VIT University

A Case Study on Academic Progress

IUCEE Leadership Summit 2017
Agenda

- VIT: A Profile
- Faculty
- Curriculum
- Students
- Teaching and Learning
- Research
- Placement
- Industry & International Collaborations
- Best Practices
- Discussions
VIT University

Established as VEC - 1984

Deemed University - 2001

1st NAAC Accreditation - 2003

1st ABET Accreditation - 2008

VIT Campus, Chennai - 2010

VIT-AP, VIT-Bhopal - 2017
Schools in Vellore: 11

Enrollment in 2010: 17,200

Enrollment in 2016: 32,000

Faculty, Full-time: 1,607

PhD Enrollment: 3100
VIT University Campuses

Vellore Campus

Chennai

VIT Bhopal

VIT -AP (Amaravati)
VIT: Select Statistics
Student Selectivity
Applications vs Admissions

- **2016**: 9365 applications, 219949 admissions
- **2014**: 4456 applications, 193862 admissions
- **2011**: 3091 applications, 166493 admissions
- **2010**: 3133 applications, 157554 admissions
Faculty Quality

Total Faculty

2010

- Total Faculty: 810
- with Ph.D: 217

2016

- Total Faculty: 1607
- with Ph.D: 1047

Growth = 198%
Growth = 482%
Faculty with Ph.Ds – Projection to 2020

- **2020**: 100% (1900)
- **2018**: 80% (1750)
- **2014**: 52% (1458)
- **2010**: 25% (810)
<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Papers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>610</td>
</tr>
<tr>
<td>2013</td>
<td>519</td>
</tr>
<tr>
<td>2012</td>
<td>392</td>
</tr>
<tr>
<td>2011</td>
<td>322</td>
</tr>
<tr>
<td>2010</td>
<td>253</td>
</tr>
</tbody>
</table>
Research Quality:
% of Papers Published in Top 10% of Most Cited Journals

- 2014: 10.2%
- 2013: 8.3%
- 2012: 8.1%
- 2011: 8.0%
- 2010: 7.8%
## Research Output of Indian Universities

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Institute</th>
<th>Number of Publications</th>
<th>Total Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>VIT University</td>
<td>441</td>
<td>620</td>
</tr>
<tr>
<td>2.</td>
<td>IISc Bangalore</td>
<td>1835</td>
<td>1900</td>
</tr>
<tr>
<td>3.</td>
<td>AIIMS New Delhi</td>
<td>1175</td>
<td>1205</td>
</tr>
<tr>
<td>4.</td>
<td>IIT Bombay</td>
<td>1127</td>
<td>1284</td>
</tr>
<tr>
<td>5.</td>
<td>IIT Kharagpur</td>
<td>1598</td>
<td>1561</td>
</tr>
<tr>
<td>6.</td>
<td>IIT Madras</td>
<td>1261</td>
<td>1365</td>
</tr>
<tr>
<td>7.</td>
<td>IIT Delhi</td>
<td>1425</td>
<td>1430</td>
</tr>
<tr>
<td>8.</td>
<td>Anna University</td>
<td>888</td>
<td>1398</td>
</tr>
<tr>
<td>9.</td>
<td>Jadavpur University</td>
<td>1194</td>
<td>1355</td>
</tr>
<tr>
<td>10.</td>
<td>IIT Roorkee</td>
<td>865</td>
<td>1010</td>
</tr>
<tr>
<td>11.</td>
<td>University of Delhi</td>
<td>1082</td>
<td>1215</td>
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<tr>
<td>12.</td>
<td>IIT Kanpur</td>
<td>992</td>
<td>1061</td>
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<tr>
<td>13.</td>
<td>SRM University</td>
<td>233</td>
<td>372</td>
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<tr>
<td>14.</td>
<td>Banaras Hindu University</td>
<td>771</td>
<td>906</td>
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<tr>
<td>15.</td>
<td>PGIMERER Chandigarh</td>
<td>815</td>
<td>891</td>
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</tbody>
</table>
Research Degrees Awarded

2016: 340
2013: 104
2012: 73
2011: 54
2010: 41
VIT Student Publications:
(SET Conferences and Journals)

- 2014: 2917
- 2013: 2369
- 2012: 2145
- 2011: 1549
- 2010: 238
VIT Scholarship Support to Students (in Crores Rupees)

