

Recruitment of Scientific Officersin the Department of Atomic Energy

(Group-A Post of Government of India)

through the Bhabha Atomic Research Centre
Training Schools



Information Brochure for Candidates from Engineering & Science Disciplines: OCES/DGFS-2017

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1.Training Schemes and Employment Description

BARC Training Schools provide two Training Schemes to deserving candidates ambitious of pursuing a rewarding career in **Nuclear Science**, **Engineering and Technology** and

- a. who would relish challenges in frontier areas ofScience&Technology,
- b. who would like to be part of an expanding program of Nuclear Power/Research Reactors, Accelerators and Nuclear Fuel Cycle Technologies,

and

c. who would enjoy pursuing innovative research in frontier areas of Engineering, Physics, Chemistry, Biosciences, Geology and Geophysics.

They are respectively called *Orientation Course* for *Engineering Graduates* and *Science Postgraduates* (*OCES*) and *DAE Graduate Fellowship Scheme* for Engineering Graduates and Physics Postgraduates (*DGFS*).

Successful completion of the Training Schemes guarantees employment as Scientific Officer 'C' in one of the DAE units or Atomic Energy Regulatory Board with attractive career progression opportunities up to the highest echelons.

DAE strives to have a workforce which reflects gender balance and woman candidates are encouraged to apply.

A. One-year Orientation Course for Engineering Graduates and Science Postgraduates for the academic year2017-2018 (OCES-2017) will be conducted at the five BARC Training Schools situated at Mumbai, Kalpakkam, Indore and Hyderabad. Tables-1a & 1b list Eligible Disciplines for the OCES program. Table-2 lists the Eligible Disciplines and orientation of the Training Program at each of the Training Schools. A Trainee Scientific Officer (TSO), who scores a minimum of 50% aggregate marks on completion of the Training Program, is declared to have passed the course successfully. Successful TSOs will be posted as Scientific Officers in one of the following DAE units:

- a. Bhabha Atomic Research Centre (BARC), Mumbai*
- b. Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam
- c. Raja Ramanna Centre for Advanced Technology (RRCAT), Indore
- d. Variable Energy Cyclotron Centre (VECC), Kolkata
- e. Heavy Water Board (HWB), Mumbai*
- f. Nuclear Fuel Complex (NFC), Hyderabad*
- g. Board of Radiation and Isotope Technology (BRIT), Mumbai*
- h. Nuclear Power Corporation of India Ltd(NPCIL), Mumbai*
- i. Bharatiya Nabhikiya Vidyut Nigam Ltd (BHAVINI), Kalpakkam*
- j. Uranium Corporation of India Ltd(UCIL), Jaduguda*
- k. Atomic Minerals Directorate for Exploration & Research (AMD), Hyderabad*
- Directorate of Construction, Services & Estate Management (DCSEM), Mumbai*.

*These units have their Head Office at the indicated locations. Placement can be at the Head Office or at other facilities of these units located in different parts of India.

Allocation of a successful OCES TSO to a DAE unit is carried out based on the needs of DAE's programs and the TSO's performance in the OCES program.DAE reserves the right to place TSOs in any of its other units and the Atomic Energy Regulatory Board (AERB)also.

Appointment in DAE units shall be as a 'Group A' Gazetted Officer of the Government of India except in BHAVINI, NPCIL and UCIL which are governed by the service rules of Corporations.

Performance above a specified threshold during the course work at the Training School will entitle TSOs to a Post-Graduate Diploma or could earn them credits

towardsM.Tech./M.Phil./Ph.D. programs of Homi Bhabha National Institute (HBNI), a Deemed to be University.

B. Two-year DAE Graduate Fellowship Scheme for Engineering Graduates and Physics Postgraduates for the academic session beginning in July/August 2017 (DGFS-2017). Under this scheme, Engineering Graduates and Physics Postgraduates who have excelled in the Selection Interviews for the BARC Training Schools' programs and who havealsoindependently secured admission for M. Tech./ M. Chem. Engg. in select Institutes and specializations as listed in Table-3, are paid stipend and tuition fee to pursue a M. Tech./ M. Chem. Engg. degree while retaining their employment in DAE.

After successful completion of one-year course work at the Institute, DGFS Fellows undertake project work, which is assigned by DAE and supervised jointly by a DAE and an Institute guide.

