



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal - 500 043, Hyderabad, Telangana

## ACCOMPLISHMENT REPORT

### 2<sup>nd</sup> Strategic Plan (2017-2022)

*Five years of measurable growth across research, teaching excellence,  
alumni engagement, global exposure and community impact.*

|                         |                 |                             |                                |
|-------------------------|-----------------|-----------------------------|--------------------------------|
| 6                       | 47              | 5                           | 100+ %                         |
| Strategic<br>Directions | KPIs<br>Tracked | Years of<br>Continuous Data | Peak Growth<br>on Leading KPIs |

## ABOUT THIS REPORT

This Accomplishments Report consolidates five years of data (2017-18 through 2021-22) from the Institute of Aeronautical Engineering's Accomplishment Report of Strategic Plan 2017-22, presenting the Institute's Key Performance Indicators across all six strategic priorities in a single, visual, shareable format.

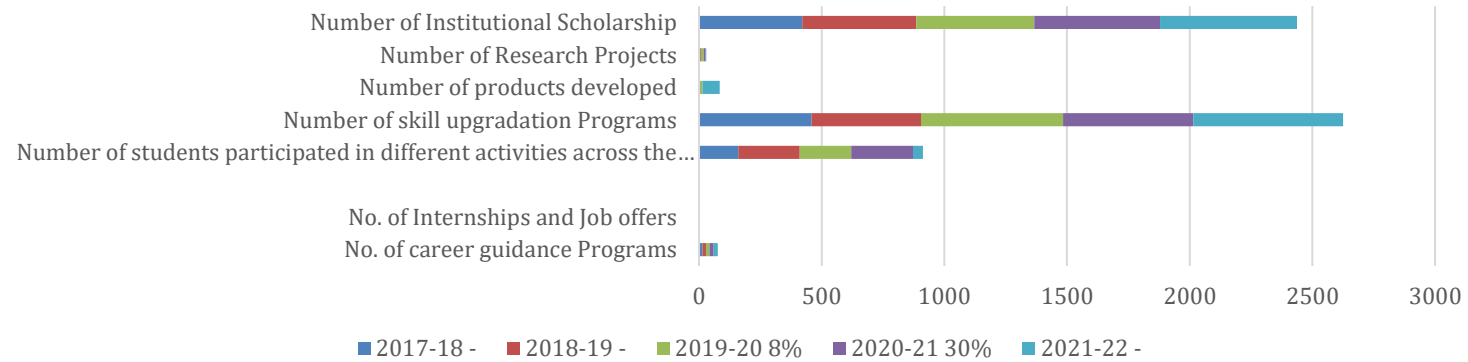
### STRATEGY 1

## Strengthen Research & Academic Excellence

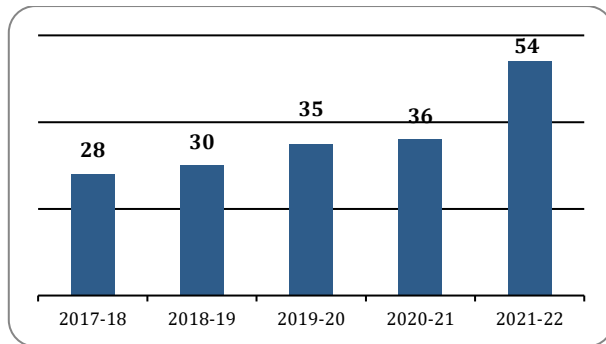
To attract motivated academic achievers to UG and PG programs and nurture them into a skilled technical and managerial workforce with research acumen and social responsibility system.

| Major Achievements                                                           | 2017-18        | 2018-19        | 2019-20        | 2020-21        | 2021-22         |
|------------------------------------------------------------------------------|----------------|----------------|----------------|----------------|-----------------|
| Percentage of Number of new programs introduced                              | -              | -              | 8%             | 30%            | -               |
| No. of career guidance Programs                                              | 14             | 14             | 15             | 16             | 17              |
| No. of Internships and Job offers                                            | I-197<br>J-512 | I-200<br>J-579 | I-310<br>J-584 | I-385<br>J-622 | I-4366<br>J-632 |
| Number of students participated in different activities across the colleges. | 160            | 250            | 210            | 252            | 40              |
| Number of skill upgradation Programs                                         | 458            | 447            | 579            | 531            | 610             |
| Number of products developed                                                 | -              | -              | 14             | -              | 70              |
| Number of Research Projects                                                  | 4              | 4              | 11             | 8              | 3               |
| Number of Institutional Scholarship                                          | 421            | 464            | 482            | 512            | 558             |

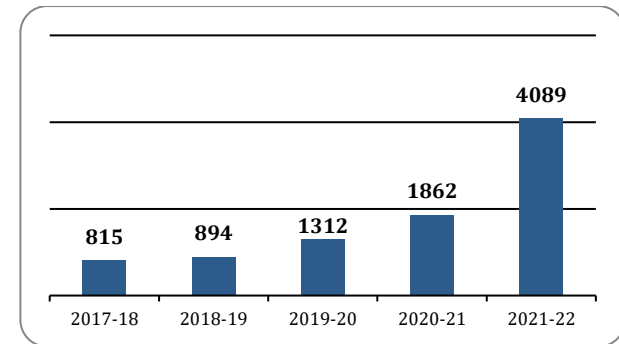
## Strengthen Research & Academic Excellence



## Transform students into an employable workforce and entrepreneur

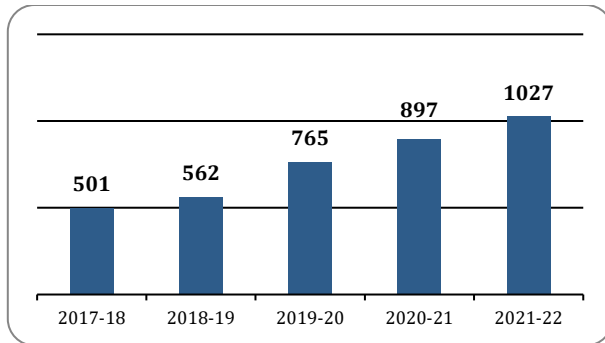


No. of Career Guidance Programs

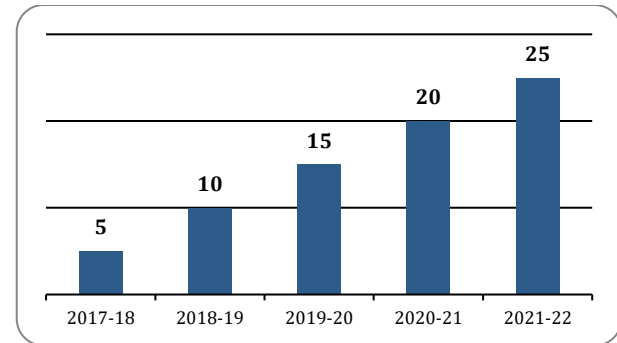


No. of Field Projects & Internships

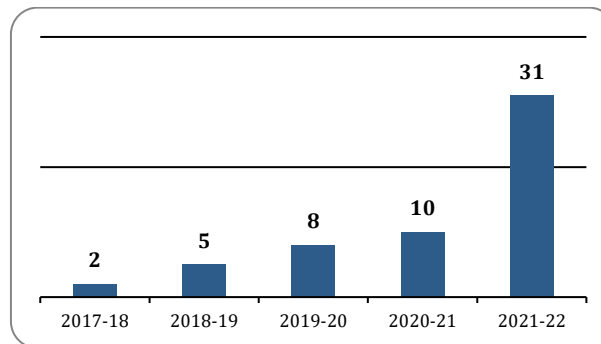
## Establish a system for holistic development of student learning



Students Participated in Activities Across Colleges

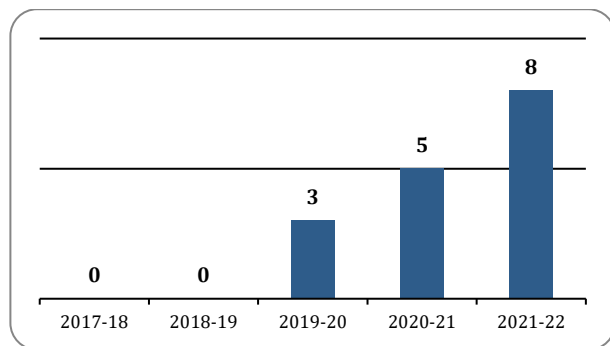


Number of Skill Upgradation Programs

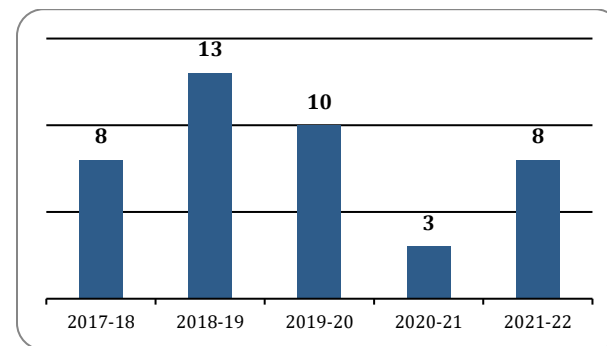


Number of Innovations

## Establish state-of-the-art research labs & centers of excellence



Number of Centres of Excellence



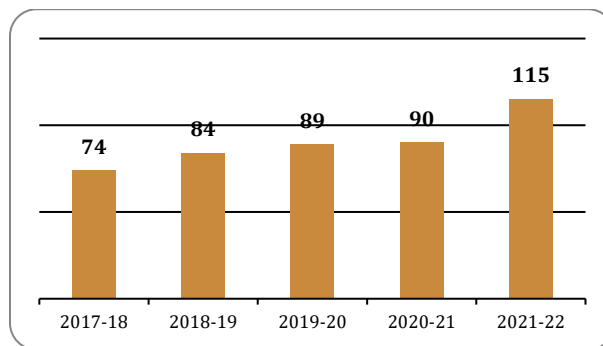
Number of Research Projects

**STRATEGY 2****Outstanding Teaching, Learning & Faculty Development**

To provide outstanding teaching, learning and research facilities to enable students to become problem solvers, leaders and critical thinkers highly sought after by universities, industry and government.

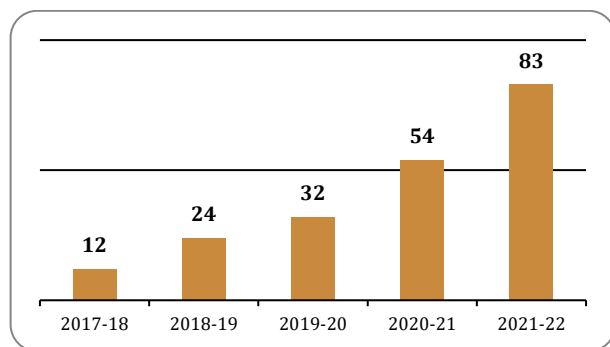
| Major Achievements                                                         | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22  |
|----------------------------------------------------------------------------|---------|---------|---------|---------|----------|
| Number of Faculty recruited with Research Exposure (Total)                 | 60      | 70      | 74      | 77      | 106      |
| Number of Adjunct Faculty                                                  | -       | 1       | -       | -       | -        |
| Institutional funding to pursuing PhD scholars. (In Lakhs)                 | -       | -       | -       | -       | 1.175    |
| Number of NPTEL certifications                                             | -       | 10      | 15      | 10      | 3        |
| Sponsoring for Higher Education / Academic leave                           |         |         | Yes     | Yes     | Yes      |
| Maternity leaves (In Months)                                               | 6       | 6       | 6       | 6       | 6        |
| Number of faculty Sponsored to participate in FDPs, STTP"s and Conferences | 170     | 121     | 168     | 264     | 226      |
| Number of updated laboratories                                             | -       |         |         |         | Total-85 |
| Number smart classrooms                                                    | -       |         |         |         | Total-75 |
| Number of Industry Experts in Advisory committees / BoS                    | 13      | 13      | 13      | 17      | 17       |
| Number of Faculty undertaking industry assignments / Consultancy           | 33      | 16      | 10      | 3       | -        |

## Recruiting outstanding and diverse faculty

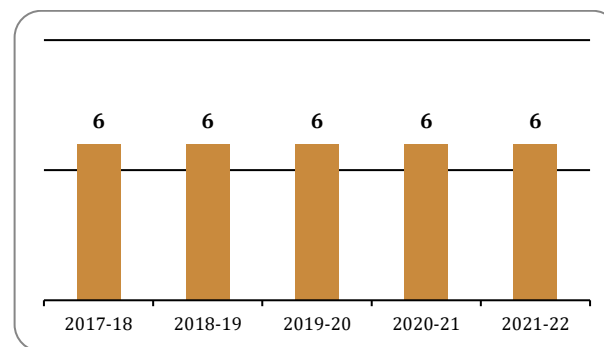


Faculty Recruited with Research Exposure (PhD)

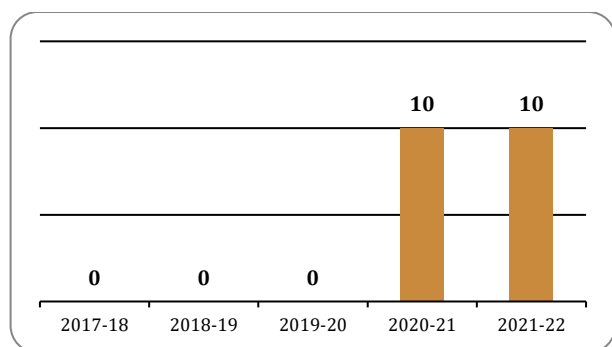
## Up-gradation of laboratory and research facilities



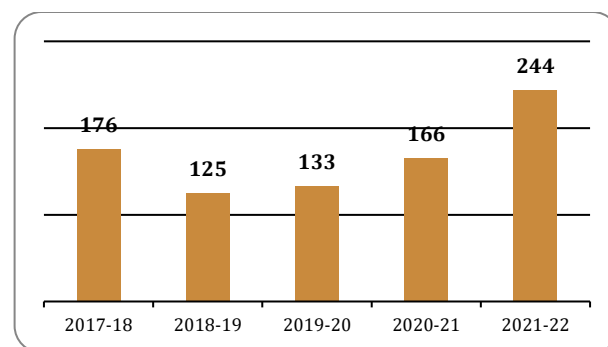
Incentive for Qualification Upgradation / Research (₹ Lakhs)



Maternity Leaves (In Months)

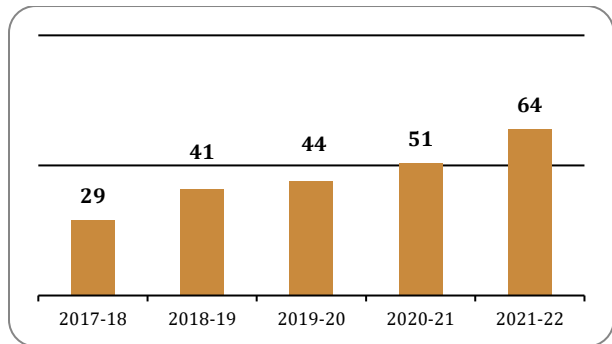


**Paternity Leaves (Days)**

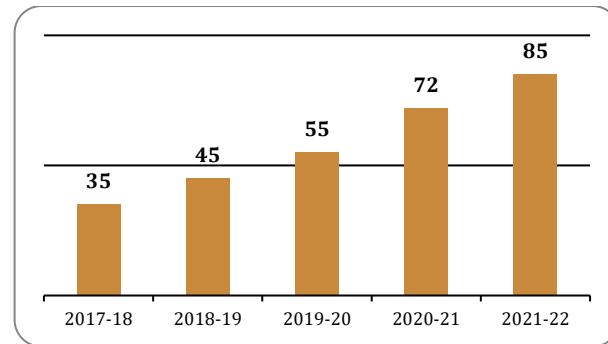


**Faculty Sponsored for FDPs, STTPs & Conferences**

### **Up-gradation of technological and other facilities**

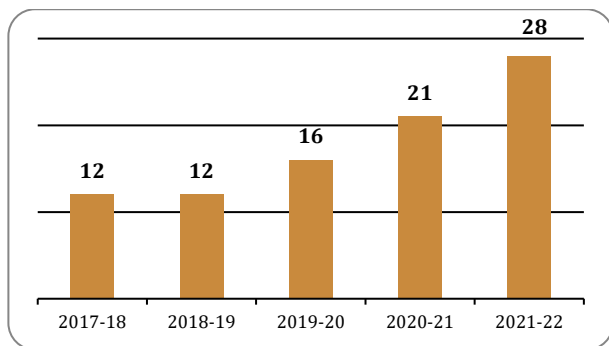


**Number of Updated Laboratories**

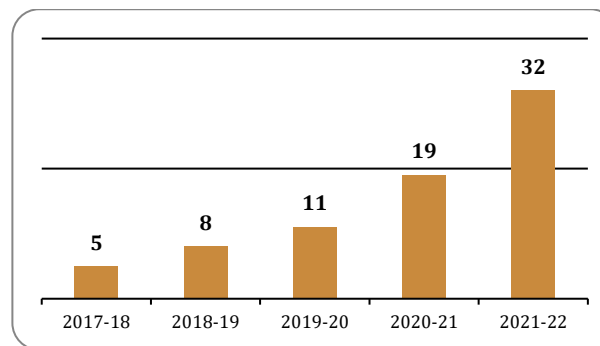


**Number of Smart Classrooms**

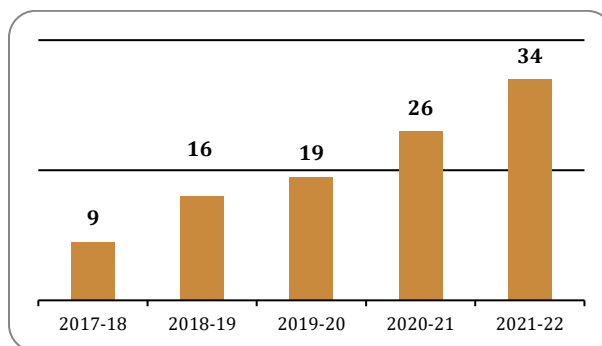
## Engage qualified industry/field experts in teaching & learning



Industry Experts in Advisory Committees / BoS

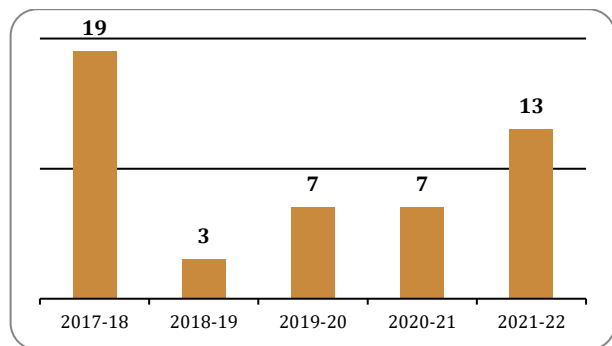


Expert Lectures Delivered by Industry Personnel

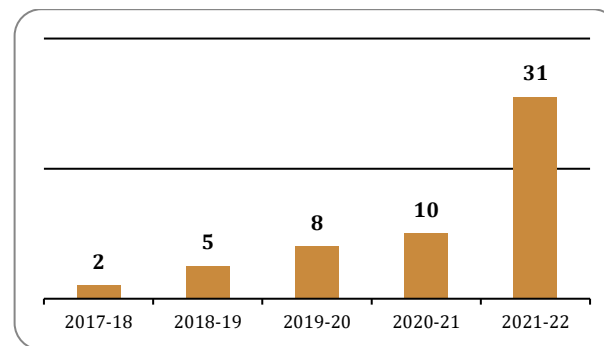


Number of Corporate Trainings and Visits

## Encourage faculty to develop and promote products/technology



Faculty Undertaking Industry Assignments / Consultancy



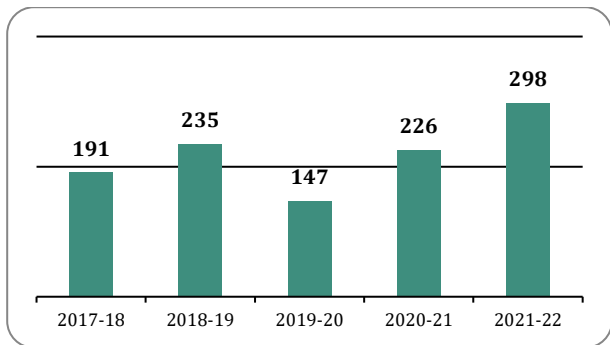
Projects Leading Towards Product Development

**STRATEGY 3****High-Impact Research & National Recognition**

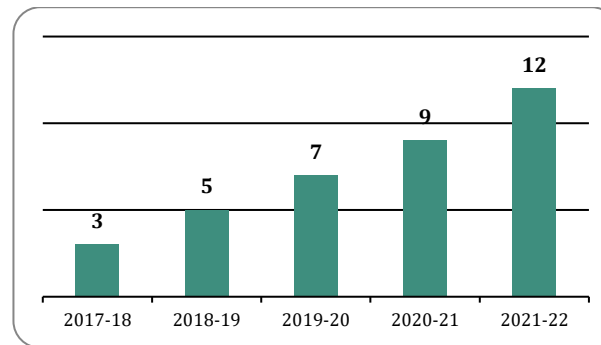
To establish focused, high-impact, nationally recognized research programs and build a prominent faculty that will enhance the college's national and international reputation.

| Major Achievements                              | 2017-18            | 2018-19      | 2019-20             | 2020-21      | 2021-22         |
|-------------------------------------------------|--------------------|--------------|---------------------|--------------|-----------------|
| Number of papers in Indexed Journals (SCI/WoS)  | 2017-199           | 228-224      | 2019-128<br>2020-99 | 2021-98      | 2022-63         |
| Number of Patents published                     | D-0<br>U-3         | D-9<br>U-12  | D-22<br>U-27        | D-6<br>U-28  | D-7<br>U-23     |
| Number of Books / Book chapters                 | 2017-25<br>2018-79 | 2019-56      | 2020-71             | 2021-102     | 2022-23         |
| National Institutional Ranking Framework (NIRF) | -                  | 139          | 170                 | 159          | Band<br>201-250 |
| ARIIA                                           | -                  | Participated | Participated        | Participated | Band Excellent  |

## Enhance high impact research through academic and sponsored research

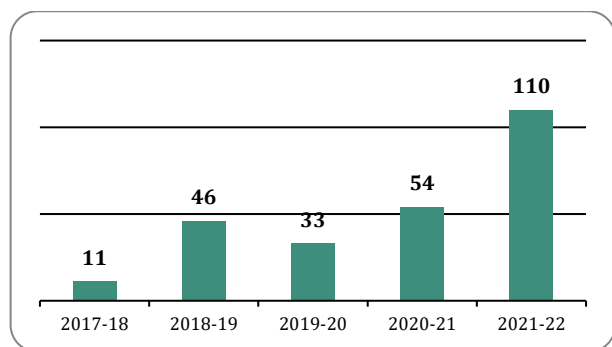


Papers in Indexed Journals (SCI/WoS)

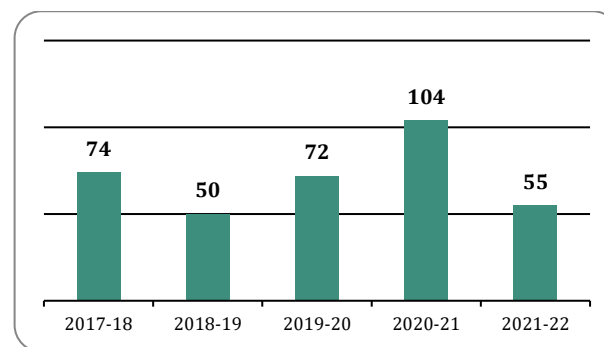


Sponsorships from Corporate / NGOs

## Augment technical, legal and financial support to IPRs

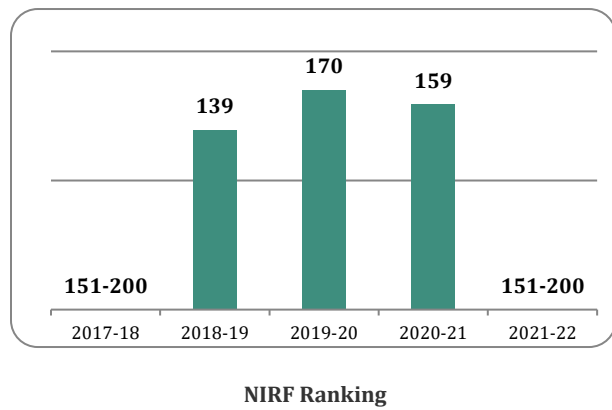


Number of Patents Published



Number of Books / Book Chapters

## National Ranking



## ARIIA Rating

2020-21: Band B Institution • 2021-22: Band Excellent

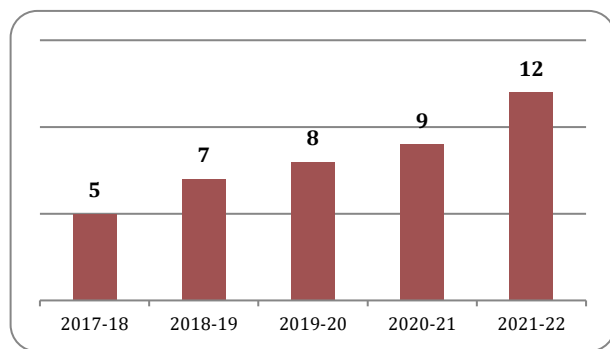
#### STRATEGY 4

## Alumni Engagement & Institutional Brand

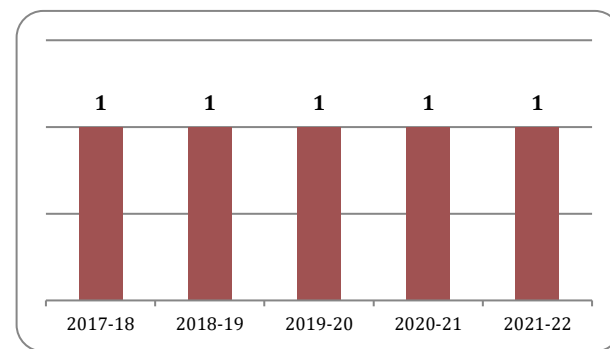
WHAT WE SET OUT TO DO: To establish lifelong connections with alumni and capitalize on this network, corporate partnerships, and related research to strengthen the education experience, research scholarship quality, and financial support of the college.

| Major Achievements                                                           | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
|------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| Number of Invited lectures                                                   | -       | -       | -       | -       | -       |
| Number of alumni Meets conducted                                             | 2       | 2       | -       | 1       | 1       |
| Number of Awareness Programs organized                                       | 3       | 2       | 2       | -       | 9       |
| Number of alumni felicitated for outstanding Performance in their profession | 2       | 2       | 2       | 6       | 5       |
| Number of alumni invited on various boards                                   | 14      | 14      | 14      | 15      | 15      |
| Number of alumni registered with official website of college                 | -       | -       | -       | 1000    | 1500    |

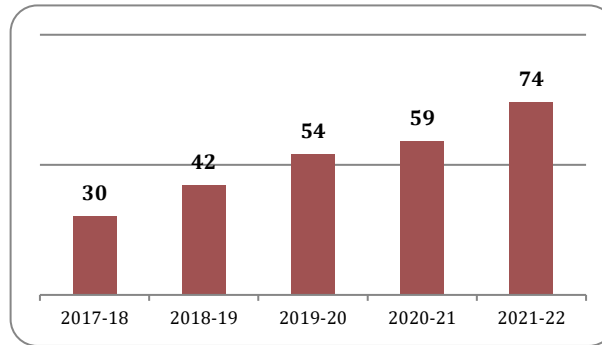
### Building a bridge between alumni and current students



Number of Invited Lectures

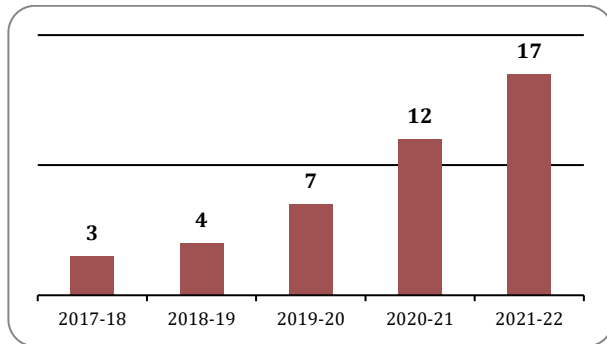


Number of Alumni Meets Conducted

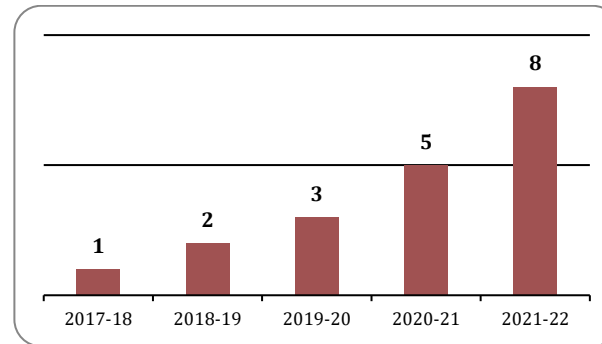


**Number of Internships Provided**

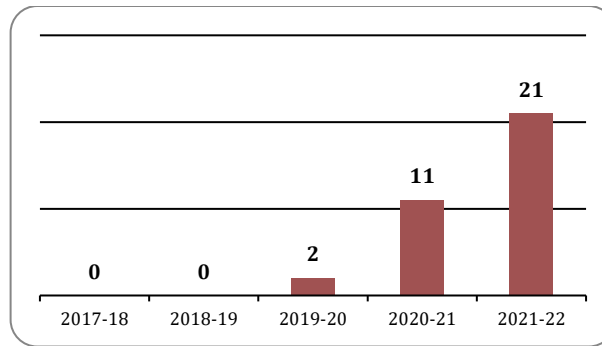
### **Creating public perception / brand image of the institute**



**Alumni Nominated for Institute Perception**

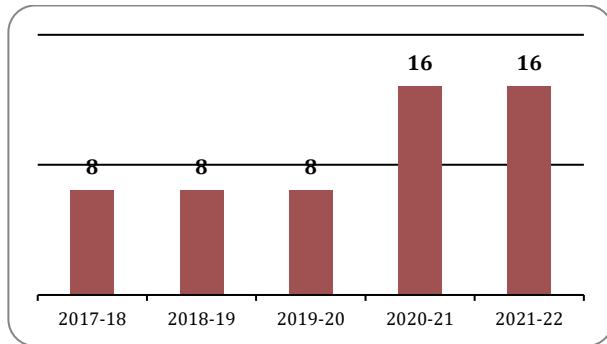


**Number of Awareness Programs Organized**

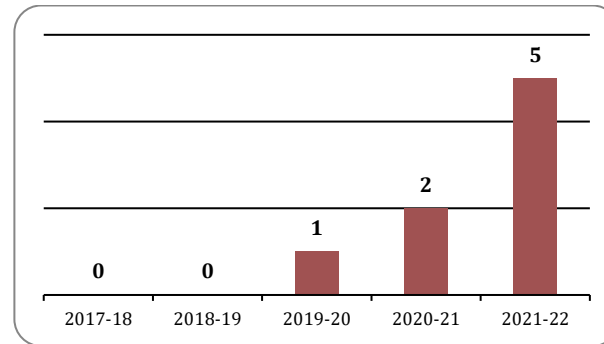


**Alumni Felicitated for Outstanding Performance**

### **Enrichment of curriculum and fostering industry relationships**

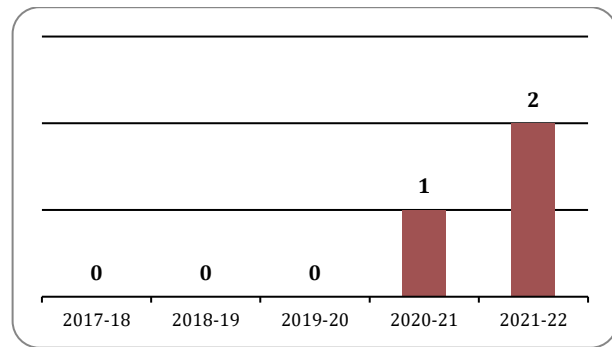


**Alumni Invited on Various Boards**

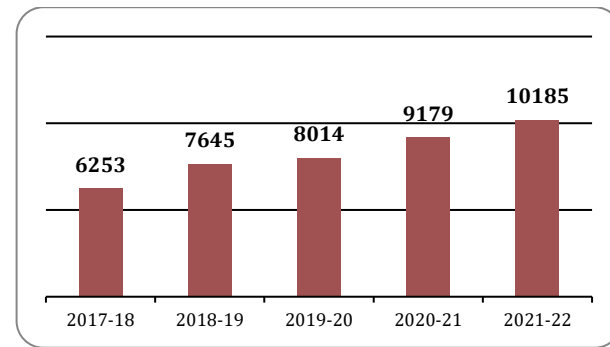


**Industry Visits Organized by Alumni**

## Enhancing alumni network for professional development



Number of Alumni Chapters Established



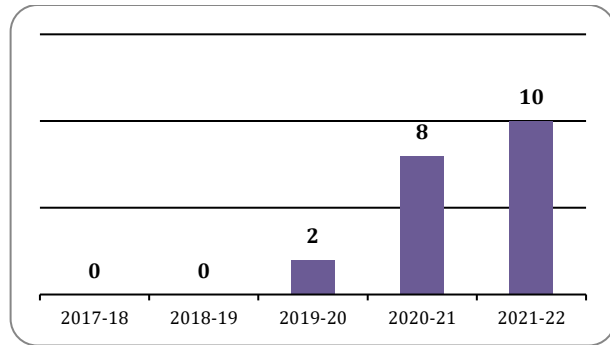
Alumni Registered with Official Website

**STRATEGY 5****Global Exposure, Innovation & Entrepreneurship**

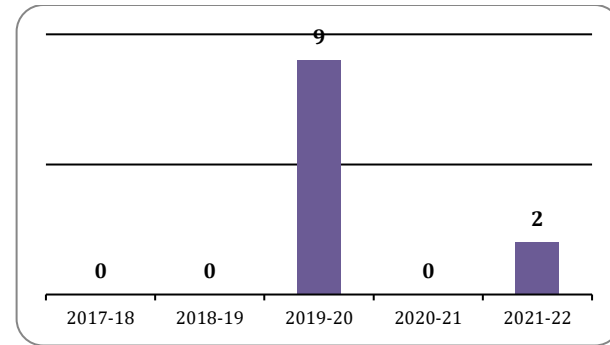
WHAT WE SET OUT TO DO: To prepare students and faculty for the changing global environment to create a culture of diversity, creativity, innovation, and entrepreneurship.

| Major Achievements                                                           | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
|------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| Number of Invited lectures                                                   | -       | -       | -       | -       | -       |
| Number of alumni Meets conducted                                             | 2       | 2       | -       | 1       | 1       |
| Number of Awareness Programs organized                                       | 3       | 2       | 2       | -       | 9       |
| Number of alumni felicitated for outstanding Performance in their profession | 2       | 2       | 2       | 6       | 5       |
| Number of alumni invited on various boards                                   | 14      | 14      | 14      | 15      | 15      |
| Number of alumni registered with official website of college                 | -       | -       | -       | 1000    | 1500    |

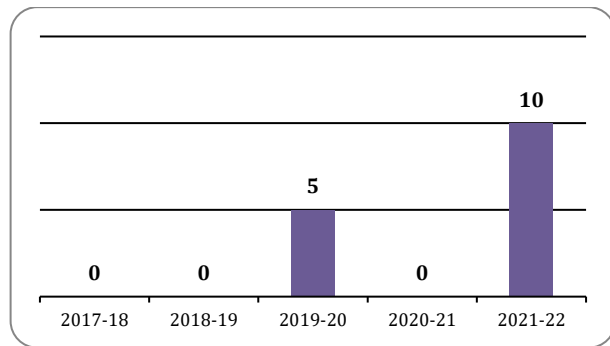
## Promote global knowledge exposure



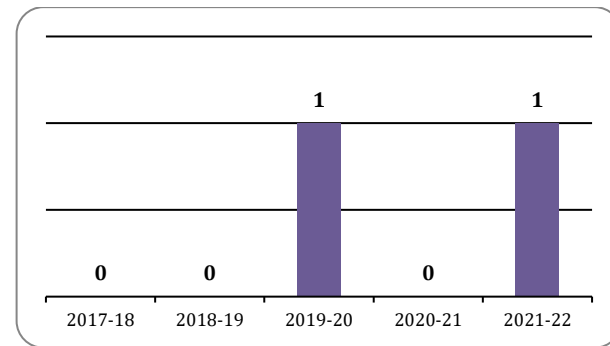
MoUs with International Universities



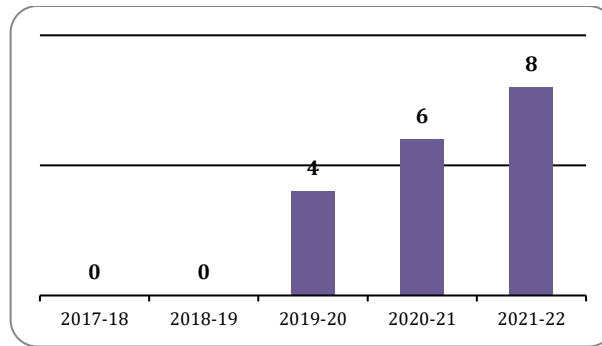
Student Internships at Foreign Universities/Labs