- 2014: 6.6
- 2013: 5.7
- 2012: 4.7
- 2011: 2.8
- 2010: 1.8
Funding for Research

- **2014**: 
  - VIT: 250
  - Govt: 750
  - Industry: 1500

- **2013**: 
  - VIT: 100
  - Govt: 600
  - Industry: 1400

- **2012**: 
  - VIT: 50
  - Govt: 1300
  - Industry: 1750

- **2011**: 
  - VIT: 50
  - Govt: 1200
  - Industry: 1500

- **2010**: 
  - VIT: 100
  - Govt: 700
  - Industry: 2000

*Amount in Lakhs*
Total Funding for Research (in Lakhs of Rs)

- 2014: 2744
- 2013: 2462
- 2012: 3550
- 2011: 2170
- 2010: 1295
## Funded Projects 2016-17 (Partial)

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Agency</th>
<th>No. of Project's</th>
<th>Total Amount</th>
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<tbody>
<tr>
<td>1</td>
<td>CSIR</td>
<td>1</td>
<td>4.85</td>
</tr>
<tr>
<td>2</td>
<td>DAE</td>
<td>2</td>
<td>58.13</td>
</tr>
<tr>
<td>3</td>
<td>DBT</td>
<td>2</td>
<td>61.80</td>
</tr>
<tr>
<td>4</td>
<td>DRDO</td>
<td>1</td>
<td>22.42</td>
</tr>
<tr>
<td>5</td>
<td>DRDO-AR&amp;DB</td>
<td>1</td>
<td>69.08</td>
</tr>
<tr>
<td>6</td>
<td>DST</td>
<td>11</td>
<td>279.32</td>
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<tr>
<td>7</td>
<td>DST-FIST</td>
<td>1</td>
<td>115.00</td>
</tr>
<tr>
<td>8</td>
<td>DST (Indo-Egypt)</td>
<td>1</td>
<td>6.30</td>
</tr>
<tr>
<td>9</td>
<td>DST (WS)</td>
<td>1</td>
<td>26.02</td>
</tr>
<tr>
<td>10</td>
<td>DST-SERB</td>
<td>8</td>
<td>214.71</td>
</tr>
<tr>
<td>11</td>
<td>ICMR</td>
<td>3</td>
<td>70.64</td>
</tr>
<tr>
<td>12</td>
<td>ICSSR</td>
<td>1</td>
<td>8.00</td>
</tr>
<tr>
<td>13</td>
<td>IGCAR</td>
<td>1</td>
<td>16.50</td>
</tr>
<tr>
<td>14</td>
<td>ISRO</td>
<td>1</td>
<td>12.70</td>
</tr>
<tr>
<td>15</td>
<td>NTRF</td>
<td>1</td>
<td>25.83</td>
</tr>
<tr>
<td>16</td>
<td>SAC</td>
<td>1</td>
<td>10.00</td>
</tr>
<tr>
<td>17</td>
<td>IE (India), Kolkata</td>
<td>1</td>
<td>0.94</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>38</td>
<td>1002.24</td>
</tr>
</tbody>
</table>
Enrollment with a Focus on Teaching & Research

2014
- 9% Bachelors
- 32.7% Masters
- 58.3% Ph.D
- Total: 29636

2013
- 7.2% Bachelors
- 33.9% Masters
- 58.9% Ph.D
- Total: 26584

2012
- 6.2% Bachelors
- 31.3% Masters
- 62.5% Ph.D
- Total: 21953

2011
- 4.9% Bachelors
- 32.5% Masters
- 62.6% Ph.D
- Total: 18902

2010
- 4.2% Bachelors
- 33.3% Masters
- 62.5% Ph.D
- Total: 17247
Job Offers from a Select Group of IT Companies

2014  Accenture, Cognizant, WIPRO, Infosys, TCS  7947
2015  Cognizant, Infosys, Accenture, WIPRO  5828
2014  Accenture, Cognizant, WIPRO  3934
2013  Accenture, Cognizant, WIPRO  3603
2012  Cognizant  1820
2011  Cognizant  1643
Academic Staff College (ASC) Programmes

