Name and Rank: PERAMBUR S NEELAKANTASWAMY

Department and College: Computer & Electrical Engineering and Computer Science

A. Teaching

1. Please list all the courses taught during each semester and include results of the course evaluations.

<table>
<thead>
<tr>
<th>COURSES TAUGHT</th>
<th>Number of students responded</th>
<th>Percent responded</th>
<th>Overall rating of the Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summer 2010 courses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEL 4930 RF CMOS DEVICES</td>
<td>26/(24 +3)</td>
<td>97</td>
<td>1.96 and 1.12</td>
</tr>
<tr>
<td>EEL 6323 RF CMOS DEVICES</td>
<td>2/2</td>
<td>100</td>
<td>1.00 and 1.00</td>
</tr>
<tr>
<td><strong>Fall 2010 courses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEL 3112 CIRCUITS 2</td>
<td>19/22</td>
<td>86.4</td>
<td>1.53 and 1.21</td>
</tr>
<tr>
<td>BME 6762 BIOINFORMATICS</td>
<td>10/18</td>
<td>55.6</td>
<td>2.44 and 2.78</td>
</tr>
<tr>
<td><strong>Spring 2011 courses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEL 3470 EM FIELDS &amp; WAVES (4 credits)</td>
<td>.../24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TCN 6122 NEXT GEN TELECOM</td>
<td>.../7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEL 4930 NEXT GEN TELECOM</td>
<td>.../5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please, include copies of “Student Perception of Teaching” summary forms for each class. (Copies enclosed)
2. Doctoral and Master's Degree Committees

a) Number of doctoral committees chaired to completion: NIL
List student names: _____________________________________________

b) Number of doctoral committees currently chaired: 2 + 1
List student names: a) SHARMISTHA CHATTERJEE; b) RAEF YASSIN;
c) MHD. DABBAS (ENROLLING FOR SUMMER 2011)

c) Participation in doctoral committees: 3 as Chair + 1 as Member

d) Number of Master's degree committees chaired to completion: 1
List student names: GEORGE A. THENGUM PALLIL (DECEMBER 2010)

e) Number of Master students currently supervised: TWO (2)
List student names: (a) DEEPTI PAPPESETTY; (b) ALICE DUPONT
f) Participation in Master's degree committees: 2 as Chair

3. Peer Evaluation

Include the Peer-evaluation Report (if available)

B. Research and Other Creative Activities (from May 1, 2010 – May 1, 2011)

1. List all publications during the last calendar year:
Classify papers as follows: (a) Books, (b) Journal papers (published), (c) Conference papers (published), (d) Other publications (published), (e) Submitted papers, pending

(a) Books: TWO being written under contract:

(i) Electromagnetic Composite Materials: Applications, Analysis and Design
(Contracted to write for: DesTech Publications Inc., PA)

(ii) Introduction to Bioinformatics: Algorithms and Computational Methods
(Contracted to write for: Linus Publications Inc., NY)

(b) Journal papers (published): (TWO published + THREE in press) + TWO Journal Editorials


P. Neelakanta, M. Pavlovic and H. Zhuang (Guest Eds.): Editorial for – IJBRA Special Issue on: “Viral DNA Analysis and Rational Vaccine Design” (In press)


Conference papers (published): (TWO)

P. S. Neelakanta: Building an infrastructure for research via international cooperation, Proceedings on: The Fifth International Symposium: Development of the Global Double Degree Program (GDDP), August 6, 2010, The University of Tokushima, Japan

P. S. Neelakanta, P.S.: Behavior of colloidal sol in the presence of combined electric and magnetic fields: Application to water purification efforts. Invited Lecture/Paper presented at: International Affiliated Double-Degree Program: Summer School August 2-6, 2010, The University of Tokushima, Japan

2. List all research grants during the last academic year:
Classify research grants as (a) received grants, (b) submitted, but pending, (c) submitted but rejected. Indicate the title of the grant, type of the grant (Research, Equipment, or Service) your role (PI, co-PI, or Investigator), the amount, time period, and grantor.

(a) Proposal developed as Co-PI

CO-PI: Development of Sustainable and Multi-Functional Polymer Concrete Coatings and Restoration and Protection of Constructed concrete Infrastructure as well as New Structures (Dr. M. Arockiasamy PI) – (Submitted in Fall 2009/NSF –Multifunctional Materials/Materials for Sustainability: Status: Revised and resubmitted in Spring 2010)- Not funded, but resubmission is attempted
3. List participation in meetings of professional societies, special seminars, or other professional activities:

(A) GUEST EDITORSHIP (TWO)
1. Guest Editor - Special Issue for *International Journal of Bioinformatics Research and Applications* (IJBRA): Viral DNA Analysis and Rational Vaccine Design
2. Guest Editor - IJCNC Special Issue on: "Latest Trends in Communication Technologies", *International Journal of Computer Networks and Communications*

(B) INVITED SPEAKER
(a) *The Fifth International Symposium: Development of the Global Double Degree Program (GDDP)*, August 6, 2010, The University of Tokushima, Japan
(b) *International Affiliated Double-Degree Program: Summer School* August 2-6, 2010, The University of Tokushima, Japan

(C) Reviewer: For a few journal and conference papers
(D) PhD Examiner: For foreign universities

4. List other items of significance such as awards, prizes, and special recognition by professional community, etc.:

GUEST EDITORSHIP AS ABOVE

5. Student advising activities
(i) Graduate Advisor, EE Program
(ii) Member Graduate Committee, CEECS

C. Service
1. List membership and chairmanship on all committees, indicating the time spent in each during last year:

   Member Graduate Committee, CEECS

2. List other service activities
   Reviewer: For a few journal and conference papers

D. Other University Duties (where applicable):
1. Describe duties: NIL

2. Evaluation by appropriate official: N/A

Include your latest resume: Included
ACADEMIC/RESEARCH PLAN FOR 2011-12

Present your academic plan:

(1) Plan to develop and offer new courses: title, semester, U or G
   
   (a) Update the Bioinformatic course BME 6762 with the content-revisions to include the state of the art topics like bio-/medical-imaging informatics
   (b) Develop an exclusive EM course (Grad level) with emphasis on EM media (material) considerations such as GHz-THz support

(2) Plan to develop online course: title, time schedule

(3) Other creative activities relating to academics

Present your detailed research plan including detailed information on:

(1) Funded projects and potential buy-outs: Nil

(2) Ph.D. and Master students to be supervised
   THREE CANDIDATES:
   a) SHARMISTHA CHATTERJEE; b) RAEF YASSIN; and
c) MHD. DABBAS (BEING ENROLLING FOR SUMMER 2011)

(3) Potential publications (journal, conference, etc.)
   (a) As a personal policy, I insist and implement at least 2 journal papers plus a conf. paper (for graduation) for every Ph D student that I supervise. As such with the progression of dissertation efforts of 3 PhD candidates I expect a good productivity on publications
   (b) Mostly, I encourage my MS students also to publish. Currently, I supervise 2 MS students and I expect corresponding output on publication efforts
   As a sequel to three (3) papers in press, 3 journal papers are under preparation

(4) Proposals to be submitted (Tentative titles, Tentative amount, Agency/Industry, Your role (PI, Co-PI, etc.)
   Planning to write One/Two White paper proposals for AFOSR as per current BAA in Summer/Fall 2011 on:
   
a. Radar-related Materials
b. Radar Detection of Stealth Targets