



**Z.H. College of Engineering & Technology, Aligarh Muslim  
University, Aligarh**  
Aligarh Muslim University, Aligarh-202002, UP,

---

**Technical Education Quality Improvement Programme [TEQIP]-Phase III  
Consultancy Services for NPIU-GATE Training  
Expressions of Interest**

The Government of **India** has *applied for/availed* a credit/loan from International Development Association (IDA), and the International Bank for Reconstruction and Development (IBRD) and intends to apply part of the loan/credit proceeds to make payments under the contract for the following services:

**Consultancy for NPIU-GATE Training**

The **Technical Education Quality Improvement Programme[TEQIP]-Phase III** Project now invites eligible Consultants to indicate their interest in providing the services. A Consultant will be selected in accordance with the procedures set out, in the World Bank's Guidelines: Selection of Employment of Consultants by World Bank Borrower (current edition). Interested Consultant may submit "Expression of Interest" in a sealed envelope clearly superscripted as Expression of Interest for " **NPIU-GATE Training** and may obtain further information about the services, procedures for submitting the EOI etc. at <https://www.amu.ac.in>

Consultants may associate other Service Providers to enhance their qualifications/skills. Expressions of Interest must be delivered to the address below on or before dated 29<sup>th</sup> October, 2018.

**For details of the qualification criteria refer tender section of [www.amu.ac.in](http://www.amu.ac.in) under the title "Consultancy Services for NPIU-GATE Training TEQIP-III, Z.H. College of Engg. & Tech. (TEQIP-III/zcet/206)"**

**Prof. M.M. Sufyan Beg, Principal  
Z.H. College of Engineering & Technology,  
Aligarh Muslim University, Aligarh-202002, UP,  
Tel: 0571-2700042  
E-mail: [principal\\_zhcet@yahoo.co.in](mailto:principal_zhcet@yahoo.co.in)**

**SELECTION OF CONSULTANTS BY THE BANK'S BORROWERS**  
**REQUEST FOR EXPRESSIONS OF INTEREST**

Country: India

Project Name: **Technical Education Quality Improvement Programme[TEQIP]-Phase III**

METHOD OF CONSULTING SERVICES

Credit.: **Cr. 4685-0 IN**

Expressions of Interest

The Government of India has received a Credit 4685-IN from the International Development Association and it is intended that part of the proceeds of this credit will be applied to eligible payments under the contracts for **Technical Education Quality Improvement Programme[TEQIP]-Phase III**.

The services include *NPIU-GATE Training*

Consulting Services: **NPIU-GATE Training**

Brief Description: **NPIU-GATE Training**

Organization: **Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh**

Implementation Period: 2018-19

The **Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh** now invites eligible consultants to indicate their interest in providing the services. Interested consultants must provide information indicating that they are qualified to perform the services (brochures, description of similar assignments, experience in similar conditions, availability of appropriate skills among staff, etc.). Consultants may associate to enhance their qualifications.

A consultant will be selected in accordance with the procedures set out in the World Bank's *Guidelines: Selection and Employment of Consultants by World Bank Borrower* (current edition).

Short-listing Criteria

1. The approximate number of students for each of the disciplines is mentioned above.
2. The training in each discipline shall be on specific subject as decided by the institute and therefore SP will provide the number of hours required to cover those subjects along with the cost per student.
3. The institute shall provide infrastructure like auditorium, seminar halls, internet facility, photo copy machine, attendant and team of faculty for coordination.
4. The training shall tentatively start from 1<sup>st</sup> November 2018 and shall be conducted on weekends and during Winter Break or in any other schedule convenient to the institute for final year students (the final schedule would be decided at the time of contract).
5. The cost should be quoted in Indian Rupees only.
6. Each SP shall submit only one offer/quotation.
7. Quotation/Offer shall remain valid for a period not less than 45 days after the last date of submission.

8. The service provider shall be responsible for conducting different tests like Benchmarking test, tests for each module etc.
9. Each module must be supported by online/offline assessment module.
10. The last date of submission of offer is 29<sup>th</sup> October 2018 by 12:00 noon.
11. The representatives of SPs may be present on the date of opening sealed quotations i.e. 29<sup>th</sup> October 2018 at 12:30 P.M.
12. Sealed quotation is to be submitted/ delivered at the address mentioned below by speed post / Registered post/ in person:  
**Principal, Zakir Husain College of Engineering and Technology, Aligarh Muslim University, Aligarh, Uttar Pradesh - 202002**
13. The cost quoted by the SP shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
14. The least cost would be evaluated on the basis of Total cost per student (Last column).
15. The Institute will consider those quotations to be substantially responsive which are properly signed and conforms to the terms and conditions, and requirement as per the TORs.
16. **Award of contract:** The institute will award the contract to the SP who has offered the lowest cost.
17. The SP whose offer is accepted will be notified of the award of contract by the institute prior to expiration of the quotation validity period.
18. With the least cost SP, institute will discuss the mechanism of implementation of course and finalize additional conditions mutually, if any.
19. The SP shall have to sign the contract with purchaser which will contain the terms and conditions of the accepted offer. Service provider shall provide detailed schedule of classes for the above mentioned subjects.
20. The SP should attach a detailed chart of experts mapped according to the course of GATE syllabus supported with bio-data of experts who would be engaged to cover different modules.
21. The payments against lodging/Boarding/TA/DA or any other demand raised by the service provider excluding per student cost in any case would not be the liability of the College. Furthermore, College won't be able to provide accommodation and fooding facility.
22. All the SPs are requested to study the attached NPIU-Terms of References and submit their quotations accordingly.
23. Notwithstanding the above, the institute reserves the right to accept or reject any quotations and to cancel the process and reject all quotations at any time prior to the award of contract, without stating any reason.

