

# Annual Report

2021-2022



**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**

The great visionaries and 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 an “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 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.



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

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, 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 toward living their radiant future. We rely on and promote education through values, culture, and integrity and encourage the individual to bring out 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, an auditorium, an 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 its 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 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 developing 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



84<sup>th</sup> rank  
among  
Universities

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## Awards



Top 5 HEI (State  
University and Deemed  
University

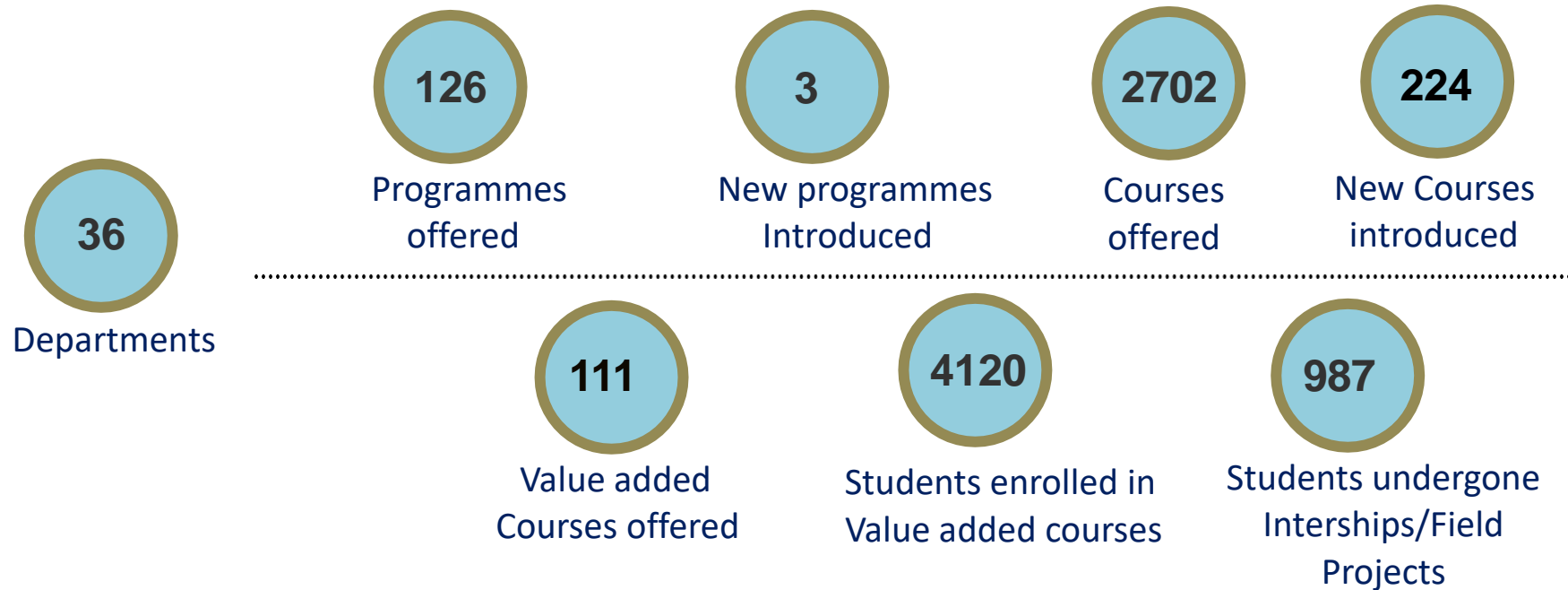


ThinkEdu Award

– Continuous Excellence in  
Education

# Institutional Performance at a Glance

## Curricular



## Student profile



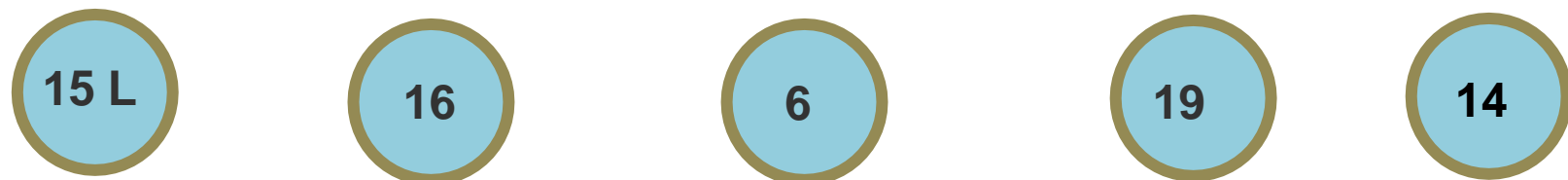
## Teacher Profile





# Institutional Performance at a Glance

## Research



Seed Money in Lakhs      JRF/SRF/Research Associates      Department with National Recognitions      Awards for research and Innovation      Patents



Journal Publications Scopus/WoS      Citations      Colloborations      Active MoU's