On successful completion of M. Tech./ M. Chem. Engg. DGFS Fellows are posted as Scientific Officers in DAE.Appointment in DAE units shall be as a 'Group A' Gazetted Officer of the Government of India.

On joining, they are required to first undertake a four-month Orientation Course for DGFS Fellows (OCDF) at the BARC Training School, Mumbai.

The DGFS fellows are enrolled and posted in one of the following units of DAE:

- a) BARC, Mumbai**
- b) IGCAR, Kalpakkam

**Placement can be at any of the BARC facilities located in different parts of India.

Allocation of a DGFS Fellow to a DAE unit is done at the beginning of the M. Tech. / M. Chem. Engg. program based on the needs of DAE's programs and their Selection Interview merit.

C. Stipend and Allowances during Training: OCES TSOsand DGFS Fellows are paid a stipend of ₹ 35,000 per month during the period of their Training and a one-time book allowance of ₹ 10,000.DGFS Fellows are reimbursed the tuition fee for M.Tech. / M.Chem.Engg. and are additionally paid a one-time Contingency Grant of ₹25,000 to meet M.Tech. / M.Chem.Engg. project related expenses.

Boarding and Lodging in DAE Hostel is mandatory for OCES TSOs during the Training period. Boarding and lodging in DGFS Institute hostel is mandatory for DGFS Fellows during M.Tech./M.Chem.Engg. program.

Selected candidates are required to execute an agreement and a **Personal Indemnity Bond** to serve DAE for at least three years after completion of Training. Indemnity Bond is for ₹ 4,30,000 for OCES TSOs and ₹ 8,70,000 for DGFS Fellows***. **No third party surety is required.**

***The Bond amount for DGFS Fellows pursuing M. Tech. / M. Chem. Engg. at certain DGFS Institutes may be different, depending on the tuition fee at the concerned Institute.

2.Grade and Pay Scale

Appointment in all the units shall be as a Scientific Officer 'C' (SO/C) <u>in the</u>
<u>Level 10 - ₹56,100 of the 7th Central Pay Commission Pay Matrix</u>.

Appointment will be at the beginning of the pay scale with OCES TSOs getting **two or three increments**(under consideration for revision) depending on their performance during the OCES program and the DGFS Fellows# getting **three or four increments**(under consideration for revision) depending on their performance in M. Tech./M. Chem. Engg. and four-month Orientation Course for DGFS Fellows (OCDF).

#DGFS Fellows whose performance in the M.Tech./M.Chem.Engg. and OCDF programs is below a specified threshold will get zero increments.

Monthly emoluments (with three increments) at the time of joining including Dearness Allowance, at the present Mumbai rate, will be approximately ₹63,000 plus House Rent Allowance and Transport Allowance as per 7th Central Pay Commission.

In addition, other Allowances such as **Leave Travel Concession by air**, every year up to first eight years (subject to conditions) and once in two years thereafter, **Children's Education Allowance** and **Professional Update Allowance** are also payable.

A comprehensive **Contributory Health Service Scheme** or equivalent for employees and their dependent family members is also available at all DAE Units.

3. Selection Process

Selection to OCES/DGFS – 2017is a two-step process: **Screening** to short-list candidates followed by **SelectionInterviews**of the short-listed candidates.

There is a separate Selection Process for each of the disciplines listed in Tables-1a & 1bexcept for Radiological Safety Engineering (RSE) which is not a separate discipline but an additional Training Scheme option for applicants in Nuclear Engineering, Physics and Chemistry disciplines. There is no separate Training Scheme called 'Nuclear Engineering' and selected candidates belonging to 'Nuclear Engineering' (NE) will be allotted RSE or Mechanical or Chemical as their Training Scheme.

A. <u>Screening for Selection Interviews</u> is based on two alternative methods:

(a)On the basis ofOnline Examination:

- i. Online Examination will be conducted in March, 2017 in each of the nine Engineering disciplines and five Science disciplines in more than forty cities spread across India.
- ii. Travel Allowance is not paid for appearing in it.
- iii. Candidates who register for the Online Examination will be able to choose their examination centre as well as date and time of the session in which they wish to appear for the Online Examination, subject to availability. Allocation of slot to candidates for taking the Online Examination will be done on a first come, first served basis.