Interested consultants may obtain further information at the address below

**Principal Office, Z.H. College of Engineering & Tech., Aligarh Muslim University, Aligarh-202002, UP.**

Expressions of interest must be delivered to the address below by 29<sup>th</sup> October, 2018.

**Principal, Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh**

***Prof. M.M. Sufyan Beg, Principal***

**Aligarh Muslim University, Aligarh-202002, UP,**

**Tel: 0571-2700042**

**Fax:**

**E-mail: [principal\\_zhcet@yahoo.com](mailto:principal_zhcet@yahoo.com)**

**TERMS OF REFERENCES (TORs) FOR INVITATION OF EoIs FOR  
Empanelment of service Provider/Consultancy Agency/Institutes for Providing  
“GATE Training” to students in the TEQIP-III Institutions**

The purpose of this EoI is to identify an agency preparing 3<sup>rd</sup> & 4<sup>th</sup> year students (under graduate engineering courses) by imparting required training for preparing them for GATE. The focus of providing this shall be to polish their conceptual skills, help them qualify in single exit examination i.e. GATE and enhance the employability of technical graduates.

The service provider/consultancy agency has to impart necessary top up teaching on GATE covering basic courses, core courses and advanced courses related to each of the disciplines as per the curriculum and format for the GATE examination announced for that particular year. The performance of the student in GATE examination in terms of achieving qualifying score is expected to improve. The training/ teaching shall consist of different courses which may be given in one go to all third-year and final year interested undergraduate engineering students in the semester breaks or may be given in parts. The broad objectives of the training shall be as given below:

- a) Enhance conceptual knowledge of students in particular course/ disciplines through instructions particularly for solving novel problems in the respective area.
- b) Enable to apply the knowledge in different applications and expand their toolbox (of methods) to solve real life problems by becoming more skilled (technical) at explicitly thinking and applying processes.
- c) Improve thinking skills to generalize as well as standardize the methods and concepts to other applications.
- d) Develop systematic methods for learning from problem sets, including: how to apply and transfer conceptual knowledge; identify common obstacles and errors; and contextualize individual problems within the themes and concepts of the course.
- e) The course work shall cover all the subjects as per the curriculum declared for GATE of that particular year.
- f) To provide proper resources to the students to enable them for better preparation for GATE and increase the number of GATE qualifiers.

GATE is considered to be the standard examination conducted not only for post-graduation admissions but also to open the gates for lucrative opportunities in several public sector enterprises and research organizations/PSUs (IOCL, NTPC, BHEL, PGCIL, BARC etc.). Based on the score achieved in GATE, PG admissions are offered in IITs, IISc, NITs, and state engineering colleges and abundant opportunities for campus placements with handsome salary packages. Candidates on qualifying GATE, get a financial aid in the form of UGC/AICTE scholarship.

**2. An outline of the tasks to be carried out:** The participating institutes are from focus states i.e. North East (15), J & K (4), HP (4), UP (16), Bihar (7), Chhattisgarh (4), MP (7), Uttarakhand (7), Jharkhand (4), Odisha (5), Rajasthan (11), and Andaman & Nicobar (1). The service provider has to provide training/ teaching to the pre-final / final year undergraduate students studying in Government and Government aided institutions (numbers indicated in brackets) from participating States in the project on the subject details given in this document. The list of institutes is given in **Annex-1**.

The course contents for GATE training shall be based on the curriculum declared for GATE every year. The service provider/consultancy agency has to cover following premium learning tools while delivering the contents:

- a. Providing learning (study) material online/ offline before commencement of training.
- b. Powerful learning opportunities from subject experts (Guest lecture) who are not available locally in towns & cities where institutions are located.
- c. Interactive technology enabled online tutorials/ tests.
- d. The opportunity to work and learn at a custom, personalized pace - regardless of whether or not the student is a "challenged" or "accelerated" learner in the classroom.
- e. The environment (for eg. MOODLE) to ask whatever questions he/she wants in order to accomplish his/her learning goals.
- f. Track achievements and progress with easy-to-use measurement tools.
- g. Face to face training in the selected institutes as per the schedule to be furnished by institutions.

### 3. Schedule of task

Schedule for the training shall be mutually decided by the institute (client) and service provider based on academic calendar/ activity of participating students. The agency is expected to cover complete GATE syllabus for following disciplines of engineering under graduate programs.

1. Electronics & Communication Engineering, 2. Electrical Engineering,
3. Instrumentation Engineering 4. Mechanical Engineering
5. Computer Sc. and Information Technology 6. Civil Engineering
7. Production and Industrial Engineering 8. Mining Engineering
9. Chemical Engineering/ Petroleum Engineering 10. Biotechnology

The tentative topics to be covered under each of the disciplines depend on the curriculum of GATE for that examination,

The service provider/ consultancy firms have to provide appropriate faculty corresponding to each one of the subjects so as to make students understand the concepts and also enable him/her to apply the tool/ method for the given problem.

GATE 2018 Exam consists of Multiple Choice Questions and Numerical Type Questions in all papers & sections. The following are type of Questions:

**a. Recall:** These are based on facts, principles, formulae or laws of the discipline. The candidate is expected to be able to obtain the answer either from his/her memory directly or at most from a one-line computation.

**b. Comprehension:** These questions will test the candidate's understanding of the basics of his/her field, by requiring him/her to draw simple conclusions from fundamental ideas.

**c. Application:** In these questions, the candidate is expected to apply his/her knowledge either through computation or by logical reasoning.

**d. Analysis and Synthesis:** These can be linked questions, where the answer to the first question of the pair is required in order to answer its successor. Or these can be common data questions, in which two questions share the same data but can be solved independently of one another.

**e. Common Data Questions:** Multiple questions may be linked to a common data problem, passage and the like. Two or three questions can be formed from the given common data problem. Each question is independent and its solution obtainable from the above problem data/passage directly.

**f. Linked Answer Questions:** These questions are of problem solving type. A problem statement is followed by two questions based on the problem statement. The two questions are designed such that the solution to the second question depends upon the answer to the first one. In other words, the first answer is an intermediate step in working out the second answer.

**4. Support and input provided by the client:**

**a. Client (participating college) responsibility:**

1. Shall provide number of batches and the list of students of participating in the training.
2. Shall provide infrastructure like auditorium, seminar halls, internet facility, photocopy machine, attendant and team of faculty for coordination.
3. Coordination shall include making students attending program, monitoring of attendance, collecting feedback of students, arranging weekly review meeting with head of institution, facilitating for getting accommodation, transport, working lunch to resource person etc.

**b. Service Provider's responsibility:**

1. The empanelled agencies shall be responsible for catering to the institutions included in Annex-1. The denial shall invite action to the extent of withdrawal from panel.
2. Service provider has to provide detailed schedule of breakup for each of the appropriate modules covering the different skills mentioned in this document.
3. Batch size shall be 60 students.
4. Multiple subject experts shall be provided by mapping their specialization with the modules to be delivered for each batch.
5. Each module must be supported by online tutorials which must be available for every registered student on 24x7 basis till the end of his graduation.
6. Benchmarking test shall be conducted for the students enrolled for the training program before commencement of training. Every such student shall be evaluated periodically for the modules completed.
7. Each module must be supported by online assessment module.
8. Inviting student feedback, taking corrective actions for further improvement.
9. The training shall be conducted preferably during Summer/ Winter vacation or as agreed mutually with the institution for pre-final year students.

**5. Final output required of the consultancy organization:** To train all the aspirant on proper preparation for GATE and provide them various resources like study material, access to the online videos, access to the all India Test Series, etc. and increase the number of GATE qualifiers with the help of coordinators from college.

The final output must match with the course objectives mentioned in para 1 & 2 above.

1. The technical graduates to whom the training shall be imparted will become more employable (increase in placements) and synchronize themselves for various needs of the industry.
2. The final assessment shall be done by service provider using the same assessment tool which was used for benchmarking (0<sup>th</sup> test).
3. The final assessment shall result into at least 30 % improvement in case of every individual student after training. It is possible only after periodic assessment and timely corrections in the methodology/ mechanism.

4. At least 30 % of the students taking GATE training qualify GATE from the respective institute.

**6. Composition of review committee**

1. The institute shall constitute Review Committee which will consist of at least three members. The Review Committee may contain 1 faculty from each department whose students are participating in program.

2. Review Committee may have representative of service provider and student representatives.

3. Review Committee shall meet on weekly basis and discuss coverage of content, student feedback and take corrective action appropriately.

4. The final settlement of training fee shall depend on the basis of satisfactory performance in view of student feedback and student performance.