The State of the UP College of Engineering

Aura C. Matias, Ph.D.
Dean
• The largest college, consisting of nearly 5,000 undergraduate and 800 graduate students with 255 faculty members

<table>
<thead>
<tr>
<th>Chemical Engineering</th>
<th>Geodetic Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institute of Civil Engineering</td>
<td>Industrial Engineering &amp; Operations Research</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Electrical &amp; Electronics Engineering Institute</td>
<td>Mining, Metallurgical &amp; Materials Engineering</td>
</tr>
</tbody>
</table>
Undergraduate Students

Oblation Scholars
18 for 2011-2012
25 for 2012-2013
20 for 2013-2014

52.17% of Qualifiers come from PSHS system, municipal science high schools and top private HS
### Graduation Statistics

#### No. of Graduates (2008-2014)

<table>
<thead>
<tr>
<th>YEAR</th>
<th>No. of Graduates with Honors</th>
<th>Cum laude</th>
<th>Magna cum laude</th>
<th>Summa cum laude</th>
<th>% of Total Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>36</td>
<td>13</td>
<td>0</td>
<td>11.75%</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>48</td>
<td>20</td>
<td>3</td>
<td>13.7%</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>68</td>
<td>18</td>
<td>5</td>
<td>16.49%</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>78</td>
<td>36</td>
<td>6</td>
<td>21.24%</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>94</td>
<td>26</td>
<td>6</td>
<td>20.22%</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>108</td>
<td>33</td>
<td>5</td>
<td>21.76%</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>121</td>
<td>54</td>
<td>4</td>
<td>21.83%</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>92</td>
<td>46</td>
<td>8</td>
<td>20.98%</td>
<td></td>
</tr>
</tbody>
</table>
# Enrollment & Graduation Statistics

## The National Graduate School of Engineering (NGSE)

<table>
<thead>
<tr>
<th>Semester</th>
<th>2011 - 2012</th>
<th>2012-2013</th>
<th>2013-2014</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td>MS</td>
<td>708</td>
<td>695</td>
<td>760</td>
</tr>
<tr>
<td>PhD</td>
<td>114</td>
<td>112</td>
<td>116</td>
</tr>
<tr>
<td>Total</td>
<td>822</td>
<td>807</td>
<td>876</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. of Students who Graduated</th>
<th>1&lt;sup&gt;st&lt;/sup&gt;</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt;</th>
<th>Summer</th>
<th>1&lt;sup&gt;st&lt;/sup&gt;</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt;</th>
<th>Summer</th>
<th>1&lt;sup&gt;st&lt;/sup&gt;</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt;</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>18</td>
<td>39</td>
<td>1</td>
<td>24</td>
<td>57</td>
<td>23</td>
<td>18</td>
<td>43</td>
<td>10</td>
</tr>
<tr>
<td>PhD</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>22</td>
<td>44</td>
<td>1</td>
<td>29</td>
<td>62</td>
<td>24</td>
<td>20</td>
<td>46</td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td>67</td>
<td></td>
<td></td>
<td>115</td>
<td></td>
<td></td>
<td>78</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
International Competitions

BOSCH Kart Competition
2nd Place

Shell Eco-Marathon
KL, Malaysia, July 8-10, 2011

Won the 2011 Urban Concept Diesel @ 59.9 km/liter in the 2nd Shell Eco-Marathon.
Congratulations!
Paolo Gabriel Cacnio
Miguel Isidro Carino
Rhio Alleli Santos
Andrew Vincent Yap

1st Place in the
5th Industrial Engineering
Competition
ASEAN Level
held in Bandung Indonesia
January 2012

From your Industrial Engineering and Operations Research family
CONGRATULATIONS

to the following students from the
DEPARTMENT OF COMPUTER SCIENCE
for representing
Asia Pacific, Middle East, and Africa
and winning

1st place for their research entitled:
“SOUL: Secure Online USB Login System”
at the
2012 Kaspersky International Cup of the
IT Security Conference for Young Professionals
held at the
Delft University of Technology in the Netherlands
11-13 May 2012

