Interdisciplinary Students-centered Innovation and Entrepreneurship Programme of HIT

Cheng Qiaolian
Harbin Institute of Technology
April 13, 2018
Background

- The State Council issued *Suggestions on deepening the reform of innovation and entrepreneurship education in Colleges and Universities* in 2015.
- A variety of innovative and entrepreneurial activities have been carried out in HIT with the joint efforts of schools, supervisors and students.
Interschool Platform Promotes Interdisciplinary

HIT Innovation Square

College Students’ Innovation and Entrepreneurship Center

Astronautics
Telecommunication
Material Science
Mechanical Engineering
Architecture
Civil Engineering
Science
Energy Science
Economics
Management
Humanities
Computer Science
Law
Chemical Engineering
Media

21 practice bases for innovation and entrepreneurship education for college students
Interdisciplinary Students-centered Innovation & Entrepreneurship Programme

01 Project

02 Competition

03 Training Camp
Students-centered

Step 1
Students’ interests and ideas

Step 2
Spontaneously selecting partners from different disciplines and forming a team

Step 3
Finding and consulting mentors

Step 4
Executing the projects together

Innovation & Entrepreneurship Programme

Support Platform of HIT
Part 2
Innovation & Entrepreneurship Project
HIT Lilac small satellite students innovation team

- An open team of 16 core backbone and more than 40 students
- It covers 8 disciplines: Aeronautics and Astronautics, Mechanics, Control, Machinery, Electrical, Telecommunication, Thermal energy, Computer science
- Including undergraduates, master students and doctoral students.
In September 20, 2015, the first Chinese satellite, "LilacSat-2", which was independently designed, developed and controlled by university students, was launched successfully at the Taiyuan satellite launch center.

In April 18, 2017, the second satellite, "LilacSat-1", which was independently designed, developed and controlled by HIT student team, was transported to the international space station by cargo aircrafts.

The team is currently undertaking the design and development tasks of third satellite.
Entrepreneurship Project

HIT Students' Innovation and Entrepreneurship Center
In October 2015, Le poly (Harbin) company was established.
In 2016, it was rated as "the most investment value robotic company" by the media organization.
1 billion valuation now.

Robot show in the countdown to Chinese New Year Gala

Beijing time in 2018 Pyeongchang Winter Olympics
Entrepreneurial Team

(Leng Xiaokun, Founder, Doctoral student of Computer Science)

(Chang Lin, Co-founder, CEO, Doctoral student of Computer Science)

(An Ziwei, Co-founder, COO, Bachelor of Management)

(Zhu Zheng, CTO, Doctor of Electrical Engineering)

(Cai Hegao, Chief Scientist)
Part 3  Innovation & Entrepreneurship Competition
<table>
<thead>
<tr>
<th>No.</th>
<th>Competition Name</th>
<th>Subject Character</th>
<th>Competition Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RoboMaster</td>
<td>Interdisciplinary</td>
<td>International/National</td>
</tr>
<tr>
<td>2</td>
<td>ROBOCON</td>
<td>Interdisciplinary</td>
<td>International/National</td>
</tr>
<tr>
<td>3</td>
<td>3DDS</td>
<td>Interdisciplinary</td>
<td>National/Provincial</td>
</tr>
<tr>
<td>4</td>
<td>China Innovation&amp;Entrepreneurship Competition</td>
<td>Interdisciplinary</td>
<td>National/Provincial</td>
</tr>
<tr>
<td>5</td>
<td>VEX Robotics Competition</td>
<td>Interdisciplinary</td>
<td>International/National</td>
</tr>
<tr>
<td>6</td>
<td>National University Student Socail Practice and Science Contest on Energy Saving &amp; Emission Reduction</td>
<td>Interdisciplinary</td>
<td>National</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Awards

Awards for competitions in 2015/2016 school year

Awards for competitions in 2016/2017 school year
Part 4
Innovation & Entrepreneurship Training Camp
第一届哈工大双创训练营

Innovation and Entrepreneurship Winter Camp

Hi-Square 哈工大创新广场

Hi，来创造不一样的未来！
# Participants

## Information statistics of camp participants

<table>
<thead>
<tr>
<th>No.</th>
<th>Discipline</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Management</td>
<td>16</td>
</tr>
<tr>
<td>2</td>
<td>Electronics and Information Engineering</td>
<td>7</td>
</tr>
<tr>
<td>3</td>
<td>Humanities</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>Astronautics</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Civil Engineering</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Energy Science and Engineering</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Mechanical and Electrical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Environment</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Electrical Engineering and Automation</td>
<td>1</td>
</tr>
</tbody>
</table>
## Special Lectures

<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Major</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wu Yue</td>
<td>Marketing</td>
<td>new product strategy</td>
</tr>
<tr>
<td>Wang Yong</td>
<td>Mechatronics Engineering</td>
<td>Creative and aesthetic appreciation of product design</td>
</tr>
<tr>
<td>Gao Jihui</td>
<td>Energy Science</td>
<td>Creative thinking in language symbols</td>
</tr>
<tr>
<td>Zhang Ying</td>
<td>Computer Science</td>
<td>Unscramble the innovative thinking of the entrepreneur's perspective</td>
</tr>
<tr>
<td>Zhang Hongxi</td>
<td>Economics</td>
<td>The role of capital in the growth of initial venture enterprises</td>
</tr>
</tbody>
</table>
Visiting Enterprises

Harbin Guoyu Data Technology Services Co., Ltd

Jiashilongsheng Financial Asset Management Co., Ltd

Leju Robet Technology Co., Ltd.
Example 1 of Group Projects

Title: Smart Home Sensing Pictures

CHEN WEICHU
School of Electronics and Information Engineering

CHEN XI
School of Management

ZHAO TUO
School of Management

HUANG YUNQI
School of Mechanical and Electrical Engineering
Example 2 of Group Projects

Title: A Non-invasive Measurement of Blood Glucose

GUO SIQI
School of Management
LIU KAIYUAN
School of Electrical Engineering and Automation
XIAO WEIPENG
School of Energy Science and Engineering
FU JIEWEN
School of Humanities
GAO MANNI
School of Management
• In this semester, the students who have participated in the training camp are eager to have more opportunities to carry out innovative activities with students of diverse majors.

• We have reached an agreement with Harbin Guoyu Data Technology Services Co., Ltd. Our students from different disciplines will fulfil a practical task named "Constructing the intelligent tourism system in Heilongjiang province: based on large data " in one month.
• During the activities, the students' subjective initiative have be fully played, mobilized and stimulated.

• HIT provides a platform, supervisors provide guidance, and students have full freedom in the project. In the multi-disciplinary framework, students become the innovative participants.

• Students from different disciplines can communicate with each other to cultivate students' interdisciplinary thinking and comprehensive quality through these activities, so as to cultivate compound talents with multi-disciplinary backgrounds.

• The cultivation of this kind of talent is an important goal of developing higher education in the new period.
THANK YOU