

2020-2021 Annual Report



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)

Re-accredited with A++ Grade by NAAC. Recognised by UGC Under Section 12 B

Coimbatore - 641 043, Tamil Nadu, India

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From the desks of



**Dr. Meenakshisundaram
Managing Trustee**



**Prof. S.P. Thyagarajan
Chancellor**

The great visionaries and the educational stalwarts Dr. T.S. Avinashilingam and Dr. Rajammal P. Devadas established the Avinashilingam Institute for Home Science and Higher Education for Women in 1957 and nurtured it to its current height. The orthodox institution has claimed a principal position in the arena of women's education over a period of 63 years and has evolved with a lot of courage and great commitment. The sole responsibility is to inculcate education and promote research exclusively for the upliftment of the women's community. The institution has made its brand with "A++" grade by the NAAC in 2021 for its outstanding records and achievements in academic and research excellence and is rated as one of the top-ranked institutes in the country. The institution fosters overall development with a focus on academics, research, sports, and a series of student-led initiatives under NSS, NCC, and Community outreach programs in rural and urban areas.

Avinashilingam Institute for Home Science and Higher Education for Women has a rich legacy of building women as global citizens integrated with knowledge, skills, attitude, and value systems. The institution's philosophy is guided by a pedagogy that had encouraged the students to explore new domains of global knowledge to evolve as locally relevant and societally contributing coupled with employability and entrepreneurial skills. The institution has always been a beacon of excellence in higher education with an international reputation for value systems and cultural standards. More preciously, it has provided a creative environment for girls to freely develop, express views, and evolves as analytical and innovative youth of India. The institution offers Outcome-Based Higher Education in Arts and Social sciences, Humanities, Emerging areas of Engineering & Technology, and cutting edge areas of Basic and Applied Sciences catering to more than 8000 students. The faculty members are renowned for their meritorious profile, and versatile talent and are dedicated to the development of the institution.

From the desks of



Dr. Bharathi Harishankar
Vice Chancellor

Tradition and creativity, charisma and charm, excellence and exuberance remain the core values of Avinashilingam Institute. The Institute provides an ambiance that is progressive, and challenging and strives to instill a desire for creativity and lifelong learning in the students so that they spur the momentum to change the future. Thousands of students have metamorphosed every year towards living their radiant future. We rely on and promote education through values, culture, integrity and encourage the individual to bring out the innovativeness and social responsibility. Our outstanding alumni have spread across the globe in all dimensions and excel in the pace of metamorphosis from our grounds. Our institution houses cutting-edge infrastructure and state-of-the-art technology that facilitates the student's needs. The teaching and learning are multi-dimensional and are supported by smart classrooms, a robust library, IT labs, language labs, hi-tech seminar halls, auditorium, e-studio, central instrumentation facilities and many more.



Dr. S. Kowsalya
Registrar

Students of the 21st century have to be prepared to work with people of different cultures in a rapidly changing and challenging environment. Our endeavor for innovation and quest for excellence has received recognition in the form of awards and accolades. Avinashilingam Institute was accredited by NAAC with an A++ in 2021. The uniqueness of the institution is the symbiotic relationship between the faculty and students which strives to provide a stimulating active learning environment attracting young women with exceptional ideas and the desire to build a nation. The fame of the institution is reflected across the globe not only because of the standing ability to provide quality education but also as an alma mater par excellence. Research and application-oriented knowledge have inspired and effectively prepared the students to face the demands of the society they will serve. The unique infrastructure supports breaching the monotony of a the top-down approach of teaching supported by cutting edge research and state of the art laboratories

Vision, Mission, Core Values and Objectives

We Envisage

“Self-development and empowerment of women through modern, scientific and value-based education to enable them to lead a purposeful life filled with moral and spiritual values”

Through

Providing quality education of global standards on a strong foundation of Indian values and traditions to women students based on advances in science, technology, and societal demands with emphasis on commitment to social progress, peace, harmony, and national integration

Core Values

Academic Excellence, Social Relevance and Women Empowerment, Accountability and Transparency, Diversity and Inclusion, Vitality of Culture and Values

Objectives

Provide opportunities for the all-round development and excellence in higher education, research and extension

Inculcate ethical values, social and moral standards

Generate awareness among women about their rights and status

Serve as a centre for national integration by bringing women together and develop an all-India perspective

Disseminate the outcomes of research to the society

Frame policies for the Institute complying with UGC & other Governmental Bodies

Institutional Accolades at a Glance

Accreditations



**A++ with
CGPA 3.65**



**75th rank
among
Universities**

Awards



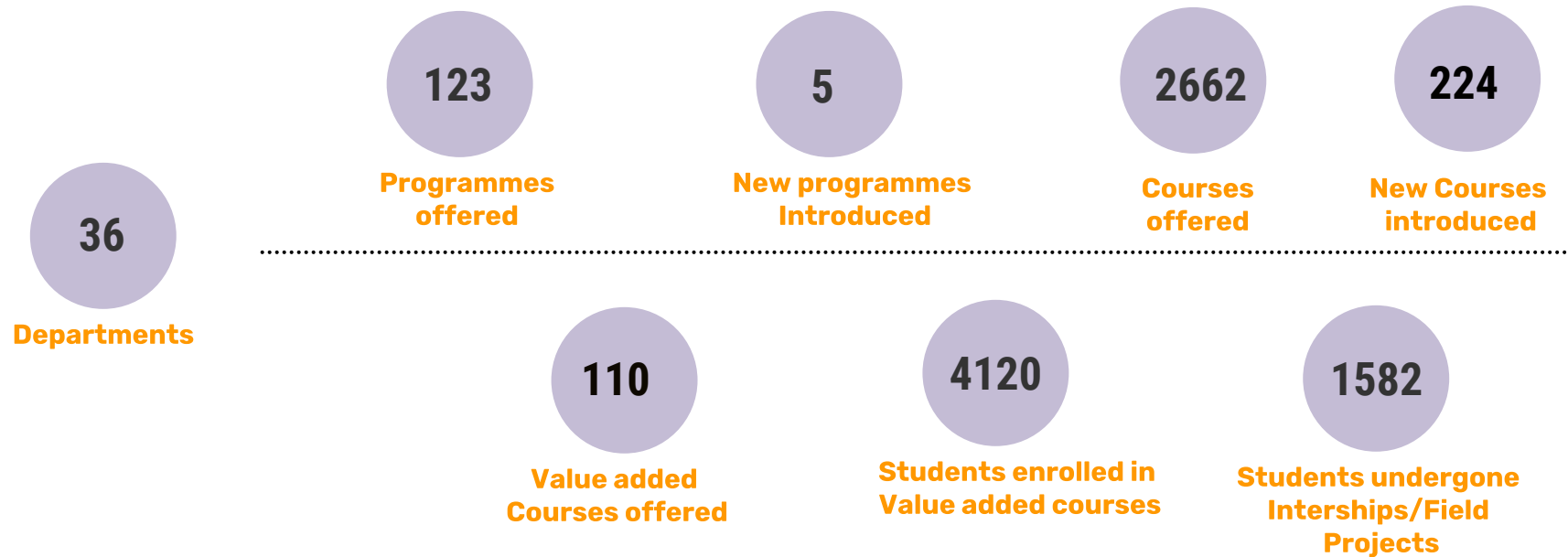
**Top 5 HEI (State
University and Deemed
University)**



**ThinkEdu Award
-Continuous Excellence
in Education**

Institutional Performance at a Glance

Curricular



Student profile



Teacher Profile



Institutional Performance at a Glance

Research



Activities Organised



Examination



Details of Statutory Bodies

Statutory Body	Dates of Meetings Conducted	List of Members
General Body	27/8/2021	Annexure 1
Board of Management	11/01/2021, 16/04/2021, 28/06/2021	Annexure 2
Academic Council	21/09/2020	Annexure 3
Finance Committee	29/07/20, 27/02/2021	Annexure 4
Planning and Monitoring Board	04/08/2021	Annexure 5
Building Committee	-	Annexure 6
Board of Studies		Annexure 7

Schools, Departments and Programmes offered

School of Home Science	11
School of Physical and Computational Sciences	12
School of BioSciences	13
School of Arts and Social Sciences	14
School of Commerce and Management	15
School of Education	16
School of Engineering	17

Schools, Departments and Programmes Offered

**School of
Home
Science**
6
Departments
25
programmes

Resource Management

B.Sc. Interior Design and Resource Management
M.Sc. Interior Design and Resource Management

Ph. D Resource Management

Food Science and Nutrition

B.Sc. Food Science and Nutrition
M.Sc. Food Science and Nutrition

PG Diploma in Public Health Nutrition
Ph.D. Food Science and Nutrition

Food Service Management and Dietetics

B.Sc. Food Service Management and Dietetics
M.Sc. Food Service Management and Dietetics

PG Diploma in Nutrition and Dietetics
Ph.D Food Service Management and Dietetics

Textiles and Clothing

B.Sc. Textiles and Apparel Designing
B.Voc Textile Dyeing and Printing
M.Sc. Textiles and Fashion Apparel

M.Sc. Biotextiles
Ph.D Textiles and Clothing

Human Development

B.Sc. Human Development
M.Sc. Human Development

Ph.D Human Development

Home Science Extension Education

B.Sc. Rural Development and Sociology
M.Sc. Extension and Communication
M.S.W. Master of Social Work

M.A., Women Studies and Entrepreneurship Development
Ph. D Home Science and Extension
Ph. D Women Studies

Schools, Departments, and Programmes Offered

Mathematics

B.Sc. Mathematics
M.Sc. Mathematics

Ph.D Mathematics

Physics

B.Sc. Physics
M.Sc. Physics

Ph.D Physics

Chemistry

B.Sc. Chemistry
M.Sc. Chemistry

Ph.D Chemistry

Computer Science

B.Sc. Computer Science
B.C.A. Computer Application
B.Voc. Artificial Intelligence and Machine Learning

M.Sc. Computer Science
M.C.A.
PG Diploma in Artificial Intelligence
Ph.D Computer Science

Information Technology

B.Sc. Information Technology
M.Sc., Information Technology

**School of
Physical and
Computational
Sciences**

5

Departments

18

programmes

Schools, Departments, and Programmes Offered

**School of
Bio
-Sciences**
4
Departments
13
programmes

Botany

B.Sc. Botany
M.Sc. Botany

Ph.D Botany

Zoology

B.Sc. Zoology
M.Sc. Zoology

Ph.D Zoology

Biochemistry, Biotechnology and Bioinformatics

B.Sc. Biochemistry and Biotechnology
M.Sc. Biochemistry
M.Sc. Biotechnology
M.Sc. Bio-informatics

Ph.D Biochemistry
Ph.D Biotechnology

Physician Assistant

B.Sc. Physician Assistant

Schools, Departments, and Programmes Offered

Economics

B.A. Economics

M.A. Economics

Ph. D Economics

Tamil

B.A. Tamil

M.A. Tamil

Ph. D Tamil

English

B.A. English

M.A. English

PG.Dip French

Ph. D English

Ph. D French

Hindi

B.A. Functional Hindi

M.A. Hindi and Journalism

Ph. D Hindi

Music

B.A. Music

M.A. Music

Ph. D Music

Psychology

B.Sc. Psychology

M.A. Applied Psychology

Ph. D Counselling Psychology

Visual Communication

B.Sc. Visual Communication

Political Science

M.A. Political Science

Sanskrit

B.A. Sanskrit

School of
Arts and
Social
Sciences

9

Departments

23

programmes

Schools, Departments, and Programmes Offered

**School of
Commerce
and
Management**
3
Departments
12
programmes

Commerce

B.Com
B.Com Computer Applications
B.Com Professional Accounting
M.Com
M.Com Computer Application
Ph.D Commerce

Business Administration

M.B.A
M.B.A IT Organization Administration
Ph.D Business Administration

Tourism Management

B.B.A. Tourism
M.B.A. Tourism and Travel Management
Ph. D Tourism and Management

Schools, Departments, and Programmes Offered

**School of
Education**
3
Departments
12
programmes

Education

B.Ed.,
M.Ed.,
Ph.D Education

Special Education

B.Sc. Special Education and Mathematics
B.Ed., Special Education (VI)
B.Ed., Special Education (HI)
M.Ed., Special Educaiton (VI)
M.Ed., Special Education (HI)
Ph.D Special Education

Physical Education

B.Sc. Physical Education
B.P.Ed., Physical Education
Ph.D Physical Education

Schools, Departments and Programmes Offered

**School of
Engineering**
6
Departments
20
programmes

Biomedical Instrumentation Engineering

B.E Biomedical Instrumentation Engineering
M.E Medical Electronics

Ph.D Biomedical Instrumentation Engineering
B.Voc. Medical Equipment Technology

Civil Engineering

B.E Civil Engineering with Computer Application
Ph.D Civil Engineering

Computer Science and Engineering

B.E Computer Science and Engineering
B.E Artificial Intelligence and Data Science

M.E Data Science
Ph.D Computer Science and Engineering

Food Processing and Preservation Technology

B.E Food Processing and Preservation Technology
M.E Food Technology

Ph.D Food Technology
B.Voc. Food Processing and Engineering

Electronics and Communication Engineering

B.E Electronics and Communication Engineering
M.E Embedded System and VLSI

Integrated M.Tech. Electronics and Communication
Engineering (Internet of Things)
Ph.D Electronics and Communication Engineering

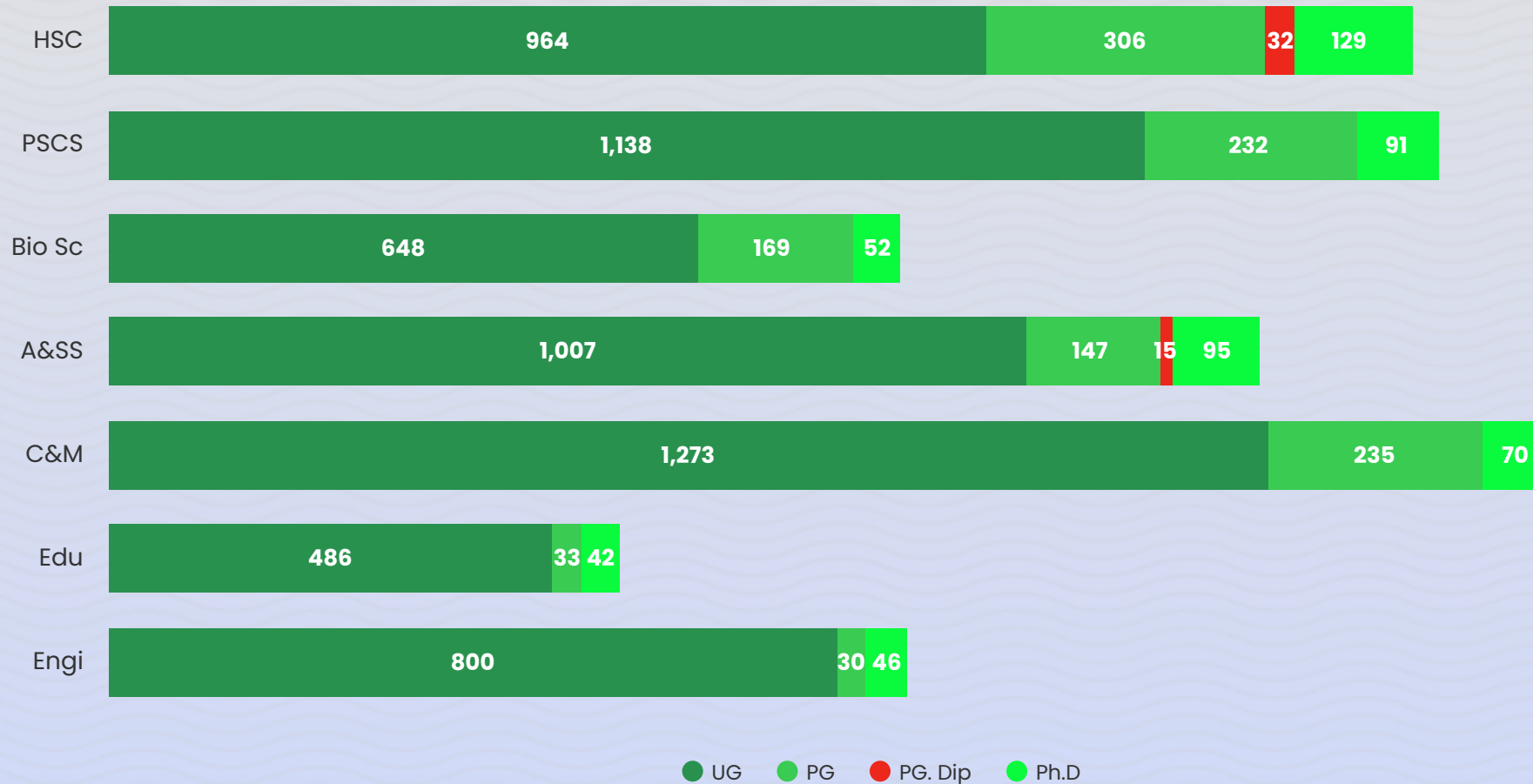
Printing Technology

B.E Printing Technology
Ph.D Printing Technology

Student Profile

Enrollment	19
Diversity and Inclusion	20
Research Scholars Enrolled	21
Results of UG and PG - Graduated	22
Ph.D's Awarded	23
Student progression - Placement and Higher Education	24

Student Enrolment - School-wise and level-wise distribution of Students enrolled



Total students enrolled

UG - 6306

PG - 1152

PG.Dip - 47

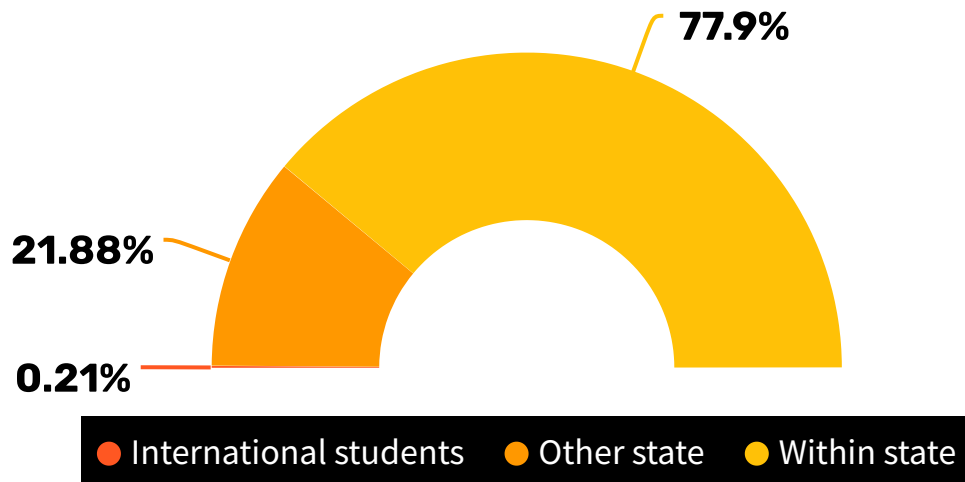
Ph.D - 525

The graph shows a higher enrollment of students in the School of Commerce and management followed by Physical and computational Sciences at the UG level. However, the PG and Ph.D. enrollment is at its maximum in the School of Home Science when compares to all other schools.

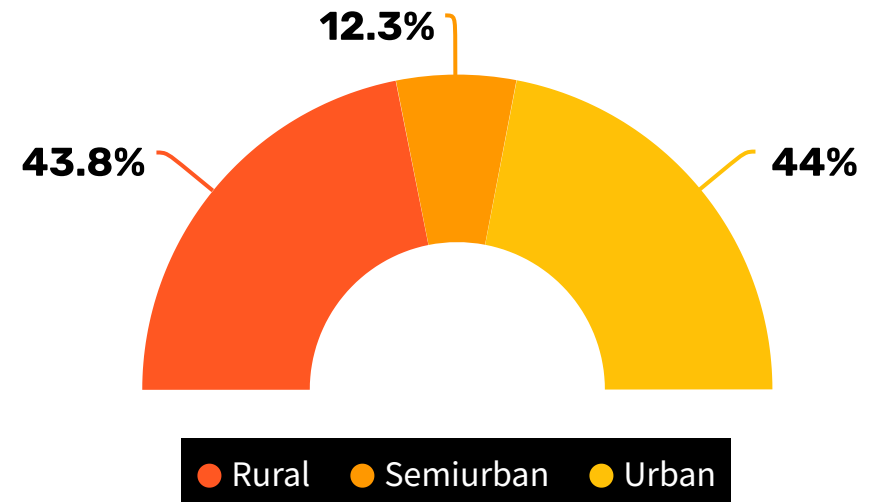
Student Diversity and Inclusion

In line with the vision and mission, the institute embraces the equity dimension in terms of the nature of social inclusion and the social experience of the diverse student group.

Area-wise distribution of students



Area-wise distribution of students



899

Economically backward students

3379

Socially Challenged students

46

Challenged Students

43%

First generation Learners

30.4%

Single Girl Child

Research Scholars Enrolled

For the academic year 2020-21, 160 scholars registered for doctoral degree, out of which 28 of them have cleared the National Eligibility Test. The research progress is guided and monitored according to UGC regulations, 2019. Utmost care is taken to identify a research problem based on societal needs and concerns.