KEVIN ATIENZA, ROD XAVIER BONDOC,
AND JOSHUA ARVIN LAT
Faculty Adviser: Susan Pancho-Festin, Ph.D.
Student Scholarships

Socialized Tuition and Financial Assistance Program (STFAP) SY 2013-2014

Brackets A – 3,290 students
B – 160
C – 740
D – 485
E₁ – 118
E₂ – 85
Total: 4,878 students

Socialized Tuition System (ST) SY 2014-2015

ND – 1,468 students
PD33 – 1,499
PD60 – 1,355
PD80 – 445
FD – 122
FDS – 111
Total: 4,900 students

140 COE Scholarships available
❖ 82 scholars for AY 2014-2015
Faculty Profile

University of the Philippines
College of Engineering

No. of Faculty Members

153 – Temporary
90 – Permanent
9 – Adjunct. Prof
2 - Prof Emeritus

<table>
<thead>
<tr>
<th>Year</th>
<th>BS</th>
<th>MS</th>
<th>PHD</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>56</td>
<td>68</td>
<td>50</td>
<td>174</td>
</tr>
<tr>
<td>2008</td>
<td>72</td>
<td>70</td>
<td>47</td>
<td>189</td>
</tr>
<tr>
<td>2009</td>
<td>87</td>
<td>68</td>
<td>49</td>
<td>204</td>
</tr>
<tr>
<td>2010</td>
<td>101</td>
<td>74</td>
<td>49</td>
<td>224</td>
</tr>
<tr>
<td>2011</td>
<td>78</td>
<td>90</td>
<td>63</td>
<td>231</td>
</tr>
<tr>
<td>2012</td>
<td>76</td>
<td>88</td>
<td>68</td>
<td>232</td>
</tr>
<tr>
<td>2013</td>
<td>83</td>
<td>88</td>
<td>70</td>
<td>242</td>
</tr>
<tr>
<td>2014</td>
<td>84</td>
<td>89</td>
<td>70</td>
<td>243</td>
</tr>
</tbody>
</table>

147 Faculty Plantilla Items

40% of Faculty are on non-tenure tracks
### Faculty Monthly Salary

<table>
<thead>
<tr>
<th>Rank</th>
<th>Gross Monthly Salary (PhP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructor 1</td>
<td>23,044</td>
</tr>
<tr>
<td>Asst Prof 1</td>
<td>31,351</td>
</tr>
<tr>
<td>Asst Prof 7</td>
<td>34,608</td>
</tr>
<tr>
<td>Assoc Prof 3</td>
<td>47,601</td>
</tr>
<tr>
<td>Professor 1</td>
<td>59,964</td>
</tr>
<tr>
<td>Professor 12</td>
<td>78,916</td>
</tr>
</tbody>
</table>

### Position

<table>
<thead>
<tr>
<th>Position</th>
<th>Ave. Monthly Salary (PhP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadet Engineer</td>
<td>24,600 to 34,500</td>
</tr>
<tr>
<td>Design or Product Engineer</td>
<td>35,200 to 50,000</td>
</tr>
<tr>
<td>Engineering Manager</td>
<td>61,600 to 109,000</td>
</tr>
</tbody>
</table>

- Free Tuition for Graduate Studies
- Study Leave with Pay Privileges
Faculty PCA/TRG

Professorial Chair Awards and Teaching Research Grants

92 PCA holders in 2013-2014 (P72,000-P240,000/yr)

PCA shortfall – 67

33 TRGs awarded in 2013-2014 (P60,000/yr)

TRG shortfall – 51
The Role of the College of Engineering in Promoting S&T Education in the Country and National Development
Philippines need specialized engineers for solutions thru R&D.
- disaster mitigation to poverty alleviation,
- from agriculture to semiconductor industries,
- ensure a sustainable environment and affordable energy for the future
- Produce low cost indigenous technologies

**ERDT PROGRAMS**
- MS and PhD Scholarships
- Sandwich Research Program
- Faculty Development Program
- Post Doctoral Program