## Activities Organised



Workshops/seminars on Research and IPR      Conferences/Seminars/Webinars      Extension Activities      FDP/Training Programme attended      Sports/cultural Events

## Examination



Pass percentage      Ph.D's Awarded      Result Declaration in days



## Details of Statutory Bodies

Statutory Body	Dates of Meetings Conducted	List of Members
General Body		<b>Annexure 1</b>
Board of Management	31/08/2021, 20/10/2021, 21/04/2022	<b>Annexure 2</b>
Academic Council	05/10/2021, 12/01/2022	<b>Annexure 3</b>
Finance Committee	19/06/2021, 24/03/2022	<b>Annexure 4</b>
Planning and Monitoring Board		<b>Annexure 5</b>
Building Committee		<b>Annexure 6</b>
Board of Studies		<b>Annexure 7</b>

# 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

**School of  
Physical and  
Computational  
Sciences**  
**5**  
**Departments**  
**18**  
**programmes**

## 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

# 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  
B.Sc. Physician Assistant

Ph.D Biochemistry  
Ph.D Biotechnology

# Schools, Departments, and Programmes Offered

**School of  
Arts and  
Social  
Sciences**  
**9**  
**Departments**  
**24**  
**programmes**

## 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.Sc. Applied Psychology

M.Sc. Clinical Psychology

Ph.D Counselling Psychology

## Visual Communication

B.Sc. Visual Communication

## Political Science

M.A. Political Science

## Sanskrit

B.A. Sanskrit

# Schools, Departments, and Programmes Offered

**School of  
Commerce  
and  
Management**  
**3**  
**Departments**  
**14**  
**programmes**

## Commerce

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

## Business Administration

BBA Retail Management  
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**  
**13**  
**programmes**

## Education

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

## Special Education

B.Sc. Special Education and Mathematics  
B.ASLP Bachelor in Audiology and Speech  
– Language Pathology  
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