- 2014: 162
- 2012: 48
- 2010: 45
- 2011: 32
<table>
<thead>
<tr>
<th><strong>Institutional Profile: 2010 to 2014</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Diversity</strong></td>
</tr>
<tr>
<td>2010: 60% North(9000) 200 International</td>
</tr>
<tr>
<td>2014: 65% -North (16000) 600 International</td>
</tr>
<tr>
<td><strong>Faculty with Ph.Ds</strong></td>
</tr>
<tr>
<td>2010: 217 out of 810</td>
</tr>
<tr>
<td>2014: 755 out of 1458</td>
</tr>
<tr>
<td><strong>Semester Credit System</strong></td>
</tr>
<tr>
<td>2010: Traditional</td>
</tr>
<tr>
<td>2014: Fully Flexible</td>
</tr>
<tr>
<td><strong>International Accreditation</strong></td>
</tr>
<tr>
<td>2010: ABET – USA For 2 Programs</td>
</tr>
<tr>
<td>2014: ABET – USA For 7 Programs</td>
</tr>
<tr>
<td><strong>Research Output</strong></td>
</tr>
<tr>
<td>2010: 441 Papers (Scopus Indexed)</td>
</tr>
<tr>
<td>2014: 2015 Papers (Scopus Indexed)</td>
</tr>
</tbody>
</table>
## Institutional Profile 2010 to 2014

<table>
<thead>
<tr>
<th>Program</th>
<th>2010</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patents in the Pipeline</td>
<td>18</td>
<td>35</td>
</tr>
<tr>
<td>Industry / Govt Funded Research</td>
<td>Rs 3.3 Cr (2 Centres of Excellence)</td>
<td>Rs. 9.5 Cr (5 Centers of Excellence)</td>
</tr>
<tr>
<td>Engineering Placement</td>
<td>1920 Offers (91% Placement)</td>
<td>5800 Offers (96% Placement)</td>
</tr>
<tr>
<td>Extension and Outreach Programs</td>
<td>Secondary Schools (600 teachers)</td>
<td>STARS, UHFA, Teacher Ed. (4000)</td>
</tr>
<tr>
<td>National Cultural and Athletic Prog.</td>
<td>13000 students</td>
<td>24000 students</td>
</tr>
</tbody>
</table>
Faculty Members’ Ph.D. Degrees are From:

- Indian Universities: 78%
- IITs & IISc: 18%
- NITs: 2%
- Foreign Universities: 2%

Faculty with Ph.Ds: 755 (in 2014)
Distinguished Visiting Faculty

2014

2013

2012

2011

2010

China & Asia Pacific

US & UK

China & Asia Pacific
Curricular Aspects
Curriculum Design and Development

1. Stakeholder Input
   (Faculty, Industry, Experts and Parents)

2. Program Design and Development
   (Faculty, BOS, Industry)
   - Revisions
   - New Programs

3. Teaching, Learning and Assessment

4. Graduation and Placement
   - Feedback from Students, Graduates
     (Semester & Annual)
   - Feedback from Alumni, Employers
     (Every Three Years)
Feedback System for Curriculum Enrichment

Employers Survey
Alumni Survey
Advisory Board
International Faculty Survey

Curriculum Development and Enrichment Process

Faculty Assessment of Course
Course level Student Survey
Quality Circle Input by Semester
Annual Outgoing Student Survey

External Input
Institutional Input
Analysis of Learning Outcomes
Top 5 Criteria (2014)

- Mastery of Subjects: 4.9/5.0
- Team Wok: 4.8/5.0
- Solve Problems: 4.8/5.0
- Effective Communication: 4.7/5.0
- Apply Math and Science: 4.6/5.0
Academic Flexibility

- Double Majors
- Program Migration
- Impact
- Integrated Double Degrees
- International Transfers BS and MS
- Engineering + Management
- BBA+ LLB

Mechanical to Comp, etc.
US, UK, Australia, Europe
Teaching and Learning
## Teaching and Learning: Reforms

<table>
<thead>
<tr>
<th>2008</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Measuring Input</td>
<td>✓ Assessing Output</td>
</tr>
<tr>
<td>✓ Limited industry input</td>
<td>✓ Broad stakeholder input</td>
</tr>
<tr>
<td>✓ Periodic assessment</td>
<td>✓ Continuous Quality Improvement</td>
</tr>
<tr>
<td>✓ National norms</td>
<td>✓ Global benchmarking</td>
</tr>
</tbody>
</table>
Student Services

2008

- Limited Use of Technology
- Paper Based Course Registration
- Faculty – Student Communication (face to face)
- Course Evaluations in 30 days
- Paper based records- limited access to students