(b)On the basis of GATE score:

Candidates will be screened in for Selection Interview on the basis of a valid GATE-2016 or GATE-2017 scorein the applicable GATE subject. Applicants with a degree in 'Nuclear Engineering' will be screened in only on the basis of Online Examination to be conducted in March, 2017.

Candidates may note the following:

 At the time of application, candidates can choose <u>any one or both</u> of the above screening options. As the cutoff GATE scores for screening in to Selection Interviews will be finalized only after the conclusion of the Online Examination, candidates are advised to maximize their chance of being screened in to the Selection Interview by availing both the Screening Channels (GATE score as well as OnlineExamination) detailed above.

- 2. Candidates who opt for screening through Online Examination should book an examination slot of their choice, subject to availability, by visiting this website. Alerts by email as well as SMS will be sent to all candidates who have opted for the Online Examination on their registered email addresses and mobile numbers as well as announced on this website, prior to commencement of the slot booking process. Examination slots will be allocated on first come, first served basis, subject to availability. Candidates are advised to visit this website regularly for updates regarding this.
- The candidates who have opted for screening only on the basis of a GATE Score will not be permitted to book an examination slot for the Online Examination.

Students from UM-DAE CBS and NISER: Students graduating with a Masters Degree from University of Mumbai – Department of Atomic Energy Centre for Excellence in Basic Sciences (UM-DAE CBS) and National Institute of Science Education and Research (NISER), Bhubaneswar, and whose Cumulative Grade Performance Average (CGPA) is greater than or equal to 7.5 on a scale of 10 will directly be screened in to the Selection Interview stage, provided they meet all other eligibility requirements of the OCES/DGFS-2017 programs. Such candidates should first submit their application for the OCES/DGFS-2017 programs on the Online Application Portal and subsequently forward their details through the Directors of their Institutes. As the final CGPA is not known till the end of the tenth semester, students from UM-DAE CBS and NISER are advised to appear for the Online Examination and / or upload a valid GATE-2016 or GATE-2017 score, to maximize their chances of being screened in to the Selection Interview stage.

B. <u>Selection Interviews:</u>

Selection Interviews of short-listed candidates will be conducted in Mumbai (in all disciplines except Geology and Geophysics) and Hyderabad (in Geology and Geophysics). Outstation applicants will bepaid two-way second-class sleeper train

fare, from their registered residential address, by shortest route or actual fare whichever is less.

Probable period of Selection Interviews is during May-June, 2017. Short-listed candidates will be able to choose an Interview slot based on availability in April, 2017. Alerts by email as well as SMS will be sent to all candidates who have been short-listed for Selection Interview on their registered email addresses and mobile numbersas well as announced on this website, prior to commencement of the Interview slot booking process. Candidates are advised to visit this website regularly for updates regarding this.

Final Selection for the OCES/DGFS-2017 programs will be based solely on performance in Selection Interview, subject to medical fitness. A list of provisionally (subject to medical fitness) selected candidates will be displayed on this website in the last week of June, 2017. The selected candidates will also be informed about their Selection by email and SMS.

Candidates selected for OCES-2017, who have obtained admission for applicable M. Tech. / M. Chem. Engg. programs in DGFS Institutes and who wish to be considered for DGFS, must provide details of their M. Tech. / M. Chem. Engg.admission by July 4, 2017.

4. Eligibility Criteria

- A. Qualifying Degrees and Other Academic Requirements for OCES/DGFS-2017:
- a) ForEngineering Disciplines(codes ME, CH, MT, EE, EC, CS, IN, CE, NE as per Table-1a):
- i. B.E. / B.Tech. / B.Sc. (Engineering) /5-year Integrated M.Tech. with a minimum of 60%* aggregate marks in one of the engineering disciplines mentioned in Table-1a.
- ii. It is to be noted that there is no Training discipline called 'Nuclear Engineering' and applicants with a degree in 'Nuclear Engineering' will be allotted RSE at the the BARC Training School, Mumbai or ME or CH at the BARC Training Schools at Mumbai, Kalpakkam or NFC-Hyderabad, as their Training Scheme.
- iii. Applicants opting to be considered on the basis of a GATE Score must have a valid GATE-2016 or GATE-2017**Score in the same engineering discipline as** the qualifying degree discipline. The applicable GATE subjects are listed in Table-1a.
- iv. Those having qualifying degree in branches like Aerospace, Automobile, Industrial Production, Reliability, Ceramics, Architecture, Geology, Mining, Bio-Medical Electronics/ Instruments, Communication, Information Technology, Master of Computer Applications, Dyes & Dye Intermediates, Electrochemical, Energy Systems, Oils & Fats, Paints &Varnishes, Petrochemicals, Plastics, Paper, Sugar Technology, Textiles, Mechatronics, etc. are not eligible.

b) For PhysicsDiscipline (code PH):

- i. M.Sc. in Physics/Applied Physics with Physics and Mathematics at B.Sc. or at subsidiary and/or ancillary level in case of5-year integrated M.Sc. or B.E./B.Tech. in Engineering Physics with a minimum of 60%* aggregate marks in the qualifying degree.
- ii. M. Sc. candidates (other than those applying with a 5-year integrated M.Sc. degree) must additionally have a minimum of 60%* aggregate marks in B.Sc.
- iii. Physics postgraduate applicants opting to be considered on the basis of a GATE Score should have a valid GATE-2016 or GATE-2017 Score in 'Physics'.

iv. Applicants having B.E./B.Tech. in 'Engineering Physics' as qualifying degree can apply on the basis of a valid GATE-2016 or GATE-2017 Score either in 'Physics' or in 'Engineering Sciences'.

c) For Chemistry Discipline (code CY):

- i. M.Sc. in Chemistry with Physics up to B.Sc. or at subsidiary and/or ancillary level in case of 5-year integrated M.Sc. and Mathematics at Std. XII or at B.Sc. or at subsidiary and/or ancillary level in case of 5-year integrated M.Sc., with a minimum of 60%* aggregate marks in M.Sc.
- ii. All candidates (other than those applying with a5-year integrated M.Sc. degree) must additionally have a minimum of 60%* aggregate marks in B.Sc.
- iii. Applicants opting to be considered on the basis of a GATE Score should have a valid GATE-2016 or GATE-2017 Score in 'Chemistry'.

d) For Biosciences Discipline (code BS):

- i. M.Sc. in Agriculture, Biochemistry, Microbiology, Molecular Biology, Biotechnology, Genetics, Botany, Zoology, Plant Science, Plant Breeding, Plant Pathology, Entomology, Food Technology, Animal Science, Life Sciences, Biomedical Sciences and Biosciences with a minimum of 60%* aggregate marks in M.Sc. as well as in B.Sc.(except for 5-year integrated M.Sc.); or B.E. / B.Tech. / B.Sc. (Tech) only in Food Technology with minimum of 60%* aggregate marks.
- **ii.** M.Sc. applicants should have studied one out of Physics or Chemistry or Biochemistry or Agriculture Chemistry as a subject at the B.Sc. stage or at subsidiary and / or ancillary level in case of 5- year integrated M.Sc.
- iii. Applicants opting to be considered on the basis of a GATE Score should have a valid GATE-2016 or GATE-2017 Score in 'Life Sciences' or in 'Biotechnology'.
- iv. Those having M.Sc. with specialization in subjects like Fisheries, Horticulture, Forestry, Agronomy, Animal Husbandry, Marine Biology, Bioanalytical Sciences, Bioinformatics and Home Science etc and B.E. / B.Tech. / M.Tech. in Biotechnology / Genetic Engineering / Biomedical Engineering are not eligible.

e) For Radiological Safety Engineering (code RSE):

 i. B.E. / B.Tech./B.Sc.(Engg.)/5-year Integrated M.Tech. in Nuclear Engineering / Nuclear Technology / Nuclear Science & Technology with minimum of 60%*

- aggregate marks or M.Sc. in Physics or Chemistry with a minimum of 60%* aggregate marks with Physics and Chemistry up to B.Sc. or at subsidiary and/or ancillary level in case of 5-year integrated M.Sc.
- ii. Eligible M.Sc. candidates must have passed in Mathematics at Std. XII or at B.Sc. or at subsidiary and / or ancillary level in case of 5-year integrated M.Sc.
- iii. All science postgraduate candidates (other than those applying with a five-year integrated M.Sc. degree) must additionally have a minimum of 60%* aggregate marks in B. Sc.