School-wise split of Ph.D's Enrolled

NET Qualified

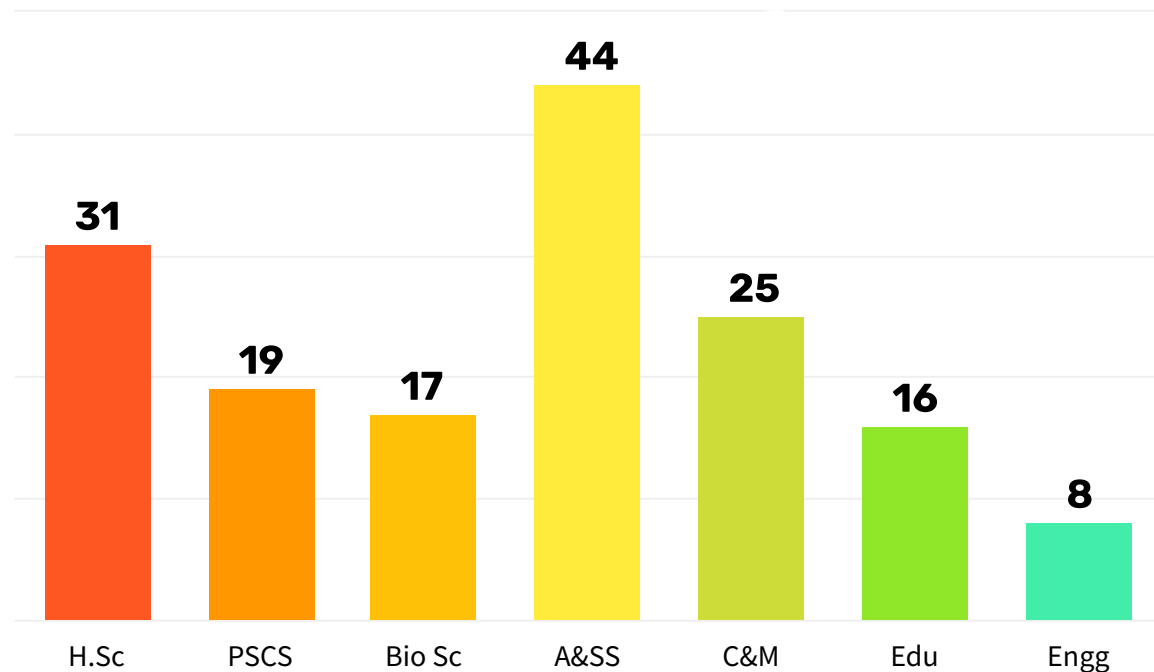
17.5%

Full-Time
Scholars

83

Part-Time
Scholars

77



Results of UG and PG - Graduated



97.75%

of the outgoing students had cleared their
final exams

Registered - 2673

Passed-out - 2613

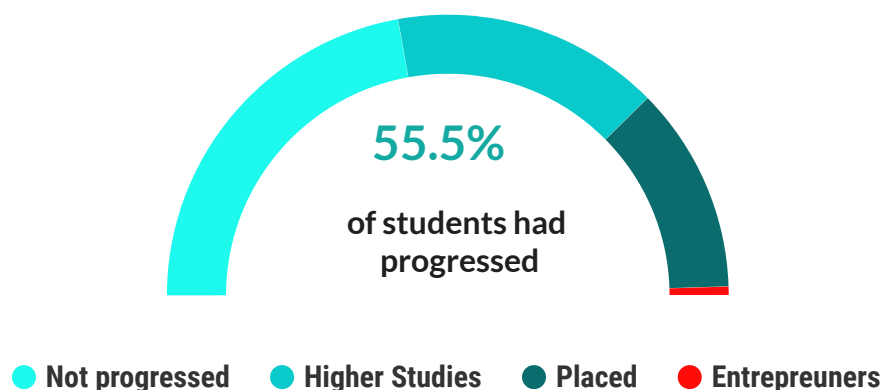
Annexure 10

Level /Programme	Registered	Passed out
UG	1822	1782
PG	549	530
B.Ed	154	153
M.Ed	13	13
PG.Dip.	44	44
Ph.D Course work	91	91
Total	2704	2643

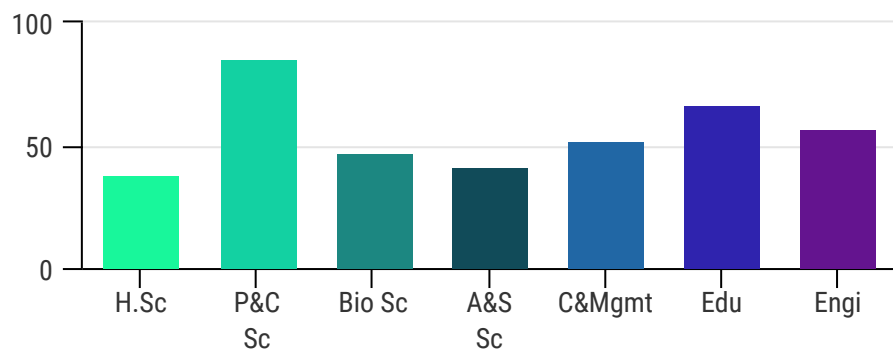
Student Progression - Placement and Higher Education

The student progression embodies the placement of outgoing students along with their enrolment into higher education and emerging entrepreneurs. During the pandemic period, the institute had taken an immense effort to leverage the progress of students after graduation. Hence 55.5 percent of a total of 2552 outgoing students had progressed in either of the three ways. The table below gives a detailed split of the progress as per the 7 schools.

Student Progression in Percentage



School wise progression status of students against passed out students in percentage



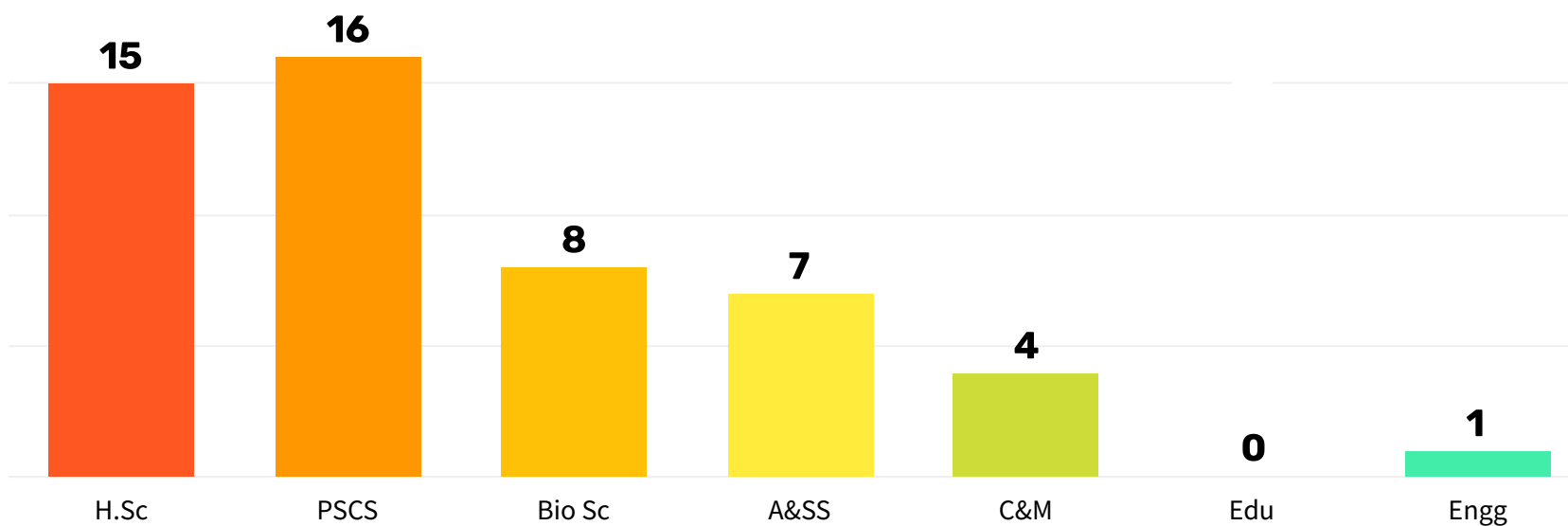
Student Progression School-wise

School	Hr. Edu	Placed	Entrepreneurs	Total Progressed
H. Sc	120	54	9	183
P & C Sc.	256	206	-	462
Bio Sc.	117	48	1	166
A & S Sc.	148	23	-	171
C & Mgmt.	109	127	2	238
Edu.	93	54	-	147
Engineering.	18	147	3	168
Total	861	659	15	1535

Ph.D's Awarded

For the academic year 2020-21, 51 scholars were awarded their doctoral degrees. The award of the degree is guided and monitored according to UGC regulations, 2019.

School-wise Split of Ph.D's Awarded



Institution Profile and Activities

Teaching Positions at a glance	26
Infrastructural facilities	27
Library	28
Seminars/Webinars/Workshops/Conferences Organised	29
EDP/FDP/Training Programmes/Special Lectures Conducted	30
Workshops/Seminars on RM and IPR etc.	31
Faculty and Student Accolades	32

Teaching Positions at a glance

Sanctioned Teaching Positions

404

Available Teaching Faculty

390

Positions filled against Sanctioned posts by UGC

162

Positions filled against Sanctioned posts by Management

228

Teaching Faculty with Ph D

256

Professors *

62

Associate Professors *

34

Assistant Professors

294

*Professors and Associate professor Positions include CAS

Infrastructure Amenities and other Support facilities

Student Teacher Ratio

19 : 1

ICT enabled Classrooms and Seminar Halls

234

Computers for Academic Purpose

2176

Student Computer Ratio

3:1

Facilitated Scholarships

1757

Broadband Bandwidth

1.19 Gbps

Student-Led Clubs

14

Support staff

237

Centralized Research Facilities

11

Domain-Specific Labs

86

Automated Libraries

4

Library Resources and Expenditure

Books

3015

Journals

361

e-journals

1258

e-books

417533

Databases

11

Softwares

3

Shodhganga

621 Ph D Thesis
uploaded

e-Shodhsindu

Access to

29,146 e-Journals

4 Databases

NDLI Resources

World e-book Library

South Asia Archive

Subscription



**e-Journals and
e-Books**

64.85 Lakhs



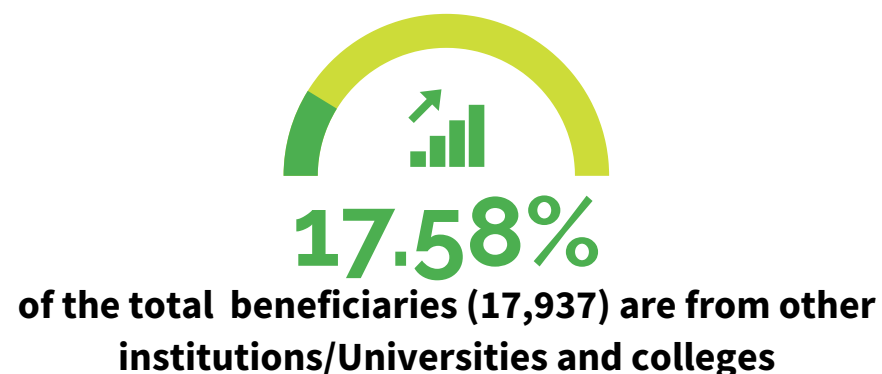
Other Resources

58.17 Lakhs

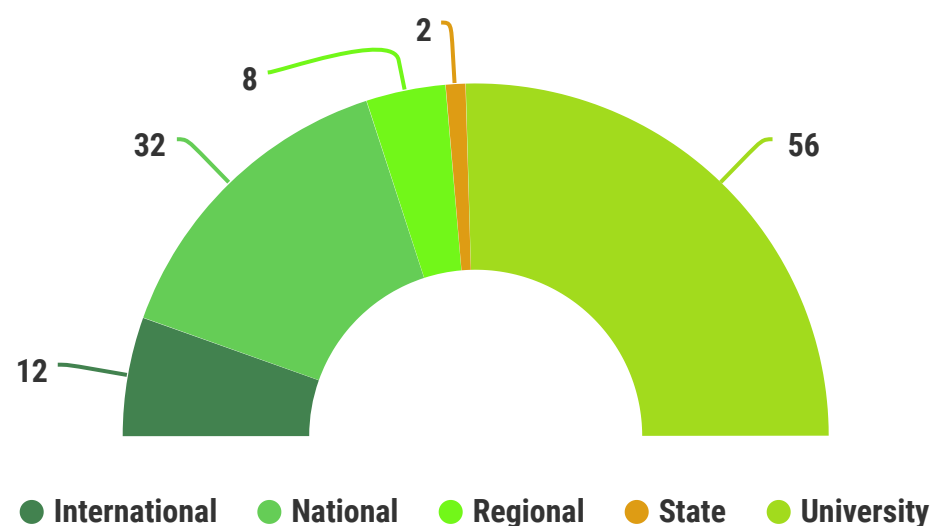
EDP/FDP/Training programs/Special Lectures Conducted

For the academic year 2020-21, a total of 110 activities were conducted to facilitate effective learning among the student and teacher community both within the institution and outside the institution. Of all these activities 17, 937 students, faculty, and executives were benefitted

Nature of activity	Number
Student Development Programme	1
Faculty Development Programmes	6
Orientation Programme	7
Workshops	23
Internships	1
Training programmes	28
Special Lectures	44



Level-wise categorization of events



Seminars/Webinars/Workshops/Conferences Organised

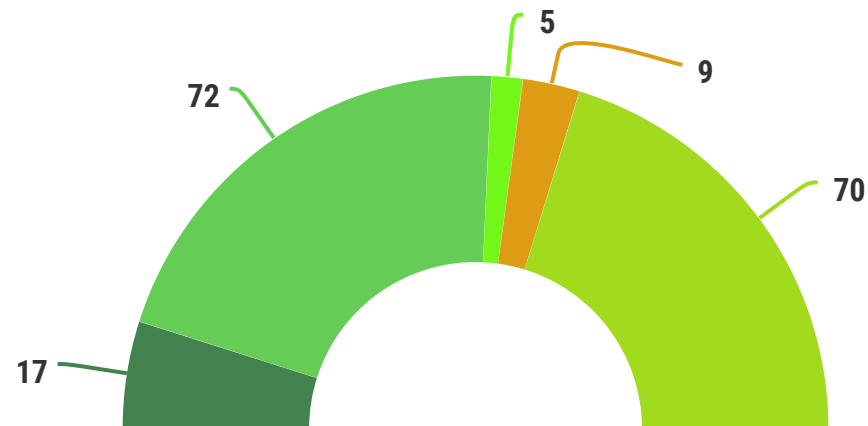
For the academic year 2020-21, a total of 182 activities were conducted to facilitate the effective dissemination of knowledge and practice among the student and teacher community both within the institution and outside the institution. Of all these activities 20, 517 students, faculty, and executives were benefitted

