincinnati, USA
- Manipal Centre for European Studies:
- Aarhus University, Denmark

**Manipal Center for Natural Sciences**
- Tata Institute of Fundamental Research (TIFR)
- Fermi National Accelerator Laboratory (FNAL), USA
- Helmholtzzentrum für Schwerionenforschung GmbH (GSI), Germany
- Joint Institute of Nuclear Research (JINR), Dubna, Russia
- Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania
- University of Giessen, Germany
- University of Bergen, Norway
- University of Stockholm, Sweden
- University Pierre and Marie Curie, France
- Atomic Energy Commission of Argentina

**Manipal Centre for Philosophy and Humanities:**
- Foundation for scientific research in critical study on translation of the unpublished sanskrit texts pertaining to Saivism and Buddhism
- * Ninasam, Heggodu
## Manipal Institute of Technology
- ATMEL Corporation Ltd.
- Bangladesh Lamps Limited Dhaka
- BIT, Mesra
- Bosch Ltd, Bangalore
- Daimler Benz, Chennai
- DTU, Delhi
- Freescale Semiconductors, Noida
- Hewlett Packard Enterprise
- Honeywell Technology Solution Lab
- IBM • IIIT, Hyderabad
- IIT, Delhi
- Imarat, DRDO
- Infosys Campus Connect
- Jadavpur University, Kolkata
- Lighting Technologies India, Bangalore
- Mercedes Benz R&D, Bangalore
- Microsoft
- Mollmann Beratende Ingenieure GmbH Germany
- National Instruments
- National University of Singapore
- NEC Corporation Japan
- Nuvoton Technology Corporation Ltd.
- Philips Innovation Campus, Bangalore
- Schineder Electric
- Siemens
- Tata Consultancy Services
- Tata Motors, Pune
- Texas Instruments
- University of Applied Science, Germany
- University of Greenwich, UK

## School of Information Sciences:
- Applied Cognition Systems, Bangalore
- Edinburgh Napier University, UK, the program was jointly designed to develop international and learning opportunities in 2013
- Efrei, France
- ENSAI, France
- ESIGELEC, France in 2009 for full time collaborative master’s degree program, ME in Embedded Systems and Instrumentation
- Group T, Belgium
- ISEP, France, initiated to start a dual degree program
- Lancaster University, UK for Dual Master Degree Program(DMDP) in 2012
- Manipal Dot Net, Manipal
- St. John’s Research Institute (SJRI), Bangalore
- Volmo Pvt. Ltd., Bhopal, Madhya Pradesh

## School of Communication:
- Aarhus University, Denmark
- Audience Nantes School of Management, France
- Charles Strurt University, Australia
- Erasmus University, Rotterdam
- Hanze University of Applied Sciences, Groningen
- Hogeschool Utrecht, Netherlands
- Queensland University of Technology, Australia
- University of Applied Sciences, Bremen, Germany
- Volda University, Volda, Norway

## Welcome Group School of Hotel Administration:
- Botho College, Botswana, with Exchange of Curriculum and Reading Materials
- Centennial College, School of Hospitality, Tourism and Culture, Canada with Joint Programme of BHM
- Centennial College, School of Hospitality, Tourism and Culture, Canada, with Joint Programme of BA in Culinary Arts
- Ducasse Education, France with Joint Programme of BHM with other international Hotel Management Institutes
- George Brown College of Applied Arts & Technology, Ontario, Canada, with Joint Programme of BA in Culinary Arts
- George Brown College of Applied Arts & Technology, Ontario, Canada, Centennial College, School of Hospitality, Tourism and Culture, Canada
- Manchester Metropolitan University (MMU), Manchester UK
- The Business School, Edinburg Napier University with Joint Programme of BHM
- The Sages Institute, International Indonesia, with Joint Programme of BA in Culinary Arts
- The University of Waikat, New Zealand, Centennial College, School of Hospitality, Tourism and Culture, Canada, University College Birmingham, UK, George Brown College of Applied Arts & Technology, Ontario, Canada
- The University of Waikato, New Zealand, with Joint Programme of BHMTT
- Tourism and Hospitality Skill Council, Ministry of Skill Development and Entrepreneurship, Government of India with Joint Research and Consultancy with other Institutes or Organizations
- University College Birmingham, UK, with Joint Programme of M.Sc in Hospitality & Tourism Management
Facts and Figures of university

Manipal University, Karnataka

2014 to 2017
Overall research performance

<table>
<thead>
<tr>
<th>Publications</th>
<th>Citations</th>
<th>Authors</th>
<th>Field-Weighted Citation Impact</th>
<th>Citations per Publication</th>
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<tbody>
<tr>
<td>4,970</td>
<td>6,554</td>
<td>5,875</td>
<td>0.52</td>
<td>1.3</td>
</tr>
</tbody>
</table>

- **Department of Atomic Physics**
  - Laser Induced Fluorescence laboratory for cancer detection,
  - Laser Induced Break down Spectroscopy lab for multi elemental analysis,
  - Raman spectroscopy laboratory for soft material characterization,
  - Optical Tweezers combined with Raman Spectroscopy laboratory for live single cell spectroscopy,
  - HPLC-LIF system for protein profile analysis of body fluids,
  - Femto-second laser laboratory with necessary facilities for Photonics device fabrication,
  - Nanoparticles size measurement system,
  - Plasma polymerizer,
  - Contact angle measuring system,
  - Photoluminescence spectrometer,
  - Thin film deposition system,
  - UV/Vis spectrophotometer,
  - FT-IR spectrophotometer,
  - Thin film coating unit,
  - High temperature Furnaces,
  - Deep Freezers,
  - lyophilizer,
  - incubator shaker,
  - Protein electrophoresis system etc.