f) For Geology Discipline (Code GE):

- i. M.Sc. or equivalent M.Tech. in Geology / Applied Geology / Applied Geochemistry with Geology at B. Sc. or at subsidiary and / or ancillary level in case of 5-year integrated M.Sc., or 5-year integrated M.Tech. in Geological Technology.
- ii. Eligible candidates must have two subjects out of Mathematics, Physics and Chemistry up to B.Sc. or at subsidiary and/or ancillary level in case of 5-year integrated M.Sc./5-year integrated M.Tech., with a minimum of 60%* aggregate marks in M.Sc./M.Tech.
- iii. All eligible candidates (other than those applying with a 5-year integrated M.Sc. / M.Tech. degree) must have a minimum of 60%* aggregate marks in B. Sc. also.
- iv. Additionally, eligible candidates must have passed Mathematics in Std. XII.
- v. All applicants opting to be considered on the basis of a GATE Score should have a valid GATE-2016 or GATE-2017 Score in 'Geology and Geophysics'.

g) For Geophysics Discipline (Code GP):

- M.Sc. in Geophysics/Applied Geophysics or 5-year integrated M.Tech. in Geophysical Technology.
- ii. Eligible candidates must have Mathematics up to B.Sc. or at subsidiary and/or ancillary level in case of 5-year integrated M.Sc./M.Tech., with a minimum of 60%* aggregate marks in M.Sc./M.Tech.
- iii. All eligible candidates (other than those applying with a 5-year integrated M.Sc./M.Tech. degree) must have a minimum of 60%* aggregate marks in B. Sc.

- iv. Applicants opting to be considered on the basis of a GATE Score should have a valid GATE-2016 or GATE-2017 Score in 'Geology and Geophysics'.
- h) Those having M.Sc. (by research) or Ph.D. are not eligible.

*A minimum of 60% aggregate marks means the marks as per the ordinances of the respective university.

B. Admission to DGFS:

- i. Candidates having a qualifying degree in the Engineering disciplines (ME, CH, MT, EE, EC, CS, IN & CE) or in Physics (PH) and who meet the corresponding eligibility criteria listed above are eligible to apply for DGFS provided they are selected for OCES-2017 and additionally secure admission for M.Tech./M.Chem.Engg. starting in the academic year 2017 in select Institutes and in specializations listed in Table-3.
- ii. Confirmation of M.Tech./M.Chem.Engg. admission should be communicated by July 4, 2017.
- iii. Securing admission in one of the valid M. Tech. specializations at one of the DGFS Institutes along with Selection for OCES, does not guarantee the award of a DGFS Fellowship as DGFS is offered as per the needs of DAE's programs and only to the most meritorious candidates as per Selection Interview performance.
- C. Age Limit (Age as on August 1, 2017):
 - a) General Category 26 years,
 - b) OBC 29 years,
 - c) SC/ST 31 years,
 - d) Dependents of those who died in the riots of 1984 (Dep1984) 31 years,
 - e) Persons domiciled in Kashmir Division of Jammu & Kashmir State from 01/01/1980 to 31/12/1989 (Dom Kashmir) 31 years.

Physically Challenged persons of all categories are eligible for age relaxation of 10 years.

D. Nationality: Applicant must be a citizen of India.

E. Applicants working in Central or State Governments or their Units / PSUs / Aided Institutes should produce a No Objection Certificate (NOC) from their organization at the time of Selection Interview, failing which they may not be interviewed.

F. Application Fee:

- i. A non-refundable Application Fee of ₹500 is chargeable from the male applicants belonging to General and OBC categories.
- ii. Womancandidates, candidates belonging to SC/ST, Dependents of Defence Personnel Killed in Action (DODPKIA) and Physically Challenged candidates are exempted from payment of Application Fee.
- iii. All candidates who have paid Application Fee at a branch of State Bank of India must produce original challan at the time of Selection Interview.

Candidates awaiting final results and/or due to appear for GATE-2017, may also apply.

If selected, candidates who are eligible in all other respects but are awaiting final results will be allowed to commence course work. However, retention of these candidates in the OCES or DGFS programs is subject to the mark-sheet of their final result, which meets the eligibility requirements of the OCES/ DGFS-2017 program, being submitted by Nov 30, 2017 in case of OCES TSOs and as per the requirement of the concerned DGFS Institutes in the case of DGFS Fellows.