Faculty Participated in International Events

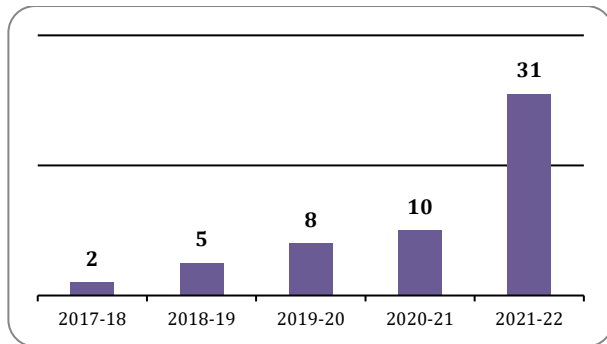


Conferences with Foreign Universities

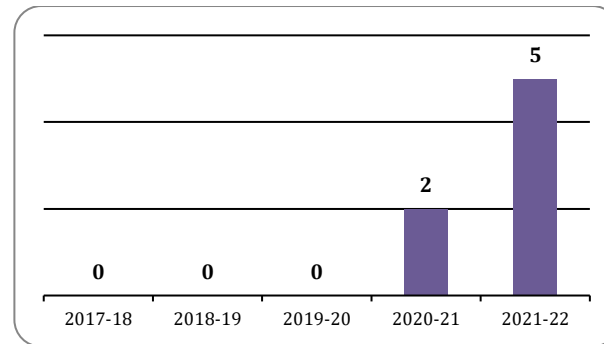


**Experts Invited from Foreign Universities**

### Promote culture of creativity, innovation & entrepreneurship



**Number of Innovation Prototype Products**



**EDC Programs with Foreign Universities**

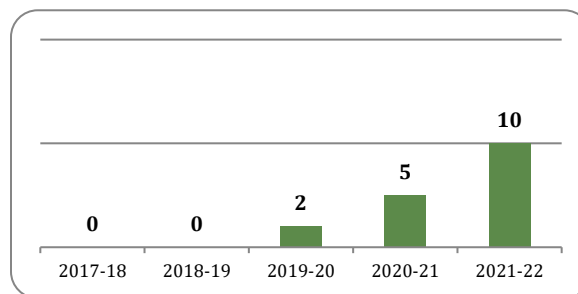
## STRATEGY 6

# Community Engagement & Social Responsibility

To actively engage with the local/regional community and use all institutional strengths & capabilities to provide solutions for socio-economic growth of the community, irrespective of their status in society.

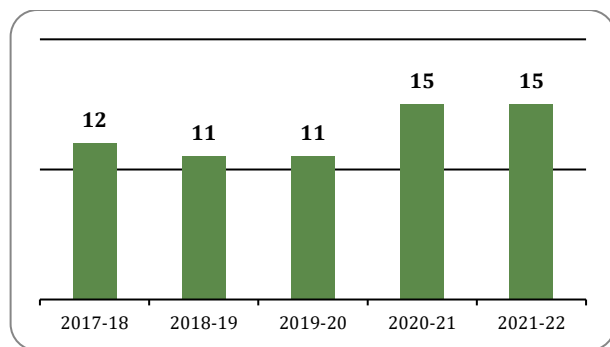
| Major Achievements                                                           | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
|------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| Number of Invited lectures                                                   | -       | -       | -       | -       | -       |
| Number of alumni Meets conducted                                             | 2       | 2       | -       | 1       | 1       |
| Number of Awareness Programs organized                                       | 3       | 2       | 2       | -       | 9       |
| Number of alumni felicitated for outstanding Performance in their profession | 2       | 2       | 2       | 6       | 5       |
| Number of alumni invited on various boards                                   | 14      | 14      | 14      | 15      | 15      |
| Number of alumni registered with official website of college                 | -       | -       | -       | 1000    | 1500    |

## Providing technological and managerial solutions to local industries

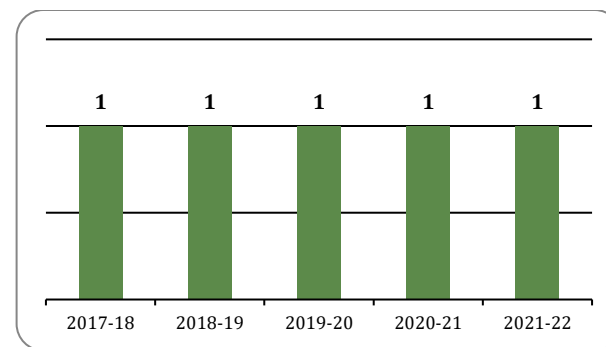


Projects Offered Under Schemes / Industry-Based Project

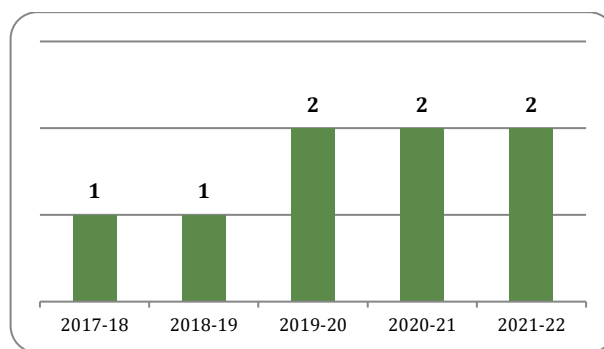
## Identifying socio-economic problems via institutional support



Programs via Extension and Outreach



Number of Health Checkup Camps



Awareness Programs on Traffic & Water Conservation