- **Department of Commerce**
  - Access to SPSS,
  - Access to Online Databases – Capitaline Plus, Emerald Insight, EBSCO, CMIE,
  - Access to Turnitin

- **Faculty of Architecture**
  - Computer Aided Design Laboratory equipped with computers of an advanced configuration and advanced updated software of educational versions which are suitable for 2D drawings and software 3D modelling. Also, the laboratory has high resolution Plotters, Printers and Scanners required for different sizes of drawings, CAD Lab with high resolution equipment and instruments for sustainability Lab.

- **Manipal Centre for Natural Sciences**
  - High performace computer cluster, Library, Laboratories, The Dr. T.M. A. Pai | Planetarium

- **Manipal Centre for European Studies**
  - ICT - enabled classroom, Audio-visual resources centre and computer lab, Access to online databases JSTOR, springer, and others including applications like SPSS, Library - 5,000+ books journals, magazines, etc., related to European studies, international relations, business and economics, and, humanities and social sciences, DPRC - library dedicated to Data, Vedic and Sanskrit studies, Indology with a wide collection of resources

- **Manipal Centre for Philosophy and Humanities**
  - Library: The Manipal Humanities Library is housed within the centre. Other than an excellent collection of books,
the library also has a digital component with access to online journals and packages like JSTOR.
Gangubai Hangal Auditorium: is a 150 seats theatre where DPH hosts public lectures, conferences, music concerts and film club screenings.
Hebbar Gallery and Art Centre (HGAC): houses some prominent works of art by the renowned artist KK Hebbar and was inaugurated in 2016.

Manipal Institute of Technology
Department of Aeronautical and Automobile Engineering: Autoclave; Ultra Sound C-Scan; Computerized Fatigue Testing Machine; Compression Moulding Machine; Hot-air oven
Department of Chemical Engineering: Atomic Absorption Spectrophotometer, Gas Chromatograph, High Pressure Liquid Chromatography, UV-Visible Spectrophotometer, TOC Analyze, Glass Autoclave Reactor, Circulator Baths (-15 deg C to 100 deg C), Ultrasound Processor (Bath & Probe Type), Particle Size Analyzer (40 nm to 2500 μm), Cascade Control Trainer Kit, Multi Process Trainer Kit, Programmable Logic Controller, Multi Variable Controller Trainer Kit, Heat Exchanger Control Kit
Department of Chemistry: Thermal analyser (TGA/DTA/DSC), CH-Instruments, UV-Visible Spectrophotometer, Optical Polarizing Microscope, Fourier-Transform Infrared Spectrophotometer (FTIR)Gouy Magnetic Susceptibility Apparatus, Other instruments include polarimeter, potentiometer, refractometer, conduct meter
Department of Civil Engineering: Anodic stripping voltammetry, Ion chromatography, Total Organic Carbon Analyzer, Microwave digester, Ultrapure water purification system, Tri-axial soil testing instrument, Total station, UTM (2000kN) and CTM (3000kN), Loading frame 50 Tonne capacity, Non-destructive testing of concrete, Highway material testing equipment’s, Sophisticated software’s related to civil Engineering
Central Instrumentation Facility: Central Instrumentation Facility, Private Cloud Facility, Photovoltaic Laboratory, 3D Printing, Robotics and Automation Laboratory sponsored by TE Connectivity, Supercomputing Facility, Software Quality Engineering Lab Sponsored by Schneider Electric, Data Analytics and Cloud Computing Research Cell – Dr T M A Pai Endowment Chair
Department of Electrical and Electronics Engineering: Advanced energy system simulation lab, Embedded system lab, MATLAB 15b, Software licences: PSCAD X4, MiPower V9.1, KEIL C51 V 9.01, Mentor Graphics HDL Designer Series, Labsphere’s Illumia 600-500, C-gamma GonioPhotometer, Environmental test chamber, PSCAD, MiPower, Multi-Product Calibrator, LS – 100 Luminance Meter Canon DSLR 60 D Camera, 200 W Solar PV module with MPPT Controller, DC-DC Boost Converter, 200W Inverter, Motor Drive DIGIVAC – 1.6KVA, 230 V AC drive with motor generator assembly
Department of Electronics and Communication Engineering: Sputtering system, E-beam deposition system, AFM system, Probe station, Impedance analyser, Galvanostat, CONNOI, NTPSC – T7025, FERMI – Workstation, HP Workstation Z230
Department of Humanities and Management: Full-fledged Modelling and Simulation with latest software on SPSS, Vensim, AMOS, QFD and Study Skill Success.
Department of Mathematics: Research Lab with MAT LAB & Mathematica
Department of Mechanical and Manufacturing Engineering: Tensometer, Optical Microscope, Pin on Disc Tester, Vicker hardness number measuring machine, Three body wear measuring machine, ANSYS Academic Multiphysics 17.1, Flownex, Matlab, ProE Wildfire 5.0/Creo, AutoCAD 2016, Mimics 18, Wind Energy Training Centres, Dual Axis Parabolic Trough Solar Concentrator, Wind Turbine Emulator
Department of Mechatronics Engineering: Hydraulic Trainer Kit, Pneumatic Trainer Kit, PLC, Modular Production Systems, Measurements using sensors, Drives and Controls, 6 axis Robot.
Department of Instrumentation and Control Engineering: Lab VIEW Academy, Industry standard level, flow, and pressure process stations, Hybrid PLC, High precision and wide range DAQ devices, High end sensing devices, Universal Calibration station, 3DoF Simulator model, Nonlinear control models
Department of Physics Thin film growth and device fabrication, Optics/optoelectronics, electrical devices.

School of Information Sciences: