



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	INSTITUTE OF AEROSPACE MEDICINE, INDIAN AIR FORCE
Name of the head of the Institution	Air Cmde (Dr) Anupam Agarwal VSM
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08025221781
Mobile no.	8551833775
Registered Email	deanci.avmed@iaf.nic.in
Alternate Email	dean.avmed@gmail.com
Address	Institute of Aerospace Medicine Indian Air Force Vimanapura Post
City/Town	Bengaluru
State/UT	Karnataka
Pincode	560017

2. Institutional Status																									
Affiliated / Constituent			Affiliated																						
Type of Institution			Co-education																						
Location			Urban																						
Financial Status			central																						
Name of the IQAC co-ordinator/Director			Gp Capt (Dr) MS Nataraja																						
Phone no/Alternate Phone no.			08025224020																						
Mobile no.			8968720975																						
Registered Email			deanci.avmed@iaf.nic.in																						
Alternate Email			dean.avmed@gmail.com																						
3. Website Address																									
Web-link of the AQAR: (Previous Academic Year)			https://indianairforce.nic.in/content/institute-aerospace-medicine-iam																						
4. Whether Academic Calendar prepared during the year			Yes																						
if yes,whether it is uploaded in the institutional website: Weblink :			https://indianairforce.nic.in/content/institute-aerospace-medicine-iam																						
5. Accrediation Details																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.2</td> <td>2011</td> <td>08-Jan-2011</td> <td>07-Jan-2016</td> </tr> <tr> <td>2</td> <td>A+</td> <td>3.53</td> <td>2017</td> <td>28-Mar-2017</td> <td>27-Mar-2022</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.2	2011	08-Jan-2011	07-Jan-2016	2	A+	3.53	2017	28-Mar-2017	27-Mar-2022
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6. Date of Establishment of IQAC			10-Jun-2011																						
7. Internal Quality Assurance System																									
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Statistics workshop	22-Feb-2020 02	50
View File		

8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
IAM	ETG	Central	2019 365	120000
IAM	Library Maintainence	Central	2019 365	425000
IAM	Stationery	Central	2019 365	299926
IAM	Sports	Central	2019 365	100000
IAM	ATG	Central	2019 365	600030
View File				

9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. To conduct online Primary Aerospace Medicine Course 2. To digitize the library using E Grantalaya 3. To set up a quarantine facility . 4. To undertake measures to prevent the spread of Covid 19 5. To conduct a workshop on Statistics

[View File](#)

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
To prepare a handbook on Research methodology	Published a book on Research methodology
To provide assistance to Human Space Program	Selection of spacecrew from the pilot population
To conduct a national conference on Aerospace medicine	A national level conference was conducted in November
To conduct a online primary course	A First Online Primary course was conducted for Medical officers across IAF in view of the Covid pandemic restrictions and lockdown.
To conduct a workshop on statistics	A workshop on statistics was conducted for the benefit of residents and faculty
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
DGMS (Air)	14-Nov-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

09-Mar-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

(a) The Institute has an effective Inservice Network for sharing and uploading Management related information, the Air Force Net. The Institute has E learning module with internet connection along with video conferencing and webcasting facility. All the departments upload presentations and study material. (b) The Institute subscribes to the

globally reputed Journals in the subject of Aerospace Medicine and Allied subjects and these are made available to faculty and residents for teaching, research, referencing and personal growth. (c) The library network HELINET connects with libraries of medical Institutions across the state of Karnataka, under RGUHS. Besides this the Serving Faculty of the Institute has unrestricted access to the undergraduate and postgraduate libraries of the Armed Forces Medical College, Pune and Army Hospital Research and Referral at New Delhi. (d) The Ireach programme is conducted by the Institute under the aegis of Directorate General Medical Services (Air) New Delhi, once every week. This provides a very useful platform for all the specialists and Medical Officers serving in field locations to get connected with the Institute and discuss issues related to aerospace medicine. They are apprised of the latest developments and techniques of aircrew assessment, evaluation and management in field environment. (e) AFNet Connection facilitates availability of information, guidelines, instructions and policies as reference for effective consultation and decision making. (f) All aerospace medicine specialists of the Institute are members of IndMed email group on web and a close knit group of every Aerospace Medicine Specialist also interacts actively on WhatsApp.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

MD Aerospace Medicine is the only course conducted at the Institute which gets culminated in the award of University degree. This is in addition to a large number of courses that are conducted at the Institute for the benefit of our Armed Forces personnel (medical officers, aircrew and paramedical staff) as well as those from Friendly Foreign Countries. The Institute also conducts a couple of courses for the doctors of civil aviation sector. The MD Aerospace Medicine course is open to Priority I to V candidates viz., AFMS Officers (Priority I), Sponsored candidates of Friendly Foreign Countries (Priority II), Para Military and other Govt of India sponsored candidates (Priority III), Ex-SSC AMC Officers (Priority IV) and Civilian doctors (Priority V). The MD degree is recognised by MCI and the syllabus is approved by Rajiv Gandhi University of

Health Sciences, Karnataka (RGUHS, Ktk). IAM IAF being the only Institute in the country which offers MD Aerospace Medicine degree, the curriculum for this 03 year course is planned and developed based on the need as well as the feedback obtained over the years from faculty, alumni and experts from the field. The courses at the Institute mainly address the health/ operational/ performance issues of aviators and offer preventive/ remedial measures for enhancing flight safety. The curriculum for the PG course consists of class room teaching, training in teaching skills, clinical training and departmental attachments. During attachment, the students take part in all routine activities of the departments viz., training of aircrew, aeromedical evaluation, departmental/ sponsored research, consultancy services, etc. Briefing on major activities of the day is held everyday in the morning at 0745 h. Journal review meetings/ Seminars/ Symposia are also held regularly and the students are assessed and evaluated using a checklist. The PG students regularly take part in the clinical meetings held at Command Hospital, Bengaluru. National Conferences/ CMEs/ Workshops/ Guest lectures by eminent speakers including alumni are also conducted at the Institute for the benefit of students and faculty. Feedback is taken from the students of all the courses and analysed. Necessary changes are incorporated in the training schedule/ programme for arriving at better teaching-learning outcomes.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NA	NIL	Nil	0	NA	NA

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NA	Nil
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nil	NIL	Nil

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	9	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Nil	Nil	Nil
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1.3.2 – Field Projects / Internships undertaken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
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MD	Aerospace Medicine	9
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	No

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?
(maximum 500 words)

Feedback Obtained
<p>Structured feedback from the students and teachers are taken for each course. The students provide their feedback on a 5 point scale based on a questionnaire during the course as well as at the end of it. There is a maximum of 07 students belonging to Armed Forces Medical Services (AFMS) in each batch of the postgraduate course viz., MD in Aerospace Medicine. On successful completion of the course, the serving post graduate students will start their career as aerospace medicine specialists in the Armed Forces and all the civilian students who complete the course successfully get commissioned in to AFMS. The commanding officers of these Units/ Squadrons also provide feedback on the performance of these specialist officers working under them. Similarly, during visit/ invited lectures/ National conferences/ CMEs/ Workshops, etc, alumni interact with faculty and students and invariably suggest measures for academic improvement. Such interactions form a basis for getting suggestions from the experts in the field. The feedback obtained from all the stakeholders are deliberated upon both in training conferences and in the IQAC meetings. Suggestions for improvement in the curriculum based on the prevailing requirements are discussed. New topics, if any, to be added/ replaced are forwarded to the University/ Air HQ for their consideration and implementation. Based on such feedbacks, the duration/ contents of short-terms courses have been modified regularly.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MD	Aeropsace Medicine	10	100	9
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses

2019	Nill	26	Nill	28	Nill
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2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
28	28	4	3	3	Nill
View File of ICT Tools and resources					
No file uploaded.					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes. Institute of Aerospace Medicine Bangalore, has been training post graduate students in Aerospace Medicine. The alumni of this institution have been role models for their colleagues. This has been possible due to concerted efforts of dedicated faculty members to mould the budding specialists into distinguished professional and ideal citizens. The mentorship of the PG residents therefore is an important facet of comprehensive education. The designated mentor serves as a guardian, friend, philosopher and guide for mentees. The mentor provides support to the mentee depending on his/her requirements. The mentors are expected to orient the mentees during their three years of stay in the institute. The mentor is able to assist the mentee to realise his/her potential. The assistance is extended by the mentor for academic needs, psychological support or advice with personal exigencies. The mentors are their guiding force. The mentor is able to motivate the mentee to involve in various professional /academic as well as extra curricular activities for the benefit of the mentee. Mentor also provides the necessary help and advice to the mentee to facilitate his /her academic interests thereby increasing their experience and skill by collaborative work. The faculty members posted to the Institute are on the panel of mentors. The allotment of mentees to mentors is coordinated by the O/o Dean. The fresh mentees are allotted to respective mentors at the beginning of the each academic session after the admissions are finalized. The mentorship records are maintained by each mentor.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
26	28	1:1

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
Nill	28	Nill	3	5

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Dr CH N Sowgandhi	Professor	CAS commendation
View File			

2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last	Date of declaration of
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			semester-end/ year-end examination	results of semester-end/ year- end examination
MD	AVME 2 MD Aerospace Medicine	39 MD Annual	27/03/2020	30/03/2020
MD	AVME2 MD Aerospace Medicine	40 MD Annual	21/01/2020	29/01/2020
MD	AVME2 MD Aerospace Medicine	41 MD Annual	26/06/2020	07/07/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

RGUHS, the affiliating university actively advocates reforms in evaluation procedures. Following reforms have been implemented by the Institute: (a) The MD students are regularly evaluated for all aspects of training by Weekly Examinations, Quarterly Exams, Half Yearly Exams as well as Annual Exams. All Exams are in University pattern with written Exams, Practical and Clinical Exams and Viva Voce to familiarize MD Students to the format of Exams. In addition Journal Club are conducted on Weekly basis and Symposiums are conducted once a month, These are marked by the Instructor and submitted to Training Wing. All aircrew cases reporting for evaluation to IAM are discussed in the morning briefings and MD Students are tasked to present detailed presentations on relevant clinical topics. Each MD student is attached to various Aeromedical Depts on rotation and assignment are given by the HoD and log book maintained. Feedback from the MD students are taken after each class regarding the content and quality of the instruction. The Instructors are also counselled based on the feedback to enable improvement in the training. The OIC Training conducts regular discussions with the MD Students. Training conference are conducted quarterly and the performance of each student is discussed in front of all faculty. Informal discussions are also conducted on topics of interest and young faculty prepared model answers which are discussed with HoDs before briefing the MD Students on how to write a particular answer. (b) University strictly has centralized paper setting process with model answer papers prepared by the paper setter and this is provided to all evaluators to bring in uniformity and objectivity in theory paper assessment. The college strictly follows the same system during formative evaluation.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

YES (a) The curriculum is prepared by departments under supervision of Chief Instructor and Dean. The training officer prepares block training programme for the whole year. (b) All academic departments formulate weekly training programme based on the block training programme and strictly adhere to the same. (c) The departments formulate departmental objectives and specific learning objectives for various modules. Individual instructors then prepare lesson plans on the objectives. (d) The training officer formulates the evaluation blue print based on the university requirements and all academic departments adhere to it. Typically, all departments have formative evaluations in the form of weekly tests, mid-term tests, terminal examinations, preliminary examinations for university terms and Course Completion Examination. Theory and practical examinations are carried out as per university examination pattern. The required internal assessment marks for summative evaluation are derived from these examinations. (e) Interactive participation in seminars, journal

clubs, symposium and case studies are conducted on a weekly basis. In addition, academic/clinical case presentation are done daily in morning briefings. (f) Objective structured practical examination forms a formative evaluation in many departments.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://indianairforce.nic.in/content/institute-aerospace-medicine-iam>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
AVME 2	MD	Aerospace Medicine	7	6	85.7
View File					

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://indianairforce.nic.in/content/institute-aerospace-medicine-iam>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	730	DGAFMS	0.52	0.19
Minor Projects	1095	DGAFMS	0.15	0.05
Minor Projects	1095	DGAFMS	0.3	0.2
View File				

3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
NIL	NA	

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NA	NA	Nil	NA
No file uploaded.				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
0	NA	NA	NA	NA	Nill
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NA	Nill

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Aerospace Medicine	11	Nill
View File			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Aerospace Medicine	17
View File	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Simultaneous analysis of eight benzodiazepines in blood and urine matrix by gas chromatography mass spectrometry : implications for air crash investigation	SR Santhosh	Indian Journal of Aerospace Medicine	2019	Nill	IAM	Nill
Principal	P Biswal	Indian Journal of	2019	Nill	IAM	Nill

component analysis: The path ahead for aircrew-aircraft compatibility at the Institute of Aerospace Medicine		Aerospace Medicine				
Excessive daytime sleepiness and obstructive sleep apnea among aircrew : A questionnaire survey	SS Mohapatra, HMK Murthy	Indian Journal of Aerospace Medicine	2019	Nill	IAM	Nill
Personality profiling of flying instructor and trainee instructor	K Anand	Indian Journal of Aerospace Medicine	2019	Nill	IAM	Nill
Analysis of G-induced Loss of Consciousness (G-LOC) and Almost Loss of Consciousness (A-LOC) incidences in high-performance human centrifuge at Institute of Aerospace Medicine Indian Air Force	A Kumar	Indian Journal of Aerospace Medicine	2019	Nill	IAM	Nill
An	S	Indian	2019	Nill	IAM	Nill

analysis of transcranial Doppler to interpret changes in cerebral circulation under Gz	Dinakar	Journal of Aerospace Medicine				
Simultaneous analysis of ten drugs of abuse in blood and urine matrix by gas chromatography-mass spectrometry : Implications for air crash investigation	SR Santosh	Indian Journal of Aerospace Medicine	2019	Nill	IAM	Nill
Windblast testing of an aircrew helmet: An approach to neck load analysis	NK Tripathy	Indian Journal of Aerospace Medicine	2019	Nill	IAM	Nill
Effect of Zolpidem on sleep efficiency and heart rate during daytime nap	B Sinha	Indian Journal of Aerospace Medicine	2019	Nill	IAM	Nill

[View File](#)

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
NIL	NA	NA	Nill	Nill	Nill	NA
No file uploaded.						

3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	5	28	Nill	Nill
Presented papers	Nill	17	Nill	Nill
View File				

3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
NIL	NIL	Nill	Nill
No file uploaded.			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NA	NA	NA	Nill
No file uploaded.			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
NIL	NIL	NIL	Nill	Nill
No file uploaded.				

3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Familiarisation to space and Enviornmental physiology department	02	Ministry of Defence	05
Familiarisation to IAM	13	Ministry of Defence	01
View File			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact	Duration From	Duration To	Participant

		details			
Aeromedical Consultancy	Research/F light evaluation of indigenous mirage flying clothing indigenous helmet mask of Su 30 on LCA	ADA	01/07/2019	30/06/2020	IAM
Aeromedical consultancy	Finalisation of indigenio usly designed fighter Initial Operational Configuratio n (IOC) cockpit assessment	HAL	01/07/2019	30/06/2020	IAM
Aeromedical Consultancy	Flight evaluation of indigenously developed Common Helmet Masks (CHM) for different fleet of aircraft	HAL	01/07/2019	30/06/2020	IAM
Aeromedical Consultancy	Development indigenous basic trainer aircraft	HAL	01/07/2019	30/06/2020	IAM
Aeromedical Consultancy	Finalisation of flying clothing for a fighter aircraft	ADA	01/07/2019	30/06/2020	IAM
View File					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
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NIL	Nil	NA	Nil
No file uploaded.			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
124.86	124.86

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
View File	

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
e-Granthalaya	Partially	Nil	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	4070	4242584	68	203145	4138	4445729
Reference Books	56	385370	Nil	Nil	56	385370
Journals	2933	3245294	7	282372	2940	3527666
View File						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	Nil	Nil	Nil
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	151	12	16	1	151	151	5	100	0
Added	0	0	5	0	0	0	1	0	0

Total	151	12	21	1	151	151	6	100	0
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4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NA	NA

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
0	Nil	Nil	Nil

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Every year budget forecasting for the financial year is done in April. Budget is allocated centrally, and purchases are done as per academic requirement for various departments including laboratory, library, sports complex, computers, and classrooms
https://indianairforce.nic.in/content/institute-aerospace-medicine-iam

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	NA	Nil	Nil
Financial Support from Other Sources			
a) National	Stipend	7	2875000
b) International	NA	Nil	Nil
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Mentoring	01/07/2019	26	All faculty
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for	Number of benefited students by	Number of students who have passed in	Number of students placed
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		competitive examination	career counseling activities	the comp. exam	
Nill	NA	Nill	Nill	Nill	Nill
View File					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nill	Nill	Nill

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
NA	Nill	Nill	NA	Nill	Nill
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
Nill	Nill	Nill	Nill	Nill	Nill
No file uploaded.					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	Nill
No file uploaded.	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Health Run	Institute	48
Volley Ball Matches	Institute	12
Football	Institute	24
Tug of War	Institute	36
View File		

5.3 – Student Participation and Activities

5.3.1 – 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	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
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Nil	NA	Nil	Nil	Nil	NA	NA
No file uploaded.						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

There is no official student council in this PG Institute. However, all the students of each batch of MD(Max 10) meet and interact everyday in the lounge at training Wing. The senior most PG resident (Course Senior) from each batch meets the Dean and CI atleast once everyday and discusses all academics /administrative issues. The Course seniors also represent their respective batch during IQAC meetings held quarterly. In addition, training officer and CI meet all the residents atleast once every week to discuss issues pertaining to academic and administration. The principal interacts with the residents in groups once in a quarter. During the above mentioned interactions, the residents are encouraged to discuss all issues related to academics. The voice and opinions of the students is given due consideration and remedial measures if required are implemented. The feedback of the students with respect to faculty is analysed and the instructors are briefed on the outcome.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

471

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

Meetings -1

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization : the Institute has a mechanism for delegating authority and providing operational autonomy to the various functionaries. 1. Dean Level : The office of Principal delegates academic and operational decisions based on policies to the Training Wing of the institute headed by the Dean in order to fulfill the vision and mission of the Institute. Training Wing formulates common standard operating procedures and entrust the implementation to the faculty members. 2. Faculty Level: Faculty members are given representation in various committees' /messes/ societies and allowed to conduct various programs to showcase their abilities. They are encouraged to develop leadership skills by being in charge of various academic, co curricular and extra curricular activities. They are entrusted with responsibility of conducting various seminars/workshops/ conferences. 3. Student Level: Students are empowered to play an active role in various academic and co curricular activities.

Participative management: The Institute promotes a culture of participative management by involving the staff and students in various activities, social service group. All decisions of the institution are governed by management of facts, information and objectives. Both students and faculties are allowed to

express themselves by any suggestions to improve the excellence in any aspect of the Institute. 1. Strategic orientation : The Dean, Training officer are actively involved in defining the policies and procedures, framing guidelines and rules regulations pertaining to admission, commissioning ,discipline , grievance, counseling, training and development and library services. In addition , they also ensure effective implementation of the same for the systematic functioning of the Institute. For the various programs to be conducted by the institute, all staff members meet discuss, share their opinion and plan for the event and form various committees involving students and co ordinate with others. Staff members are also involved in deciding academic activities and examinations to be conducted by the Institute, 2. Functional level: At functional level the faculty members participate in sharing the knowledge by discussing on the latest trends in technology during faculty meeting. They also correspond with the RGUHS University. Faculty members also write joint research papers and share their knowledge.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	Admission to the Institute is through NEET PG entrance exam in accordance with MCI guidelines.
Industry Interaction / Collaboration	Active interaction with ISRO in respect of Indian Human Space program. Regular interaction and aeromedical consultation to HAL based aircraft units including ADA, CAPS SDI, ASTE
Human Resource Management	The Institute has adequate skilled man power to conduct all the assigned activities of the institute as sanctioned by MoD, GoI
Library, ICT and Physical Infrastructure / Instrumentation	(a) A process for planned improvement in infrastructure development is in place. New works are initiated every year after proper need assessment. (b) Adequate funding ensured for repair, maintenance, additions, and alterations to existing building Military Engineering Services (MES) is available fulltime for this purpose. (c) Standard Operating Procedures are in place for demand initiation, processing and procurement training and patient care related equipment. (d) The institution provides excellent auditoria, lecture halls, seminar halls, and clinical teaching facilities in the affiliated hospitals that are fully ICT enabled for a very high-quality teaching-learning experience for its students.
Research and Development	The college encourages research activities by students. PG students are

encouraged to take on short term projects under the guidance of faculty members .A large number of projects are also undertaken by many departments as Departmental Projects with the involvement of students and faculty members. Most of the faculty undertakes projects under the Armed Forces Medical Research Committee by office of DGAFMS. The College has a Research wing headed by Chief Research Officer (CRO) which is the single window monitoring body for all research (major/minor/departmental). All research proposals are to be submitted to CRO, which are then vetted by the scientific committee of the college for study design, sample size, and sampling.

Examination and Evaluation

As the college is affiliated to RGUHS, it follows the evaluation system prescribed by the university. The university is responsible for the conduct of the examinations. However, the university has brought in heartening reforms in the evaluation process, the conduct of the examinations is the responsibility of the University. The transparency is maintained by paper setting process, Central Assessment programme for theory evaluation and computerisation of the correction of the theory paper. The practical/clinical examinations are made more transparent by appointing external examiners of proven integrity and bringing in objectivity. The students have mechanisms for redressal of their grievances

Teaching and Learning

The training wing formulate weekly training programme and strictly adhere to the same. (a) The departments formulate departmental objectives and Specific Learning objectives. Individual instructors then prepare lesson plans based on the objectives. (b) Interactive participation is Seminars, Journal clubs symposium, and case studies are encouraged. (c) Regular Counselling and feedback are offered to students for improving their performance.

Curriculum Development

IAM follows a curriculum as per the norms and guidelines by RGUHS, Bengaluru. The teaching standards are in parallel with the best global standards. The PG residents are taught

to become aerospace medicine specialists to cater to the medical needs of the aerospace industry and with special relevance to the Armed Forces of India. There is a constant endeavour by the faculty to improve upon the syllabi from time to time and as per the changing trends of the environment. Contemporary issues and problems are taken up as and when they arise. Knowledge is updated and training is provided to deal with new problems that may arise.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Academic Council headed by DGMS(Air) reviews the academic activities of the institute annually through Audio visual aids like video conference or physically at the Institute.
Student Admission and Support	IAM is a Defence Establishment under Government of India. Instructions on day to day functioning of the Institute are issued through Intranet. Any special instructions from higher formations are also received through Intranet. All the directions from the RGUHS are received through internet

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Wg Cdr Ajay Kumar	Indian Society of Aerospace Medicine (ISAM)	Ministry of Defence	7000
2019	Wg Cdr Stuti Mishra	Indian Society of Aerospace Medicine (ISAM)	Ministry of Defence	7000
2019	Lt Col Punyashlok Biswal	Indian Society of Aerospace Medicine (ISAM)	Ministry of Defence	7000
2019	Wg Cdr Manav Dutt Sharma	Indian Society of Aerospace Medicine (ISAM)	Ministry of Defence	7000
2019	Wg Cdr AVK	Indian	Ministry of	7000

	Raju	Society of Aerospace Medicine (ISAM)	Defence	
2019	Gp Capt NK Tripathy	Indian Society of Aerospace Medicine (ISAM)	Ministry of Defence	7000
2019	Gp Capt MS Nataraja	Indian Society of Aerospace Medicine (ISAM)	Ministry of Defence	7000
2019	Surg Capt SS Mohapatra	Indian Society of Aerospace Medicine (ISAM)	Ministry of Defence	7000
2019	Gp Capt Vipin Sharma	Indian Society of Aerospace Medicine (ISAM)	Ministry of Defence	7000
2019	Air Cmde Anupam Agarwal VSM	Indian Society of Aerospace Medicine (ISAM)	Ministry of Defence	7000
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
Nill	Nil	Nil	Nill	Nill	Nill	Nill
No file uploaded.						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Nil	Nill	Nill	Nill	0
No file uploaded.				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nill	Nill	Nill	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>All the uniformed staff avail the various welfare schemes of IAF such as IAFBA, AFWWA Scholarship for children etc. The institute conducts Cohesion Day once every month. In addition welfare meetings are held for service personnel and civilian employees with a periodicity of 03 months. General points pertaining to welfare or concerning improvement in working conditions are discussed in these meetings under the chairmanship of Commandant. Apart from this, the Institute also offers welfare measures to employees and Dependents such as residential accommodation, medical facilities, sale of grocery through Canteen Stores department, conveyance of school going children etc.</p>	<p>All the uniformed staff avail the various welfare schemes of IAF such as IAFBA, AFWWA Scholarship for children etc. The institute conducts Cohesion Day once every month. In addition welfare meetings are held for service personnel and civilian employees with a periodicity of 03 months. General points pertaining to welfare or concerning improvement in working conditions are discussed in these meetings under the chairmanship of Commandant. Apart from this, the Institute also offers welfare measures to employees and Dependents such as residential accommodation, medical facilities, sale of grocery through Canteen Stores department, conveyance of school going children etc.</p>	<p>All the uniformed staff avail the various welfare schemes of IAF such as IAFBA, AFWWA Scholarship for children etc. The institute conducts Cohesion Day once every month. In addition welfare meetings are held for service personnel and civilian employees with a periodicity of 03 months. General points pertaining to welfare or concerning improvement in working conditions are discussed in these meetings under the chairmanship of Commandant. Apart from this, the Institute also offers welfare measures to employees and Dependents such as residential accommodation, medical facilities, sale of grocery through Canteen Stores department, conveyance of school going children etc.</p>

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Yes, the institute has an elaborate mechanism for internal and external audit. The internal audit consist of monthly check, Quarterly check, surprise check, handing take over check and by means of regular returns submitted to higher formations. External audit is carried out by agencies like Local Audit Office(AF) . In addition, periodical inspection of the Institute is also carried out by Director of Admin(DAI) and Command Air Staff Inspection(CASI). Observations, if any, are communicated to the department concerned for corrective action /compliance.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Central	600030	ATG
View File		

6.4.3 – Total corpus fund generated

34950754

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	LIC	Yes	Commandant IAM
Administrative	Yes	Command	Yes	Commandant IAM

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

This being a PG institute, there is no Parent Teacher Association activities

6.5.3 – Development programmes for support staff (at least three)

1.Computer Training Courses 2. Hindi learning Courses 3. Soft skill development program

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. A statistics workshop was conducted for the benefit of the residents. 2. Selection of potential astronaut candidates for Human Space Program. 3. Release of handbook on Research methodology.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	No
c)ISO certification	No
d)NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Statistics Workshop	28/12/2019	22/02/2020	23/02/2020	50
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Women s Day	09/03/2020	09/03/2020	8	13

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

1. The Institute buildings are designed in such a way that the rooms are well lit with natural light and ventilation. 2.It also has well maintained lawns and plants which are nurtured by permanent gardeners and supporting staff. Sprinklers are made use to prevent wastage of water. 3.Celebration of world environment day by tree plantation in campus providing ambient air quality. 4. At present , the institute does not have any renewable energy source.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	6
Provision for lift	No	Nil
Ramp/Rails	Yes	6
Braille Software/facilities	No	Nil
Rest Rooms	No	Nil
Special skill development for differently abled students	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	23/12/2019	1	Prevention of Dengue	Dengue prevention	29
2020	1	1	20/11/2019	1	Diabetes and childhood obesity	Prevention of childhood obesity	2
2020	1	1	04/02/2020	1	World Cancer day celebration	Awareness of cancer	25
2020	1	1	20/03/2020	1	Lecture on Prevention of Covid-19	Awareness on Covid 19	35
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Nil	Nil	Nil

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Mentoring	01/07/2019	30/06/2020	26
View File			

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Energy Conservation 2. Water harvesting 3. Efforts for carbon Neutarlity 4. e waste mangement 5. Biowaste management

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Title of first practice- Training of aircrew for enhancing performance using Human Centrifuge. (a) Goal To provide practical exposure to post graduate students of aerospace medicine course on aircrew training using human centrifuge for performance enhancement. (b) Context The offensive and defensive capabilities of any Air Force depend largely on the manoeuvrability of the aircrafts. The aircrew invariably functions in a multi stress environment, especially in combat aircraft. Ground based simulators are often made use of for demonstrating the physiological changes that occur while flying under stressful conditions as well as for training them in order to get adapted to these conditions. It is the responsibility of the aviation medicine specialist to conduct training using High performance Human Centrifuge at the Institute. (c) Practice The post Graduate trainees of Aerospace medicine are given exhaustive training on the operation of the human centrifuge to impart the training to the aircrew independently. (d) Evidence of success The residents are able to operate the high performance human centrifuge and administer the training as per the requirements of the department. (e) Problems Encountered The Human centrifuge available is a modern sophisticated simulator. Being non technical background, the residents are initially apprehensive about handling this equipment. With the support of the technical staff, they overcome these difficulties and gain confidence to operate the simulator effectively and safely.
2. Title of second practice- All India study tour which includes visits to Naval aviation centres, ISRO, DRDO labs and premier flying stations of IAF. (a) Goal To provide hands on experience to the young trainees of Aerospace Medicine about the environment in which aircrew and space crews are likely to operate and the possible counter measures being employed. (b) Context Aerospace Medicine is a unique specialty concerned with maintenance of health and performance of aircrew in the altered environment. Visits to these specialized centers/defence labs make the students aware of the various processes involved in the indigenization efforts of flying clothing, life support systems etc. Visits to flying stations gives them an opportunity to understand the cockpit geometry and flight environment in a better way. (c) Practice The educational tours to the labs and flying stations are carried out in the presence of a senior faculty from the institute. Visits to DRDO labs gives the trainees an opportunity to interact with the designers and fabricators of different subsystems of flying clothing, life support systems etc. This also makes them understand the complexities involved in the indigenization and certification process of different aircrew equipment. (d) Evidence of success Interaction with students after the educational tour shows marked improvement in their understanding of the aviation environment. It is seen that they become more aware of the ground realities and problems faced by the user population. (e) Problems Encountered Co -ordination with labs/units which are located at different parts of the country, for obtaining permission for the visits is difficult. Confirmation of dates have to be obtained well in advance to plan the visit in an optimal manner to get maximum coverage.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://indianairforce.nic.in/content/institute-aerospace-medicine-iam>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

IAM is a premiere Institute offering post graduate MD Aerospace Medicine in India and the whole of South- East Asia. Aerospace medicine is a unique field with a very specific occupational orientation. The Institute possesses the state of the art simulators which are the best in the world. The objective of the Institute is to impart training to the post graduate residents with highest standards of education. This is with an aim to produce world class specialists and groom the budding specialists in this field to assume role of a military/civil aviation medical practitioner. This role by the specialist officer of Indian Armed Forces is in consonance with improvement of human performance and aerospace safety. In addition to training, the Institute is the hub of Aerospace Medicine activity in India involving both Civil Aviation and Military aviation sectors. The Institute also provides consultancy on aeromedical issues to various PSU and DRDO labs. It is also providing valuable inputs and consultation for the Gaganyaan Project (Human Space Program) to ISRO.

Provide the weblink of the institution

<https://indianairforce.nic.in/content/institute-aerospace-medicine-iam>

8.Future Plans of Actions for Next Academic Year

The Institute plans to consolidate its achievements in academic, research and faculty as well as student development next year. 2. Online submission of synopsis, dissertation and teachership database within the institute in lines with RGUHS, Bangalore guidelines on regular basis to support paperless communication to promote institutional green campaign.