SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

INDIRA INSTITUTE OF AIRCRAFT ENGINEERING

SR. NO. 37, MANJARI FARM, NEAR AGRICULTURE COLLEGE PUNE SOLAPUR
ROAD, PUNE
412307
www.iiaepune.org

SSR SUBMITTED DATE: 01-08-2023

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

August 2023

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

We the Indira Institute of Aircraft Engineering (IIAE), Pune welcome those who aspire to fulfill their dreams of launching themselves into the unbounded sky by enrolling & becoming the priceless membrane of the glorious aviation field. The IIAE can empower the aspirants to achieve their goal by imparting the effective and affective training in the field's of theoretical and practical aspects of Aviation. This can be possible only when someone is bestowed with quality training.

Vision

To become and remain the first choice of the students and Aviation Industry.

Mission

We at the Indira Institute of Aircraft Engineering, Pune develop techniques and methods among the students by imparting the quality education for providing skilled manpower to the Aviation Industry Worldwide.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Pro-active, helpful and visionary management.

State of art Infrastructural facilities and technically advanced infrastructure.

Well ventilated class rooms, sufficient furniture.

Computers with internet and latest configuration, UPS facility, good Library and Smart rooms are provided.

Dedicated, dynamic, experienced and faculty.

Well cultured and disciplined students and examination results are good.

Employable certificate courses are provided poor and underprivileged students.

Institutional Weakness

Low student's intake is the problem in this college

Research publications and research cultural are not adequate

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Limited range of academic programmes

No provision for boys and girls hostels in the college campus.

Institutional Opportunity

Good location of the college

Opportunities for introduction of more industry oriented technical courses.

potential for better social out rich

Institutional Challenge

Recruitment of qualified faculty for self-financed programmes.

Production of good human resources to accept global challenges.

Establishing linkages/ collaboration with industry.

Continuous and sustained enhancement of quality education to the students

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Our college Indira Institute of Aircraft Engineering, Manjari Road, Hadapsar, Pune is a self Financing an affiliated college of savitribai Phule Pune University, Pune. Being an affiliated college, it adopts the syllabi prescribed by the University and has freedom to design and modify the syllabi because this IIAE is special college of aircraft engineering, an unique college under SPPU. In view of this, the college encourages the faculty members to involve directly / indirectly in curricula modifying process. The college started functioning in 2018 with B.Sc. Aviation program in a rural area. wide range jobs are available for the students of this U G course. These courses include, parts of Environmental Studies, Electrical and Eletronics, mechanical and Computer related courses. During the course, student has industrial exposure as well as final year projects.

Teaching-learning and Evaluation

The students for this program are admitted purely on the basis of their academic of merit. The admission

process is governed by the provisions of the Savitribai Phule Pune University and Government of Maharashtra. At the beginning of the academic session principal's address is arranged to give general instructions and academic plan of the college to the students. Methods of evaluation, code of conduct are communicated to the students. The printed prospectus gives all the necessary information. The course syllabi are unitized and teachers are required to prepare a teaching plan accordingly prepare an annual teaching plan, which is monitored by the heads. The traditional lecture method of teaching is supplemented with the use of ICT, laboratory exercises, group discussions, paper reading by the students. Remedial coaching is provided to weaker students and advanced learners are given supplementary books to read and give presentations in the various associations of the college. Periodic tests, pre-semester and pre-annual examination are conducted for all the programs. Students also prepare field visit report and project report wherever it is necessary. Final examination is conducted by the university. Semester pattern is applicable to all the programs taught in the college. Performance of students in co-curricular and extra-curricular activities is also assessed. The teachers are encouraged to attend seminars, workshops and conferences. The teaching staff is recruited in accordance with provisions of the SavitribaiPhule Pune University and State Government.

Research, Innovations and Extension

The college has constituted a Research Committee to promote research and encourages teachers to undertake research work and present research findings in the journals. The teachers of the college also give guidance to UG students and in the subjects like computer science and Management for their project work. The college provides basic infrastructure facilities to the teachers who are engaged in research work like library facility, laboratory facility and internet connectivity. Besides, some departments are also involved in a variety of extension activities such as social work, health and hygiene awareness, Gender Issues, save the girl child, betibacchavbetipadhav, swacch Bharat Mission, cleaning the streets, tree plantation, environment pollution, blood donation camps and other socially relevant programs are carried out with the help of NGO's and GO's. The college is also giving encouragement and help to the students to participate in co-curricular activities like debates, cultural competitions etc. in which most of them have excelled and won prizes/ shields. The sports department is also doing well.

Infrastructure and Learning Resources

The college has built a state of architecture for instructional and administrative purposes. It has class rooms, administrative block, library, computer laboratories, conference hall, Principal's cabin, staff room, examination control room, ladies' common room, various departments, canteen and vehicle parking. The college has photocopy facility, computer facility, and supply of potable water, internet and sanitary facilities. The classes are conducted in prescribed schedule. The college has well-equipped library having adaquate books, computers and internet facilities. C.Ds of e-books are also available for the students and staff. The library subscribes to journals and newspapers and functions during college hours. The library is managed under the supervision of an advisory committee of faculty members. The college has well-equipped computer laboratories to cater to the needs of the computer science students. In addition to the regular non-teaching staff, some housekeeping staff are also appointed to clean the premises.

Student Support and Progression

The college admits the students to the academic programme on the basis of merits in conformity with the rules

and norms of Savitribai Phule Pune University (SPPU) and state government. The college publishes its prospectus which contains the regular admission information as well as the related information regarding fee structure, examination procedure, information about job oriented certificate courses, remedial, bridge and value added courses and rules related to ATKT (allowed to keep terms). There are a number of welfare schemes operating in the college. The college promotes active participation of the students in social, cultural and sports activities. Over-all personality development of students is carried out. Through students' associations different programmes / events / competitions are organized for the students. The college has formed an alumni association recently, many alumni of the college occupy important positions. The college has also decided collecting feedback from the alumni; their suggestions are considered for further development and improvement of the college.

Governance, Leadership and Management

The college is managed by the Empire Education Society , a registered trust. It has a governing council. As per the requirement of University Act there is a local managing committee (LMC). Recently it is named as College Development Committee (CDC) which manages affairs of the college. Besides, there are several cells formed for specific purposes. The Principal implements the policies and decisions of governing council and exercises such powers as are conferred on him by the University Act and the state government. The Principal, along with Heads of the Departments and co-ordinators, ensures smooth functioning of the college. The work efficiency of both teaching and non-teaching staff is assessed through self-appraisal, feedback from the students and confidential reports of the Heads and the Principal. The non-teaching staff has been trained in the use of computers. There is a grievance redressal cell which deals with the grievances. Besides, there is a discipline cell, student welfare cell, women welfare cell to resolve the problems of the students. The fee structure for the programmes is decided by the University and State Government. Policies regarding academic planning, admissions, departmental budget, and curricular, co-curricular and extracurricular activities are formulated in consultation with the Heads of Department. In order to motivate the teaching and nonteaching staff, the college sends some of them to visit well-known colleges of Maharashtra. The Income and Expenditure of the college are subjected to regular internal and external audit. Internal and External Audit are done regularly.

Institutional Values and Best Practices

The college has introduced career-oriented and self-financed certificate courses which students may opt for parallel to their programmes. These autonomous certificate courses are conducted in the afternoon and evening hours when regular college teaching is over. The courses include Environmental Education, Web Designing, Computer Applications, Research Methodology, Fitness and Self Defence, Computer Graphics, Animation Multimedia, MS-Office, Networking and Ethical Hacking, Personality Development and Communication Skills, Digital Marketing, Human Rights and Value Education, Derivative Market, Tally and Software Testing. Value based education to students and civic responsibilities among the students are inculcated in them through N.S.S. unit. The students are encouraged to take part in various cultural activities, sports, quiz, and debate competitions in order to develop their over-all personality. The college encourages valued-based education through celebration of the anniversaries of great personalities like Mahatma Gandhi, Dr Babasaheb Ambedkar, Dr. Sarvapalli Radhakrishnan, Subhash Chandra Bose, Chhatrapati Shivaji Maharaj, Mahatma Jotiba Phule,Savitribai Phule, Dr. A P J Abdul Kalam, Rajarshi Shahu Maharaj etc and National celebrations like Independence Day, Republic Day, Maharashtra Foundation Day, International Labour Day. The lady students are given training in health, law, and social activities. They are also given training in self-employment and all possible other activities that enhance their social confidence.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	INDIRA INSTITUTE OF AIRCRAFT ENGINEERING
Address	Sr. No. 37, Manjari Farm, Near Agriculture College Pune Solapur Road, Pune
City	Pune
State	Maharashtra
Pin	412307
Website	www.iiaepune.org

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Director(in-charge)	Surendra Giri	020-64015992	9960686897	-	info@iiaepune.org
Associate Professor	ANAGHA SHINDE	020-64015993	8087062489	-	anagha123.shinde @gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

State	University name	Document
Maharashtra	Savitribai Phule Pune University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
No contents				

Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	Directorate General of Civil Aviation Government of India
Date of recognition	03-07-2023

Location and Area of Campus

Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Sr. No. 37, Manjari Farm, Near Agriculture College Pune Solapur Road, Pune	Urban	0.5	1625.8

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BSc,Science And Technology	36	HSSC	English	240	177

Position Details of Faculty & Staff in the College

	Teaching Faculty											
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				0				0				2
Recruited	0	0	0	0	0	0	0	0	0	2	0	2
Yet to Recruit				0				0				0

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Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				13
Recruited	9	4	0	13
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				1
Recruited	1	0	0	1
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers									
Highest Qualification	Professor			Associate Professor			Assistant Professor		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	2	0	2
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers									
Highest Qualification	Professor			Associate Professor			Assistant Professor		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers									
Highest Qualificatio n	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	75	38	0	0	113
	Female	51	13	0	0	64
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Category		Year 1	Year 2	Year 3	Year 4
SC	Male	1	1	1	1
	Female	4	2	1	0
	Others	0	0	0	0
ST	Male	0	1	1	1
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	29	26	4	8
	Female	7	4	19	0
	Others	0	0	0	0
General	Male	56	58	42	14
	Female	21	12	7	4
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		118	104	75	28

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	in order to develop the all-round capacities of the students – intellectual, aesthetic, social, physical, emotional and moral in an integrated manner, the college is preparing to include multidisciplinary subjects as per the National Educational Policy 2020. Keeping in view the problems faced by the students, the college is planning to set up short term and vocational courses. The aim is to make the students equipped, so that they don't need to rely on Government jobs but instead pave a way towards self-employment. As the College is preparing itself to have more of multi-disciplinary subjects it tries to identify the programme learning outcomes along with courses and unit learning outcomes that define the

	specific knowledge, skills, attitudes and values that are to be acquired by the learner and would ensure that each programme achieves its goal.
2. Academic bank of credits (ABC):	The institution already offers credit-based courses and projects as per the curriculum and organizes community engagement and social service activities for the fulfillment of the programs. The college has sufficient collaborations and MoUs with national and foreign institutions testifying to its satisfactory state of internationalization of education. The college has acquainted its faculty with the procedures to offer online MOOC courses.
3. Skill development:	The institution has course in aircraft maintenance engineering which is itself a separate skill and is useful in establishing students carrier. It is approved by Directorate General of Civil Aviation (Govt. of India). Our students get placed on this basis. Further, the institution offers other skill development programs as per the need of the students.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Our institute has students all over India and they are placed in different airlines and supporting companies. Accordingly, we offer training programs from airlines and related agencies in online as well as in offline mode. This helps students to get knowledge of Indian language, culture.
5. Focus on Outcome based education (OBE):	The Institution already follows outcome-based education with a customized lesson plan manual which clearly states, course outcome, program specific outcome and program outcome. Students are made aware of the various course outcome, and program-specific outcome through the curriculum and orientation program. Attainment of outcome is analyzed and assessed at the end of the program.
6. Distance education/online education:	The institution has taken initiative in teaching-learning through virtual platforms during COVID-19 period. Faculty members have sufficient experience in e-content development and the use of technological tools for the teaching-learning process. Students are given online / telephonic support in various fields.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes. We have established Electoral Literacy Club in our college.
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Yes. We do appoint coordinators and faculty member to keep it functional.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	Yes. 1. Voter Registration camp for the eligible students in the campus 2. Voter awareness camp for candidates on campus.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.	Yes. We conduct voter awareness program in residential areas nearby the college.
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	The students above 18 years who are to be enrolled as voters are sensitized about democratic rights which include casting votes in elections. We do run motivation activity for registration of students. But, as the students belongs to various states of India, they have to register in their home town.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
177	118	104	75	28

File Description	Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 24

File Description	Document
Institutional data in prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
17	17	23	11	8

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
14.35	6.24	48.44	8.09	18.08

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Indira Institute of Aircraft Engineering established in 2011 to fulfill the concept of aviation industries to trained the person to become a skilled technician. In earlier stage only Avionics stream were taught here. But, later Bsc. In aviation field along with AME course were added from 2018 onwards.

We, the Indira Institute of Aircraft Engineering (IIAE) Pune welcome those who aspire to fullfill their dreams of launching themselves into the unbounded sky. We are providing B.Sc. Aviation course in Aeroplane turbine mechanical, heavy Airframe, jet engine (Mechanical System of Aircraft), Electrical, Instrument and Radio Navigation system

Providing B.Sc. Aviation course The IIAE achieve their goal by imparting the effective training in the fields of theoretical and practical aspects of Aviation. We are giving enough practices to overcome the difficulties of the students and we are arranging practical visit to acquire practical knowledge. We are familiarising with the complex systems like control, electricity generation and distribution, emergency power supply system, electronic flight Instrument system, pressurization and air conditioning system, engine propulsion, Pneumatic, Hydraulic etc.

Duration: 3 Years Full Time

Qualification: Higher Secondary School Certificate (10+2) Science Pass with Physics, Chemistry, and Mathematics from Recognized Board or university recognized board/university.

1.2 Academic Flexibility

1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response:

File Description	Document
Institutional data in the prescribed format	View Document

1.2.2

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response:

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
26	45	26	0	0

File Description	Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Response:

The cross cutting issues relevant to Gender, Environment & Sustainability, Human value, and Professional Ethics into the curriculum by SPPU, Pune as per the guide lines issued by UGC, New Delhi. The graduate programmes within the collage represent a rich diversity of students whose needs are shaped and addressed by courses that are imbibed in the curriculum like Environmental studies, MS office, Networking & Ethical Hacking, personal development, communication skills, computer fundamental and Internet Applications, Human Rights and Values Education. This college tries to adhere to the ideas and principles by being true to it the college has taken initiatives to bring the above issues. In to practice and to improve them. The following are some of the measures which College has initiated and brought into practice.
Gender
To remove gender discrimination the following measure was taken. The students and staff were made aware of the importance of "Beti Bachao & Beti Padhao" campaigns, towards the woman Empowerment through the regular lectures conducted in the campus. In addition to this effect no sooner the students

(New Batches) arrive in the college campus, they are advised and addressed by this college that the "merging" is not allowed, the defaulter will be Health dealt severely by in hasting the legal actions against them.

Has started when this college BSc Aviation there was very poor response of female students (Girls). The male to female ratio was not so satisfactory. To improve this we have taken initiatives such as giving wide publicity of this courses (Aviation), as this field was lesser known to rural students we try to reach to far-flung areas, through Print media, Digital media, college prospectus, Conducting seminars In the various college campuses, by visiting numbers colleges.

To attract the more number of girls students. To get admission for this course. This college offers 10% fees relaxation to female student. Not only this the college has set up the co-located & well-furnished Girls and Boys hostels with affordable Charges.

Because of the above striving efforts taken by the college, we are in a better shape today with respects to the

Teacher student's ratio. Gender ratio students is almost 60:40. We are to improve it bring it to 50:50.

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response:

1.3.2.1 **Number of students undertaking project work/field work / internships**

Response: 112

File Description	Document
Institutional data in the prescribed format	[View Document](#)

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response:

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response:

2.1.1.1 **Number of seats filled year wise during last five years (Only first year admissions to be considered)**

2022-23	2021-22	2020-21	2019-20	2018-19
106	42	29	47	28

2.1.1.2 **Number of sanctioned seats year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
240	180	150	90	30

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Final admission list as published by the HEI and endorsed by the competent authority	[View Document](#)
Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.	[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response:

2.1.2.1 **Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)**

2022-23	2021-22	2020-21	2019-20	2018-19
80	41	34	26	10

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
120	90	75	45	15

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	[View Document](#)
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	[View Document](#)

2.2 Student Teacher Ratio

2.2.1

Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response:

2.3 Teaching- Learning Process

2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

The effectiveness of the teaching and learning process depends on the available infrastructure, motivated and trained teachers and quest of knowledge among the students and teachers alike. The institute caters to these needs by providing library facilities which can also be accessed through the E Library Facility.

The library is replete with latest editions of National and International books and subscriptions to journals and e-resources beneficial for both students and teachers.

Almost all the classrooms and majority of the laboratories are ICT enabled. The institute encourages all teachers to undergo training programs, to enhance their knowledge and use of ICT to deliver effective lectures using PPTs, videos and animations, prepared by teachers.

At the beginning of the year 2020 due to COVID-19, the teaching methodology changed completely, and teachers had to shift entirely to the use of online platforms for teaching and evaluation. The institute provided the ZOOM subscription for online lectures and Google form are used to take Class assessment exam.

Several online resources are being utilized for data management, conduction of online exams and online classes respectively which can also be streamed online. Google meet and Zoom platforms have also been used for online classes.

A database of E resources for all the courses is now available with the institute. Practical components have been covered using virtual laboratories, simulations therein, online resources for plotting and analyzing graphs, for better understanding along with demonstrations for enhancing the teaching learning process.

Academic flexibility has provided a good platform for innovative methods of evaluation based on presentations, group discussions, video assignments.

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response:

2.4.1.1 **Number of sanctioned posts year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
17	17	23	11	08

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	[View Document](#)

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response:

2.4.2.1 **Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	0	0

File Description	Document
Institution data in the prescribed format	[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

Our college is affiliated to Savitribai Phule Pune University and as per the circular 125 we conduct university Examination.

Examination conducting with following ways:

- Planning and deciding the date according to guidance of B.Sc. Examination sight, principal and exam controller
- Furnishing the dates time of exam in proper circular and notice board.
- All are well recorded and available under surveillance of exam cell.
- Asking the question setter to set the adequate questions with covered syllabus. Records are available with Exam department
- Question paper printing under the strict guidance of exam controller.

- Packing the question papers and sealing
- Arrangements of answer sheet.
- Seating arrangement of classroom and displaying in notice board.
- Detailing of invigilators and keeping in mind not to be same subject teacher.
- Monitoring the time table of exam and proper attendance of examinees.
- Handing over the exam answer sheet in proper way to exam department by invigilators.

Our examination being conducted under surveillance of CCTV and well guided invigilator. Before perusing the course we are well intimating the student regarding all procedure of exam and strictness.

Apart of this we are asking the students to submit the home assignment in time to concern teacher and accordingly marks has been allocated. We are maintaining all concerned record in hard copy as well as soft copy. Asking and ensuring concern faculty to update the question bank. These banks are decorum by subjective questions.

Exam curriculum

We are conducting of two monthly or assessment exam in each semester and one final semester exam. The time table of each examination circulated through college notice board and what's app group minimum 20 days of exam periods.

We have well defined procedures for Grievances and Unfair Means.

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

The Syllabus of B.Sc. (Aviation) degree is designed to enable the student to acquire the necessary qualification to enter into the Job market in any of the related fields of Aviation such as Traffic Control, Crew and Man power Scheduling, In-flight

service department, Security, Civil Works department and Line and Major maintenance department of Engineering etc. The existing highly qualified work force of AMEs (Aircraft Maintenance Engineers) shouldering huge responsibility in the certification of an Aircraft carrying large number of passengers say 400 to 500 passenger capacity, are denied the higher positions in the Industry merely for not possessing Graduate degree in Aeronautics.

After obtaining B.Sc. degree in Aviation student may start his career as Trainee Technician with some stipend and then as Jr. Technician. Further promotional avenues could be Sr. Technician, Charge hand, etc. depending on his achievements. The undergraduate study will significantly enhance the competency of the student to appear in the AME (Aircraft

Maintenance Engineer) license examination conducted by DGCA (Director General of Civil Aviation). After acquiring License qualification he can start his career as Aircraft Maintenance Engineer category. However, it is also possible that the graduates (B. Sc. Aviation) enter the field of Non-Technical streams in the Aviation Industry like Commercial Department, In-flight service Department, Ground Support Department, Security Department etc. It is, therefore, in fitness of things that such a degree course would help the student to make his career in Aviation.

The systematic and planned curricula from first year to the third year are aimed at focusing attention to the skills required for practicing the subject of Aircraft Maintenance. This is expected to make the student become more confident in working and shall motivate and encourage the student for pursuing higher studies in Aviation Maintenance and for becoming

self-employed. The B.Sc. Aviation course shall have the following objectives.

- To provide in-depth knowledge of technological aspects of aviation maintenance
- To familiarize with current and recent technological developments
- To enrich knowledge through programmes such as industrial visits, hobby projects, market survey, projects etc.
- To train students in skills related to aviation industry and market.
- To create foundation for perfecting practical skills in skill aircraft maintenance
- To develop analytical abilities towards real aviation world problems
- To help students build-up a progressive and successful career in Aircraft maintenance.

B.Sc. Aviation Program Structure:

· The duration of program is a Three Years (Six semesters) Full Time Degree Program.

· The program shall be based on **credit system** comprising of **132** credits.

· Every semesters have 22 credits.

· Theory subjects alloted 4 credits and practical subjects alloted 3 credits each.

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

As part of the introduction, the faculty were trained to prepare curriculum in line. In the training, the faculty were oriented to focus on the students' attainment in higher order learning to develop various skills. Programme Outcomes (PO) were formulated reflecting the Vision, Mission and Strategies of the College and the UGC guidelines on Graduate Attributes. While formulating POs, the College considered academic excellence, research potency, scope of extension activities, human values, livelihood generation, and recent trends in the job markets. The suggestions of the alumni and other stakeholders were also taken into account. The entire curricula were restructured and the assessment pattern were modified in consultation with experts. The students were enlightened with the PO pattern through the Handouts and orientation by the concerned course teachers.

The Programme Specific Outcomes (PSO) are designed by the Department with our respective vision, mission and scope of the programme. The Course Outcomes (CO) are formulated by the Department in consideration with the course teachers and with expected cognitive, affective and psychomotor learning levels.

the Course Outcomes are assessed at the completion of each course and the Programme Outcomes are measured at the time of completion of the programme.

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response:

2.6.3.1 **Number of final year students who passed the university examination year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
29	47	28	0	0

2.6.3.2 **Number of final year students who appeared for the university examination year-wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
29	47	28	0	0

File Description	Document
Institutional data in the prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Upload database of all students on roll as per data template	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response:

3.1.1.1 **Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	0	0

File Description	Document
Institutional data in the prescribed format	[View Document](#)

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS),including awareness   about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

The Indira Institute has made number of collaborations with industries and institutes for acadamic development of students and faculty. The MoUs are formed to upate theoretical knowlwdge as well as practical knowledge of the students to make them aviation industry ready. Due to these MoUs students have updated their knowledge and have earned good placements.

Different MoUs have different durations and are always updated looking at the needs of course.

Presently, there are 5 MoUs.

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response:

3.2.2.1 **Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
2	3	0	0	0

File Description	Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response:

3.3.1.1 **Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
2	0	0	0	0

File Description	Document
Institutional data in the prescribed format	View Document

3.3.2

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response:

3.3.2.1 **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
2	0	0	0	0

File Description	Document
Institutional data in the prescribed format	[View Document](#)

3.4 Extension Activities

3.4.1

Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

The college organizes a number of extension activities to promote institute-neighborhood community to sensitize the students towards community needs. The students of our college actively participate in social service activities leading to their overall development. The college undertakes various extension activities in the neighbourhood community. Our volunteers addresses social issues which include cleanliness , tree plantation ,water conservation awareness, Beti Bacho Beti Padhao, Environmental awareness, Women empowerment, National Integrity, Farmers meet etc. Save fuel save country programme, Swachhta Abhiyan ,National equality awareness. We are conscious about our responsibilities for shaping students into responsible citizens of the country by making students aware of social issues through various programmes like Environmental Awareness, Personal Health and Hygiene, Diet awareness, Road Safety, Tree Plantation, Plastic eradication, No vehicle day, All these mentioned activities have positive impact on the students and it developed student community relationship, leadership skill and self confidence of students. It also helped in cultivating hidden personality of students and created awareness among students.

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

The institution is affiliated to Savitribai Phule Pune University since 2018. Then we are contineously working for bright future of our students. We are unique college of our kind in Savitribai Phule Pune University, Pune. Being unique institution, we have to take special efforts for our students as comapred to other institutions. Accordingly, we organize various activities for our staff and students. After completion of activities, our guests do appreciate our efforts and dedication towards students. Accordingly, they give appreciation letters also. These appreciation letters motivate us for betterment of

our performance and it is reflected in our increasing strength of First Year admissions.

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response:

3.4.3.1 **Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
5	6	0	0	0

File Description	Document
Institutional data in the prescribed format	[View Document](#)

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response:

File Description	Document
Institutional data in the prescribed format	[View Document](#)

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- **teaching – learning, viz., classrooms, laboratories, computing equipment etc**
- **ICT – enabled facilities such as smart class, LMS etc.**

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

Indira Institute of Aircraft Engineering with its location advantages of accessibility has adequate physical infrastructural facilities, which includes a number of sufficient classrooms, laboratories, library, faculty rooms, parking area to support the academic activity in the campus. The entire campus has an area of 0.5 Acres with 1625 Sq. Mt. Built up Area. IIAE has 6 classrooms capacity of each classroom is for 60 students all classrooms are equipped with Projector, Computer, White Board, Benches, LAN Connectivity, Air conditioner , etc. IIAE Also focus on hands on various aviation related equipment's and mockups for which IIAE has various labs for practicals:

1. Electrical Lab

2. Instrument Lab

3. Radio and Navigation Lab

4. Airframe Lab

5. Jet Engine Lab

6. Battery Shop

7. Welding Shop

8. Composite Lab

9. General Workshop

10. Aircraft Hangar

11. GPU Room

In addition IIAE has its own book library having multiple reference books related to aviation, journals and E?journals, library consist of 1200+ books IIAE Also offer E Library and can be accessed Internet

enable devices like (Mobile, Laptop, PC, etc.)

The campus is Wi?Fi Enabled to access the Internet Facilities . IIAE college infrastructure also includes IQAC Office, Controller of Examinations office, conference hall, Cultural Hall, Administrations and Accounts office, Principal Office, separate room for boys and girls, Secretary / Directors office, Staff room, washrooms (Staff , Gents and Ladies).

IIAE supports and motivates the academically and financially weaker students through Empire Education Society's Private Scholarship Scheme.

The cultural activities include Dance, Music, Singing, events. Apart from the mentioned cultural activities, various clubs organize cultural Events and they sensitize the student community on various social issues.

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response:

4.1.2.1 **Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
11.92	2.72	12.58	5.00	14.42

File Description	Document
Institutional data in the prescribed format	[View Document](#)

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

we have our own book library having multiple reference books related to aviation, journals and E?journals, library consist of 1200+ books. The books cover reference books, magazines, news papers as

per the need of syllabus and course requirements. The students who wish to read somethng new, for them college also offer E Library facility. The e-library can be accessed using students Internet enable devices like Mobile, Laptop, PC, etc.

The books are given to students for the duration of one week initially and further can be taken on re-issueing. Usually, no fine is charged as the student book ratio is adequate.

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

Components report of college

Introduction: Information Technology has become an integral part of every educational institution, including colleges. In this report, we will be discussing various IT components used in colleges, the usage by both college Staff and Students, and their description.

Number of Components:

The number of IT Components required for a college depends on various factors such as the size of the Institution, Number of Students, faculty members, and administrative staff. However, the essential components required for any college are:

Name of Components	Official Use	Student Use	
Computers	20	30	
Laptops	10	0	

Configuration Description:

RAM 4GB to 8GB HDD 256GB to 1TB (As per Basic Requirement) Screen/ Monitor 16" to 32 "

Processor

Configuration Description	Minimum	Maximum	
Processor	Dual Core	I5 10th Gen	
RAM	4GB	8GB	
HDD	256GB	1TB	
Screen / Monitor	16 inch	32 inch	

Printing & Xerox

Name of Printer	Manufacturing Company	Type
Ink Jet Canon G 3010	Canon	Multi?Functional Printer
Ink Jet Canon G 3060	Canon	Multi?Functional Printer
Laser Printer	Canon	Multi?Functional Printer
Laser Printer	HP	Printer
Xerox Machine	Sharp Mx	Multi?Functional Xerox m

Broadband / Internet Connectivity

Broadband Name: Silicon Care (Private Network Provider) Broadband Speed: 50MBPS

Connection: 1

Routers: 3

LAN Connection: 22

Projector for Classroom: 06

CCTV Surveillance

CCTV Camera : 32

CCTV Backup: 10 days

CCTV HDD: 2TB CCTV Monitoring: 2

CCTV Camera Brand: Hikvision

Conclusion: IT components have become an essential part of every college, and their usage has significantly increased with the shift towards online learning and administrative tasks. The components mentioned above are the basic requirements for any college, and additional components such as audio? visual equipment and specialized software may be required based on the college's specific needs.

4.3.2

Student – Computer ratio (Data for the latest completed academic year)

Response:

4.3.2.1 **Number of computers available for students usage during the latest completed academic year:**

Response: 30

4.4 Maintenance of Campus Infrastructure

4.4.1

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response:

4.4.1.1 **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
2.43	3.52	35.86	3.09	3.66

File Description	Document
Institutional data in the prescribed format	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response:

5.1.1.1 **Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
41	35	16	9	4

File Description	Document
Institutional data in the prescribed format	[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

  1. *Soft skills*
  2. *Language and communication skills*
  3. *Life skills (Yoga, physical fitness, health and hygiene)*
  4. *ICT/computing skills*

Response:

File Description	Document
Institutional data in the prescribed format	[View Document](#)

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response:

5.1.3.1 **Number of students benefitted by guidance for competitive examinations and career**

counselling offered by the institution year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
62	45	26	0	0

File Description	Document
Institutional data in the prescribed format	[View Document](#)

5.1.4

The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response:

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response:

5.2.1.1 **Number of outgoing students placed and / or progressed to higher education year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
0	39	15	0	0

5.2.1.2 **Number of outgoing students year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
29	47	28	0	0

File Description	Document
Institutional data in the prescribed format	View Document

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response:

5.2.2.1 **Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)**

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	0	0

File Description	Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

5.3.1

Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response:

5.3.1.1 *Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years*

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	0	0

File Description	Document
Institutional data in the prescribed format	View Document

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response:

5.3.2.1 **Number of sports and cultural programs in which students of the Institution participated year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
181	0	0	22	8

File Description	Document
Institutional data in the prescribed format	[View Document](#)

5.4 Alumni Engagement

5.4.1

There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

Our college has 2 batches passed out. All the students are placed in well positions as per the course structure. All our students are from all over the India and are also working all over the India. So, We have established alumni association of these students. Its registration is under process.

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

vision and mission

"We at the Indira Institute of Aircraft Engineering, Pune develop techniques and methods among the students by imparting the quality eucation for providing skilled manpower to the Aviation Industry Worldwide".

The Governance of the Indira Institute of Aircraft Engineering is a reflection of successful leadership in tune with the vision and mission of the institution as it includes all the stakeholders. The institution strongly believes in transparency, quality, participative leadership and delegation of power at various levels. Indira Institute of Aircraft Engineering believes the culture of participative management in all academic and non-academic activities. To ensure the participative management and decentralization of governance institute follows a committee system for the implementation of all its decisions. Here under institution Vision & Mission, Organogram and various committees at the institute level & their functions and are attached.

The college is committed to helping students evolve in to self-confident and responsible citizens by inculcating in them the values of integrity, righteousness and good civic sense.

The college has a clear vision and mission laid and practiced in order to sustain and enhance the quality of higher education leading towards nation building enshrined as follows. Academic ambience and infrastructural facilities are augmented from time to time, to enhance teaching- learning culture in the college. The college is dedicated to prepare the students for their future not only quest for excellence in academics but also to mould them as truly good individuals. The college addresses the needs of society and students by imparting quality education through teaching- learning and extension activities. There is in all respects a unique bond between the faculty and the students where the interchange of thoughts, views and opinions regularly takes place within and without the classroom. The students are initiated in to developing secular and progressive values to help them broaden their vision of life. Value added career oriented courses have been introduced to impart the practical skills. Co-curricular and extra-curricular activities are planned to improve overall personality of the students and their participation is encouraged. The college creates awareness on human rights, cultural heritage, and scientific temper through Workshops, Seminars and Guest Lectures. Project Work, Study Tours, and Visit to Laboratories and industries to develop Knowledge Capital among the student. Establishment of IQAC ensures quality education in the college. Mentoring system discovers the weakness and the strength of the students. Learning Recourses like smart boards, computers, use of internet develop technical skills among the students.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

Strategic planning is a continuous process with a specific focus on accomplishing institutional goals in this competitive world. Strategic Planning and deployment document (SPDD) is based on analysis of current obstacles and future opportunities and envisages the direction towards which the organization should move to achieve its set goals and objectives.

While formulating the strategic plan and deployment document, care has been taken to involve all stakeholders to help contribute their part which is vital for the success of every organization. Effort has been taken to identify clearly the implementation processes and monitoring by identifying measurable targets in line with the desired outcomes.

Leadership and participative management

· Decentralize the academic, administration and student related authorities & responsibilities

· Prescribe duties, responsibilities and accountability

· Portfolio assignments

· Establishment of functional committees

Student's development and participation

· Budget allocation for student development programmes and activities

· Students Trainings & Placement Activities

· Student's representation in various committee and cell

· Participation in competitions

· Organizing competitions

· Credit transfer & compensation

· Rewards & recognitions of achievers

· Participation in extracurricular activities

· Participating in social and welfare activities

· Providing career guidance

Staff development & welfare

· Recruitment Policy formation & implementation

· Staff performance evaluation system

· Staff Training for quality improvement

· Best possible work facilities & infrastructure facilities ·

Code of conduct, service rules & leave rules

· Staff welfare policy implementation, Career advancement schemes

· Rewards, recognitions and incentives

· Deputation for seminars, conferences and workshops etc.

· Sponsorship/ Motivation for qualification improvement

· Support for research, consultancy, and innovations.

Physical infrastructure ·

Infrastructure building development & modification

· Smart Class rooms, Tutorials, Seminar halls

· Modernization of Laboratory & equipment

· More ICT enabled classrooms

· Library infrastructure up gradation

· System up gradation

· Functional facilities for e-learning

· Safety & Security management

· Developing sports (indoor/outdoor) facilities

· Plantations

· Renewable Energy usage

 · Hygiene, zero plastic & green campus

6.2.2

Institution implements e-governance in its operations

1. **Administration**
2. **Finance and Accounts**
3. **Student Admission and Support**
4. **Examination**

Response:

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

The institution effectively implements the welfare schemes for the teaching and Nonteaching faculties. The College makes arrangements for availing all the government schemes such as Maternity Leave, Medical Facility, Leave on Project or Conference, Health Fund Scheme, Permission to attend FDP such as Orientation programmes and Refresher courses, short term courses, etc. for the career development and progression of the teaching as well as non-teaching staff.

Besides the above, the following benefits are given to the teaching and non-teaching staff.

Financial Support

1. To the staff to attend workshops and conferences both at the national and international level
2. For children's education of the non-teaching staff
3. For celebrating festivals, festival advance to the non-teaching and domestic staff permission to attend Faculty Development Programme, Maternity and paternity leave with salary.

Material Benefits

1. Office rooms for Staff Associations (Teaching and Non-teaching) on the campus Staff quarters for the domestic staff inside the college premises
2. Two sets of uniforms to the domestic staff every year
3. Wi-Fi facility to the staff inside the college campus
4. To cater to the financial needs, staff mutual fund and thrift society are managed by the staff with the approval of the management.

Cater to Emotional Needs

1. Staff Grievance Redressal Cell to address the issues and grievances of the staff
2. Availability of full-time professional counsellors for both staff and students
3. Indoor games facility for the staff to relax and to refresh physically and mentally
4. Fraternity grand lunch is provided for all the staff on the eve of the feast of independence day, republic day, society foundation day, and Maharashtra day.
5. Financial assistance to the conduct of staff exposure programme and tour (Both teaching & Non-teaching)

Recognition and Rewards

1. The teaching and non-teaching staff are honoured with Awards for their remarkable service.
2. Awards of excellence for teaching, research and extension is given to the deserving members of staff every year.
3. The spouse or family member (Non-Teaching Staff) is given a job on compassionate grounds.

Avenues for Career Development and Progression

1. Annual orientation, workshops for teaching staff at the beginning of
2. every academic year
3. Initiation and training programmes for the newly recruited staff
4. Incentive in the form of salary hike for the staff of the self financed stream for completing their PhD degree
5. Various other training programmes such as item writing, research project etc for teaching fraternity, training on Public Finance Management System, Ms-Office non-teaching staff, and waste management, operating fire extinguisher training for domestic staff
6. Seed Money provided for facuilties to encourage them to undertake research projects

6.3.2

Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response:

6.3.2.1 **Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
4	12	9	1	2

File Description	Document
Institutional data in the prescribed format	[View Document](#)

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response:

6.3.3.1 **Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP),** *Management Development Programmes (MDPs)* **professional development /administrative training programs during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
17	13	8	0	16

6.3.3.2 **Number of non-teaching staff year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
4	0	0	0	2

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Copy of the certificates of the program attended by teachers.	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

The College conducts internal and external financial audit under various budget heads (Ledger heads) the major source of college funding is from the students' fees (Registration, Tuition, Technical visit fees) and from the college trusties. The timely checks are carried out by the Accounts Department of the College and Internal Auditor i.e. by Accountable Manager (Internally) and Chartered Accountant (Externally) of the Organization i.e. Indira Institute of Aircraft Engineering, Pune under Empire Education Society (EES). The college utilizes the funds aligned with the rules laid down by the Government and the Trust. Apart from this, regular meetings of trusty members are arranged for allocation of funds for the development of college and opening of new courses with the help of essential infrastructure, equipment and man power. Bank Statements, Recipts, Cheque Issue file, Vouchers are cheeked (regularly) monthly. Internal Audit/Verification is carried out in following ways.

1. Verification of all RTGS/NEFT/UPI/DD/Cheque Payments. (Cross with the Parents /Student share photo copy on email /Whatsupapp)
2. List of major cash payments & its verification(Every Monthly)
3. Verification of quotations and necessary payments way online mode or from bank RTGS/NEFT/FT.
4. Verification of interest earned on investments.
5. Verification of admission cancellation cases and its refund are also checked and verified.
6. Verification of examination expenses is also carried out
7. Verification of miscellaneous and other income and receipts is also seen
8. Checking of outstanding fees is observed. The Finance Department of EES also checks whether genuine effort by the college is made to collect outstanding fees. Fee Waiver applications are also closely monitored and approved only by competent authority of EES.
9. Checking off Average cash bank balances on monthly basis is carried out
10. Monthly Cross check faculty attendance record, attendance timing of Faculty as per biometric attendance and actual salary bill claims are also verified with necessary deductions.
11. Verification of Bank reconciliation (as per bank statement) of all bank accounts.
12. Payments (Online) and Verification of tax deduction at source (TDS) applicability, before payments especially for vendors, Service provider (Training Partner) and professionals.

Internally the Income and Expenses for the academic year are entered in tally and submitted to Chartered

Accountant. The External Audit usually performed with the help of Chartered Accountant and they submit the Audit Report and Audited Financial Statements to Higher Authorities of the institute.

File Description	Document
Upload Additional information	[View Document](#)

6.5 Internal Quality Assurance System

6.5.1

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

Academic Audit:

The review starts with course allotment by the head of the department and the teacher prepares a teaching plan for the courses allotted to them based on the number of days available for teaching. All these details are entered in 'teacher's diary' by the teacher and verified by the Head of the department. At the end of the semester the teacher submits a one-page academic audit report to the Head of the department. This was then reviewed by the faculty vice principal and head of IQAC. The academic audit is part of the annual performance appraisal of the teacher which is again verified by the IQAC.

The activities done under IQAC like Monitoring teaching-learning activities through OBC (Outcome Based Curriculum) or syllabus Curriculum for all academic programs. The Program Outcomes (POs), Program Specific Outcomes (PSO) and Course Outcomes (COs) are in tune with the vision and mission of the college. The Course Outcome describes the achievement of students after completion of the course. Outcome Based Teaching-Learning methods, Student centric teaching pedagogies/ methods and flexible methods of evaluating students like problem solving, open book test or any other method preferred by the teacher for the students,

Course Attainment of CO, PO and PSO s is evaluated by using direct and indirect assessment tools. Direct attainment is measured by various assessment methods adopted during internal and end semester exams. For indirect attainment, student exit survey, employer survey and alumni survey are taken. After the course completion, CO attainment is measured and after completion of a program, PO attainment is also obtained by using OBE software. Other Review Processes Teachers audit process (semester wise) helps to know the performance of the teacher, as evident from the teaching plan, distribution of topics/chapters for a particular course. Inputs from the online feedback are analyzed and used for improvement in delivery of courses, teaching methodology, revisions in the syllabi etc., Inputs from Student Satisfaction Survey (SSS) helps in understanding academic improvements to be carried out and appropriate actions are taken in this regard.

6.5.2

Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
2. **Academic and Administrative Audit (AAA) and follow-up action taken**
3. **Collaborative quality initiatives with other institution(s)**
4. **Participation in NIRF and other recognized rankings**
5. **Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

Response:

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

The cross cutting issues relevant to Gender, Environment & Sustainability, Human Value, and Professional Ethics are induced into the curriculum by Savitribai Phule Pune University, and these guidelines are issued by University Grant Commission, New Delhi.

The graduate programmes within the collage represent a rich diversity of students whose needs are shaped and addressed by courses that are imbibed in the curriculum like Environmental studies, MS office, Networking & Ethical Hacking personal development, communication skills, Computer Fundamental and Internet Applications, Human Rights and Values Education. Our college Indira Institute of Aircraft Engineering tries to adhere the ideas and principles. By being true to it, the college has taken initiatives to bring the above issues into the practice and to improve them. The following are some of the measures which College has initiated and brought into practice.

Gender

To remove gender discrimination the following measure was taken. The students and staff were made aware of the importance of "Beti Bachao Beti Padhao" campaigns, towards the woman Empowerment through the regular lectures conducted in the campus.

When we started BSc Aviation there was very poor response of female students (Girls). The male to female ratio was not so satisfactory. To improve this we have taken initiatives such as giving wide publicity of this BSc Aviation courses, as this field was lesser known to rural students we tried to reach to far-flung areas, through Print media, Digital media, college prospectus, Conducting seminars by visiting the various college campuses.

To attract the more number of girls students to college, this college offers 10% fees relaxation to female student. Not only this, the college has set up the co-located & well-furnished Girls and Boys hostels with

affordable Charges.

Because of the above striving efforts taken by the college, we are in a better shape today with respects to the student's, Gender ratio is almost 60:40. We are to improve it bring it to 50:50.

Facilities for Women on Campus

1. Safety and Security
2. Internal Complaints Committee for Prevention of Sexual Harassment
3. Grievance and Suggestions Box for Girl Students Welfare Committee
4. Anti-Ragging Committee.
5. Students Grievance and Appeal Committee
6. CCTV cameras at strategic points
7. Lady RECTOR at girl's hostel.
8. Complaint muster at the entrance gate of girls hostel
9. Constant monitoring of attendance and intimating parents in cases of long absences
10. Administrators are available and approachable in the campus residence in case of emergencies
11. Ladies common room in college

7.1.2

The Institution has facilities and initiatives for

1. **Alternate sources of energy and energy conservation measures**
2. **Management of the various types of degradable and nondegradable waste**
3. **Water conservation**
4. **Green campus initiatives**
5. **Disabled-friendly, barrier free environment**

Response:

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. **Green audit / Environment audit**
2. **Energy audit**
3. **Clean and green campus initiatives**
4. **Beyond the campus environmental promotion activities**

Response:

File Description	Document
Certificates of the awards received from recognized agency (if any).	View Document

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7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

To build a nation of youth who are noble in their attitude and morally responsible, the college organizes and conducted several activities to build and promote an environment for ethical, cultural, and spiritual values among the students and staff. To develop the emotional and religious feelings among the students and the faculty, commemorative days are celebrated on the campus with the initiative and support of the management for not only recreation and amusement but also to generate the feeling of oneness and social harmony.

The institution believes in equality of all cultures and traditions as is evident from the fact that students belonging to different caste, religion and regions are studying without any discrimination. Though the institution has diverse socio-cultural background and different linguistic, we do not have any intolerance towards cultural, regional, linguistic, communal socio economic and other diversities.

The college and its teacher and staff jointly celebrate the cultural and regional festivals, like New-year's day, teacher's day, orientation and farewell program, Induction program, plantation, Women's day, Yoga day, and also festivals like Ayudh Pooja celebration, Ganesha Festival. Motivational lectures of eminent persons of the field are arranged for all-round development of the students for their personality development and to make them responsible citizens following the national values of social and communal harmony and national integration. Besides academic and cultural activities, we have built up many strong infrastructures for a variety of sports activities for the physical development of the students. In this way the institute's efforts/initiatives in providing an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic, and other diversities.

Physical education is an integral part of the total education system. It helps in achieving the ultimate goal of education i.e. all-round development. Sports play an important role in the life of students. A student should study hard to succeed in competitive exams. But, he should also play sports to gain health and vitality of life. Along with book studies, a student should also spend his time on sports, regional and sports. Either studying or working alone makes us tired. So we feel that we are not able to do any work anymore but sports relieves our mental fatigue. Education is incomplete without play. The Department of Physical Education and Sports ranks Indira Institute of Aircraft Engineering Pune as one of the most effective departments.

Strives to bring reputation to the college by excelling at all levels. With the help of college professors, we

are constantly improving regional and sports fields. Keeping in mind the concept of "sports for all" throughout the semester, we organized inter-departmental competitions for students as well as some sports activities for staff (academic and non-academic). It is the largest co-curricular activity program that offers a wide range of opportunities to all students and staff. This activity will enable students and staff to have fun, learn new sports, increase social interaction and test one's physical abilities. These competitions provide a break from daily activities and recreate or re-energies them. The following programs are organized for inter-class sports competitions for students.

7.2 Best Practices

7.2.1

Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Title: Adopting Digital classroom technology for teaching and learning

Objectives:

1. Transferring traditional to digital teaching learning

2. ICT use in teaching and learning for effective results

3. Developing learning contents for students

4. Different activities for student's participation

Context:

During the Covid -19 students were suffering from the loneliness and proper guidance. But the situation created many opportunities for the online teaching and learning. So we have created online contents for the students and delivered them regularly with the help of digital platform like Google class room and Zoom meeting.

The Practice:

The practice is to make the use of unique resource available with the institute Digital Content Development Cell. Institute has a fully equipped digital studio where the lectures can be recorded. Under this practice every subject teacher prepared the following digital content

,1. The recorded Video Lectures

2. Practical videos

3. PPTs

4. MCQ

5. Question Bank

6. Other Study material like notes, pdf, docx files etc

Evidence of Success

1. Participation of the students increased
2. Admission for the first year admission got increased
3. Passing percentages of all years students increased.

BEST PRACTICE: II

Title: Waiving of admission fees by the college to the deserving girls students

Objectives:

To motivate and increase the percentage the involvents of girls in the field of aircraft engineering

To encourage and motivate the girls students to join professional courses.

To extend financial aid to the girls students, especially from the rural area, to prevent them from discontinuation of their studies.

To support financially all the deserving and poor girls students without any discrimination on the basis of caste, creed.

To promote the 'equality' among the students.

To inculcate the values of 'generosity' and a 'sense of social responsibility' among the students.

Context:

The college was established in Hadapsar (manjari road) area which has recently been included in Pune Municipal Corporation jurisdiction. Thus this area and surrounding areas which are located in the proximity of east side of pune city are mainly in the rural belt and deprived of basic necessities, facilities, opportunities and amenities.

The Management deliberately established this college in this region with a social objective of bringing about a socio-economic transformation of the region predominantly through education. The college deeply thought over the eligibility criteria for the financial aid to be given to the students. After comprehensive deliberations with students and teachers, it was decided to extend the benefit to the deserving girls students who do not have the advantage of government scholarships and concessions.

The Practice:

The college provides equal opportunities to the girls students. So, girls students from all over the India can get higher education in aircraft engineering.

Higher education in aircraft engineering need spending higher amounts of money which the common people cannot afford for girls. So, it is evident that without financial support from the college the girls student cannot hope to successfully complete their higher studies in aircraft engineering.

Evidence of Success

1) With the help of this scheme admission of girls students are increasing every year.

7.3 Institutional Distinctiveness

7.3.1

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Over the years of its existence, IIAE has practiced and perfected its approach and processes in the chosen areas of its work. It has rich and multi-dimensional experience of working at the grassroots as well as contributing to policy-level thought processed and decision making.

IIAE works in progressional steps to achieve optimum and lasting impact identifying issues, researching the needs, developing Solutions based on practical experiences, implementing them sizable pilot project to validate scalability, after analyzing the pilot results, and taking the module countrywide roll out and implementation

It has trained engineers for domestic & international airlines. However IIAE is arbitrated to University.

As of now, flight supporting service personnel have been exposed to much more rigorous hands-on knowledge and experience than persons pursuing a normal professional educational programme introduction of this degree course will provide the appropriate scientific backward in terms of quality and content so essential to an aviators for his/her all round development. Furthermore, a basic degree will open the portals for post-graduation leading to greater enhancement of scientific skills, not to speak of the potential that this will create for research and generation of knowledge. This in turn would lead to greater professional excellence.

It is widely acknowledged that a majority of these professionals specialize in specific areas of operation and attains proficiency in an environment that demands for higher standards and more rigorous training than in most other professions. A formal degree is not only beneficial in equipping a person in terms of aircraft engineering stills but also broadens ones perspective in the field of specialization and management.

File Description	Document
Appropriate web in the Institutional website	[View Document](#)

5. CONCLUSION

Additional Information :

The Empire Education Society was established in 2010 with the college of Indira Institute of Aircraft Engineering. It is an institute that excels in training of all aspects of the aviation maintenance industry. We desire to share our passion for the aviation industry. IIAE is Director General of Civil Aviation (DGCA) CAR 147 (B) approved Training Organization & also is affiliated to Savitribai Phule Pune University for B.Sc. Aviation. IIAE is organization where our course training is delivered by our dedicated & highly experienced team of instructors & all our major tasks are imparted practically on live aircraft for that we made tie-ups with leading MRO's like GMR Hyderabad, Go First Mumbai, Indamer & Air India. IIAE is training tomorrows highly qualified & professional aviation personnel.

The Geographical location of the IIAE, Pune, makes this Institute the most saught after as the weather conditions here are most comfortable not only this but also the standard of living is far better as compared to the other places and yet cheaper. Pune is globally well connected by air and also by rail and roads to the other important and major places of India. This Institute is accessible and approachable through Internet.

The IIAE provides affordable Certificate and Degree Courses with the reasonable fee structure. As well the students here are made to feel at home by providing the standard hostel facilities not only this but also their safety is ensured 24 X 7.

The last but not the least, at this Institute, every student is provided one to one attention and his/her academic/career growth is ensured.

Concluding Remarks :

Being one of the self-financing colleges, it is a matter of great pride and privilege for us to get accredited by an esteemed institute namely NAAC which is proved to be a remarkable milestone in improving and sustaining quality in higher education in India.

I am thankful to the pro-active management, students and all my colleagues, for their continuous efforts in the development of the college. I appreciate the efforts made by NAAC Steering Committee, IQAC and members of all the sub-committees constituted for the purpose of preparing this Self-Study Report (SSR).

I feel immensely pleased to submit the Self Study Report of the college for the 1st cycle of assessment and accreditation. We anticipate, with great pleasure, the visit of peer team of National Assessment and Accreditation Council, Bengaluru.