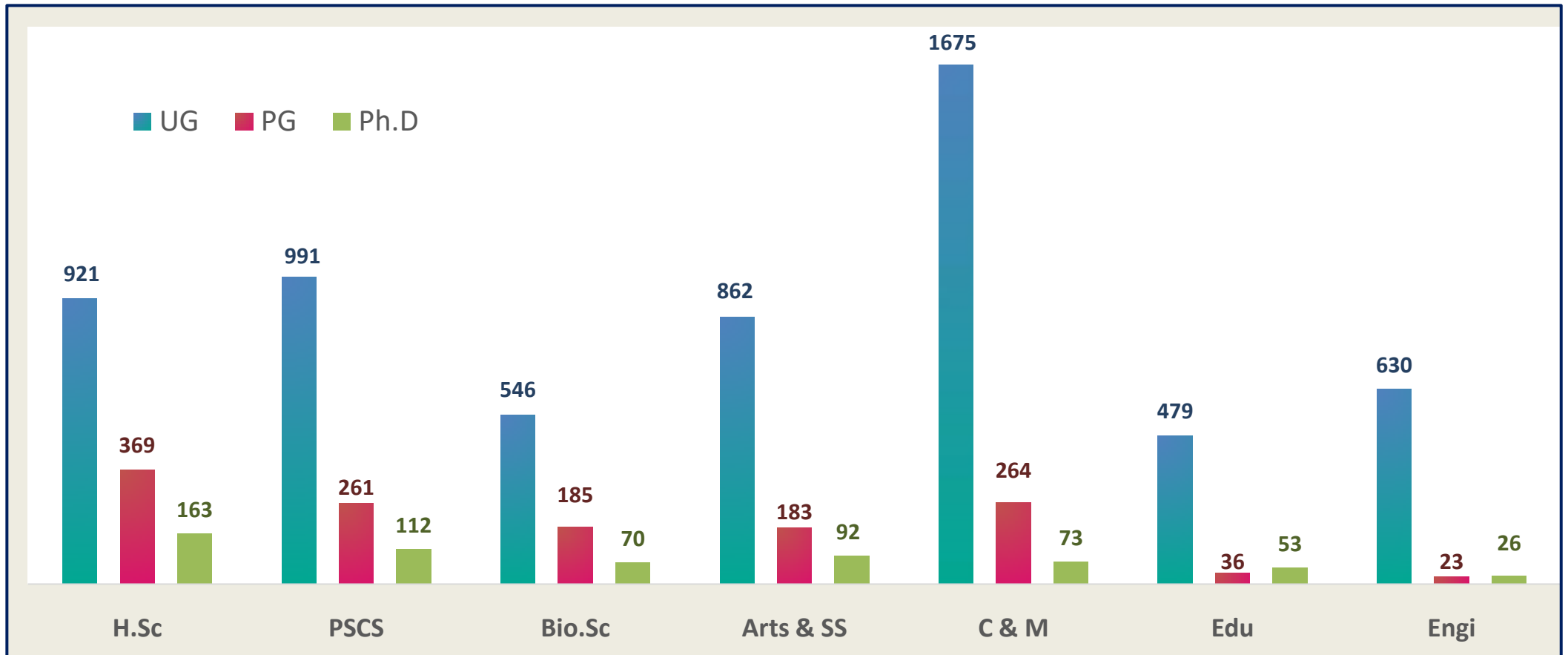
## Printing Technology

B.E Printing Technology  
Ph.D Printing Technology

# Student Profile and Progression

Enrollment	19
Diversity and Inclusion	20
Research Scholars Enrolled	21
Results of UG and PG - Graduated	22
Student progression - Placement and Higher Education	23
Ph.D's Awarded	25

## Student Enrolment - School-wise and Level-wise distribution of Students enrolled



### Total students enrolled - 8014

UG - 6104  
PG - 1292  
PG.Dip - 29  
Ph.D - 589

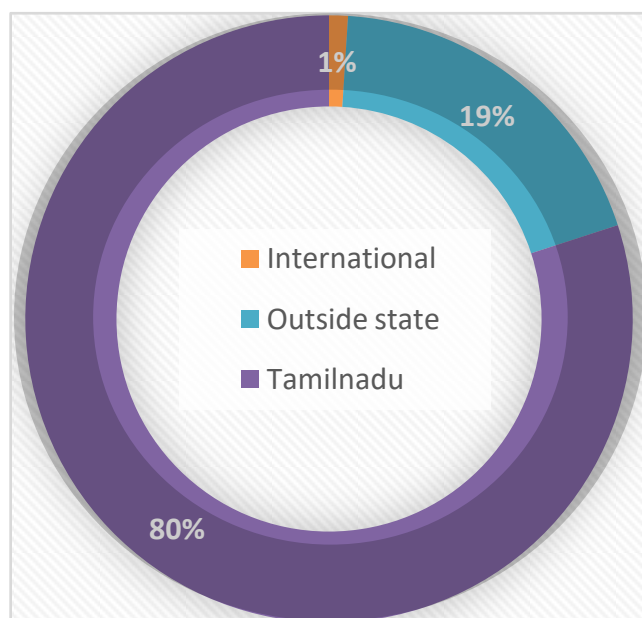
The graph shows a higher enrollment of students in the School of Commerce and Management followed by Physical and Computational Sciences at the UG level. However, the PG and Ph.D. enrollment is at its maximum in the School of Home Science when compared to all other schools.

# Student Diversity and Inclusion

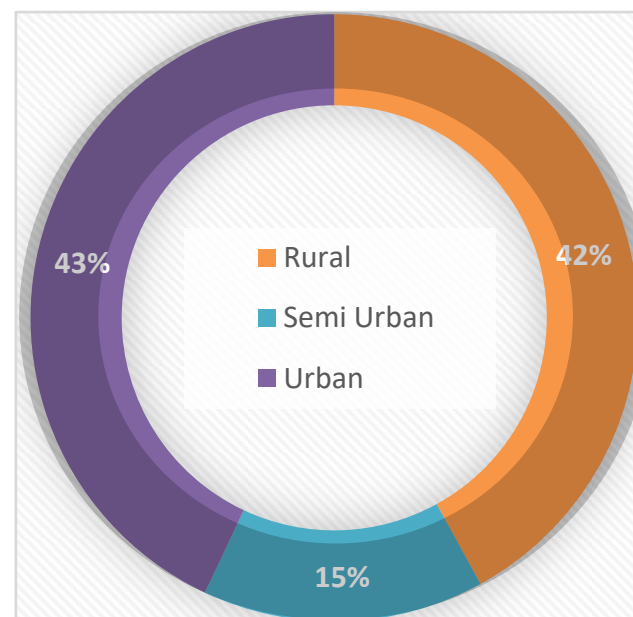
In line with the vision and mission, the institute embraces the equity dimension in terms of the nature of social inclusion and the social experience of the diverse student group.

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Area-wise distribution of students



Area-wise distribution of students



**473**

Economically  
backward students

**3557**

Socially  
Challenged  
students

**39**

Challenged  
Students

**42%**

First generation  
Learners

**31%**

Single Girl  
Child

## Research Scholars Enrolled

For the academic year 2021-22, 203 scholars registered for doctoral degrees, out of which 2 of them have cleared the JRF. 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.

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### School-wise split of Ph.D's Enrolled

July 2021      Jan 2022

**105**

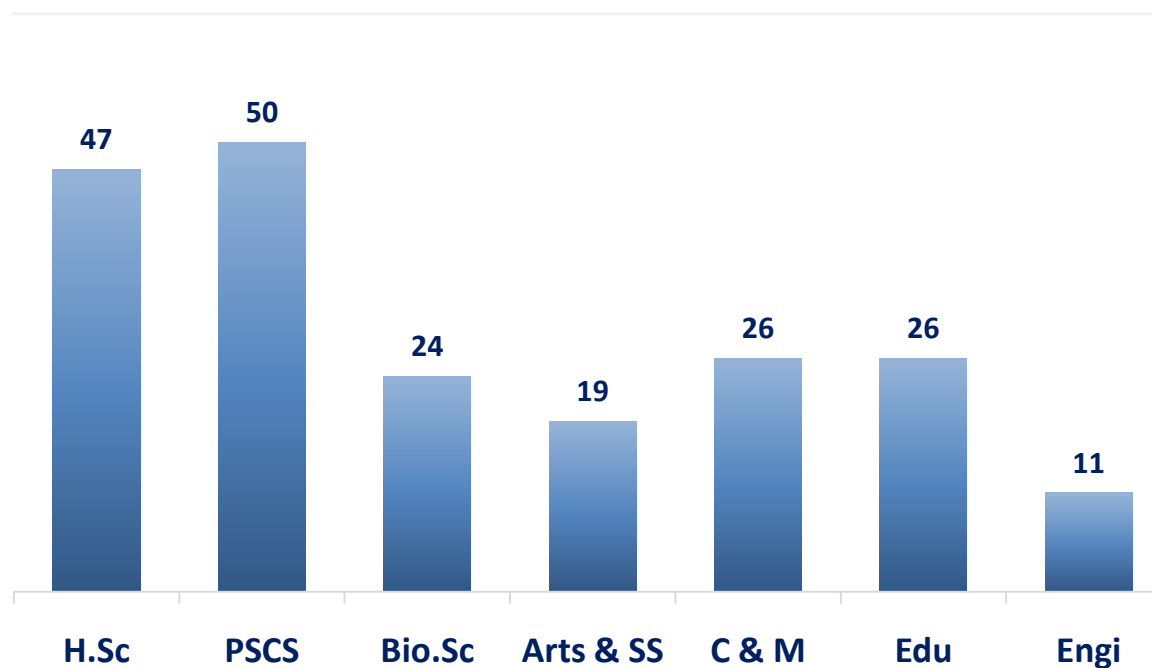
**98**

Full-Time  
Scholars

Part-Time  
Scholars

**97**

**106**



## Results of UG and PG - Graduated



**97.72%**

of the outgoing students had cleared  
their final exams

Registered - 2599

Passed-out - 2540

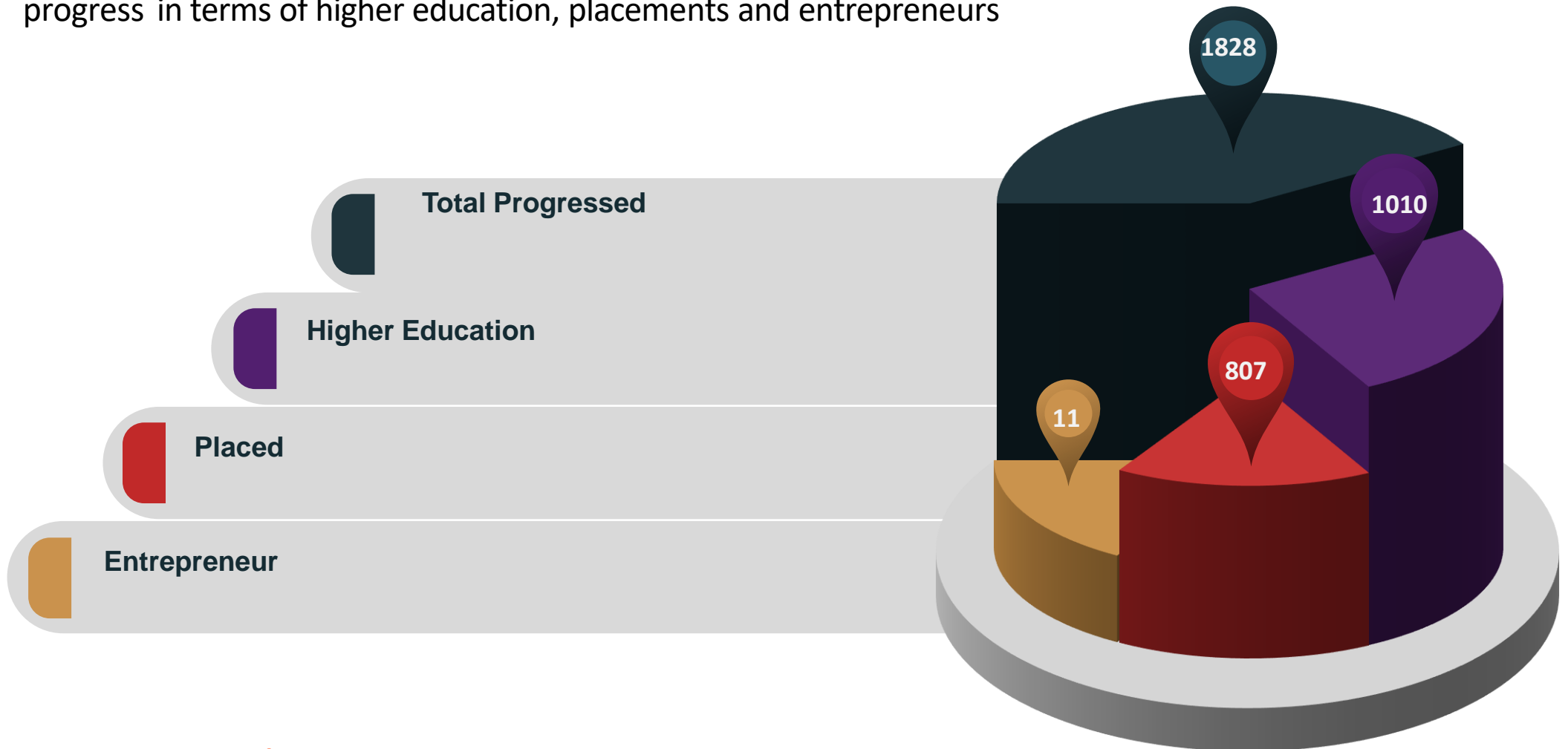
Level/Programme	Registered	Passed Out
UG	1885	1833
PG	535	529
B.Ed.	159	158
M.Ed.	20	20
<b>Total</b>	<b>2599</b>	<b>2540</b>

**Annexure 10**



## 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 1828 (72%) of a total of 2540 outgoing students had progressed in either of the three ways. The chart below gives a detailed split of the progress in terms of higher education, placements and entrepreneurs

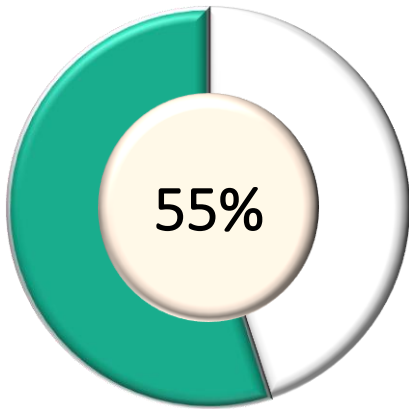


Annexure 11- Placement

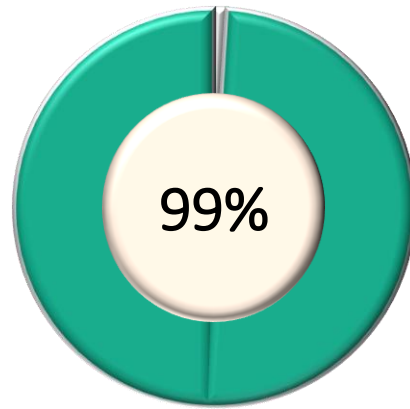
Annexure 12 - Higher Education

# Student Progression - Placement and Higher Education

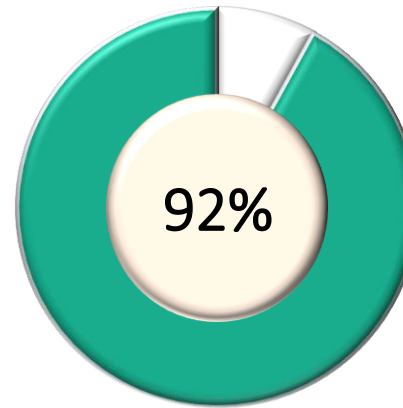
A detailed percentage of the progress of each school is displayed



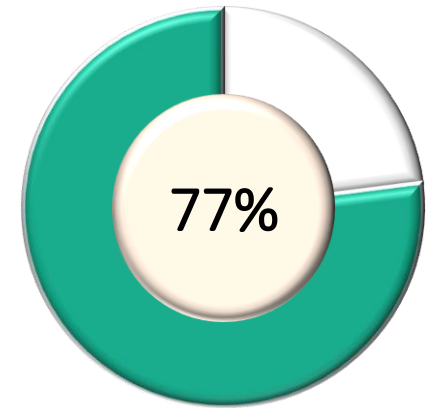
**Home Science**



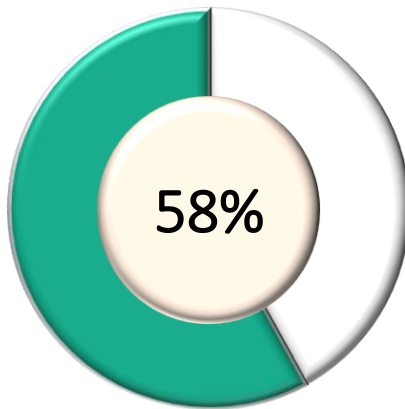
**Physical and  
Computational  
Sciences**



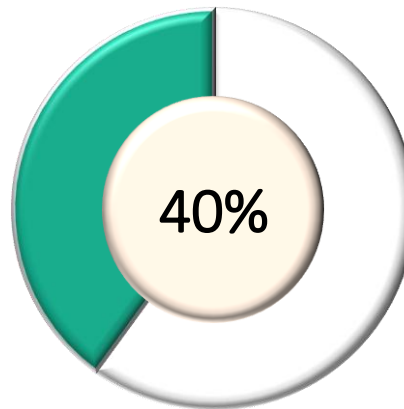
**Bio Sciences**



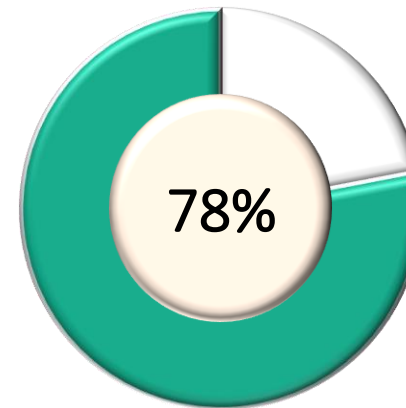
**Arts and Social  
Sciences**



**Commerce and  
Management**



**Education**



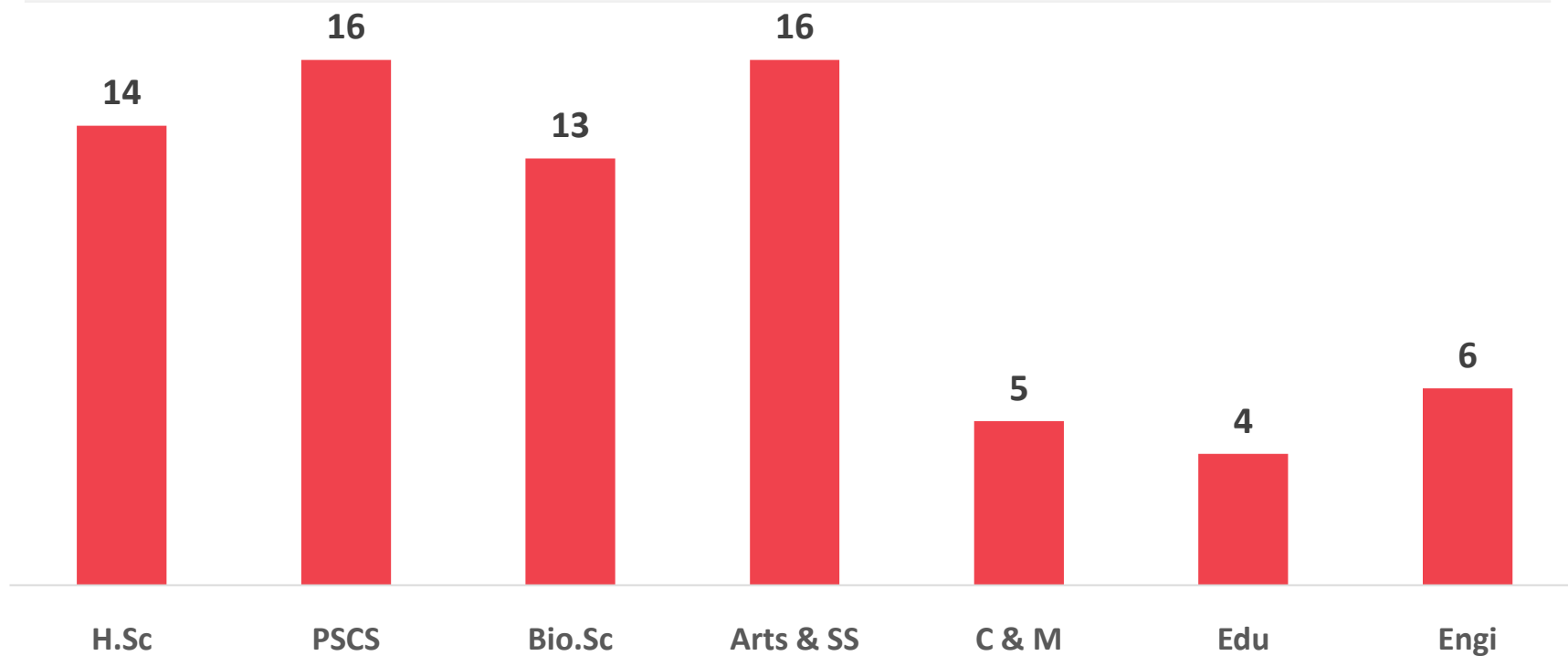
**Engineering**

## Ph.D's Awarded

For the academic year 2021-22, 74 scholars were awarded their doctoral degrees. The award of the degree is guided and monitored according to UGC regulations, 2019.

