Manipal University is a place born out of one man’s dream. It’s a testimony to the fact that no matter how big a dream is, it can always be turned into reality. Manipal has come a long way, from a barren hillock, to a bustling University township. A place infused with quality education to its very core.

Today Manipal University and other allied institutes are home to a variety of disciplines under one roof. High profile faculty, world class infrastructure and an environment filled with passion, encouragement and opportunities attract students from all parts of the world. Currently students from 52 countries are studying at Manipal University.

THE ICAS PROGRAM
An initiative of Manipal University, the International Centre for Applied Sciences (ICAS) Engineering Twinning Program is a unique four year engineering program. Under this program, students complete two years of the program in Manipal University, India and the next two in a Partner University in USA/UK/Australia. All this at a cost much lower than that of an international engineering program. ICAS students are assured of an international engineering degree from a world class university of their choice, giving them exposure to a multi-cultural learning environment, access to global opportunities, placements and internships. This program provides a wide array of specializations not available at Indian universities. ICAS students, backed by state-of-the-art infrastructure, renowned faculty and international standards of education, excel anywhere in the world.

THE PROGRAM IN A NUTSHELL
- An international engineering degree from renowned institutions
- First two years in Manipal University, India and the next two in a partner university in USA/UK/Australia
- Internationally recognized and globally accepted curriculum
- A host of over 15 in-demand and sought after engineering disciplines
- A wide range of international universities to choose from
- Affordable cost - approximately 60% of the cost of an international degree
- Students are eligible to apply for credit transfers to other renowned institutions
- Opportunities for paid internships in the USA, UK and Australia
- Renowned faculty, state-of-the-art infrastructure and world class facilities in India
THE BENEFITS OF AN ICAS DEGREE

A CREDIT TRANSFER FACILITY
The ICAS credit transfer system is at par with international standards and conform to all of their teaching methodology norms and curriculums. The first two years of the program are equivalent to studying in international universities ensuring smooth credit transfer when a student transfers to an international university. All international universities accept credit transfers of the ICAS program. Apart from classroom training, the program also follows the assessment, learning orientation, lab and workshop systems similar to that of international universities. Besides the partner universities, ICAS students are eligible to apply for credit transfers to other renowned institutions.

A REPUTED TRACK RECORD
Since its inception in 1996, a number of the ICAS Twinning Program alumni have successfully completed their first two years with a Grade Point Average of 3.5 and above, thus being accepted into over 75 renowned universities across the world.

AFFORDABLE EDUCATION
Since the first two years of the program are conducted in India, students save up to 40% of the cost of an International education. While a student who has to do all 4 years abroad would spend US $50,000 plus living expenses, ICAS students spend only around US $11,000 for the first two years in India.

UNIVERSAL ACADEMIC CURRICULUM
The ICAS program follows the curriculum and assessment system of international universities. The course syllabus, credit allocation and evaluation procedures are based on stringent criteria. Students need to maintain a good score throughout all 4 semesters in order to pass. A GPA of above 3.0 out of 4.0 would enable credit transfer to a top ranked US, UK or Australian university.

FLEXIBILITY
ICAS also offers students the flexibility of choosing or changing their branch or major area of specialization after entering the university of their choice. For example, a student who has taken a basic course in mechanical engineering may change to aircraft or automotive engineering. Likewise, a student who has opted for electronics during the first two years at Manipal University has the option of taking up biomedical engineering.

As a person who had never lived away from home, the ICAS program was the perfect stepping stone for me before I went to the US for my undergraduate studies. At Manipal University, I learnt to live away from the protective guidance of my parents and got a taste of what the US curriculum would be like. My education and experience at ICAS has helped me study and work in an international environment, while understanding and accepting people from diverse backgrounds and cultures.

— Devina, Drexel University Graduate
I have completed my degree from the University of Massachusetts, Amherst and am currently working in New York with Citigroup. ICAS proved to be a great experience for me, and is a great platform for all who want to pursue their studies in world class universities, as it cuts time and costs by half. The program opens up new frontiers and possibilities for students across the world. I owe a lot to Manipal University and ICAS. Without the ICAS Twinning Program, I wouldn’t be where I am today.

— Pallavi, ICAS Graduate

ENGINEERING DISCIPLINES AVAILABLE

- Architecture
- Automotive
- Aviation / Aerospace
- Biomedical
- Chemical
- Civil / Construction
- Computer Hardware / Software
- Electrical and Electronics
- Electronics and Communications
- Environmental Sciences
- Industrial Biotechnology
- Industrial / Manufacturing
- Material Science
- Metallurgical
- Mechanical
- Mechatronics

Some of the most popular disciplines pursued at ICAS are Computer Sciences, Automotive Engineering, Aviation and Electronics & Communication.

ACCESS TO WORLD RENOWNED INSTITUTIONS

After their first two years at Manipal University, ICAS students have the option of going to either partner or non-partner universities in any part of the world. Acceptance into non-partner universities is strictly based on merit, average performance at the end of 2 years, and the credit acceptance of the university. Details of Partner Universities and Non-partner Universities are provided in the following pages.
PARTNER UNIVERSITIES

UNITED STATES OF AMERICA

ANDREWS UNIVERSITY, BERRILN SPRINGS
Visit www.andrews.edu or email vbenson@andrews.com

MICHIGAN TECHNOLOGICAL INSTITUTE (MICHIGAN TECH)
Visit www.mtu.edu or email cie@mtu.edu

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO
Visit www.iit.edu or email misquita@iit.edu

MILWAUKEE SCHOOL OF ENGINEERING (MSOE), MILWAUKEE
Visit www.msoe.edu or email nicolais@msoe.edu

NORTH DAKOTA STATE UNIVERSITY (NDSU), FARGO
Visit www.ndsu.edu or email sudhir.mehta@ndsu.edu

ST CLOUD STATE UNIVERSITY, MINNESOTA
Visit www.stcloudstate.edu or email scsu4u@stcloudstate.edu

POLYTECHNIC UNIVERSITY, NEW YORK

RUSS COLLEGE OF ENGINEERING, ATHENS
Visit www.ohio.edu or email carow@ohio.edu

UNIVERSITY OF MISSOURI- KANSAS CITY, MISSOURI
Visit www.umkc Kangaroos.cstw.com or email isao@umkc.edu

UNIVERSITY OF MIAMI, FLORIDA
Visit www.miami.edu or email issm@miami.edu

UNITED KINGDOM

CITY UNIVERSITY, LONDON
Visit www.city.ac.uk or email s.h.khan@city.ac.uk

LANCASTER UNIVERSITY
Visit www.lancs.ac.uk or email m.luxton@lancaster.ac.uk

SHEFFIELD HALLAM UNIVERSITY
Visit www.shu.ac.uk or email aces-info@shu.ac.uk

LEICESTER UNIVERSITY
Visit www.le.ac.uk or email imj1@le.ac.uk

AUSTRALIA

DEAKIN UNIVERSITY
Visit www.deakin.edu.au or email ravneet.pahwa@deakin.edu.au

UNIVERSITY OF QUEENSLAND
Visit www.epsa.uq.edu.au or email a.goonetilleke@epsa.uq.edu.au

UNIVERSITY OF NEW SOUTH WALES
Visit www.unsw.edu.au or email internationaloffice@unsw.edu.au

FLINDERS UNIVERSITY
visit www.flinders.edu.au or email judy.myers@flinders.edu.au
NON-PARTNER UNIVERSITIES

CANADA
DALHOUSIE UNIVERSITY
McGILL UNIVERSITY
UNIVERSITY OF CALGARY
WINDSOR UNIVERSITY

UNITED KINGDOM
UNIVERSITY OF BATH
UNIVERSITY OF BIRMINGHAM
UNIVERSITY OF EDINBURGH
UNIVERSITY OF LEEDS
UNIVERSITY OF MANCHESTER
UNIVERSITY OF Salford

