



# **MEMORANDUM OF ASSOCIATION & ORDINANCE**

**Indian National Academy of  
Engineering (INAE)**

**Last Updated: January 13, 2021**

# **MEMORANDUM OF ASSOCIATION**

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### **NAME OF THE SOCIETY**

1. The name of the Society shall be 'INDIAN NATIONAL ACADEMY OF ENGINEERING'

### **AIMS AND OBJECTS**

2. The aims and objects for which the Indian National Academy of Engineering (hereinafter called 'The Academy' is hereby constituted are to promote the general advancement of engineering and technology and the related sciences and disciplines and to facilitate exchange of information of ideas on these subjects amongst the Members of, and persons attached to, the Academy and otherwise, and for that purpose-
  - (a) To promote and advance the practice of engineering and technology and the related sciences and disciplines (hereinafter referred to as 'Engineering') in India and their application to problems of national importance.
  - (b) To disseminate among its members information on all matters pertaining to 'Engineering' and to encourage, assist and extend knowledge and information connected therewith by publishing such proceedings, journals, memoirs and other publications as may be desirable and hold meetings, lectures, seminars, symposia etc.
  - (c) To interact, after due and detailed consideration, with professional bodies, engineering and scientific academies etc. already established or as may be established in future in India and abroad.
  - (d) To promote and safeguard academic and professional interest of persons involved in 'Engineering' (hereinafter referred to as 'Engineer' in India by laying down a code of ethics which shall be an obligation to be signed by all Fellows of the Academy on admission thereto).

- (e) To provide an association of eminent 'Engineers' and to present at all academic forums research and developmental activities on 'Engineering' on mutually interactive and cooperative basis, both in India and abroad.
  - (f) To promote the National Policy on Education of the Government of India as announced from time to time, in all matters of technical education where the Academy is concerned.
  - (g) To assist the Government of India, the Local Governments, All India Council of Technical Education and others in analysing, forecasting for the purpose of planning and formulating the policies in respect of education in 'Engineering' and ensuring the appropriate standard thereof.
  - (h) To offer the Government of India, the Local Governments and others, facilities for conferring with and ascertaining the views of 'Engineers' as regards matters directly or indirectly pertaining to 'Engineering' and to confer with the said Governments and others in cooperation with other fraternal professional bodies in regard to all matters pertaining to 'Engineering'.
  - (i) To encourage inventions, investigations and research and promote their applications for development of both organised and unorganised sectors of the national economy.
  - (j) To encourage and promote the pursuit of excellence in the field of 'Engineering'.
  - (k) To institute and establish Professorships, Fellowships, Studentships, Scholarships, Awards and other benefactions and to grant Certificates of Competency and Charter whether under any Act of Government of India or otherwise howsoever.
  - (l) To do all such other acts and things as are incidental or conducive to the attainment of the above objects or any one of them.
3. All the incomes, earnings, movable or immovable properties of the Academy shall be solely utilised and applied towards the promotion of

its aims and objects only as set forth in the Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly by way of dividends, bonus, profits or in any manner whatsoever, to the present or past members of the Society or to any person claiming through any one or more of the present or the past members. No member of the Academy shall have any personal claim on any movable or immovable properties of the Academy or make any profits, whatsoever, by virtue of this membership.

## **RULES AND REGULATIONS**

### **INTERPRETATION**

1. In these Rules and Regulations, unless the context otherwise requires, expressions shall have the same meaning as in the Memorandum of Association, words implying males shall include females and words implying the singular number shall include the plural number and vice versa and words implying individual person or persons shall include body or bodies corporate. Furthermore,
  - i) “The Academy” means Indian National Academy of Engineering registered under the Societies Registration Act 1860.
  - ii) “The Memorandum” means the Memorandum of Association of the Academy dated 20 April 1987.
  - iii) “The Rules and Regulations” means the Rules and Regulations of the Academy for the time being in force.
  - iv) “The Governing Council” means the Council of the Academy constituted under these Rules and Regulations.
  - v) “The President” means the President of the Academy.
  - vi) “The Executive Director ” means the Executive Director of the Academy as may be appointed by the Council from time to time.
  - vii) “Financial Year” means the twelve months commencing on the first day of April of a year and ending with the last day of March of the following year.
  - viii) “Year” means a calendar year, provided that if for any reasons, the Annual General Meeting could not be held before the last day of December of the last year of the tenure of the Council, the tenure will get extended to the date of the Annual General Meeting which would be held as early as possible, but not later than January 31 of the following year. The subsequent tenure shall commence thereafter.
  - ix) “The Roll” means the register of members of the Academy.
  - x) “The Recorded Address” means the address of a member as given in the proposal for his election or subsequently changed by notice in writing to the Executive Director and as recorded in the Roll.

## **MANAGEMENT**

2. (a) The management and control of the Academy and its affairs shall vest with its Council and the Council shall exercise all the powers of the Academy and do all duties of the Academy with intent to give effect to the provisions of the Articles in the Memorandum of Association and the Rules and Regulations for the time being of the Academy, except so far as the same are by the Articles or by the Rules and Regulations for the time being expressly required to be done in general meetings of the Fellows or by the President or the Executive Director of the Academy.
- (b) All the powers of the Academy shall be vested in and exercisable by the Council except in so far as the same are by these Presents or by the Rules and Regulations for the time being of the Academy expressly required to be exercised by the Academy in a general meeting.
- (c) The meetings of the Academy shall be of such classes and shall be held for such purposes as may from time to time be prescribed by the Rules and Regulations of the Academy and the rights of the several classes of members and of persons attached to the Academy for attending and voting at the said meetings shall be such or subject to such restrictions as may be so prescribed.
- (d) The Academy, through the Council, shall act through properly constituted national committees in which institutions, other learned societies and academies will be associated for undertaking such scientific, technical and development activities of national and international importance as the Academy may be called upon by the public and the Government to perform.

## **THE GOVERNING COUNCIL**

3. (a) There shall be a Council of the Academy consisting of such number of Members, with such qualifications, and to be elected and constituted as such Members of the Council in such manner and to hold office for such a period, and on such terms as to re-election and otherwise, as the Rules and Regulations for the time being direct.

(b) The Council shall consist of 26 members as given below:

- i) The President
  - ii) Immediate Past President
  - iii) Three Vice-Presidents
  - iv) Chief Editor of Publications (Ex-officio member of the Council).
  - v) Ten Fellows-One Fellow to be elected from each of the ten Engineering Sections.
  - vi) One representative to be nominated by the Ministry of Science and Technology, Department of Science & Technology, Govt. of India, from amongst the Fellows of the Academy.
  - vii) One Fellow of the Academy to be nominated by Ministry of Human Resource Development, Govt. of India.
  - viii) One Fellow of the Academy to be nominated by Department of Space.
  - ix) One Fellow of the Academy to be nominated by Department of Atomic Energy
  - x) One Fellow of the Academy to be nominated by Defence Research & Development Organization
  - xi) A representative of All-India Council for Technical Education to be nominated by the Chairman from amongst the Fellows of the Academy.
  - xii) One Engineer Fellow to be nominated by the Indian National Science Academy.
  - xiii) One engineer representative to be nominated by CII on the INAE Governing Council
  - xiv) One engineer representative to be nominated by FICCI on the INAE Governing Council
  - xv) One engineer representative to be nominated by NASSCOM on the INAE Governing Council
- (c) No act of the Council or any body set up under Rules and Regulations of the Council shall be invalid merely by reason of
- i) Any vacancy in or defect in the constitution thereof.



- ii) Any defect in the election, nomination or appointment of a person acting as a member thereof.
- 4. Unless and until, the Rules and Regulations for the time being of the Academy shall otherwise direct, the out-going Council shall, prior to the Annual General Meeting in the year, elect the new incumbents to the vacancies of President, Vice-Presidents and other Members to the new Council. The new Council shall assume office after the Annual General Meeting on the first day of January of the next year or the next day after the date of the Annual General Meeting if it takes place after the first day of January.

#### **DUTIES AND RESPONSIBILITIES**

##### **5. President**

- (a) To preside at all the meetings of the Academy and of the Council and to regulate the proceedings at such meetings.
- (b) To ensure that due effect is given to the Rules and Regulations and to the Ordinances made by the Council.
- (c) To be ex-officio member of all Committees appointed by the Council.
- (d) In case of doubt as to the interpretation of the Rules and Regulations he will decide on the interpretation. In such case the President's interpretation shall hold until the next meeting of the Council, when the interpretation of the Rule will be discussed to be finally determined.
- (e) In the event of the President being unable to perform the duties of his office due to death, resignation or any other cause or in the case of his prolonged absence from India for any reason, the senior Vice-President, shall assume the duties of the President till the Council elects a President from amongst themselves for the residual part of the term in accordance with the provisions of the Rules and Regulations 8(a), provided such residual part is not less than six months. A Fellow who occupies the office of President for such a residual part would be deemed to have had a "term" as President only if the residual part is 2/3<sup>rd</sup> of the term, namely 16 months, or more.

The seniority of the Vice-Presidents shall be based upon on the continuous number of years that the Vice-Presidents concerned

have been on the roll as Fellow. If all the three Vice-Presidents have entered the Academy on the same date, the age will determine their seniority.

- (f) In case of an emergent situation requiring urgent action on matters pertaining to the functions of the Academy, the President may take such decisions as he thinks fit on behalf of the Council and report the same at the next meeting of the Council for its approval.

## **6. Vice Presidents**

- (a) **Vice-President (Academic, Professional and International Affairs)**
  - (i) To plan and conduct all activities pertaining to technical programmes, studies and thrust areas –Seminars/ Workshops/ Round Tables, Local Chapter activities, Distinguished Visiting Professorship Scheme, Archives of Indian Engineering Heritage etc.
  - (ii) To conduct correspondence with foreign countries, relating to the business of the Academy, to return thanks for presents from foreigners made to the Academy.
- (b) **Vice-President (Fellowship, Awards and Corporate Communication)**
  - (i) To plan and conduct all activities pertaining to Election to the Fellowship, Council, Office Bearers and Sectional Committees, Forum on Engineering Education.
  - (ii) To plan and organize activities related to all Engineering Excellence Awards/ Scholarships instituted by the Academy.
- (c) **Vice-President (Finance & Establishment )**
  - (i) To plan and oversee all activities pertaining to the finance. He shall receive and hold for the use of the Academy all money paid to the Academy. He shall disburse all sums due from the Academy and shall keep exact accounts of all such receipts and payments.
  - (ii) He shall be the ex-officio member of all the Committees appointed by the Council from time to time except any Committee(s) as directed by the Council specifically.

- (iii) To exercise general supervision over the staff and the affairs of the Academy and to assist in carrying out the Rules and Regulations and Orders made by the Council.
  - (iv) To enter or cause to be entered in the Minute-Books all the proceedings of the Academy and the Council before the following meeting, and to see that all letters and papers and documents of every kind connected with the business of the Academy are properly filed and preserved.
- d) In the event of any of the Vice-Presidents being unable to perform the duties of his office due to death, resignation or any other cause, or in the case of his/her prolonged absence from India for any reason, one of the other Vice-Presidents shall assume the duties till the Council elects a Vice-President from amongst themselves for the residual part of the term in accordance with the provision of the Rules and Regulations 8(b) provided such residual part is not less than two months. A Fellow who occupies the office of Vice President for such a residual part would be deemed to have had a “term” as Vice President only if the residual part is  $\frac{2}{3}$ <sup>rd</sup> of the term, namely 24 months, or more.

## **7. Chief Editor of Publications**

He shall be responsible for the preparation and printing of the publications of the Academy and shall have the right of direct correspondence with the authors and with the Press. He will have a tenure of three years which is extendable by another tenure of three years in the Council in order to ensure continuity. He will be an ex-officio member of the Council and will also be eligible for election to the post of Vice-President/President.

### **TERM OF COUNCIL**

8. a) The term of the President will be two years and he/she will be eligible for re-election for another term of two years.
  - b) The term of Vice-Presidents and elected members of the Council shall be for three years and they shall be eligible for re-election for another term of three years. One out of three Vice-Presidents and three out of ten elected Members representing Engineering Sections to retire each year.
  - c) The term of the persons nominated by DST, MHRD, DOS, DAE, DRDO, AICTE, INSA, CII, FICCI and NASSCOM shall be three years. They shall be eligible for renomination for another term of three years.
9. a) No “member” (Elected or nominated) of the Council shall serve in the Council as a “member” (elected or nominated) for more than two consecutive terms or six consecutive years, except in case of his being elected as President.
  - b) A Member of the Governing Council, who does not attend three consecutive Council Meetings, nor sends his considered views on the agenda items of the Council Meetings, shall ipso-facto vacate his office in the Council. A vacancy arising in the Office of Vice Presidents/Chief Editor of Publications shall be filled from amongst the Members of the Council. A vacancy occurring in the Council, the Council shall be competent to fill such vacancy with Fellows affiliated to the same Engineering Section. He/she shall retain membership of the Council so long as the vacating member of the Council would in the ordinary course have retained membership and any period of membership so served less than one year shall not be taken into account in computing the period of the membership of the Council under the provision of Rules and Regulations 8(a), (b) and (c).
  - c) President/ Vice-Presidents/ Members of the Governing Council will not be the candidates for any Award instituted by the

Academy. However, they may participate in the Schemes/Research Projects/ Studies of the Academy.

#### **POWERS, PROCEDURES, DUTIES OF THE COUNCIL**

10. The Council shall direct and manage the affairs and property of the Academy, subject to the provisions of the Articles, the Rules and Regulations and the Resolutions of General Meetings of the Fellows and Foreign Fellows which have been duly summoned and held in accordance with the Rules and Regulations and duly recorded in the minutes of the meetings. Subject to as aforesaid, the Council shall further exercise all powers of the Academy not otherwise specifically provided for; provided such powers are not by the Articles or the Rules and Regulations, required to be exercised by the Fellows and Foreign Fellows at a General Meeting.
11. The decisions of the Council on all matters dealt with by it in accordance with the provisions in the Articles and Rules and Regulations and such resolutions of General Meetings of Fellows and Foreign Fellows as aforesaid shall be final and binding on all classes of members.
12. The Council shall frame such Ordinances, instructions and guidelines as are not inconsistent with anything contained in the Articles of Association, and Rules and Regulations for functioning of the Academy. The Council is empowered to revise, alter or rescind these as it may consider appropriate.
13. The Council may appoint Committee(s), Advisory and such other Groups for consideration of special items and subject of concern to the Academy and delegate any of its powers to such Committee(s) or Groups. The Council may, in addition, delegate any of its powers to the President, the Executive Director or such other person or persons or bodies as it may appoint or constitute from time to time for efficient working of the Academy. All such Committees or persons shall exercise powers delegated to them by the Council and in the transaction of business conform to any directions that may be given to them by the Council and subject thereto and may regulate their proceedings.
14. The Council shall meet as often as the business of the Academy may require, but not less than three times a year. At every meeting of the

Council one-third of the total strength of the Council shall constitute a quorum. A meeting of the Council at which a quorum is present shall be competent to exercise all or any of the powers or discretions vested in or exercisable by the Council, notwithstanding any vacancy in the body. If at any meeting there is no quorum, the meeting shall stand adjourned for half hour and shall meet at the same place on expiry of half hour and transact the business of the meeting, with members present as the quorum.

15. To summon a meeting of the Council, the Executive Director shall issue a notice of meeting to each member of the Council together with the agenda not less than twenty one days before the date of meeting. This period of twenty one days shall be exclusive of the day on which the notice is issued, but inclusive of the day for which the notice is given. This period shall not apply to supplementary agenda which may be issued as the exigencies of the case may require.
16. The Executive Director shall summon a special meeting of the Council on receipt of a written requisition which shall contain a specific matter desired to be discussed at this special meeting and shall be signed by atleast fifteen members of the Council and within thirty days of the receipt of the requisition. The notice of such special meeting shall state the purpose for which the meeting is called and its period shall be the same as Rules and Regulations 15. At the such meeting no business other than specified in the requisition shall be transacted.
17. At any meeting of the Council, each member of the Council present in person shall have one vote. All questions shall be decided in the Council by a majority of those persons having a right to vote. In the case of equality the President or other person presiding shall have a second and a casting vote. A postal vote of the Council shall, however, be taken whenever,
  - (a) Any six present in person at the meeting shall demand it, or
  - (b) Any fifteen whether present at the meeting or not, shall by notice in writing delivered to the Executive Director before the hour fixed for the meeting, demand it, or
  - (c) The meeting of the Council shall so direct.

18. The Council shall cause a statement of the funds of the Academy and of the income and expenditure during the past year, terminating on the last day of the month of March to be made and verified and signed by the Auditors. The Council shall cause such accounts to be presented at the Annual General Meeting.
19. The Council shall draw up an Annual Report of the Council on the state of the Academy, and shall present it at the Annual General Meeting.
20. The Council may make, amend or rescind Rules and Regulations provided that the same may not be repugnant to the Memorandum of Association and no such addition, amendment or rescission shall come into operation until the same has been approved by a Special General Meeting of Fellows and Foreign Fellows.
21. The Council may call for an Extraordinary General Meeting of the Fellows and Foreign Fellows of the Academy for any specific purpose relating to the directions and management of the affairs of the Academy except for revoking, altering or amending any of the provisions of the Rules and Regulations of the Academy.

#### **THE EXECUTIVE DIRECTOR**

22. The Executive Director of the Academy shall be appointed by the Council at such remuneration and at such other terms as it may think fit.
23. (a) The Executive Director shall carry out all his duties under the direction of the Council. He shall, unless exempted from the provisions hereof by the Council, devote his whole time to the business of the Academy and shall not engage in any other business or profession. He shall be in administrative charge of all the employees at the Headquarters and other offices of the Academy as may be established from time to time.  
  
(b) He shall be responsible for the conduct of all correspondence and office work of the Academy, he shall maintain Roll of all classes of members and of their addresses; he shall attend all meetings of the Council and shall have the business transacted thereat correctly and fully recorded; he shall superintend the

publications of the Academy; he shall have charge of the libraries of the Academy; he shall have charge of all the properties of the Academy save only the funds and moneys in the custody of the Bankers; he shall engage, subject to the approval of the Council, all persons employed under him and arrange their work and duties, and he shall generally conduct the ordinary business of the Academy in accordance with the Articles, the Rules and Regulations and the directions of the Council, and shall refer to the President any matters of importance requiring urgent decision.

- (c) The powers of the Executive Director shall be generally defined by the Council from time to time.

#### **GENERAL MEETINGS**

- 24. The General Meetings of the Fellows and Foreign Fellows shall be of the following classes
  - (a) The Annual General Meeting of Fellows and Foreign Fellows only for the business prescribed in the Rules and Regulations 25 (a).
  - (b) Special General Meeting of Fellows and Foreign Fellows for the purpose of:
    - i) Considering addition, amendment, rescission of the Rules and Regulations.
    - ii) Considering any resolution duly passed by the Council other than those in respect of addition, amendment or rescission of Rules and Regulations and requiring the confirmation of the Fellows and Foreign Fellows; and
    - iii) Considering the specific matters to be moved at such Special General Meeting pursuant to any requisition signed by not less than twenty Fellows and submitted to the Executive Director.
  - (c) Extraordinary General Meeting of Fellows and Foreign Fellows for any specific purpose relating to the directions and management of the affairs of the Academy.



#### **Annual General Meeting**

- 25 (a) i) The Annual General Meeting of the Fellows and the Foreign Fellows shall be held at such place as the Council shall determine, but not later than last day of the month of December every year. But if not held due to unavoidable reasons, the Council shall have the power to hold the Annual General Meeting in any other month, and the reasons for the postponement shall be announced at the Annual General Meeting.
- ii) The business of the Annual General Meeting shall be to receive the Audited Accounts of the Academy, and the Annual Report of the Council for preceding financial year, and report on the composition of the Council and to appoint Auditors and fix their remuneration.
- iii) List of the Council members, shall be furnished annually to the office of the Registrar under Section 4 of the Societies Registration Act 1860.

#### **Special General Meeting**

- (b) i) A Special General Meeting of the Fellows and Foreign Fellows may be called at any time by the Council at such place as the Council may decide for the purpose.
- ii) The Council shall also be bound to call a Special General Meeting whenever a requisition signed by at least twenty Fellows is made and delivered to the Executive Director, specifying the matter to be moved at such Special General Meeting to be issued within ninety days of the receipt of the requisition by the Executive Director. At such Special General Meeting only the special matters of which notice has been given or such questions as necessarily arise thereof shall be considered.

#### **Extraordinary General Meeting**

- (c) i) An Extraordinary General Meeting of Fellows and Foreign Fellows may be called at any time by the Council at such place as the Council may decide for the purpose.

- ii) The Council shall also be bound to call an Extraordinary General Meeting whenever a requisition signed by at least twenty Fellows is made and delivered to the Executive Director, specifying the matter to be moved at such an Extraordinary General Meeting to be issued, within ninety days of the receipt of the requisition by the Executive Director.
- 26. Notice of the making, amending or rescinding of any Rules and Regulations shall be published in an appropriate way as soon as it is reasonably practicable after the same shall have been passed in accordance with the provisions of the Articles and the Rules and Regulations.
- 27. At least twenty-five days notice shall be given of all General Meetings. This period of twenty-five days shall be inclusive of the day for which the notice is given. In the case of Special General Meeting and an Extraordinary General Meeting the instrument for appointing a proxy shall accompany the notice as described in Rules and Regulations 28.
- 28. Service of a notice shall be deemed to be effected by properly addressing pre-paying and posting the letter containing the notice. The accidental omission to give notice of a General Meeting to or the non-receipt of notice of such a meeting by any Fellow and Foreign Fellow entitled to receive notice shall not invalidate the proceedings of that meeting.