Nature of activity	Number
Seminar	36
Webinar	99
Workshop	41
Conference	6



of the total beneficiaries (20,517) are from other institutions/Universities and colleges

Level-wise categorization of events



● International ● National ● Regional ● State ● University

Workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development

For the academic year 2020-21, a total of 59 activities were conducted to facilitate the effective dissemination of knowledge and practice among the student and teacher community both within the institution and outside the institution. Of all these activities 11,524 students, faculty, and executives were benefitted

Nature of activity	Number
Entrepreneurship	6
Intellectual Property Rights	1
Research Methodology	25
Skill Development	27

Faculty and Students Accolades at a Glance

**Academic Excellence
Awards won by Faculty**



Annexure 17A

**Research and Innovation Awards
won by Faculty and Students**



Annexure 17B

**Outreach related
Awards won by Faculty**



Annexure 17C

**Sports/Cultural Awards
of Students**



Annexure 17D



Research and Innovation

Research Projects	34
Publications and Bibliometrics	35
Patents Published and awarded	36
Collaboration and MoU's	37

Research projects

The institute had made vigorous efforts to procure projects during the pandemic period. 25 research projects to the tune of 96 lacs were ongoing for the academic year 2020-21. Out of the 25 research projects, 23 were from Government. The major funding agencies were the Ministry of AYUSH, UGC, DST CURIE, and ICSSR.

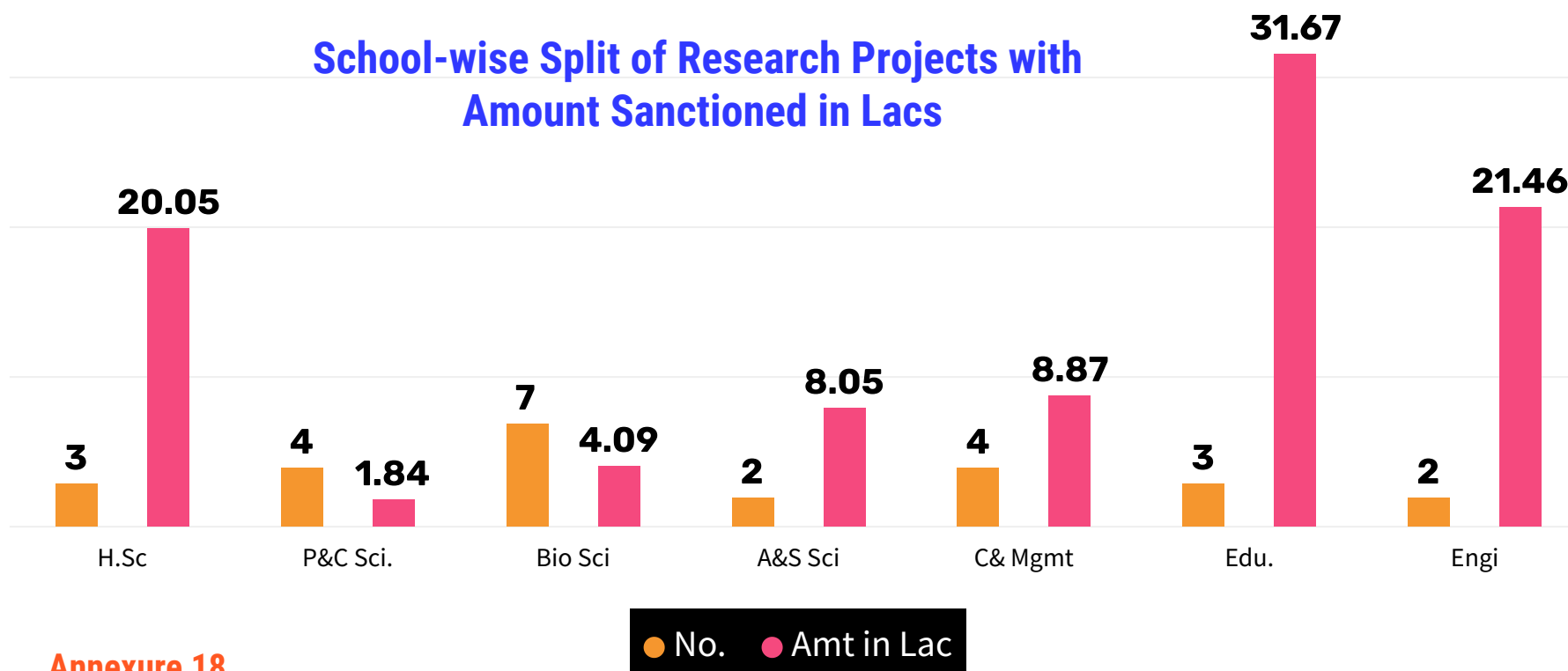
Number of Research Projects

25

Amount in Rupees

96,03,482

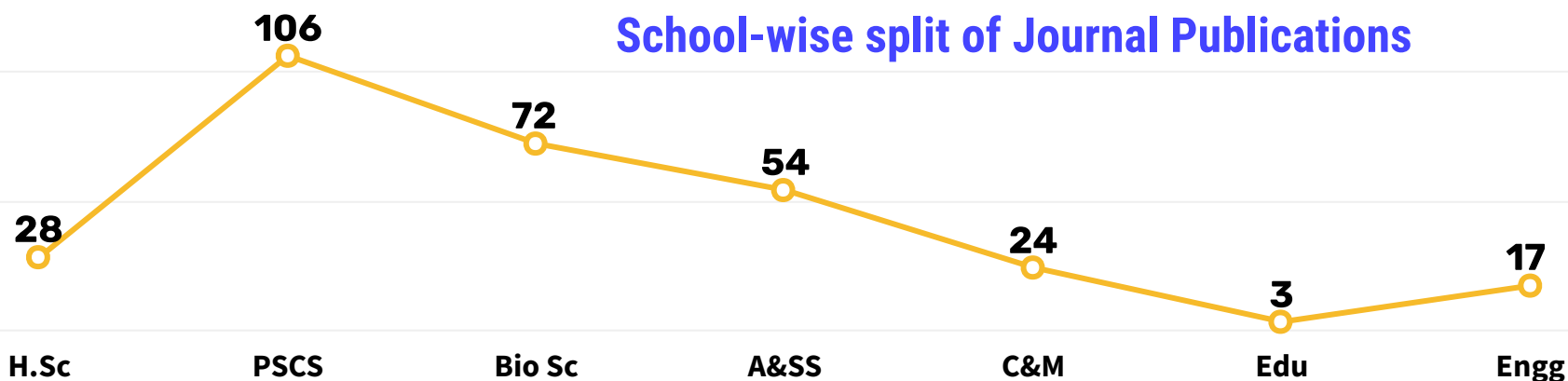
School-wise Split of Research Projects with Amount Sanctioned in Lacs



Publications and Bibliometrics

For the academic year 2020-21, the faculty had published 304 research articles in the journals notified on the UGC website including Scopus and Web of Science. Books or chapters in Books were 110.