AUSTRALIA
GRIFFITH UNIVERSITY
SWINBURNE UNIVERSITY
UNIVERSITY OF WOLLONGONG

NEW ZEALAND
UNIVERSITY OF AUCKLAND

GERMANY
AACHEN UNIVERSITY

UNITED STATES OF AMERICA
BOSTON UNIVERSITY
CASE WESTERN UNIVERSITY
CLEVELAND STATE UNIVERSITY
COLUMBIA UNIVERSITY
DREXEL UNIVERSITY
EMORY - RIDDLE AERONAUTICAL UNIVERSITY
FLORIDA INSTITUTE OF TECHNOLOGY
GEORGIA INSTITUTE OF TECHNOLOGY
IOWA STATE UNIVERSITY
JOHNS HOPKINS UNIVERSITY
LOUISIANA STATE UNIVERSITY
MICHIGAN TECHNOLOGICAL UNIVERSITY
NEW YORK INSTITUTE OF TECHNOLOGY
OHIO STATE UNIVERSITY
PURDUE UNIVERSITY
RENNES LE PÔLE TECHNOSCIENCES ET INNOVATION
ROCHESTER INSTITUTE OF TECHNOLOGY
RUTGERS STATE UNIVERSITY
SOUTHERN ILLINOIS UNIVERSITY
STATE UNIVERSITY OF N.J
STATE UNIVERSITY OF NEW YORK - BUFFALO
STATE UNIVERSITY OF NEW YORK - STONY BROOK
STEVENS INSTITUTE OF TECHNOLOGY
TEXAS A&M UNIVERSITY
UNIVERSITY OF ARIZONA
UNIVERSITY OF CALIFORNIA
UNIVERSITY OF CALIFORNIA - BERKELEY
UNIVERSITY OF CALIFORNIA - IRVINE
UNIVERSITY OF FLORIDA
UNIVERSITY OF ILLINOIS - URBANA CHAMPAIGN
UNIVERSITY OF MARYLAND
UNIVERSITY OF MASSACHUSETTS, AMHERST
UNIVERSITY OF MICHIGAN - ANN ARBOR
UNIVERSITY OF MINNESOTA - TWIN CITIES
UNIVERSITY OF NEBRASKA
UNIVERSITY OF ROCHESTER
UNIVERSITY OF SOUTHERN CALIFORNIA
UNIVERSITY OF TOLEDO
UNIVERSITY OF WISCONSIN
VANDERBILT UNIVERSITY
VIRGINIA POLYTECHNIC INSTITUTE
WICHITA STATE UNIVERSITY
WRIGHT STATE UNIVERSITY

ICAS is a one of a kind program in the nation which provides young men and women who aspire to study in elite institutions, a stable and dependable platform to launch their careers. I can safely say that the year I spent in Manipal University was indeed the foundation of my career as an aerospace engineer of the future. ICAS is the ideal platform for anyone who aspires to make it to the top colleges of the world.

— Ayushi Krishna, Senior, Embry-Riddle Aeronautical University
ICAS – SOME OF ITS PRIVILEGES

INTERNSHIPS AND PLACEMENTS
Students are provided with paid internship opportunities in a number of multinational companies across the USA, UK and Australia. Additionally, students are automatically eligible for participation in on-campus placements at their respective universities. Generally, campus placements for ICAS students are between $ 5,000 – $ 8,000 and after their Masters, students are generally placed between $ 90,000 - $ 1,20,000 per annum. The highest package provided to an ICAS student last year was $ 95,700 per annum.

LAPTOP AND SMART CARD
Each student is issued with a laptop and a smart card. The card is valid for the regular duration of the course in India. It is also valid for Medicare facilities in India.

MEDICAL INSURANCE
The Medicare scheme applies to all bonafide students of the university for the entire duration of the course in India. Students’ smart cards are valid for availing Medicare facilities in the associated hospitals of the university in India. If the student does not renew it on expiry, the card cannot be used for Medicare facilities. Coverage for Medicare will begin only one month from the date of payment of the renewal fee.

EDUCATION LOAN FACILITIES
ICAS has tie-ups with various nationalized banks for education loans. It also has an exclusive tie-up with Credila Education Loan Services for availing loans for all 4 years of the program. Interested students/parents can reach them at 1800-209-3636. ICAS will help provide all documentation support to ensure student loans. However, students need to apply for and pursue their education loans by themselves. Scholarships and paid internships are available in all foreign universities; however, scholarships depend on the individual university policy and GPA scores obtained by the student at the end of the second year.

ADMISSIONS

ELIGIBILITY
- Pass 10+2 (CBSE, ICSE, ‘A’ Levels, IB, HSC, OSSD, American High School Diploma or equivalent examination)
- Minimum of 60% marks or ‘C’ grade in English, Physics, Mathematics with Chemistry or Biotechnology or Computer Science or Biology as optional subjects
- Engineering Drawing or Biology as optional subjects for admission to B. Arch
- Students seeking admission to Architecture at ICAS need to have minimum of 80 out of 200 in NATA exam
- Diploma Holders (after 10th) are not eligible for the program

Note:
1) The ICAS program is open for all Indians, NRI/NRE and Foreign Nationals.
2) Students can apply for the ICAS program before their 12th board results are declared and confirm provisional admission based on expected performance. Provisional admission letters will be issued to students willing and eligible to take up the program. However, final admissions will be provided after confirmed mark sheets and documents are verified based on 12th std results in PCME/PCMBE subjects.
3) The twinning program duration in India is only one year for Architecture/Aviation/Aerospace Engineering.
4) Students can continue in India for the 3rd year, leading to a degree in B. Sc. Applied Science.
Apply Online

- An amount of ₹ 2000/- or US $ 50 is applicable as processing fees
- Payment can be made by credit card or through Demand Draft drawn in favor of Manipal University, payable at Manipal or Udupi
- Duly filled application forms, documents and Demand Drafts should be sent to the address given below.

Director Admissions,
International Centre for Applied Sciences,
Manipal University Administration Block,
Madhav Nagar, Manipal, Karnataka, India - 576104.

Note:
1) In case you do not wish to apply with a credit card and want to submit your application online: your application will only be considered on receipt of a Demand Draft of ₹ 2000/- drawn in favor of Manipal University, payable at Manipal / Udupi or Bangalore. The Demand Draft should be sent to the address mentioned above. For more details about the admission process, feel free to contact the Director - ICAS Program, Manipal University at icasadmissions@manipal.edu.

Documents required at the time of submission:
- Scanned copy of your 10th and 12th std marks sheets, proof of address, migration and transfer/school leaving certificate
- Scanned copy of birth certificate or any other relevant document validating date of birth
- Scanned copy of passport
- 2 passport size photographs

Other requirements for US Student Visas:
After successfully completing the two years at Manipal University, students who wish to continue their studies in US Universities can apply for student visas at the U.S. Consulate. Even though US universities do not require students to appear for the TOEFL or SAT examinations, the U.S. Consulate does. Students are therefore advised to appear for these examinations before completing the two year course at ICAS, India.

ACCOMMODATION

ICAS provides excellent hostel facilities. Students can choose between AC and Non AC rooms and sharing / non sharing ones. Hostel rooms are provided with a bed, mattress, desk, chair and cupboard for each student. Every hostel has uninterrupted electricity, solar heated water facility, water cooler, common telephone, common TV room and a common reading room among other facilities. Students can ask for an independent telephone connection on additional payment. Adequate dining facilities are available for all students. Membership at any one mess run on-campus is compulsory. Most hostels have gymnasiums and indoor games facilities. Complete safety and security inside the hostels and on campus is ensured by block supervisors, wardens and chief wardens (inside the hostels) and by the security staff and chief security officers (on campus).

First year students will be provided twin/triple sharing rooms only. However, first year students who desire to have AC rooms may reserve their names with the chief warden at the time of counselling. Reservation is based on their registration for the course with the Admissions Office.

NRI / Foreign students may reserve their rooms in advance while submitting their application forms. Single rooms will be made available to the students on waiting list seniority / first come first serve basis.

For more details please email icasadmissions@manipal.edu
Details of the accommodation costs as mentioned below:

<table>
<thead>
<tr>
<th>Type</th>
<th>Facilities Fees (₹)</th>
<th>Hostel Deposit (₹)</th>
<th>Utility Charges Annual (₹)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single - AC</td>
<td>63,000</td>
<td>30,000</td>
<td>25,000</td>
<td>1,18,000</td>
</tr>
<tr>
<td>Double Sharing - AC</td>
<td>36,900</td>
<td>15,000</td>
<td>20,000</td>
<td>71,900</td>
</tr>
<tr>
<td>Single - Non AC</td>
<td>53,400</td>
<td>25,000</td>
<td>9,000</td>
<td>87,400</td>
</tr>
<tr>
<td>Double Sharing - Non AC</td>
<td>31,800</td>
<td>15,000</td>
<td>9,000</td>
<td>55,800</td>
</tr>
</tbody>
</table>

Note:
1. The accommodation fee is collected on an annual basis.
2. The deposit will be refunded when the student vacates the hostel on production of a 'Dues Clearance Certificate'. The hostel deposit amount is published along with the schedule of the hostel facilities fee.
3. Payment of Hostel Facilities Fee/Deposit - The hostel facilities fee/deposit may be remitted by a Demand Draft drawn in favor of MIT HOSTELS made payable at Manipal/ Udupi for MIT hostels. The following can be paid at the time of counseling or registration/admissions.
4. All members of the hostel will automatically be the members of the mess. The mess charges will be collected annually along with hostel facilities fees and utility charges. Annual charges for messes at the MIT Campus will be ₹ 16,000.

"Manipal University had played a transformational role in my life. Apart from the best education offered anywhere in India, I had enjoyed every single day of my two years spent there. It is a privilege to be able to support Manipal University. The place where I was first introduced to new ideas, technology and breakthrough opportunities. I remember like it was yesterday, that I finished my high school (grade, 12th) and wasn't sure about my career path. My desire was to leave my small home town and gain exposure at a global level. That is when I came across the ICAS program at Manipal University, which revealed the enormous possibilities in pursuing my career. As soon as I set foot on campus, my life began to shape into what I am today. I'm currently supporting Global E-commerce in one of the largest retailers in the world. All that was taught in ICAS was not only relevant to national boundaries but stretched to international educational standards. I support Manipal University ICAS in gratitude for the knowledge and experience it gave me and also with the improved experience will help future generations of ICAS students. Only at ICAS can one experience the maturity of considering the worldwide globe as their home.

