

### 3.3.1 Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

Describe available incubation centre and other initiatives for creation and transfer of knowledge

Patna University is the seventh university in Indian subcontinent and the first university in the state of Bihar. It being the mother of all universities in the state of Bihar plays a leadership role in shaping the higher education in the state. It is the first university in Bihar which introduced CBCS curriculum in Bihar, On line admission, ICT based teaching learning, anti plagiarism policy, and extended autonomy to colleges. Patna University has been involved in drafting the policies, ordinances, curriculum and statutes for higher education in the state, which are followed by the remaining universities in Bihar.

Patna University has always taken the lead in initiating innovations and creation and transfer of knowledge, and in framing of education policies in Bihar though a formal Innovation Council was constituted in 2018. Establishing the Incubation Centre is initiated.

#### *Major initiatives:*

- This Patna University is presently preparing the **Blue Print for Higher Education** in Bihar.
- Patna University has drafted Ordinances, Regulations and curriculum/syllabus for all programmes, which were adopted by all universities of Bihar, for:
  - D.Litt, D.Sc.
  - Ph.D.
  - all MA., MSc, MCom programmes under Choice Based Credit System (CBCS)
  - many Post Graduate Programmes
- Landmark work on conservation of Gangetic Dolphin and its declaration as National Aquatic Animal with the conferment of Padmashree in 2016.
- For promoting science and scientific temperament Physics department hosts Patna (IAPT) Anveshika, one of the only 22 Anveshika Centres nationwide. Activities include lecture-demonstrations of low-cost experiments, conducting first level Science Olympiads examinations, conducting National Anveshika Experimental Skill test and hands-on student activities. Target groups include school and college students and science teachers of schools.
- Department of Ancient Indian History and Archaeology has departmental museum of archaeological discoveries from excavations conducted by the faculty and students; students learn about Musicology.
- Departments of Physics, Geography and Geology have museums.
- Department of PMIR was first of its kind in India and developed the first curriculum in Labour and Social Welfare.

- Botany Department is a major centre in northern and eastern India for research in Cytogenetic and Plant Breeding.
- Biochemistry Department designed P.G. syllabi and curricula in Bihar; it trains students of other universities on instrument handling and other techniques related to Bio-Chemistry
- Chemistry Department facilitated drafting of Chemistry curriculum for the first time in Bihar and contributed to establishment of Chemistry Department in other universities.
- Geology Department started teaching of Geochemistry first time in India. Rainwater harvesting, the first such structure in the state, was constructed here.
- Statistics Department is fourth oldest in India. It introduced the curriculum of Statistics in Bihar.
- Population Research Centre, engaged in Population studies, was established in the Statistics Department. Only 17 other universities in India have such centres.
- Zoology Department carries out advance research in Genetic and Molecular toxicology, aquatic toxicology, environmental biology, limnology and conservation biology.
- Editing and compiling of rare manuscripts in Arabic is undertaken by Arabic Dept.
- Research and preservation of rare manuscripts of Persian and generating awareness regarding manuscriptology in Persian, for the first time in Bihar, is undertaken by Persian Department
- Department of Maithili introduced course in Mithilakshar or Tirhuta thus preserving and disseminating use of this script.
- Department of Bengali prepared syllabus of Bangla literature of Bihar and Jharkhand - 'Bihar Jharkhander Bangla Sahitya'
- Departments organise activities like research projects, departmental seminars, dissertation, discussion, quizzes etc.

**First Department established in India:**

- Maithili
- Personnel Management and Industrial Relation

**Departments of all major subjects in undivided Bihar were first established in Patna University.**