2014

- Technology for Instruction and Learning Mgmt System
- 100% online Registration
- 24 / 7 Online communication & tel.messaging provisions
- Evaluation in 10 days
- Transparent online records – available all the time
Learning Outcomes & Student Feedback
(Student Satisfaction Index on 5 Point Scale)

- Project Based Learning: 4.8
- Class / Lab Instruction: 4.7
- Communication Skills: 4.5
- Problem Solving: 4.7
- Internship: 4.5
Admissions Process

National Advertisement (Nov-Feb)
   (Media and Web)

Entrance Examinations (April)
   (BTech, MTech, MBA, LLB, Ph.D)

Qualifying Examinations (May)
   (BCom, BSc, BCA, MCA, MSc)

Counseling on Campus (May - June)

Merit Based Selection (May - June)

Registration & Orientation (July)
Student Profile & Diversity

Percent Represents

40% - North
10% - East
5% - Center
10% - West
35% - South
Student Profile & Diversity (2010 - 2014)

- China: 562
- Middle East: 445
- Europe & Others: 93
- Africa: 60
Catering to Diverse Students’ Academic Needs

Honors Programs (High Performers)
- 10% of Students
  - 2596 students

Creation Labs
- Projects for Innovators
  - 630 students

Communication Skills and Placement Training

Tutorials / Student Assisted Learning (Slow Learners)
- 10% of Students
  - 255 students

International on-line Courses (MIT, Michigan)
- 21 Classes
  - 1263 students

Industry Sponsored Hack-a-thons to Solve Problems

Academic Programs
- All Students
  - 630 students
Catering to Diverse Students’ Needs

Regional Foods (35 Dining Halls)

21,000 students

70 technical & Cultural Clubs

12,500 students

Student Governance and Representation

All Students

Social / Cultural Programs

For All students

7,000 Students

Gravitas: Regional / National/International Cultural Festival

24/7 On-campus Health Facility

Advisors with Orientation & Awareness Programs
Promoting Research
# Promotion of Research

<table>
<thead>
<tr>
<th>Means of Promotion</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty Doing Ph. D (Full Time Faculty)</td>
<td>145</td>
<td>90</td>
<td>84</td>
<td>77</td>
<td>25</td>
</tr>
<tr>
<td>Faculty Doing Ph. D (Part Time Faculty)</td>
<td>398</td>
<td>223</td>
<td>394</td>
<td>573</td>
<td>690</td>
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<tr>
<td>Funds For Research Scholars (in Lakhs of Rs)</td>
<td>650</td>
<td>680</td>
<td>756</td>
<td>776</td>
<td>786</td>
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<tr>
<td>Providing Matching Grants (in Lakhs of Rs)</td>
<td>190</td>
<td>420</td>
<td>600</td>
<td>400</td>
<td>450</td>
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<tr>
<td>Providing Ph. D Allowance (in Lakhs of Rs)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>376</td>
<td>481</td>
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</tbody>
</table>
VIT Publications – Research Area

- Engineering, 1872
- Computer Science, 1053
- Bioscience, 1341
- Mathematics, 428
- Social Science, 79
- Environmental Science, 299
- Chemistry, 944
- Physics, Astronomy, Earth and Planetary Sciences, 896
- Business, Management and Accounting, 48
- Material Science, 910
- Medical, Pharmacology and Toxicology, 947
- Chemical Engineering, 572
- Multidisciplinary and Others, 242
- Energy, 219
Research Quality:
% of Papers Published in Top 10% of Most Cited Journals

- 2014: 10.2
- 2013: 8.3
- 2012: 8.1
- 2011: 8.0
- 2010: 7.8
VIT Students’ Conference Papers
(SET Conferences)

2917 Papers (2014)
2369 Papers (2013)
1549 Papers (2011)
2145 Papers (2012)
238 Papers (2010)
VIT Research Papers in Impact Factor Journals

IF < 1  IF 1 to 2  IF 2 to 3  IF 3 to 4  IF 4 to 5  IF 5 to 10  IF > 10

2010  2011  2012  2013  2014

0  50  100  150  200  250  300  350  400  450  500  550
Center for Sustainable Rural Development Projects
Funding: Rs 57 Lakhs (2014)

- Women Empowerment Training for 145
- Farmers Training for 380
- Trades, Computers and Soft Skills Training for 520

Rural Development Projects
TBI: Extension Services (2010-2014)

- Rapid Prototyping: Rs 318L
- Instrument Training: Rs 8L
- Instrument Use: Rs 6L
- Train Entrepreneurs: Rs 30L
- Incubator Services: Rs 29L
- Total Revenue: Rs 690L
TBI: International Services (2013-2014)

Train the Trainer Program: Africa

Number of Trainers Trained: 48

Revenue Generated: $3.8 million

Impact in Africa: Trained 3155

Impact in Africa: Set up 8 Incubators

Impact in Africa: 197 New Jobs
Institutional Social Responsibility

Free Higher Education
- Train 350 Teachers/year
- STARS (230 students)
- UH Education (852 students)

Rural Development
- Train Farmers: 500/Year
- Train Women for jobs: 200
- Trade skills for 200 youth

Education
Environment
Rural Development
Health, Services

Environment:
- 1.2 Lk Trees in Vellore
- Clean Palar River
- Clean Vellore

Health
- 2000 student Blood Camp
- Free Eye Test for 1500

Services
- NSS Rural Programs by 600
- NCC 200
- YRC
Collaborations

**Academic and Research:**
- IITM, IGCAR, NAL, DRDO,
- CECRI, RGCB, ISRO

**Industry:**
- ARAI, Tata Motors, Mahindra, Wipro,
- Danfoss, IBM, CISCO, Microsoft,
- Honeywell, Accenture, Cognizant

**Social:**
- Red Cross, Clean Vellore,
- Clean Palar, NSS, Biocon

**International:**
- Purdue, MGH, MIT, Harvard, UMass
- SUNY, Michigan, RIT, Princeton,
- Cornell, Chicago, Queen Mary, ANU
## VIT Publications and Citations 2010-2014

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Publications</th>
<th>Citations</th>
<th>Citations Per Publication</th>
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<tbody>
<tr>
<td>International Collaboration</td>
<td>787</td>
<td>1896</td>
<td>2.9</td>
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<tr>
<td>National Collaboration</td>
<td>798</td>
<td>3321</td>
<td>4.3</td>
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<tr>
<td>Single Author</td>
<td>172</td>
<td>412</td>
<td>2.4</td>
</tr>
</tbody>
</table>

Source: Elsevier
VIT and Industry Academic Collaboration

B.Tech
3 + 1 Years

M.Tech
1 + 1 Years

3 Years

1 Year

VIT

ARAI

1 Year

1 Year
VIT – Industry – International Collaboration

M.S  2 Years  VIT  1 Semester  ARAI  1 Semester  Tennessee Tech.  1 Year
International Collaboration - USA
M.S. in Engineering and Management

MS (Engineering / Management) 2 Years

VIT

1 Year Engineering or Business

University of Michigan

1 Year Engineering or Business
International Collaboration – USA&UK

B.S Engineering

VIT

Purdue, SUNY, U Mass, RIT, Michigan, Queen Mary

2 Years

2 Years
International Collaboration - Australia

B.S Engineering

2 Years

VIT

ANU, RMIT, QUT, Deakin

2 Years
International Collaboration - China

Guangdong University

B.Sc Multimedia

3 Years

VIT

1 Year
International Collaboration - China

Wuhan University & Neusoft

B.Sc Computer Science

2/3 Years

VIT

2/1 Years
Library Resource Utilization (in Rs)

- 2010: 2.6 Cr
- 2011: 3.2 Cr
- 2012: 3.8 Cr
- 2013: 3.8 Cr
- 2016: 14.4 Cr
Library Resources

- Books : 4,14,683
- E-books : 2,19,792
- Periodicals : 480
  - International: 170
  - National : 310
- Back volumes : 47,770
- Online Journals : 23,299 (23 Databases)
- Video / Audio : 61,586
- NPTEL e-learning complete
Use for Research by Students and Faculty
(Data from Elsevier)

Number of Reference Hits by VIT

20% growth

<table>
<thead>
<tr>
<th>Year</th>
<th>Hits</th>
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<tbody>
<tr>
<td>2010</td>
<td>376,792</td>
</tr>
<tr>
<td>2011</td>
<td>395,235</td>
</tr>
<tr>
<td>2012</td>
<td>460,868</td>
</tr>
<tr>
<td>2013</td>
<td>497,453</td>
</tr>
<tr>
<td>2014</td>
<td>642,176</td>
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</tbody>
</table>
Scopus Usage at VIT University