I've successfully completed a Bachelor's Degree in Electrical and Computer Engineering Technology & Masters in Information Science, both from New Jersey Institute of Technology.

Thank you ICAS
Deependra Singh, ICAS Batch 2001
IT Business Analyst (Global E-commerce), Toys R Us – Wayne, New Jersey

APPLICATION FORM
International Centre for Applied Sciences
Application for the International Twinning Program in Engineering/Technology leading to a Bachelor's Degree

1. Course applying for

2. Name Mr/Ms First Middle Last

3. Sex Male ☐ Female ☐

4. Permanent Address

5. Date and Place of Birth Date/Month/Year City State Country

6. Present mailing address

7. Phone Fax

8. E-mail

9. Nationality

10. Name of parent / guardian or spouse a) Contact address:

11. b) E-mail

12. c) Profession of parent / guardian
10. List of schools & colleges in order of attendance (recent first)

<table>
<thead>
<tr>
<th>INSTITUTION</th>
<th>YEAR</th>
<th>X / XI GRADE</th>
<th>SUBJECT</th>
<th>MARKS% (e.g. PCMB)</th>
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</thead>
<tbody>
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</table>

11. Medium of Instruction

12. Qualifying Examinations

e.g. A level, CBSE, PUC, ICSE or equivalent examinations

<table>
<thead>
<tr>
<th>YEAR</th>
<th>EXAMINATION</th>
<th>SUBJECTS</th>
<th>MARKS %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Physics</td>
<td></td>
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<td></td>
<td>Chemistry</td>
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<td></td>
<td></td>
<td>Mathematics</td>
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<tr>
<td></td>
<td></td>
<td>PCM aggregate</td>
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</tbody>
</table>

*Or any other subjects mentioned in the prospectus

13. Signature of the student .............................................. Date ..............................................

14. Signature of the parent / guardian ................................ Date ..............................................

15. How did you come to know about ICAS Program?

16. CHECKLIST FOR DOCUMENTS TO BE ENCLOSED

- Mark list of the qualifying examination and other transcripts
- Birth certificate or any examination certificate showing date of birth
- Passport copy
- 2 Passport size photographs
- Application processing fees of ₹ 2000/- in the form of demand draft drawn in favor of Manipal University, and payable at Manipal / Udupi / Bangalore

Important note
Applications without the application processing fee will not be considered for admissions
Please do not send the originals (only photocopies)

FEE STRUCTURE

The approximate fees are shown below. There may be a variation in the fees at international institutions depending on the courses taken. The fees at Manipal University too are subject to change from year to year.

<table>
<thead>
<tr>
<th>Year</th>
<th>Campus</th>
<th>Course Fees</th>
<th>Living and Other Expenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Manipal</td>
<td>₹ 3,15,000</td>
<td>Approx. ₹ 60,000 - 75,000</td>
</tr>
<tr>
<td>2</td>
<td>Manipal</td>
<td>₹ 2,49,000</td>
<td>Approx. ₹ 60,000 - 75,000</td>
</tr>
<tr>
<td>3</td>
<td>USA, UK or Australia</td>
<td>Approx. US$ 15,000 - 25,000</td>
<td>Approx. US$ 8,000 - 10,000</td>
</tr>
<tr>
<td>4</td>
<td>USA, UK or Australia</td>
<td>Approx. US$ 15,000 - 25,000</td>
<td>Approx. US$ 8,000 - 10,000</td>
</tr>
</tbody>
</table>

Note:
1) Tuition fees for Year 3 and 4 will depend on the university to which the student will transfer. The above-mentioned figures are approximate. Living expenses in both Manipal University and international campuses are approximate.

2) The students who opt for B. Sc (Applied Sciences) degree and continue their studies at Manipal, have to pay the third year tuition fee as prescribed by the University from time to time.

3) Laptop computers will be given to all students admitted to this course.

Fee Refund Rules

No refund of fee is permitted on account of withdrawal/absence from college or other reasons once a student is admitted to any course of study. However, some concessions are made to students if they decide to withdraw before the commencement of classes. The details are as follows:

<table>
<thead>
<tr>
<th>Time of Withdrawal</th>
<th>Fee Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before commencement of classes</td>
<td>Full fee refund after deducting ₹ 10,000 deposit fee</td>
</tr>
<tr>
<td>After commencement of classes</td>
<td>No refund</td>
</tr>
</tbody>
</table>

Manipur University's decision is final on all matters related to fee refunds. Policies and regulations are subject to revision.