Symbiosis Institute of Geoinformatics

Symbiosis International (Deemed University)

By Dr. T.P. Singh
“The most important and urgent reform needed in education is to transform it, to endeavor to relate it to the life, needs and aspirations of the people and thereby make it the powerful instrument of social, economic and cultural transformation necessary for the realization of the national goals. For this purpose, education should be developed so as to increase productivity, achieve social and national integration, accelerate the process of modernization and cultivate social, moral and spiritual values.”

(Radakrishnan Commission on University Education, 1948-49)
Symbiosis International (Deemed University)

Students: 15568
Ph.D.: 520
Programme Offered: 84
Faculties: 7
Constituents: 31

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GWF 2018
Geospatial Scenario in Academics

• More than 40 university and institution are offering Geoinformatics Programme.

• Out of that only 18 to 20% covered by private university and institution.

• Most of these private university and institution are running post graduate course, which are under self financed category
To cater for the requirements of Human Resource in this emerging field.

To create a professional human resource in the field of Geospatial technology; equipped with IT and information management skills; to cater to the global Geo-Informatics industry requirement.

SIG conducts two years full time M.Sc. (Geoinformatics), M.Tech G&ST, M.Sc. E&S Programme.
Academic Excellence

- 100 credit program
- Curriculum of high standard designed to meet industry requirements
- Most regress academic preparation with optional courses
- Inclusiveness of Open Source and Proprietary Software

Students Teacher Ratio 12:1
Curriculum Strength

**Curriculum**
Curriculum is designed to develop a well-rounded individual with soft skills as well as in-depth technical knowledge.

**Industry**
Enables our students to choose from various career fronts. Periodic review of curriculum with inputs from industry.

**Academia**
Academia and industries personal involved in curriculum design. Unique Combinations of research components.

**Change**
Change according to the industry and society requirements and pace with national agenda.
Curriculum Composition

- **26%** IT
- **20%** GIS
- **20%** Remote Sensing
- **15%** Photogrammetry/GPS
- **14%** Applications
- **5%** Management
Students Intake

Graduation profile of Student 2012-2017

Count of Students

Years

2012-2014
2013-2015
2014-2016
2015-2017

B.C.A.
B.Sc. Environmental Science
B.Sc. Geography
B.Sc. Geology
B.Sc.IT
B.Tech Computer Science
B.Tech Electronics
Stipend Growth across 2012-2017

Graph showing the average stipend growth for Business Analyst, GIS Analyst, GIS Engineer, and GIS Developer across the years 2011-13 to 2015-17.
Trend of Technology Demand

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Source: Geosaptial today
Recruitment Trend

Job Profile across last 5 years

- **.count of Students Selected**

Year:
- 2011-2013
- 2012-2014
- 2013-2015
- 2014-2016
- 2015-2017

**Job Profiles**
- Business Analyst
- Digital Cartographer
- GIS Analyst
- GIS Developer
- GIS Engineer
- GIS Executive
Challenges

• Majority of employers required solid IT background (programming-hard science)
• Require excellent soft and communication skill
• Number of students are from Geography and pure science background
• Employer keep shifting them from GIS to core IT platform
• Out of total 20% students are working only in data creation after M.Sc.
Challenges

- Incubation center at Academic Institution is all about knowledge transfer and experience/technology transfer and assessing existing technology.

- Industries are more aware of the vital linkage between the education system and productivity. Even with this awareness, its engagement with academia is tentative and ritualistic than real.

- The various challenges currently facing Academia-Industry collaborations are awareness, identification, evaluation, protection and commercialization of ideas.
Thank you