**ERDT: “Serving the Nation thru Human Resource Development”**
Engineering Research and Development for Technology

R&D MANPOWER
Academe (Project Leaders and Faculty Advisers)
Graduate Students and ERDT Scholars
Government Researchers

ERDT PARTNERS
Government (funding support, policies)
Intl Universities (student and personnel mobility)
Industry (linkage, internships and thesis partners)
Alumni (support and linkage)

Role of UPD in ERDT
- Implement High Impact Research
- Create Innovation thru Technoentrepreneurship
- Bring S&T closer to Filipinos

Challenges
- Lack of space and equipment to conduct research
- Limited funds for research
- Few Incentives for research
- Long Procurement
National Engineering Complex Master Plan

The proposed master site development plan is still subject to BOR for approval
To become the National Center of Excellence for Engineering & Technology Innovation, the long-term development goals are to:

- Increase undergraduate intake by 50%
- Increase graduate student population by 100%
- Produce approximately 1000-1300 engineering graduates per year
- Produce approximately 300-400 MS and PhDs per year
- Produce at least 100 scientific publications per year
- Produce at least 10 patent applications per year
- International accreditation of all engineering programs in UP
- Upgrade UP’s QS ranking in engineering education in Asia and the World
- Contribute substantially to the improvement of the Philippine Competitiveness Index in the areas of S&T Infrastructure, Technological Readiness and Innovation
How can you help?

• Choose to support a faculty, a student or a department/institute
• Donate your time through mentoring students and faculty
  • Avail of the Balik Scientist Program of DOST
• Cash donations are managed by the UPERDFI in the Philippines

Matching Gift:
For every P1M raised, a matching gift of P1M shall be donated between Dr. Magdaleno Albaraccin and Engr. Isidro Consunji
Target amount of P10 Million ($250,000) until December 2015.
Invitation for Support

University of the Philippines
College of Engineering

Scholarships
• Full scholarships
  • $2750 - $3250 a year
    (tuition & monthly stipend)

• Study Grants
  • $750 - $1250 a year
    (monthly stipend only)

• The scholarship will carry the name of the donor.

Student Research Projects and Competitions
The UPERDFI maintains a fund pool for these purposes, like the College of Engineering Fighting Fund, with donors appropriately cited.

Student Internships and Faculty Exposure Programs
You may want to open your organization to host these students and faculty members during the Midyear Term (June-July).
Professorial Chair Award (PCA)

ANNUAL (5 years)   ENDOWMENT

• Category 1 chair awards $1800 a year   $ 50,000
• Category 2 chair awards $3,000 a year   $ 75,000
• Category 3 chair awards $6,000 a year   $150,000

Teaching and Research Grants (TRG)

• $1,500 a year

The PCA/TRG will carry the name of the donor
Classroom or Laboratory Upgrade

• Putting up a set of multimedia equipment, ergonomic chairs and desks, air conditioning, lighting, and sunlight breakers, requires ₱500,000 per room, and entitles the donor to naming rights to the room.

• Laboratories require larger amounts depending on the specifications. UPERDFI monitors the disbursement of the funds for purchases and construction. Donors can have their own design, and also bring their own workforce and equipment/furnishings, and the equivalent cost incurred will be reflected as the donated amount.
US Dollar Donations

• US-based donors for remittance to UPERDFI may be coursed through the Friends of UP Foundation in America (FUPFA) a 501(c) 3 charitable org
  • Check or Paypal
  • c/o Polly S. Cortez Mobile (925) 876-7695
    Executive Director-Vice Chair
    polly@pollycortez.com or
    upfoundationamerica@yahoo.com

The Acknowledgement of Donation issued by the FUPFA is recognized by the US Internal Revenue Service.
Aura C. Matias  
Dean, UP College of Engineering  
dean@coe.upd.edu.ph  
+63 917 529 2872

COE Website: [http://coe.upd.edu.ph/](http://coe.upd.edu.ph/)

**U.P. Enggkansya Fund for Excellence**  
Thank you!

UPAA SFO
UPAA GLA
UPAA NJ
BEFAA
TA Overseas East
TA West
Woodbury University
UPERDFI
FUPFA