#### **PROCEEDINGS OF GENERAL MEETING**

- 29. The President, when present, shall be the Chairman at all General Meetings. In his absence one of the Vice-Presidents shall be Chairman at the meeting. If the President and all the three Vice-Presidents are absent, the Fellows and Foreign Fellows present at the meeting shall elect a Chairman from amongst themselves.
- 30. Thirty Fellows and Foreign Fellows shall form the quorum for Annual General Meeting, Special General Meeting and the Extraordinary General Meeting. No business shall be transacted at the General Meetings unless a quorum is present when the meeting proceeds to transact business.

31. If within thirty minutes after the time appointed for the Annual General Meeting, a Special General Meeting or an Extraordinary General Meeting, or at any point of time during the Annual General Meeting, a Special General Meeting or an Extraordinary General Meeting, the requisite quorum is not present, the meeting shall be dissolved and the Chairman with the consent of the meeting, and if so directed by the meeting, shall adjourn the meeting by half hour. The adjourned meeting shall be held at the same place on expiry of half hour and the Fellows present at the adjourned meeting shall form the quorum. No business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which adjournment took place. It shall not be necessary to give any notice of an adjournment or of the business to be transacted at an adjourned meeting.
- 32 (a) The members or the majority of such members present in person or by proxy and voting at any duly convened General Meeting of the Members with respect to which notice shall have been given of the matters to be taken into consideration thereat, shall have power, from time to time, to make such Rules and Regulations of the Academy as to them shall seem requisite and convenient for regulating, governing and advantage of the Academy and of its members and property and for the furtherance of the aims and objects of the Academy, and from time to time to revoke, alter or amend any Rules and Regulations theretofore made so that the same shall be reasonable and not repugnant to these Presents or to the Laws and Statutes of the Republic of India.
- (b) At all General Meetings of Fellows and Foreign Fellows, questions shall be decided according to the majority of votes property given thereat by show of hand:
- i) Unless a poll is, before or on the declaration of the results by the show of hands, demanded by atleast ten Fellows and/or Foreign Fellows present, provided no poll shall be demanded on the election of a Chairman or on a question of adjournment, and
  - ii) Unless instruments of proxy have been deposited with the Executive Director in accordance with the provision of Rules and Regulations 34 in which case due account shall be taken of them.

- (c) In case of an equality of votes the Chairman of the meeting shall, both on a show of hands and at a poll, have a casting vote. The acceptance or rejection of votes by the Chairman shall be conclusive for the purpose of the decision of the matter in respect of which the votes are tendered.
- 33. Votes may be given at a General Meeting of Fellows and Foreign Fellows either personally or by proxy. Each Fellow present in person or by proxy shall have one vote. No person shall be appointed a proxy to vote at any meeting who is not a Fellow or a Foreign Fellow entitled in his own right to vote at such a meeting.
- 34. The instrument appointing a proxy shall be deposited with the Executive Director not less than three days before the hour fixed for the meeting at which the person named in the proxy proposes to vote, but no instrument appointing a proxy shall be valid after expiration of three calendar months from its date.
- 35. A poll shall be taken by means of postal voting papers and shall be a poll of all Fellows and Foreign Fellows who at the time of despatch of such papers shall be entitled to receive notice of a meeting:
  - (a) When Fellows and Foreign Fellows demand it under the provisions of Rules and Regulations 32(b) (i); and
  - (b) When in its opinion, the Council considers it in the interest of the Academy that an appeal should be made on any question to the whole body of Fellows and Foreign Fellows.

The form and contents of the voting papers shall specify the subject matter to be voted upon and the date of return thereof, and shall be issued at least thirty days, exclusive of the day on which the papers are deemed to be issued, but inclusive of the day of return, prior to the date of return.

#### **MEMBERSHIP**

- 36. Unless and until the Rules and Regulations of the Academy shall otherwise provide, there shall be two classes of members of the Academy termed respectively as Fellows and Foreign Fellows. The

names and addresses of all members shall be entered on the Roll of the Academy.

#### **QUALIFICATIONS FOR MEMBERSHIP**

- 37 (a) The qualifications, method and terms of admission, privileges and obligations including liability to exclusion or suspension of Members of each of the said two classes shall be such as the Rules and Regulations for the time being of the Academy shall direct.
- (b) The Council shall alone have power to decide conclusively in respect of each person proposed for or seeking admission to any class of membership of the Academy whether he has or has not fulfilled such conditions as are applicable to his case.
- (c) Fellow and Foreign Fellow of the Academy shall be entitled to the exclusive use after his name of the abbreviated designation “FNAE”
- (d) The Academy shall elect Fellows and Foreign Fellows in different disciplines of Engineering in accordance with the provisions of Rules and Regulations 37 (e) and (f) on the basis of merit, achievements and contributions of the individuals nominated for election.
- (e) Every person for election as a Fellow or a Foreign Fellow shall satisfy the Council that he is engaged in the profession of engineering in a position of high responsibility and has attained eminence by virtue of his outstanding contribution in the field.

- (f) Persons for election as a Fellow (FNAE) shall be : (i) Indian nationals who have worked and/or maintained a regular position in India for the last five or more years and have significantly contributed to the engineering and technological field in India. (ii) Person of Indian origin holding Foreign Passport and OCI Card and is currently working in India continuously for the last 10 years or more (in the same or multiple organizations or be self-employed). (iii) Foreign national holding Foreign Passport must be presently working in India continuously for last 10 years or more (in the same or multiple organizations or be self-employed) and has made significant contribution to Engineering and Technology in India.

Persons for election as a Foreign Fellow shall be : (i) Person of Indian Origin holding Foreign Passport including OCI who has worked and/or maintained regular position in a foreign country for more than last five years at a stretch and has migrated abroad during last 5-15 years only. It is mandatory for other OCIs who have migrated more than 15 years back to be a Fellow of the Engineering Academy (or Science Academy, if an Engineering Academy does not exist in that country) of his/her country. (ii) Foreign national holding Foreign Passport who is working and living abroad and is already a Fellow of the Engineering Academy (or Science Academy, if an Engineering Academy does not exist in that country) of his/her country. (iii) Nominees for Foreign Fellowship preferably be less than 75 years of age.

- (g) The Council may elect a person of any nationality as a Fellow or Foreign Fellow as the case may be in special recognition of his outstanding contribution in the field of engineering or in special recognition of exceptional merit and eminence in new and developing fields of technology and engineering sciences and such election shall be announced at the next Annual General Meeting, provided, however, that number of persons so elected shall not be more than fifty at any point of time. A maximum of five exceptional eminent persons can be elected under the Rule in a year.

38. Notwithstanding anything contained in Rules and Regulations 37(e) and (f) the Foundation Fellows of the Academy shall consist of the signatories to the Memorandum of Association. In the first year 125 Fellows

shall be admitted to the Academy and thereafter not more than fifty Fellows and five Foreign Fellows shall be elected each year. However, in the case of Foreign Fellowship un-utilized vacancies only from the last year, if any, may be utilized to accommodate exceptional candidate in the current year.

Provided, however, that number of persons so elected shall not be more than one thousand two hundred at any point of time.

Provided, further that the total number of Foreign Fellows on the Roll at any point of time shall not exceed one hundred and twenty.

### **The Obligation to be Subscribed**

Every person elected a Fellow of the Academy shall, before his admission, subscribe the Obligation in the following words.

*“As a Fellow of the Indian National Academy of Engineering, I shall follow the code of ethics, maintain integrity in research and publications, uphold the cause of Engineering and the dignity of the Academy, endeavour to be objective in judgement, and strive for the enrichment of human values and thoughts”.*

(Signature)

### **OBLIGATIONS, RIGHTS AND PRIVILEGES**

- 39 (a) **Rights and Privileges:** Subject to the provisions of the Articles and to the restrictions contained in the Rules and Regulations, Fellows shall enjoy the following rights and privileges of the Academy:
- i) To be present and vote at all General Meetings.
  - ii) To propose and recommend candidates for Fellowship.
  - iii) To introduce visitors at the General Meeting of the Academy.
  - iv) To have personal access to the library of the Academy.

- v) To take out books, plates, drawing, manuscripts etc. from the library, subject to such Regulations as may be prescribed by the Council.
  - vi) To receive gratis copies of the Proceedings and Monographs of the Academy issued during the continuance of their Fellowship and of such other publications as the Council may decide from time to time and subject to the discretion of the Council, to purchase, at a reduced price, any of the Academy's publications.
  - vii) To fill any office in the Academy on being duly elected thereto subject, however, to the proviso that any Fellow appointed to any office in the Academy to which a salary or emolument is attached shall lose, for the time being, the privileges of voting.
  - viii) To offer papers and communications to be read before the meetings of the Academy.
- (b) Fellows living outside the territorial limits of India shall be entitled to the privileges contained in Rules and Regulations 39(a) (i), 39(a) (ii), 39(a) (iii), 39(a) (v), 39(a) (vi) and 39(a) (viii).
- (c) Foreign Fellows shall be entitled to the privileges contained in Rules and Regulations 39(a)(i), 39(a) (iv), 39(a) (vi) and 39(a) (viii).
- (d) Persons elected under the provisions of Rules and Regulations 37(g) shall be entitled to the privileges contained in Rules and Regulations 39(a), 39(b), and as may be applicable in their case.
40. The rights and privileges of every Fellow and Foreign Fellow shall be personal to himself as such and shall not be transmissible by his own act or by operation of law.

## **FINANCES**

- 41 The revenue of the Academy shall form the general funds of the Academy and all its property, income and effects, of whatsoever kind, are vested in the Council such for the furtherance of the aims and



objects of the Academy as defined in the Memorandum of Association.

42. Under no pretence whatever shall any such property income, revenue or effects of the Academy derived howsoever, be paid or transferred directly or indirectly by way of dividend or bonus or otherwise by way of profit to the members of the Academy except in the case or and as a salaried officer or employee of the Academy. Provided always that nothing herein contained shall prevent:
- (a) The payment by the Academy in good faith of reasonable and proper honorarium to any member of the Academy for any services rendered to the Academy.
  - (b) The payment by the Academy of interest on money lent to the Academy by any such member or reasonable or proper rent for premises demised or let by any such member to the Academy; or
  - (c) The giving by Academy to any such member of prizes whether in cash or otherwise and scholarships for the furtherance of the aims and objects of the Academy.
43. (a) The Council shall be at liberty:
- i) To vary the investments at their discretion either in fixed deposit or in short term deposit with one or more nationalised Banks as defined in Rules and Regulations 48 or in approved securities.
  - ii) To deposit all or any of the securities representing the Permanent Reserve Fund with the Bankers of the Academy and secure an overdraft of current account not exceeding Rs. 50,000/- at any time; and
  - iii) To spend any portion of the Permanent Reserve Fund in purchasing land, building, furniture, and equipment for the Academy.
- (b) Save as aforesaid, no portion of the Permanent Reserve Fund shall be alienated without the consent of the Fellows to be obtained by a Postal vote on which vote the majority shall be not less than three-fourths of the effective votes received.
- (c) The Council shall have the power to make from time to time such additions as they consider desirable to the Permanent

Reserve Fund from the general funds of the Academy and the provisions of the Rules and Regulations shall apply to these additions exactly as if they had formed part of the receipt required by the Rules and Regulations to be invested for forming that fund.

44. All the Securities and moneys forming the assets of the Academy shall be lodged with the Academy's Bankers in the name of the Academy. Any surplus funds not required for the current expenditure and not carried by the Council to the Permanent Reserve Fund shall be invested from time to time in short-term deposits or in fixed deposits with one or more nationalised Banks as defined in Rules and Regulations 48, or in one or more securities as per provisions of the Income Tax Act, 1961, as amended from time to time and no securities forming part of this fund shall be sold or otherwise disposed of except by order of the Council.
45. (a) The Academy shall keep proper books of accounts with respect to:
- i) All sums of money received and expended by the Academy and the matters in respect of which the receipt and expenditure take place;
  - ii) The assets and liabilities of the Academy.
- (b) For the purpose of Rules and Regulations 45(a) proper books of accounts shall not be deemed to be kept with respect to the matters specified therein if there are not kept such books as are necessary to give a true and fair view of the state of affairs of the Academy and to explain its transactions.
- (c) The accounts of receipts and payments shall be considered at regular intervals by the Council.
- (d) The accounts shall be audited once in a year by the Auditor/Auditors of the Academy to be appointed as per provision of Rules and Regulations 49.
- (e) The audited accounts of the preceding Financial Year shall be presented by the Council for the consideration of the Fellows at the Annual General Meeting and they shall comprise:
- i) Balance sheet as on the last day of March.

- ii) Income and Expenditure account for the year ended the last day of March and
  - iii) Separate accounts of Endowment and Trust Funds created for specific purpose.
- 46. (a) The short-term deposit accounts and the fixed deposit accounts shall be operated jointly by the Executive Director, and Vice-President (Finance and Establishment) or any one of the Fellows nominated by the Council.
- (b) No payments from the moneys or funds of the Academy shall be made except under the expressed or implied sanction of the Council, and all cheques for an amount above a value to be decided by the Council by a resolution shall be signed jointly by the Executive Director, and Vice-President (Finance and Establishment) or any one of the Fellows nominated by the Council. Cheques for amounts below the above value may be jointly signed by the Accounts Officer and Executive Director
- 47. The name of all persons who have made any voluntary contributions to the funds of the Academy shall be published in the Annual Report of the Council.

#### **BANKERS**

- 48. The Bankers of the Academy shall be one or more Nationalised Banks (as defined by the Reserve Bank of India Act, 1934) in India as may be determined by the Council.

#### **AUDITORS**

- 49. (a) At each Annual General Meeting shall be appointed one or more properly Qualified Auditor or Auditors to hold office until the next Annual General Meeting.
- (b) Every such Auditor or Auditors shall be a member of the Institute of Chartered Accountants of India; and shall hold a Certificate of Practice granted by that Institute.
  - (c) The Council may fill any casual vacancy in the office of Auditor to hold office until the next Annual General Meeting, but while

any such vacancy continues, the surviving or continuing Auditor or Auditors (if any) may act.

- (d) The remuneration of the Auditors shall be fixed at the Annual General Meeting at which they are appointed except that the remuneration of any Auditor appointed to fill any casual vacancy may be fixed by the Council.

### **NOTICES**

- 50. A notice may be served by the Council or the Executive Director upon any member of any class either personally or by sending it, whether as a separate communication or included in or with one of the publications of the Academy, prepaid through the post addressed to such person at his recorded address.
- 51. Any notice served personally or sent by post shall be deemed to have been served or delivered at the expiration of ninety-six hours after it was posted.

### **COPYRIGHT**

- 52. Each paper presented to the Academy and accepted for reading or publication in full or in abstract shall be the property of the Academy. The Council, in such cases as they may think fit, shall have power to release or surrender the rights of the Academy in respect of any such paper or the copyright thereof.

### **INDEMNITY**

- 53. Each member of the Council and the Executive Director shall be indemnified out of the funds of the Academy and to such extent as the Council shall approve from time to time against such costs, charges, damages, and expenses as he may sustain by reason of his acting in execution of the duties or powers imposed upon or given to him by the Articles or the Rules and Regulations.
- 54. Each member of the Council shall not be accountable and shall not incur any personal liability in respect of any loss or damage incurred

through any act, matter or thing done, authorised or suffered, being done in good faith for the benefit of the Academy although in excess of his legal power or incurred through any omission, error of judgement, or oversight on his part.

#### **COMMON SEAL**

55. The Council shall provide a Common Seal of the Academy. The Seal shall be in the custody of the Executive Director and be affixed to such document as in law are required to be sealed, but only in the presence of the President or a member of the Council. The Executive Director and the President or a member of the Council shall sign every instrument to which the seal of the Academy is so affixed.

#### **LEGAL PROCEEDINGS (Section 6 of the Act)**

56. The Academy may be sued in the name of President/Executive Director as per provision laid down under Section 6 of the Societies Registration Act, 1860 as applicable to Union Territory of Delhi.
57. Amendment/alteration, extension or abridgment of 'Purposes' aims and objects or change of name, under Sections 12 and 12A of the Societies Registration Act, the amendment shall be made under this section.

#### **DISSOLUTION AND ADJUSTMENT OF AFFAIRS**

58. If the Academy need to be dissolved it shall be dissolved as per provisions laid down under Sections 13 and 14 of the Societies Registration Act, 1860 as applicable to the Union Territory of Delhi.

#### **APPLICATION OF ACT**

59. All the provisions under all the Sections of the Societies Registration Act, 1860 as applicable to the Union Territory of Delhi shall apply to this Academy.

# **ORDINANCE**

## **ELECTION TO THE COUNCIL**

1. The election of the members of the Council shall take place as per the procedure prescribed below.
2. The term of the President will be two years and he will be eligible for re-election for another term of two years. The term of Vice-Presidents and elected members of the Council shall be for three years and they shall be eligible for re-election for another term of three years.

Those who have served in the Council for two consecutive terms or six consecutive years will not be eligible for re-election.

One out of three Vice-Presidents and three out of ten elected Members representing Engineering Sections to retire each year.

3. Nominations will be invited from the Fellowship in the month of April each year to fill the vacancies during that year for the offices of the President, three Vice-Presidents, Chief Editor of Publications and one-third members of the Governing Council. A Fellow can nominate only one person for each office from the list of eligible Fellows as per INAE Year Book. The last date of receipt of nominations would be 15<sup>th</sup> June.

The meeting of Search-cum-Selection Committee comprising of Past-Presidents will be convened to recommend the new President for approval of the Council prior to the Governing Council meeting scheduled in the month of August. The new President will be designated as President-elect from Sep 01 of that year and shall take over as President, INAE on Jan 01 of the following year. The President-elect will be invited as a special invitee in the Governing Council and other Committee meetings of INAE during the year.

Subsequently, the Search-cum-Selection Committee comprising of President, three Vice-Presidents and two special invitees from Fellowship will be constituted to consider the nominations received and recommend the new Vice-President, Chief Editor of Publications and one-third members of the Governing Council.

### **Members from Engineering Sections**

4. A Fellow may further nominate only one person from his/her Engineering Section to fill one of the ten vacancies.

5. The nominations shall reach the Executive Director by a date approved by Council every year. In case the declared date happens to be a Sunday or a closed holiday, the next working day will be the last valid date for the receipt of nominations in the office of the Academy.

#### **Election to the Council**

6. The out-going Council shall, no later than the last day of August or such later date as it may approve, elect a slate from amongst the nominations received, vide Paras 3 and 4, after due consideration to a balanced geographical distribution, organisational affiliation of the nominees and continuity. In a situation where no nomination or only one nomination is received, the Council will, on its own, nominate a suitable Fellow to fill up this vacancy. Further, while electing the slate, the Council will keep in mind the desirability of at least two office-bearers, who should be available at the office of the Academy at short notice for smooth functioning of the Academy. When the nominations are discussed at the next Council meeting, Members of the existing Council who are being considered for being an office bearer of the Council or a member representing an Engineering Section, shall not participate in the process of electing the slate.

The President, thereafter, shall announce the composition of the duly elected new Council.

7. The names of the members elected to the Council for the new term shall be announced at the Annual General Meeting of the Academy held during the INAE Annual Convention.
8. The new Council shall assume office after the Annual General Meeting on the first day of January of the next term or on the date of AGM if it takes place after the first day of January.

#### **Nominations to the Council**

9. The Vice-President (Fellowship, Awards & Corporate Communication) shall, every three years, no later than the first day of July, address a communication to the cooperating Academies, Department of Science and Technology, Ministry of Human Resource Development, ISRO, DAE, DRDO, Govt. of India, the All-India Council for Technical Education and Professional Societies to nominate their representative to the Council as provided in the Rules and Regulations 3(b) (v), (vi), (vii), (viii), (ix), (x), (xi), (xii), (xiii), (xiv), (xv) of the Academy. The names of the representatives of the



above Institutions shall be announced at the Annual General Meeting of the Academy and they will assume office as per para 8 above.

## **SECTIONAL COMMITTEES AND THEIR RESPONSIBILITIES**

1. The Council shall appoint, from amongst the Fellows of the Academy, Committees representing the several branches of engineering and called 'Sectional Committees'. The members of each Committee shall be chosen with a view to securing as far as possible, a representation of the several sub-divisions in each Engineering Section.
2. **Responsibilities**  
Each Sectional Committee shall advise the Council upon matters referred to it by the Council, and shall make to the Council such suggestions as it may think desirable touching the branch or branches of engineering which it represents such as :
  - (a) in connection with communications received from Government on engineering sciences of high policy
  - (b) subjects to be discussed by the Council so that the Academy can play its part in national development and planning;
  - (c) drawing up list of persons suitable for scrutinising papers submitted for publication;
  - (d) advising on the books and journals which should be added to the Academy's library;
  - (e) suggesting new engineering research problems of both fundamental and applied nature which the Academy should initiate in the national interest; and
  - (f) making such recommendations on the list of nomination circulated to the Sectional Committees by the Council as to the election of candidates for admission in the Academy as Fellows.
3. **Convener**  
The Council shall appoint a Member from each Committee to serve as Convener and to be the channel of communication between the Committee and the Council.
4. **Engineering Sections**  
The Engineering Sections shall be ten in number and referred to by number and not by name. The allocation of various disciplines under each Engineering Section shall be decided by the Council.

**Section-I (Civil Engineering)**

- Structural Engineering
- Construction Engineering
- Water Resources Engineering/Hydrology/Hydrodynamics/Irrigation & Drainage Engineering/Coastal Engineering/Ocean Structures/Port & Harbour Engineering
- Earthquake Engineering, Wind Engineering and Flood Control
- Geotechnical Engineering
- Transportation Engineering including Railways
- Architecture & Planning
- Surveying including Remote Sensing and other Techniques
- Agricultural Engineering
- Environmental Engineering

**Section-II (Computer Engineering and Information Technology)**

- Computer Software & Hardware including Algorithms and Data Structures, Programming Methodology and Languages, Database Systems, Parallel Processing, Operating Systems
- Artificial Intelligence & Soft Computing including Neural Networks, Genetic Algorithm & Quantum Computing
- Speech and Language Recognition
- Computer Vision, Image Processing and Pattern Recognition
- Automata Theory & applications

**Section-III (Mechanical Engineering)**

- Manufacturing and Forming Technologies including Advanced Processing Methods, Production Engineering, Industrial Engineering, Precision Engineering, Foundry and Casting Technology, Welding and Joining, Metrology, Machining.
- Thermal Science and Engineering including Thermo-dynamics, Combustion, Heat Transfer, Air-Conditioning & Climatic Control
- Design and Analysis of Solid, Thermal and Fluid Mechanical Systems (Machines, Structures and Devices) including Kinematics, Mechatronics & Robotics, Micro-Mechanical Systems (MEMS), Tribology
- Automobile Engineering, Naval Architecture & Marine Engineering
- Vibration Engineering, Acoustic and Noise
- Prime Movers
- Experimental and Computational Stress Analysis for Solids & Fluids

- CAD/CAM CIM

#### **Section-IV (Chemical Engineering)**

- Product/Process Development and Manufacturing Practices
- Unit Operations and Processes, Heat/Mass Transfer and Transport Phenomena, Process Control & automation, Process Modelling & Simulation, reaction Engineering and Catalysis, Microfluid and Fluid Dynamics, Property Evaluation, Chemical and Process Safety Analysis
- Corrosion, Electrochemical Engineering
- Chemical Technology including Oils, Paper, Petroleum, Leather, Pharmaceuticals, Textiles, Ceramics, Cement and allied fields
- Environmental Engineering of Chemical Systems
- Materials, Devices and Nanotechnology for Chemical Processes and Products

#### **Section-V (Electrical Engineering)**

- Power Systems including Generation, Transmission, Distribution and Control
- Electrical – Machines and Devices
- Power Electronics, Drives & Control Systems
- High Voltage & Insulation Engineering
- Electrical Energy Storage including Super Capacitors
- Electrical Traction

#### **Section-VI (Electronics and Communication Engineering)**

- Semiconductor Devices including Nanoelectronics, Microelectronics, Infotronics
- Communications including Analog, Digital, Wireless, Mobile, Underwater and Space Communication
- Optoelectronics & Optical Communications including Lasers & Holography
- VLSI and Embedded Systems
- Electromagnetics & Microwave Engineering
- Consumer Electronics
- Electronic Components

**Section-VII (Aerospace Engineering)**

- Aero & Space Dynamics
- Navigation Guidance & Control
- Aerospace Structures (Rocket Design, Missile Design, Satellite Design, Aircraft Design and Non-Destructive Evaluation (NDE/NDT, Composite Structures
- Space Transportation Systems including Launch Vehicle Design, Space Engineering
- Avionics, Systems and Instrumentation
- Helicopter Engineering including Design & Analysis
- Airworthiness and Safety of Aircraft/Helicopters/Missiles
- Flight Simulation & Flight Control
- Flight Operation & Maintenance

**Section-VIII (Mining, Metallurgical and Materials Engineering)**

- Mineral Exploration
- Metallurgical Engineering
- Metallurgy and Mineral Processing
- Engineering Materials (Metallic, Non-Metallic, Composites and Nanomaterials)
- Materials Characterization and Evaluation
- Mining Engineering

**Section-IX (Energy Engineering)**

- Conventional Energy
- Non-Conventional Energy
- Nuclear Engineering
- Renewable Energy (including Solar, Wind, Tidal, Hydrogen, Fuel Cells, Biomass, Biofuels, Geothermal, etc.)
- Non-Renewable Energy including Fossil Fuels
- Energy Audit & Management

**Section-X (Interdisciplinary and Special Engineering Fields and Leadership in Academia, R&D and Industry)**

- Mission mode engineering covering more than one section of Engineering as above
- Bioengineering/Technology relevant to Chemical Synthesis, Agriculture, Energy, Atmosphere, Food, Medicine and Medical Devices, Biophysics/Mechanics, Marine Resources, Molecular Biology, Ergonomics, Informatics, Forensics, etc.
- Biomedical Engineering
- Environmental Engineering Climate Change and Global Warming

- Waste Management Recycling
- Quality, Reliability & Safety Engineering
- Educational Technology
- Remote Sensing
- Industrial Management

NOTE : The above disciplines will also include Science and Technology

**Composition of the Sectional Committees**

5. Each Sectional Committee shall consist of not more than twelve members. 1/3<sup>rd</sup> of the total number of members from each Sectional Committee will retire each year. The process of retiral of 1/3<sup>rd</sup> of the Members of the Sectional Committees will be similar to that of the elected members of the Governing Council representing Engineering Sections. The tenure of the Sectional Committee shall be for three years. In selecting the members and Convener, the Council shall ensure that no Fellow serves in a Sectional Committee for more than six consecutive years.
6. In the event of the Convener or a member of the Sectional Committee being unable to perform the duties due to death, resignation or any other cause, or in the case of his prolonged absence from India for any reason, the Council shall appoint another member to fill the vacancy for the residual term provided such residual part is not less than two months.
7. The appointment of Fellows to serve as new members of the Sectional Committees shall be made by the Council prior to the date of the Annual General Meeting and the Sectional Committees shall assume office after the Annual General Meeting on the first day of January of the next term or on the date of AGM if it takes place after the first day of January.

## **ELECTION OF FELLOWS AND FOREIGN FELLOWS**

### ***FELLOWS***

#### **Notice for Election of Fellows**

1. A circular letter drawing attention to the Fellows of the Academy to the last date of March, on which nominations for Fellowship should reach the office of the Indian National Academy of Engineering, shall be issued by the first day of January every year along with nomination forms.

#### **Nominations**

2. Every nominee shall be proposed and seconded preferably by two Fellows of the Academy belonging to the same Discipline in good standing. The Vice-President (Fellowship, Awards & Corporate Communication) shall have the power to sign a certificate on behalf of a Fellow competent to sign for the particular discipline but not resident in India, on receiving a written request from him.
3. The nomination form shall specify the name, date of birth, field of specialization, designation, address (both official and residential), academic, engineering and professional attainments, including a list of publications and/or evidence of engineering achievements of the nominee, in a form prescribed by the Academy. A detailed critical analysis highlighting the most significant contribution and a citation shall also be included.
4. One copy of upto date list of national and international refereed publications in Journals during the last 10 years, including books authored or edited, and reprints of most significant publications during the past five years should be sent along with the nomination form. Alternatively, one copy of significant innovation in the developing fields of technology, application and design may be included.
5. The proposer shall send the Nomination Form to another Fellow who will second the Proposal and record his opinion on the nominee. The nomination Form shall be sent by registered post or may be handed over personally by a Fellow of the Academy to the Executive Director, Indian National Academy of Engineering to reach him no later than the last day of March. In case the last day of March happens to be a Sunday or a closed holiday, the next working day will be the last valid

date for the receipt of nominations in the Academy. The nominations along with list of publications, reprints and other documents, on being received at the office of the Executive Director, shall be recorded with the date of receipt in a book maintained for the purpose and read at the next meeting of the Council. The nomination forms shall be put up to the Vice-President (Fellowship, Awards & Corporate Communication) and his signature appended on the nomination form as token of receipt by the Academy.

6. All communications in respect of nominations shall be carried on with the proposer and/or seconder. However, for the purpose of updating information, regarding the research/engineering achievements and publications, the Academy may correspond with nominees directly.
7. Canvassing/lobbying for election to the Fellowship may lead to disqualification.

#### **Uploading of Details of Nominations on INAE Website**

8. No later than the seventh day of April, a list arranged in alphabetical order, sectionwise of the nominees will be uploaded on the INAE website and the link containing with all relevant details like significant research/engineering achievements of the nominee, names of Fellows by whom each person is proposed and seconded, the year in which the nomination was considered for the first time and the year of birth of the nominee will be forwarded to Fellows of the Academy. The soft copies of the Nomination Forms for Election of Fellows along with relevant details will be circulated to the Members of the Sectional Committees before the first meeting.

#### **Comments from Fellows**

9. Fellows may make such observations and comments as considered appropriate about the nominees and forward to the Conveners of concerned Sectional Committees.

#### **Comments by the Sectional Committees**

10. Prior to the first meeting of the Sectional Committees, the valid nominations for Election of the Fellows will be circulated to the Fellowship to seek their comments so as to facilitate the Sectional Committees in initial shortlisting.

A meeting of the Sectional Committee on a date mutually decided by the conveners would be held to initially shortlist the nominations received for consideration and the identify domain experts for “Peer



Review” of the nominations received under the categories of Academia, R&D and Industry & Engineering Services. The Sectional Committees will initially shortlist a minimum of adequate nominations received for Election of Fellows during the first meeting of the Sectional Committees. The particulars of the shortlisted nominations would be sent for “Peer Review” to the identified INAE Fellows for reviewing. Thereafter the second meeting of the Sectional Committees would be held wherein shortlisted nominations along with the “Peer Review Reports” would be deliberated. The Executive Director shall call meetings of the Sectional Committees giving the date and venue of the meeting. The Conveners of the Sectional Committees should contact all the Fellows of the respective Engineering Sections and obtain feedback from them through e-mail/phone.

#### **Participation of Sectional Committee Members**

11. The Conveners of Sectional Committees are also advised to contact the Sectional Committee Members and ensure their participation in the Sectional Committee Meetings. If it becomes known that for any unavoidable reasons, a member is not able to attend the meeting, the Convener may hold discussions with him/her sharing the response of the Fellowship and “Outside Experts” and advise him/her to convey final selections in order of merit to the Convener and the Vice-President (Fellowship, Awards & Corporate Communication). If it becomes known that one or more members of a Sectional Committee is/are unable to attend the meeting, the Convener shall arrange for co-opting appropriate special invitees from among the Engineering Sections with the approval of the President. The Sectional Committee members may nominate a nominee for Election to the Fellowship of the Academy. However, the member will not participate in the discussions during the selection process.

#### **Recommendations by the Sectional Committees**

12. The Sectional Committees shall give their recommendations on the suitability of nominees for election of Fellows to the Academy in the prescribed format. They shall set forth the list of nominees recommended in each “profession” in order of merit along with a brief note on the significant contributions of the nominees for final election by the Council. The report of the Sectional Committees shall be submitted by the Conveners to the Vice-President (Fellowship, Awards & Corporate Communication) in a “Confidential” cover after the meetings of the Sectional Committees.

**Compilation by the Secretariat**

13. The recommendations of the Sectional Committees shall be compiled by the Secretariat and placed before the Council at its meeting in October/November. The format will include :-

- (a) Names of nominees considered by different Sectional Committees.
- (b) Names of members of Sectional Committees present at the Sectional Committee meetings.
- (c) Names of absenting Members of the Sectional Committee who have sent their recommendations.

Conveners of the Sectional Committees, if not otherwise a member of the Governing Council, shall be invited to the meeting, as a special invitee.

**Election by the Council**

14. The Council shall, at its meeting consider the recommendations of the Sectional Committees including written comments, if any from the members of the Council not present, and elect Fellows not exceeding 50 in a year. Based on the suggestions regarding the Governing Council adhering to the order of priorities laid down by the Sectional Committees; the Governing Council may approve the nominations based on the collective decision wherein the Conveners of the Sectional Committees also form part of the selection process as special invitees.
15. The Council should keep in mind an equitable balance of Fellowship between the ten Sections so that one particular Section does not preponderate over others, but it shall not be obligatory for the Council to elect a certain fixed number of persons for election to Fellowship from each of the Section. The Council shall be free to elect a larger number for any Section, if there are more deserving persons in that Section and also not to recommend any, if in the opinion of Council, none is fit for election.

**Renewal of Nominations**

16. Any nominee whose name shall have been included in a previous list of nominees, but who shall not have been elected shall, unless his proposer or seconder withdraws his name before the first day of December immediately preceding an election, continue to be a

nominee at the election, and his name shall be placed in alphabetical order with those of the nominees added during the year. Such nominations shall be valid for three successive elections only. In case a nomination expires, a fresh nomination may be made only after a lapse of two years.

#### ***FOREIGN FELLOWS***

17. Any Fellow of the Academy and the Sectional Committees may nominate persons involved in “Engineering” whom they wish to be considered by the Council for election of Foreign Fellows and who are recognized similarly in their own country and have been associated with India in a significant way. Any of the two criteria required to be fulfilled for Election of Foreign Fellow to INAE are : (i) Persons of Indian Origin holding Foreign Passport including OCI who has worked and/or maintained regular position in a foreign country for more than last five years at a stretch and (ii) Foreign national holding Foreign Passport who is working and living abroad and is already a Fellow of the Engineering Academy (or Science Academy, if an Engineering Academy does not exist in that country) of his/her country. The nominations should be sent in writing in the prescribed form with a brief bio-data and the achievements of the persons proposed to reach the Vice-President (Fellowship, Awards & Corporate Communication) by the last day of March every year.
18. The nominations received for Election of Foreign Fellows will be processed by the Sectional Committees as per the procedure similar to the Election of Fellows laid down in Paras 8 to 12.
19. The Selection Committee for the election of Foreign Fellows will comprise the three Vice-Presidents and the Conveners of the Sectional Committees to which the nominees belong. The Senior Vice-President will chair the Selection Committee. During the Selection Committee meeting, the Conveners of the Sectional Committees shall make a presentation of the shortlisted nominations for Election of Foreign Fellows based on the deliberations during the two Sectional Committee meetings held for shortlisting of nominations for Election of Foreign Fellows. The Council at its subsequent meeting shall take into account the opinions of the Selection Committee and those of its Members who could not attend the meeting. The Council shall elect Foreign Fellows not exceeding the number prescribed in the Section 38 of the Rules and Regulations. Before a formal offer of conferring a Foreign Fellowship is made, the

President should informally ascertain the acceptance from the nominee after the Council has indicated its willingness to elect him as a Foreign Fellow of the Academy. The names of the nominees not elected as a Foreign Fellow, shall be kept for consideration for a period of three years.

20. The announcement of the Fellows/ Foreign Fellows elected shall be made at the Annual General Meeting of Fellows of the Academy or such later date as the Council may approve and shall be effective from the first day of November of the year of Election.
21. It shall be the aim of the Council to ensure that the nominations are distributed evenly as far as possible in different branches of engineering.

## **ENGINEERING EXCELLENCE AWARDS**

### ***LIFE TIME CONTRIBUTION AWARD IN ENGINEERING***

1. **Purpose of the Award**  
To recognise life time contribution in engineering made by eminent persons to any branch of engineering within the purview of the Academy.
2. **Eligibility**  
Any citizen of India who is not a Member of INAE Council during the year of the Award.
3. **Criteria**  
An eminent Indian citizen who has made outstanding contributions in the field of engineering/ engineering research/ engineering education/ technology/ engineering management which have brought prestige to the nation. The contributions may be in any discipline of engineering involving engineering projects which have been successfully executed and have been regarded as landmarks of technological development of the country.
4. **Number of Awards**  
Upto two Awards in a year. The Academy reserves the right not to recommend an award in any year.
5. **Nominations**  
Nominations will be invited from INAE Fellows by the second week of April each year. The nominations may be sent on plain paper with a brief statement of outstanding and distinguished contributions of the nominee. Self nomination of a person shall not be considered.  
  
Nominations shall remain valid for three years and renominations shall be accepted.
6. **Last date of Nomination**  
The date of receipt of nominations is 15th day of May each year.
7. **Selection for the Award**  
The Selection Committee under the Chairmanship of President with three Vice-Presidents as members will recommend two nominees for conferment of the subject Award to the Governing Council.

8. **Value of the Award**

The award shall consist of Rs.5 lakhs in cash and a citation

9. **Presentation of the Award**

The awardees will be requested to deliver a public lecture on an appropriate subject of their choice in any field of Engineering/ Engineering Research/ Engineering Education/ Technology/ Engineering Management at the Academy Annual Convention.

***PROFESSOR JAI KRISHNA MEMORIAL AWARD***

***AND***

***PROF. SN MITRA MEMORIAL AWARD***

1. **Purpose of the Award**

To institute awards in memory of late Prof. Jai Krishna, Foundation President and Prof SN Mitra, first Honorary Secretary, a Past Vice-President and a Foundation Fellow of the Indian National Academy of Engineering

(a) Prof Jai Krishna Award shall be given each year in the disciplines of Engineering Section I (Civil Engineering), Engineering Section III (Mechanical Engineering), Engineering Section IV (Chemical Engineering), Engineering Section VII (Aerospace Engineering) and Engineering Section VIII (Mining, Metallurgical and Materials Engineering)

(b) Prof S N Mitra Memorial Award shall be given each year, in the disciplines of Engineering Section II (Computer Engineering and Information Technologies), Engineering Section V (Electrical Engineering), Engineering Section VI (Electronics & Communication Engineering), Engineering Section IX (Energy Engineering) and Engineering Section X (Interdisciplinary and Special Engineering Fields and Leadership in Academia, R&D and Industry)

2. **Eligibility**

INAE Fellows who are eminent engineers, engineer scientists or technologists of high achievements and standing will be eligible for the subject awards. They are expected to have made contributions of a high order to Indian Engineering and Technology and acquired a high level of eminence and respect in the engineering community.

3. **Criteria**

The awards shall be given for one or more of the following :

- (a) Academic and scholarly achievements in any discipline of Engineering and Technology,
- (b) Outstanding research in engineering and technology and application thereof,
- (c) Outstanding contributions in the management of education and research in Engineering,
- (d) Outstanding achievements and contributions in the Indian industry, engineering services or engineering projects.

4. **Nominations**

Nominations of engineers, engineer-scientists and technologists will be invited from the INAE Fellowship by the second week of April every year in the fields of Engineering, Technology, and Technical Education Management. The nominations may be sent on the prescribed proforma which includes a statement of the distinguished achievements and contributions of the nominee. The last date of receipt of nominations will be 15<sup>th</sup> day of May each year.

5. **Validity**

The nominations shall remain valid for three years and renominations shall be accepted.

6. **Selection for the Award**

The Selection Committee under the Chairmanship of President with three Vice-Presidents as members will recommend one nominee each for conferment of Prof. Jai Krishna Memorial Award and Prof. SN Mitra Memorial Award for approval of the Council.

7. **Value of the Award**

The Award shall carry Rs.2 lakhs in cash and a Citation.

## ***INAE OUTSTANDING TEACHERS AWARD***

### **1. Purpose of the Award**

To recognize and honour teachers in Indian Colleges, Universities, and Institutions, who have provided guidance and inspired students to take up careers in Engineering and Technology.

### **2. Eligibility**

The teacher should not be a Fellow of INAE and be nominated by two Fellows of INAE. The nominee should be below the age of 60 years on the year of nomination and selection.

### **3. Criteria**

The nominee must be serving in a teaching institution in India at least for the last 10 years continuously. Primarily teaching contributions should be considered. The nominee should enjoy very high reputation in teaching (theory and practical) for a long period including creating a new course or discipline. The nominee should have made significant contributions through : (i) Writing new text or reference books and chapters; (ii) Developing innovative laboratory experiments and experimental facilities; (iii) Supervising students at various levels who have excelled in engineering profession; (iv) Delivering lectures in India and abroad to popularize a subject domain; (v) Developing online courses, demonstration modules and tutorials hosted in public domain virtual platforms; (vi) Contributing to creation of databases, handbooks and manuals and (vii) Patronizing student activities of various forms and utility. The nominee should have collaborated with industry or R&D organization to supervise sponsored projects and develop new technology.

### **4. Number of Awards**

There will be a maximum of TWO such awards per year. One award will cover the disciplines of Civil Engineering, Mechanical Engineering, Chemical Engineering, Aerospace Engineering and Mining, Metallurgical and Materials Engineering. The other award will cover Computer Engineering and Information Technology, Electrical Engineering, Electronics and Communication Engineering, Energy and Interdisciplinary and Special Engineering Fields and Leadership in Academia, R&D and Industry.

### **5. Nominations**



Nominations will be invited from the Fellowship of the Academy. The nominee should be a Fellow of INAE and nominated by two Fellows of INAE. A Fellow may forward only one nomination in a year. The nominations on the prescribed format should reach the Academy by May 15 of each year. Those Fellows who have already received the INAE Life Time Contribution Award in Engineering, or, Prof Jai Krishna Memorial Award/Prof SN Mitra Memorial Award or are members of the Selection Committee for Life Time Contribution Award in Engineering, Prof Jai Krishna Memorial Award, and Prof SN Mitra Memorial Award, or, the Governing Council should not be nominated. The Selection Committee may also suggest additional nominations from the Fellowship, other than the nominations received, for consideration of the award.

**6. Validity**

The nomination will remain valid for three years.

**7. Value of the Award**

The awardees shall receive a scroll, a cash award of Rs. 1.0 lakh and a one time book grant of Rs.25,000/-.

### ***INAE WOMAN ENGINEER OF THE YEAR AWARD***

**1. Purpose of the Award**

To recognize and honour deserving women engineers, every year, who have made outstanding contributions to any field of engineering and technology in India and may serve as role models to budding women engineering professionals in the future.

**2. Eligibility**

Woman engineers working in India, between the age of 40 to 60 years. The award is to be bestowed on an individual only, who should be citizen of India. The nominee should not be an INAE Fellow.

**3. Criteria**

Contributions by a woman engineer, who has made a significant difference in any branch of engineering and technology by way of breakthrough innovation and disruptive change in different fields of engineering and have helped to advance the knowledge and competence to the benefit of the profession and people in India.

**4. Number of Awards**

INAE will honour three women engineers, each year – one from each of the three categories, (i) Academia (ii) Industry and (iii) R&D.

**5. Nominations**

Nominations will be invited from INAE Fellows and the nominations may be sent on plain paper with a brief statement of outstanding and distinguished contributions of the nominee as per Nomination Format. Self-nomination of a person shall not be considered. The nominations will remain valid for three years. The nominees can be re-nominated after a cooling period of two years. The nominations for the award will be invited every year. The nominations for the award should be nominated and seconded by the Fellows of the INAE only.

**6. Last date of Nomination**

The date of receipt of nominations is 15th day of May each year.

**7. Selection for the Award**

The Selection Committee for Life Time Contribution Award in Engineering/ Prof Jai Krishna and Prof SN Mitra Memorial

Awards and INAE Outstanding Teachers Awards under the Chairmanship of President with three Vice-Presidents as members will recommend one Woman Engineer from each of the three categories, (i) Academia (ii) Industry and (iii) R&D to the Governing Council.

**8. Value of the Award**

The award carries a cash award of Rs. 2 lakhs and a citation

**9. Presentation of the Award**

The awards will be presented during the Academy Annual Convention.

### ***YOUNG ENGINEER AWARD***

1. **Purpose of the Award**  
To recognize outstanding achievements/contributions made by Young Engineers with strong potential for future professional growth impact in any branch of engineering.
2. **Eligibility**  
Any citizen of India not older than 35 years holding the first tertiary degree in engineering/technology as on 1st of January of the particular year of the award.
3. **Criteria**  
Evidence of excellence in engineering research, product/process, design, technology development and transfer specific contribution submitted for consideration of the Award should have been carried out in India.
4. **Number of Awards**  
Not more than fifteen awards in a year
5. **Nominations**  
Nominations are invited from young engineers working in academia, R&D laboratories and industry. The sponsor must be either a Fellow of INAE or Head of the Organization/ Institution where the nominee is working. The nominations are to be sent on A-4 size paper in the prescribed format which may also be downloaded from INAE website ([www.inae.in](http://www.inae.in)). A scanned soft copy of the completed proforma may also be sent by email to [inaehq@inae.in](mailto:inaehq@inae.in) by 31<sup>st</sup> March each year, prior to posting one original hard copy to INAE Office, Gurgaon by Speed Post/Courier.
6. **Recommendations by the Sectional Committees**  
A meeting of the Sectional Committee on a date mutually decided by the Conveners would be held to initially shortlist the nominations received for Young Engineer Award along with the nominations for election to INAE Fellowship. The particulars of the shortlisted nominations would be forwarded for “Peer Review” to the four experts, two experts mentioned in the Nomination Form and two additional experts recommended by the members of the Sectional Committees. Thereafter, during the second meeting of the Sectional Committees for recommendation of candidates for consideration by the Council for election to INAE Fellowship; the shortlisted

nominations for Young Engineer Award along with the “Peer Review Reports” would also be deliberated. Each Sectional Committee will shortlist a maximum of four candidates, to be called subsequently for making presentations before the Selection Committee.

7. **Validity**

A nomination is valid for one year only. A candidate may be nominated for three times in total subject to his/her age not exceeding 35 years.

8. **Presentation of work by the Candidates**

The short-listed nominees will be invited to make a presentation of half-hour duration of their work on such date(s) as announced, to the Selection Committee of the Council.

The Selection Committee will recommend the nominees with a brief on each nominee duly signed by all the Members present. Towards the end of the meeting, the recommendations of the Committee shall be handed over in a sealed envelope addressed to the Executive Director.

9. **Selection Procedure**

The Award is instituted to identify, recognize and encourage young and promising talents in India who have made and are likely to continue to make outstanding contributions impacting engineering research and design, technology development and transfer. The short-listed nominees will be invited to make a presentation followed by an interaction with the Selection Committee on dates to be announced later.

10. **Value of the Award**

The Award shall consist of a cash prize of Rs.1 lakh and a citation. All INAE Young Engineer Awardees will also become INAE Young Associates on the conferment of the Award and shall continue to be “INAE Young Associates” till attaining 45 years of age. The decision of the INAE Council in all concerned matters shall be final.

11. **Presentation of the Award**

The awardees will be invited for the INAE Annual Convention being held in December each year, wherein the presentation of the Award will be made by the President, INAE and they would also be inducted as INAE Young Associates. The awardees will also make brief presentations during the Academy Annual Convention.

## ***INAE YOUNG INNOVATOR & ENTREPRENEUR AWARD***

### **1. Purpose of the Award**

The INAE young Entrepreneur Award is instituted to encourage and recognize innovation and entrepreneurship among Young Engineers. The engineering innovations/inventions/concepts that have been actually realized and implemented in industry either in new processes or products would be given preference.

### **2. Eligibility**

Any citizen of India not older than 45 years as on the 1st of January 2019.

### **3. Criteria**

Both innovation and entrepreneurship together would be considered important and young innovators from Academia/Research organization or Industry whose novel engineering/technology ideas have been translated into successful startup enterprises would be given preference.

### **4. Validity**

A nomination is valid for one year only. In case candidate is not selected during the year, there is no provision for nomination to be carried forward for the next year. However, re-nomination for the same technology development is permitted for a maximum of three times. There is no restriction on the same candidate being nominated for another product.

### **5. Call for nominations**

The nominations would be sought from Fellows/ CEOs/ Directors/Heads of industry, R&D organizations, Engineering institutions and Departments. Self-nomination is not permitted.

### **6. Last Date for Nomination**

The last date of receipt of nominations is **June 30 each year**.

### **7. The Award**

The award would carry a citation and a cash prize of Rs 2 lakhs to

the selected individual candidate or to be shared by the group of individuals not exceeding three persons. Upto four awards would be given every year.

#### **8. Selection Procedure**

There would be a two-tier selection process wherein the initial shortlisting would be done by the Selection Committee. The shortlisted candidates would be then called for presentation to the Selection Committee. The Selection Committee would recommend the nominee for conferment of the Innovator Entrepreneur Award. In case no nomination is found suitable, no award would be conferred during that year.

#### **9. Presentation of the Award**

The awardees will be invited for the INAE Annual Convention being held in December each year wherein they would be conferred with the Award and may be invited to make the presentation of their work.

### ***INNOVATIVE STUDENT PROJECTS AWARD***

1. **Purpose of the Award**

Innovative indigenous technologies can provide the cutting edge for development and global competitiveness. Therefore, R&D culture must be encouraged during the formative years of graduate and postgraduate training of the future engineers so that they begin their professional career well prepared with ideas and innovative skills. The Award recognizes innovative and creative projects and theses of students and research scholars in engineering institutions, since an early recognition of merit and talent can often mark the beginning of a brilliant career.

2. **Eligibility for the Award**

Projects/Theses with innovative potential are assessed for awards separately at three levels, B.E./B.Tech., M.E./M.Tech., and Ph.D. according to the following eligibility requirements :

- (i) B.E./B.Tech/ B.Sc.(Engg) projects completed upto June 30 in the academic year ending during the year of the Award.
- (ii) M.E./M.Tech/M.S. theses examined upto June 30 of the year of the Award.
- (iii) Ph.D. theses examined and accepted/recommended upto May 31 of the year of the Award.

***It is compulsory that Degree/Provisional Certificate must accompany the nomination proforma.***

3. **Criteria for Award**

Innovative, creative and idea-driven elements of projects/theses which have potentials for technology development in the industry, service and other sectors of economy.

4. **Number of Awards**

Upto ten awards for Ph.D. theses, ten for M.E./M.Tech theses and upto ten for B.E./B.Tech projects.

5. **Nominations**

One nomination for projects/theses in each of the major engineering sections of INAE at the three levels, viz., Doctoral, Master's and Bachelor are invited from Deans/Heads of Engineering College/Departments for assessing their innovative potential and intrinsic merit. The nominations in the prescribed form should reach



the Academy by July 7.

6. **Recommendations by the Steering Committee**

A Selection Committee with a senior Fellow as Chairman and experts from each major field of Engineering will be constituted by the President of the Academy. The Selection Committee in its first meeting will short list the projects/theses based on the assessment of summaries of the projects/theses received along with nominations.

7. **Presentation of work by the Candidates**

The project reports/theses in respect of short-listed nominations, will be obtained from the respective Institutions for detailed evaluation by the Selection Committee. The short-listed nominees will be invited to make a presentation of durations of 12 min (at Doctoral level) and 9 min (at Master's level) and 7 min (at Bachelor level) of their work on such date(s) as announced, to the Selection Committee of the Council. The Selection Committee will recommend the nominees with a brief on each nominee duly signed by all the Members present. Towards the end of the meeting, the recommendations of the Committee shall be handed over in a sealed envelope addressed to the Executive Director.

At the subsequent meeting of the Council, the Chairman of the Selection Committee will present the recommendations of the Committee for consideration and selection of the awardees by the Council.

8. **The Award**

The Award shall comprise a citation and Rs.25000/- in cash for selected Ph.D. theses; Rs.15000/- in cash for selected Master's theses; and Rs. 10,000/- in cash to each team member of the selected project at Bachelor level, subject to a maximum of four team members.

9. **Announcement of the Award**

The names of the awardees shall be announced at the Annual Convention of the Academy.

10. **Presentation of the Award**

The presentation of the Award will be made by the President INAE at the Annual Convention of the Academy. The Academy will bring out a publication containing the contributions made by the Awardees for distribution during the Academy Annual Convention.

## ENGINEERING RESEARCH SCHEMES/PROGRAMS

### *INAE SATISH DHAWAN CHAIR OF ENGINEERING EMINENCE*

1. **Objectives**  
To enhance the visibility of the Academy in the policy fora so as to facilitate future growth of the nation in the engineering domain.
2. **Eligibility**  
Eminent engineers who have contributed to some aspect of nation building. The Chair can be awarded to an individual only once.
3. **Number of Positions**  
Only one Chair to be awarded each year and should be restricted to one at any point of time.
4. **Criteria**  
The principal criterion of selection will be that the person of eminence in consideration should be active in a leadership role in an engineering field at the time of selection
5. **Tenure**  
The award will be for a tenure period of minimum one year and maximum two years. No extensions beyond two years will be given.
6. **Value**  
The award will comprise of a monthly honorarium of Rs 1.5 lakhs and a contingency Grant of Rs 2 lakhs per annum for incidental expenditure including travel per Chair to be released on reimbursement basis.

## ***THE INAE CHAIR PROFESSORSHIP***

### **1. Objectives**

INAE Chair Professorship has been instituted in order to encourage engineers/technologists with outstanding research contributions, promote long-term participation in academic research and enhance the research standards in academic institutions.

### **2. Eligibility and Age**

- i) The Award shall be conferred on INAE Fellows, between the ages of 45 and 65 years, working in well-recognized academic institution or research organization or industry in India.
- ii) Should have been a Fellow of the Academy for at least 5 years
- iii) Should have been in the Rank of Professor in academic institutions or equivalent to the rank of professor either in R&D organisation or in engineering industry/ organizations.

### **3. Number of Positions**

Total number at any given time shall not exceed seven.

### **4. Tenure**

The INAE Chair Professorship shall be tenable for a maximum period of two years.

### **5. Value**

The Chair Professor will continue to draw his salary from the parent institution. An honorarium of Rs 25000/- per month shall be paid to the INAE Chair Professor by INAE. In addition, a contingency amount of Rs 50,000/- per annum shall be provided for meeting expenditure related to research activities such as chemicals, consumables, materials, repair of equipment and instruments; on reimbursement basis at the end of each year.

### **6. Operation of the Scheme**

- a. Applications under this Scheme shall be invited from the Fellows of the Academy. Applications complete in all respects will be sent through the Head of the institution where the Fellow intends to work, along with Certificate of Support to INAE office by February 10 each year.
- b. Funds will be made available by INAE to the sponsoring institution.

- c. The INAE Chair Professor shall submit Utilization Certificate along with Statement of Expenditure by March 15 each year, for release of grant for the next year.
- d. The INAE Chair Professor shall submit the Annual Report of the work done on the stipulated format by second week of April covering the period upto March 31 of each year, to INAE office.

**7. Interactions/Obligations**

All patent rights, designs and inventions derived from the research work funded or aided by the Indian National Academy of Engineering shall be governed by the rules of the institution(s) concerned.

***INAE DISTINGUISHED PROFESSORS/TECHNOLOGISTS***

**1. Objective**

The objective of this Scheme is to utilize the expertise of INAE Fellows after superannuation primarily for research in institutions/universities/Research & Development establishments, and industry in India.

**2. Eligibility and Age**

- i) Superannuated Fellows of INAE below 70 years of age are eligible for consideration.
- ii) Should have been a Fellow of the Academy for at least 5 years
- iii) Should have been in the Rank of Professor in academic institutions or equivalent to the rank of professor either in R&D organisation or in engineering industry/organisations
- iv) Should have superannuated within the last 5 years

**3. Number of Positions**

The maximum number at any time shall be limited to ten.

**4. Tenure**

The term of the INAE Distinguished Professors/Technologists will be for a maximum period of three years or upto 70 years of age.

**5. Value**

An honorarium of Rs 50000/- per month shall be paid to the INAE Distinguished Professor/Technologist by INAE. In addition a contingency amount of Rs 50000/- per annum shall be provided for meeting expenditure related to research activities such as chemicals, consumables, materials, repair of equipment and instruments; on

reimbursement basis at the end of each year. INAE Distinguished Professors/Technologists can approach other funding agencies for sanction of Research Schemes to support their research activities.

**6. Operation of the Scheme**

- a. Applications under this Scheme shall be invited from the Fellows of the Academy. Applications complete in all respects will be sent through the Head of the institution where the Fellow intends to work, along with Certificate of Support to INAE office by Feb 7 each year.
- b. Funds will be made available by INAE to the sponsoring institution.
- c. The Distinguished Professors/ Technologists will comply with the leave rules of the host institution.
- d. The Distinguished Professors/ Technologists shall submit Utilization Certificate along with Statement of Expenditure by March 15 each year, for release of grant for the next year
- e. The Distinguished Professors/ Technologists shall submit the Annual Report of the work done on the stipulated format by second week of April covering the period upto March 31 of each year, to INAE office
- f. Besides the Annual Report, a formal document collating the entire work done during the tenure is to be brought out by the INAE Distinguished Professors/Technologists at the end of their tenure. Such document could also contain a narration of potential applications as well as the directions in which further research will be appropriate.
- g. The Distinguished Professors shall make a presentation of their research work to the Steering Committee on completion of two years.

**7. Interactions/Obligations**

- a. INAE Distinguished Professor/Technologist is allowed to take up sponsored research and consultancy within the norms of the host institute.

- b. The scheme will stand terminated from the date the INAE Distinguished Professor/Technologist accepts paid position elsewhere.
- c. After completion of the tenure of INAE Distinguished Professor/Technologist, the awardees shall handover all permanent equipments purchased through the contingency funds to the host institution where the work was undertaken.

#### ***MENTORING OF ENGINEERING TEACHERS BY INAE FELLOWS***

1. **Objective**

The objective of the Scheme is the mentoring of Engineering Teachers by INAE Fellows.

2. **Eligibility**

Motivated Engineering Teachers from recognized Engineering institutions are eligible under this scheme. The Mentor and the Engineering Teacher should not be from the same engineering institution, though they can be from two different institutions located in the same station. The upper age limit of the Engineering Teacher being mentored is 45 years.

Engineering teachers from unrecognized private engineering colleges/institutions are not eligible for mentoring.

A Fellow can mentor up to two engineering teachers who will not be from the same institution/college/university/organization.

3. **Duration**

The period of mentoring is for any 2 months during the academic year.

4. **Value**

The Scheme provides for second AC train fare by mail/superfast express train and an amount of Rs. 40,000/- towards the living, local conveyance and incidental expenses for each outstation Engineering Teacher being mentored. An Adhoc amount of Rs 5000/- will be paid to the Engineering Teacher being mentored where mentor and mentee are located in the same station. The payment will be made at the end of the mentoring period. A contingency grant of Rs 10,000/- in a year will also be provided to each mentor.

5. **Number of Positions**

A maximum of 25 Engineering Teachers shall be mentored each year. Each Fellow can mentor a maximum of two engineering teachers.

6. **Operation of the Scheme**

Applications for mentoring of Engineering Teachers by INAE Fellows will be invited on the prescribed formats by Feb 10 each year.

After scrutiny of the above applications, the candidates will be selected by the Steering Committee and the concerned INAE Fellows (Mentors) will be informed, who in turn will intimate the concerned Engineering Teachers suitably.

On completion of mentoring period, a Report by the Engineering Teacher and bills for travel expenditure and honorarium shall be submitted to INAE Office duly signed by the Mentor and the payment to the Engineering Teacher and the contingency grant to the Mentor will be made.

***MENTORING OF ENGINEERING STUDENTS BY INAE FELLOWS***

1 **Objective**

The objective of the Scheme is the mentoring of bright B. Tech./B.E. students by Fellows of INAE.

2 **Eligibility**

Meritorious 3rd /4th year B.E./B. Tech students from recognized Engineering institutions are eligible under the scheme. The Mentor and the Engineering Student should not be from the same engineering institution, though they can be from two different institutions located in the same station. Candidates from any institutions/engineering colleges securing minimum 75% marks or minimum 7.5 CGPA only, are eligible for consideration for mentoring by INAE Fellows.

Engineering students from unrecognized private engineering colleges/institutions are not eligible for mentoring.

A Fellow can mentor up to two engineering students who will not be from the same institution/college/university/organization.

3 **Duration**

The period of mentoring is for any 2 months during the academic year.

4     **Value**

The Scheme provides for second class sleeper train fare and a stipend of Rs. 20,000/- towards the living, local conveyance and incidental expenses to each outstation Engineering Student being mentored, to be paid in one instalment at the end of the mentoring period. An Adhoc amount of Rs 5000/- will be paid to Engineering Student being mentored where mentor and mentee are located in the same station. A contingency grant for mentoring of Rs 10,000/- in a year will also be provided to each mentor.

5     **Number of Positions**

A maximum of 60 Engineering Students shall be mentored each year. Each Fellow can mentor a maximum of two engineering students.

6     **Operation of the Scheme**

Applications for mentoring of Engineering Students by INAE Fellows will be invited on the prescribed formats by Feb 10 each year.

After scrutiny of the above applications, the candidates will be selected by the Steering Committee and the concerned INAE Fellows (Mentors) will be informed, who in turn will intimate the concerned Engineering Students suitably.

On completion of mentoring period, a Report by the Engineering Student and bills for travel expenditure and honorarium shall be submitted to INAE office duly signed by the Mentor and the payment to the Engineering Student and the contingency grant to the Mentor will be made.



## **LOCAL CHAPTERS**

1. The Council may authorise formation of Local Chapters of the Academy at places where ten or more Fellows reside within the geographical location. The Chapters will operate in accordance with the Memorandum of Association, Rules and Regulations of the Academy and Ordinances as framed by the Council from time to time.
2. The Council shall lay down the geographical jurisdiction of each Centre where Fellows reside within its boundary and shall be affiliated to that Chapter.
3. The Chapters shall elect from amongst the Fellows affiliated, a Chairman and an Honorary Secretary. The chapters may also coopt other Members as deemed appropriate to form the Executive Committee for its smooth functioning. The term of the Executive Committee shall ordinarily be for three years, after which a new Committee will be formed. The election of the Committee should be completed latest by the last day of December of the year.
4. The term of the Executive Committee shall commence from 1<sup>st</sup> January of the year following the election. The Chapters should give their views on matters pertaining to engineering and technological policy in the country. The Chapters at its first meeting will draw a detailed programme of proposed activities for the year and inform the Fellows attached and the Council. The Chapters will have interlinkages with other local Academies, learned Societies, R&D, Universities, Industry and others to have meaningful participation between these Institutions and the Indian National Academy of Engineering. The Chapters should take up issues of specific concern of local interest and organise workshops, lectures, symposia etc. The Chapters may also appoint special Committees and/or Groups of experts to carry out related activities.
5. The Chapters should bring out Reports, Newsletters, Honours, Distinctions and Awards conferred on Fellows and information on significant engineering and technological interest. These Reports should be sent quarterly to the Academy for publication in the INAE Newsletter.
6. The Chapters should act as 'search forums' to identify young engineers who have excelled in engineering research, innovation and

technological development and encourage them to participate in their activities.

7. Fellows affiliated to Chapters shall nominate as many suitable persons from the spectrum of engineering profession for the Fellowship, Research Fellowship, Professorship, Awards, etc. to the Academy Secretariat.
8. The Chapters will keep a record of the meetings, activities etc.. They shall also keep proper books of accounts with respect to monies received and expended including assets and liabilities. They shall prescribe to the relevant Rules and Regulations of the Academy in force. The certified/audited statement of accounts for the financial year ending should be submitted to the Secretariat by last day of June.
9. The Council will, as considered appropriate, fund the activities of the Chapters. The Chapters on their own will also generate resources through organised meetings, lectures, workshops etc. The Chapters shall refund any surplus of monies received while retaining reasonable amount of working capital with them.
10. The Chapters shall not be entitled to retain surplus funds arising from Academy Symposia/Seminars etc. which take place in their region and shall not be liable for any shortfall resulting therefrom.
11. Return by Ist Class/II AC rail fare will be admissible to all outstation Fellows attending the meetings of the Chapters. For local Fellows, the expenditure incurred on conveyance either in own or public transport will be reimbursed as per the rates decided by the Chapters.
12. The Chapters will forward to the Council a full report of the activities by mid November for inclusion in the Annual Report of the Academy.