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### School-wise Split of Ph.D's Awarded



# Institution Profile and Activities

Teaching Positions at a glance	27
Infrastructural facilities	28
Library	29
Events Organised and Attended	30
Faculty and Student Accolades	31

## Teaching Positions at a glance

Sanctioned Teaching  
Positions

**404**

Available Teaching  
Faculty

**395**

Positions filled against  
Sanctioned posts by  
UGC

**149**

Positions filled against  
Sanctioned posts by  
Management

**246**

**Teaching Faculty with Ph.D**

**276**

Professors \*

**56**

Associate Professors \*

**34**

Assistant Professors

**305**

Annexure 14

\*Professors and Associate professor  
Positions include CAS

## Infrastructure Amenities and other Support facilities

Student Teacher  
Ratio

**20 : 1**

ICT enabled Classrooms  
and Seminar Halls

**234**

Computers for  
Academic Purposes

**1768**

Student Computer  
Ratio

**4.5: 1**

Facilitated  
Scholarships

**1545**

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	Journals	e-journals	e-books
<b>2291</b>	<b>363</b>	<b>3911</b>	<b>445980</b>
Databases	e-Shodhsindu	Subscription	
<b>11</b>	Access to <b>29,198</b> e-Journals	 e-Journals and e-Books	
Softwares	<b>4</b> Databases	<b>23.85 Lakhs</b>	
<b>3</b>	NDLI Resources	 Other Resources	
Shodhganga	World e-book Library	<b>108.97 Lakhs</b>	
<b>696</b> Ph. D Thesis uploaded	South Asia Archive		

Annexure 15



## Events organised

For the academic year 2021-22, a total of 34 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 1823 students, faculty, and executives were benefitted

**Annexure 16 A**

Type of events	Number
Conferences	6
Workshops	10
Special Lectures	8
Association Meetings	10
IPR	2
Academic Writing	3
Proposal Writing	1

## Events Attended by the faculty

For the academic year 2021-22, a total of 47 faculty were facilitated to attend FDP / Conferences / Seminars / Training courses / Refresher / Orientation to aid effective learning among the teacher community.

**Annexure 16 B**

Type of events	Number
Conferences/Seminars	14
Workshops	20
FDP	9
Refresher/Orientation Courses	3
Short-term Training Programme	1

# 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	33
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. 41 research projects to the tune of 48 lacs were ongoing for the academic year 2021-22. Out of the 41 research projects, 23 were from Government funding agencies. The major funding agencies were the Ministry of AYUSH, UGC, DST, and ICSSR.