School-wise split of Journal Publications



Citations and H index

	Citations		H index	
	Only 2021	Till 2021	Only 2021	Till 2021
Scopus	1189	10141	20	44
Web of Science	924	6507	18	36

Patents Published and Awarded

The institute's strenuous effort to progress in the path of research is evidenced by facilitating the publication of 14 patents and award of 5 patents in a year. On the whole, the patents published till December 2021 stands at 37 and 9 patents are awarded. The following are the list of published patents for the year 2020-2021.

Published

1. **Process of Minor Millet Based Yoghurt**
2. **Wound Healing Topical Ointment from Solvent Extracts of Pisonia Grandis**
3. **Herbal Bandaging Fabric Coated with Leaf Extracts of Pisona Grandis**
4. **Preparation of Athletes (TM) Nutri Bar**
5. **Non – Metallic NanoParticle Using Cereal and Pulse Washed Wastewater**
6. **Ceramic Furnace – Assisted Synthesis of White Graphene**
7. **Metallic and Non-Metallic NanoParticle Synthesis Using Cereal And Pulse Washed Wastewater**
8. **A Device for Converting E-Text to Refreshable Braille Display**
9. **Cooker**
10. **Roaster**
11. **Steamer**
12. **Flaker**
13. **The Chemicals and Toxic-Free Guava Pulp extraction Using Sensors**
14. **Design of Solar Powered Mini Rice Mill**

Awarded

1. **Novel Skin Feature-Based Jaundice Detection for Neonates Using Noninvasive Technique**
2. **Multi-Purpose Combo Product Package**
3. **A Machine for the Die Cutting Process**
4. **A Novel Weedicide Formulation for the Management of Water Hyacinth**
5. **A Nutritional Rich Chocolate Composition**

Collaborations and MoUs

MoU's **32** Active MoUs

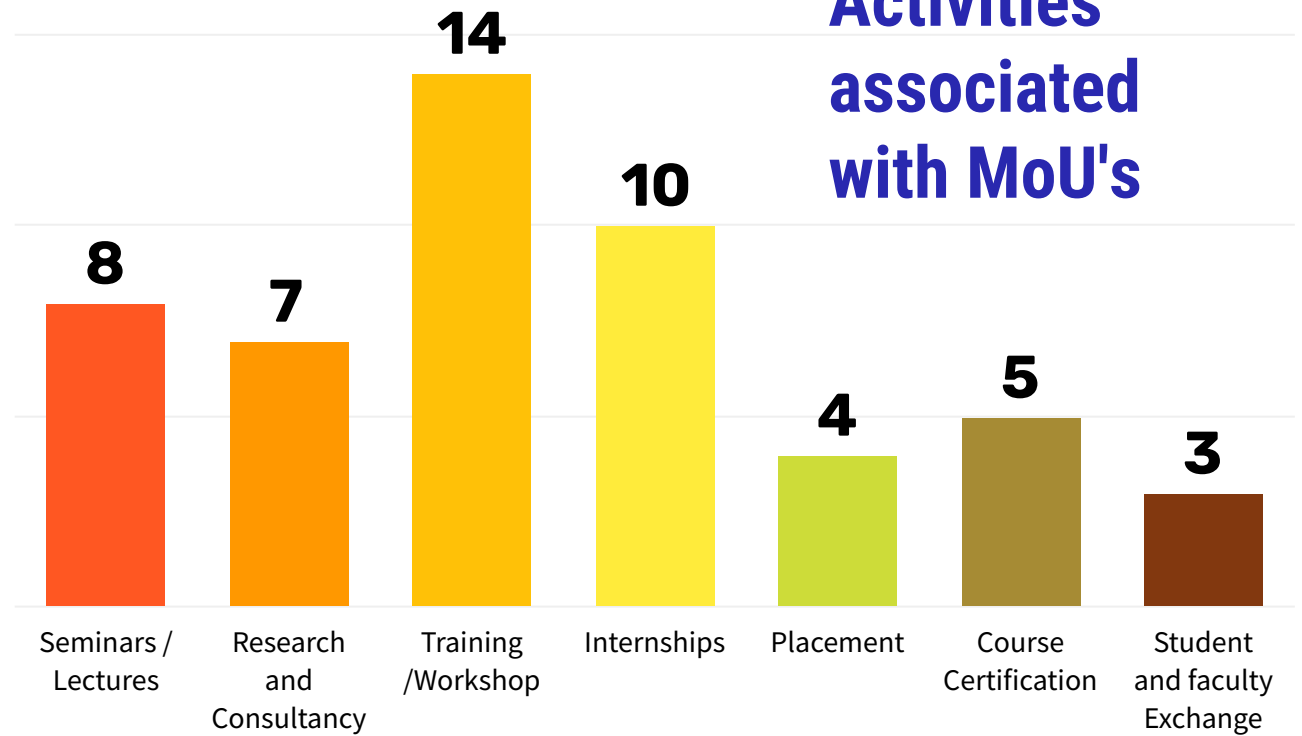
International	National	Regional	District
4	8	14	6

Collaborations

58

Skill Training	4
Research and Innovation	49
Entrepreneursip	2
Webinar	3

Activities associated with MoU's



The Year Ahead

We are committed to doing things in the right way. We will continue to strengthen our governance processes over the coming year to ensure that we are aligned with best practice.