Search for Scopus Indexed Papers
(Source: Elsevier)
VIT E-Governance: Integrated Functions

- Admission
- Academics / Research / Exams
- Finance
- Purchase
- Event Administration
- Hostel Management
- Human Resource Management
- Alumni
Best Practices in Student Innovation (Last 3 Years)

Auto Projects: 20
- 1280 Participants
- 40 International Awards

Tech. Hackathons: 25
- Partners: MIT, Harvard
- US/India/Uganda Events
- 12 International Awards
- 6000 Participants

Innovation in Medical Devices
- 15 Patents Pending
- 3800 Participants

Electronics Projects:
- 5 Patents Pending
- Drones to Monitor Palar
- 4500 Participants

Creation Labs
Innovative Teams
Understanding Industry’s Needs
Finding Solutions in the Creation Labs
Discussing a Project

**Creation Labs**

Building a Prototype & Testing the Concept
Testing another Concept

Winning an Award

Ready for a Patent
Creation Labs & International Partnership:
VIT- MGH, Harvard, MIT, Purdue, SUNY, RIT
Building another Prototype

CAMTech India Program

Winning the 1st Prize
Leprosy: VIT Innovators with a Tech Solution

Challenge: Leprosy Detection

130,000 in India

Leprosy is undiagnosed underdeveloped areas, causing:

- Disabilities
- Stigma

#Jugaadathon
Taking the Leprosy Project to Switzerland
Best Practices in International Collaboration

USA:
Michigan/MIT/SUNY/RIT
- Dual Masters (400 students)
- Dev. Programs (220 faculty)
- Joint Course (1200 students)

Teaching
Research
Degree Programs
Exchange

Africa:
- UNIDO Training-240 Trained
- Degree Programs–270 students

China:
Wuhan, GDUT
- 3+1, 2+2, BSc degree
- 450 students

Germany & France:
Lebnis & Fontys
- Dual degree (142 students)
- Internship (400 students)

80
VIT: Governance Structure

- Chancellor
  - Vice Chancellor
    - Registrar
      - HR, Finance, Administration
    - Pro Vice Chancellors (Vellore)
      - Deans of Schools - 13
        - Division Chairs
    - Pro Vice Chancellor (Chennai)
      - Deans of Schools - 8
        - Division Chairs
VIT: Governance Structure

Board of Management
(Chancellor, VC, ProVCs, External Members, Faculty Reps)

Academic Council
(Chancellor, VC, ProVCs, Deans, External Members, Faculty Reps)

Planning and Monitoring Board
(Chancellor, VC, ProVCs, Deans, External Members, Faculty Reps)

Finance Committee
(Chancellor, VC, ProVCs, FOs, Auditors, External Members, Faculty Reps)

Research Advisory Committee
(Chancellor, VC, ProVCs, Deans, External Members, Faculty Reps)

Board of Studies - 21 Schools
(Deans, Program Chairs, Division Chairs, Faculty, Alumni, Student Reps, Industry Reps, Experts)
International Accreditation: ABET, USA

- 2014: 14
- 2012: 7
- 2010: 4
- 2008: 2
## National Institutional Ranking Framework

<table>
<thead>
<tr>
<th>Institution Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indian Institute of Technology Madras</td>
</tr>
<tr>
<td>Indian Institute of Technology Bombay</td>
</tr>
<tr>
<td>Indian Institute of Technology Kharagpur</td>
</tr>
<tr>
<td>Indian Institute of Technology Delhi</td>
</tr>
<tr>
<td>Indian Institute of Technology Kanpur</td>
</tr>
<tr>
<td>Indian Institute of Technology Roorkee</td>
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<tr>
<td>Indian Institute of Technology Guwahati</td>
</tr>
<tr>
<td>Anna University</td>
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<tr>
<td>Jadavpur University</td>
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<tr>
<td>Indian Institute of Technology Hyderabad</td>
</tr>
<tr>
<td>National Institute of Technology Tiruchirappalli</td>
</tr>
<tr>
<td>National Institute of Technology Rourkela</td>
</tr>
<tr>
<td>Vellore Institute of Technology</td>
</tr>
</tbody>
</table>
Thank You!