Number of Research Projects

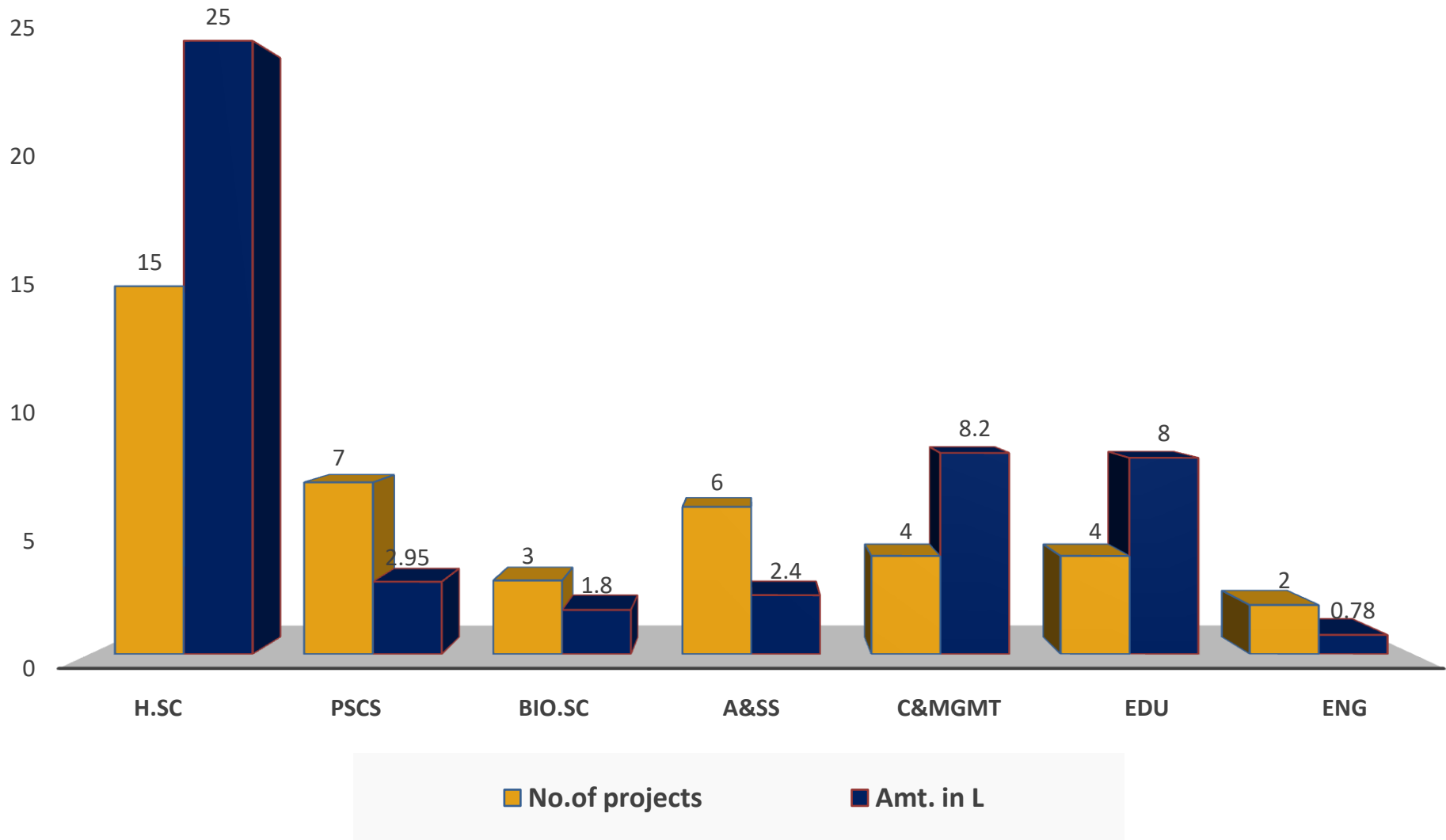
**41**

Amount in Rupees

**48,13,000**

Schools	Sponsored		Inhouse-Seed Money		Inhouse- Minor	
	No.	Amt in L	No.	Amt in L	No.	Amt in L
H.Sc	6	20.70	8	3.30	1	1.00
PSCS	2	0.15	4	1.80	1	1.00
Bio-Sci	-	-	2	.80	1	1.00
A&SS	-	-	5	1.70	1	.70
C & Mgmt	1	6.50	2	1.00	1	.70
Edu	1	6.70	3	1.30	-	-
Engi.	1	.075	-	-	1	.70
<b>Total</b>	<b>11</b>	<b>34.13</b>	<b>24</b>	<b>9.60</b>	<b>6</b>	<b>4.40</b>

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



## Publications and Bibliometrics

For the academic year 2020-21, the faculty 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.

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### Scopus

Period	Publications	Citations	H Index
Calendar Year 2021 and 2022	304	573	16
Till now	1608	12,299	46

### WoS

Period	Publications	Citations	H Index
Calendar Year 2021 and 2022	198	316	12
Till now	1021	7922	39

## Patents Published and Awarded

The institute's strenuous effort to progress in the path of research is evidenced by facilitating the publication of 12 patents and 2 granted for the academic year 2021-2022. On the whole, the patents published till December 2022 stands at 40, and 10 patents are granted. The following is the list of published and granted patents for the year 2021-2022.

### Published

1. The Use of Agricultural Automatic Bluetooth Controlled Robots in Vegetable Harvesting Management Herbal Bandaging Fabric Coated with Leaf Extracts of *Pisona Grandis*
2. Edible Film-making Machine
3. Production of Bio-Diesel from the leaves of *Solanum Melongena* L through Transesterification
4. UPF analysis of top down ball milled natural red sandal powder alkali extract solution dyed on bleached cotton fabric and thereof
5. Millet after meal
6. Supercapacitor using porous carbon derived from *Prosopis Juliflora*
7. Description of Computer-assisted cartesian Plane
8. Probiotic Complementary food mix for six months to three years of age
9. Artificial Intelligence-Based Mosquito Trap to Control Vector-Borne Disease
10. IOT Enabled AI system for Devising Water conservation in Houses
11. Development of science lab talking device
12. Mixed Fruit Peel Larvicidal Composition and the process thereof

### Awarded

1. Process of preparation Wound Healing Topical Ointment from Solvent Extracts of *Pisonia Grandis*
2. A Novel Weedicide Formulation for the Management of Water Hyacinth

**Annexure 19**



## Collaborations and MoUs

**MoU's**

Active  
MoUs

**28**

International

**4**

National

**8**

Regional

**10**

District

**6**

**Collaborations**

**58**

Skill Training ————— 4

Research and Innovation ——— 49

Entrepreneurship ————— 2

Webinar ————— 3

Activities associated with Active MoU's	Number
Joint Seminars/Conferences/Training Programmes	4
Student Leadership activities/Skill training	10
Curriculum Update/Internships	6
Faculty/Student Exchange	7
Collaborative research	11
Industry-Institute Linkages	3

**Annexure 20 - 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 practices.**

**CLICK HERE TO VIEW THE  
REPORT ON THE WEBSITE**



**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