Briefings on the HYP project

Zhang Louxin
Department of Mathematics
Honors Year Project

• The aim of HYP is to provide you an unique opportunity in research

• Through the HYP, you are able to:
  -- enhance knowledge in mathematics,
  -- experience creative thinking,
  -- acquire special communication skills,
  -- interact and forge closer ties with the faculty.
Individual Project (IP) vs Project Group (PG)

• Students with CAP > 4.20 are required to take IPs. The others joint PGs. Cross taking needs approval on a case-by-case basis;
• The emphasis of IP are on both mathematical novelty and writing, whereas group project is on writing with less emphasis on novelty;
• Students cannot get A or above by doing PG.
Work on schedule for IPs

1. Identify supervisor
2. Intro. talk (IT)
3. Intermediate talk (MT)
4. Thesis and final presentation
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- Secure an advisor together with a project by the end of 2\textsuperscript{nd} week (25 Aug 2017). Penalty will be applied otherwise.
- Student could appeal for joining project group if fail to get a supervisor before the deadline.
- Students may work under an external supervisor. But you need to
  -- identify an internal supervisor
  -- seek department approval about the math content of project.
- A preliminary talk on the project in the middle of the sem. 1, AY17/18
- Attending four other introductory talks

- An intimidate talk on your project in the beginning of the sem. 2, AY17/18
- Attending four other intermediate talks

- Mark penalty will be applied if talk attendance is less than required.
• Submit thesis after the recess week in the Sem 2. AY17/18;

• Orally defense your project in the end of the Sem 2. AY17/18;
• Attend five such other talks;

• Mark penalty will be applied for talk attendance is less than required or late thesis submission.
• Talk attendance for different stages are not exchangeable
• Oral presentation is compulsory. In other words, student will get F if he/she does not present the thesis project.
Format of the HYP thesis

The submitted thesis must:

• be double-spaced

• be formatted with font size 12pt, and with 3cm margins in each direction (top, bottom, left, and right)

• ideally be 30 to 45 pages long excluding figures and tables. (More than 55 pages is too long.)
Schedule for group project

Group project is conducted according to the supervisor’s arrangement

<table>
<thead>
<tr>
<th>PS01</th>
<th>Game theory and its applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS02</td>
<td>Some preservers problem on matrices</td>
</tr>
<tr>
<td>PS03</td>
<td>Monto Carlo Method and its Applications</td>
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<tr>
<td>PS04</td>
<td>Web graph: Mathematics of internet</td>
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<tr>
<td>PS05</td>
<td>Topics in differential equations</td>
</tr>
<tr>
<td>PS06</td>
<td>Deep Learning</td>
</tr>
<tr>
<td>PS07</td>
<td>Peano Arithmetic and its Models</td>
</tr>
<tr>
<td>PS08</td>
<td>Topics in Coding Theory</td>
</tr>
<tr>
<td>PS09</td>
<td>Special functions</td>
</tr>
<tr>
<td>PS10</td>
<td>Why Are NUS Classes Never Cancelled Because of Hurricanes?</td>
</tr>
<tr>
<td>PS11</td>
<td>Data-driven modeling and simulation</td>
</tr>
</tbody>
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Key Points

1. Work on schedule
2. Work hard in research and never give up
3. Write thesis in your own words, like writing a booklet.

For more detail, please refer to our department website: