

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 |
| | <u> </u> |

5. Accrediation Details

| Cycle | Grade | CGPA | Year of | Vali | dity |
|-------|-------|------|--------------|-------------|-------------|
| | | | Accrediation | 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 |

6. Date of Establishment of IQAC

10-Jun-2011

7. Internal Quality Assurance System

| Quality initiatives by IQAC during the year for promoting quality culture | | | |
|---|-----------------|---------------------------------------|--|
| Item /Title of the quality initiative by IQAC | Date & Duration | Number of participants/ beneficiaries | |

| Statistics workshop | 22-Feb-2020 02 | 50 | |
|---------------------|-------------------|----|--|
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

| Institution/Departmen t/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 |
| | | <u>View File</u> | | |

| 9. Whether composition of IQAC as per latest NAAC guidelines: | Yes |
|--|------------------|
| Upload latest notification of formation of IQAC | <u>View File</u> |
| 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 | <u>View File</u> |
| 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

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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 assitance 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 statictics was on conducted for the benefit of residents and faculty |
| Viev | 7 File |

| 14. Whether AQAR was placed before statutory body ? |
|---|
| |
| Name of Otatutani Dadi |

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 descripiton 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.

presentations and study material. (b)

The Institute subscribes to the

All the departments upload

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), ExSSC 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/entreprene urship | 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 | |
|-------------------|--------------------------|-----------------------|--|
| Nill NA | | Nill | |
| 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 |
|----------------------------------|--------------------------|---|
| Nill | NIL | Nill |

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 Nill | | Nill | | | |
| No file uploaded. | | | | | |

1.3.2 – Field Projects / Internships under taken during the year

| Project/Programme Title | Programme Specialization | No. of students enrolled for Field Projects / Internships |
|-------------------------|--------------------------|--|
| | | |

| 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

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.

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 | |
| <u>View File</u> | | | | | |

2.2 - Catering to Student Diversity

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

| | Year | Number of | Number of | Number of | Number of | Number of |
|---|------|--------------------|--------------------|-------------------|-------------------|------------------|
| ١ | | students enrolled | students enrolled | fulltime teachers | fulltime teachers | teachers |
| ١ | | in the institution | in the institution | available in the | available in the | teaching both UG |
| ١ | | (UG) | (PG) | institution | institution | and PG courses |
| ١ | | | | teaching only UG | teaching only PG | |
| ١ | | | | courses | courses | |

| 2019 Nill | 26 | Nill | 28 | Nill |
|-----------|----|------|----|------|
|-----------|----|------|----|------|

2.3 - Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), Elearning 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 | Numberof 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

| | | | 1 | 1 |
|----------------|----------------|----------------|-----------------------|------------------------|
| Programme Name | Programme Code | Semester/ year | Last date of the last | Date of declaration of |

| | | | 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 |
| <u>View File</u> | | | | |

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 |

<u>View File</u>

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 | | |
| | | | | | | |

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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 | Nill | NA | | |
| No file uploaded. | | | | | | |

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

| Incubation Center | Name | Sponsered 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

| Туре | Department | Number of Publication | Average Impact Factor (if any) | | |
|------------------|-----------------------|-----------------------|--------------------------------|--|--|
| National | Aerospace Medicine | 11 | Nill | | |
| <u>View File</u> | | | | | |

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 | v 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 |
|---|-------------------|--------------------------------------|---------------------|----------------|--|---|
| simultan eous analysis of eight b enzodiazep ines in blood and urine matrix by gas chroma tography mass spect rometry: implicatio ns for air crash inve stigation | 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 c ompatibili ty at the Institute of Aerospace Medicine | | Aerospace Medicine | | | | |
|--|--------------------------------|---|------|------|-----|------|
| Excessive daytime sleepiness and obstru ctive sleep apnea among aircrew: A question naire survey | SS Mohapatra, HMK Murthy | Indian Journal of Aerospace Medicine | 2019 | Nill | IAM | Nill |
| Personal ity profiling of flying instructor and trainee instructor | K Anand | Indian Journal of Aerospace Medicine | 2019 | Nill | IAM | Nill |
| Analysis of G- induced Loss of Co nsciousnes s (G-LOC) and Almost Loss of Co nsciousnes s (A-LOC) incidences in high-pe rformance 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 transcr anial Doppler to interpret changes in cerebral c irculation under Gz | Dinakar | Journal of Aerospace Medicine | | | | |
|---|----------------|---|------|------|-----|------|
| Simultan eous analysis of ten drugs of abuse in blood and urine matrix by gas chroma tography- mass spect rometry: Implicatio ns for air crash inve stigation | 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 |

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/Semi nars/Workshops | 5 | 28 | Nill | Nill | |
| Presented papers | Nill | 17 | Nill | Nill | |
| <u>View File</u> | | | | | |

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 | | |
| ľ | 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/Agen cy/collaborating agency | Name of the activity | Number of teachers participated in such activites | Number of students participated in such activites | |
|--------------------|--|----------------------|---|---|--|
| 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 | | |
| <u>View File</u> | | | | | |

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 | HAL | 01/07/2019 | 30/06/2020 | IAM |
| | Helmet Masks (CHM) for different fleet of aircraft | | | | |
| Aeromedical Consultancy | Helmet Masks (CHM) for different fleet of | HAL | 01/07/2019 | 30/06/2020 | IAM |
| | Helmet Masks (CHM) for different fleet of aircraft Development indigenous basic trainer | ADA | 01/07/2019 01/07/2019 | 30/06/2020 | IAM |

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 |
|--------------|--------------------|--------------------|---|
| | | | |

| NIL | Nill | NA | Nill | | |
|-------------------|------|----|------|--|--|
| 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 | | | |
| <u>View File</u> | | | | |

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 patially) | Version | Year of automation | |
|---------------------------|--|---------|--------------------|--|
| e-Granthalaya | Partially | Nill | 2019 | |

4.2.2 - Library Services

| | Library Service Type | Existing | | Newly | Newly Added | | Total | |
|---|-------------------------|----------|---------|-------|-------------|------|---------|--|
| | Text Books | 4070 | 4242584 | 68 | 203145 | 4138 | 4445729 | |
| | Reference Books | 56 | 385370 | Nill | Nill | 56 | 385370 | |
| | Journals | 2933 | 3245294 | 7 | 282372 | 2940 | 3527666 | |
| Γ | 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 Nill Nill | | | | | | |
| No file uploaded. | | | | | | |

4.3 - IT Infrastructure

4.3.1 – Technology Upgradation (overall)

| Туре | Total Co mputers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departme nts | Available Bandwidt h (MBPS/ GBPS) | Others |
|--------------|---------------------|-----------------|----------|------------------|---------------------|--------|-----------------|--|--------|
| Existin g | 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 |
|--|--|-------|-----|----|----|---|-----|-----|---|-----|---|
|--|--|-------|-----|----|----|---|-----|-----|---|-----|---|

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 | <u>NA</u> |

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 incurredon maintenance of physical facilites |
|--|--|--|--|
| 0 | Nill | Nill | Nill |

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 | Nill | Nill | | | | |
| Financial Support from Other Sources | | | | | | | |
| a) National | Stipend | 7 | 2875000 | | | | |
| b)International | NA | Nill | Nill | | | | |
| <u>View File</u> | | | | | | | |

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 implemetation | Number of students enrolled | Agencies involved | | | |
|---|-----------------------|-----------------------------|-------------------|--|--|--|
| Mentoring 01/07/2019 26 All faculty | | | | | | |
| <u>View File</u> | | | | | | |

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

| Year | Name of the | Number of | Number of | Number of | Number of |
|------|-------------|--------------|-------------|---------------|------------------|
| | scheme | benefited | benefited | students who | studentsp placed |
| | | students for | students by | have passedin | |

| | | | competitive examination | career counseling activities | the comp. exam | | |
|---|------------------|----|----------------------------|------------------------------------|----------------|------|--|
| | Nill | NA | Nill | Nill | Nill | Nill | |
| 1 | <u>View File</u> | | | | | | |

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 | | |
|---|-----------|------------------------------------|---------------------------------------|---------------------------|--|--|
| Nameof Number of Students placed visited participated | | Nameof organizations visited | Number of students participated | Number of stduents placed | | |
| NA Nill Nill | | NA | Nill | Nill | | |
| <u>View File</u> | | | | | | |

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

| | Year | Number of students enrolling into higher education | Programme graduated from | Depratment graduated from | Name of institution joined | Name of programme admitted to | |
|---|-------------------|---|-----------------------------|---------------------------|----------------------------|-------------------------------|--|
| | Nill | Nill | Nill | Nill | Nill | Nill | |
| ĺ | 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 | |
| <u>View File</u> | | | |

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/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
|------|-------------------------|---------------------------|-----------------------------|-------------------------------------|----------------------|---------------------|
|------|-------------------------|---------------------------|-----------------------------|-------------------------------------|----------------------|---------------------|

| Nill | NA | Nill | Nill | Nill | 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) :

(

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-governace 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 |
| <u> View File</u> | | | | |

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-te | aching |
|-----------|-----------|-----------|-----------|
| Permanent | Full Time | Permanent | Full Time |
| Nill | Nill | Nill | Nill |

6.3.5 - Welfare schemes for

| Teaching |
|--|
| 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. |

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,

Non-teaching

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.

Students

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.

conveyance of school

going children etc.

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 | | |
| <u>View File</u> | | | | |

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 |
| <u>View File</u> | | | | | |

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 F | 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 | Nill |
| Ramp/Rails | Yes | 6 |
| Braille Software/facilities | No | Nill |
| Rest Rooms | No | Nill |
| Special skill development for differently abled students | No | Nill |

7.1.4 - Inclusion and Situatedness

| Year | Number of initiatives to address locational advantages and disadva ntages | 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 | 23/12/2 019 | 1 | Prevent ion of Dengue | Dengue preventio n | 29 |
| 2020 | 1 | 1 | 20/11/2 019 | 1 | Diabetes and childhood obesity | Prevent ion of childhood obesity | 2 |
| 2020 | 1 | 1 | 04/02/2 020 | 1 | World Cancer day celeb ration | Awareness of cancer | 25 |
| 2020 | 1 | 1 | 20/03/2 020 | 1 | Lecture on Preven tion of Covid-19 | Awareness on Covid 19 | 35 |
| <u>View File</u> | | | | | | | |

VIEW FILE

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 | Nill | 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 | | | | | |
| <u>View File</u> | | | | | | | | |

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

Energy Conservation 2. Water harvesting 3. Efforts for carbon Neutarlity 4.
 e waste management 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 manoeurvabilty 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.