5. How to Apply

ONLY ONLINE APPLICATIONS WILL BE ACCEPTED.

- 1. Candidates have to fill up the Online Application form provided on this website.
- 2. Candidates need to register through 'Apply Online' link by providing essential information like name, mother's name, date of birth, e-mail id and a preferred login id. It may be noted that the details provided at this stage cannot be modified later on, and hence the candidates are advised to be careful in entering the details.
- Upon successful registration, the candidates can activate their account either through the OTP sent to their registered mobile number or through the Activation link sent to the candidates' registered email id.
- Once the candidate's account is activated, he/shecan subsequently log in multiple times through 'Candidate's Login' link to fill in the Online Application form.
- 5. While filling the form, the candidates are required to upload their recent passport sized photograph (4.5x3.5cm) in JPG format (of size not more than 50 kb) and a scanned copy of their signature (2x4.5cm, in JPG format with size not exceeding 20 kb).
- 6. After filling in all the required details, the candidates who are required to pay the Application Fee (₹500 plus applicable bank charges) may make Online payment using netbanking / debit card / credit card. On clicking on the "Make Payment" button in the payment page, the candidate is taken to the SBI Payment Gateway through which they can pay the application fee using any of the payment modes listed above. If the payment is successful, the candidates can proceed to final submission stage and complete their application. The candidates must make the payment of Application Fee only once and no

requests for refund of Application Fee will be entertained from any candidate.

7. Finally, the candidates need to submit the filled form. Please note that no modifications/alterations would be permitted in the application form after final submission. Hence the candidates are advised to verify the correctness and adequacy of the information filled by them before the final submission. It is to be noted that only applications where 'Final Submission' process has been completed before the last date will beconsidered valid applications.

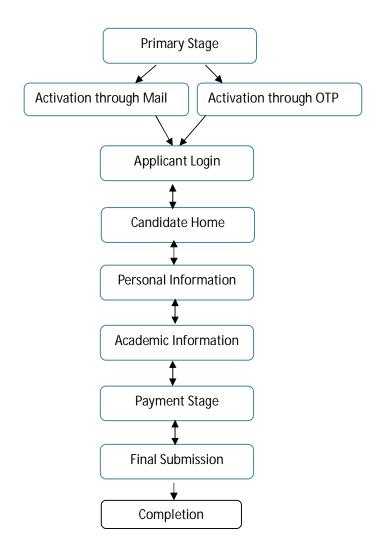
Candidates have the following options available:

- i. "Final Submission" On clicking this button, the details of the candidate are submitted and a Registration Number is generated for the candidate.
- ii. If the candidate wishes to do some modification before final submission, he / she is advised to click the "Home" link provided on the top of the page. However, it must be noted that the candidate must click the "Final Submission" button after the modification.
- A unique Registration Number will be generated for every candidatewho has completed the Final Submission process, which must be used for all future correspondence.
- 9. The candidates who wish to apply for screening on the basis of GATE-2017 Score are required to fill in their GATE details after declaration of the GATE results, whereas those wishing to apply on the basis of a GATE-2016 Score must upload their GATE Score during the Application Process. Applicants with a GATE-2017 Score must register and fill in all details relevant to the admission process, prior to the declaration of GATE-2017 results, and before the last date (February 14, 2017) for the same.No new applications, on the basis of a GATE-2017 score, will be accepted after

February 14, 2017. Once the GATE 2017 results are declared, these candidates are allowed to upload their GATE score and GATE marks on this portal for a limited period of time. Candidates must enter their GATE score and GATE marks carefully.

Note: Candidates need not send any documents such as proof of age, proof of category, proof of application fee payment etc. or hard copy application now.

BARC - DGFS/OCES -2017 Flow chart & Instructions for Registration



Note: From Candidate Home, candidate can proceed to each successive stage of registration. After completion of each stage, he/she can also switch over and edit the previous stages, till the final submission is made.

Once Final Submission stage is completed, no further modification is possible.

Process & Instructions:

Application Procedure: 7 Simple Steps (Primary Stage, Activation, Personal Information, Academic Information, Screening information, Payment Stage, Final Submission) to be followed to apply online

Step 1:	Primary stage:
	In this first stage of registration, the candidates need to choose the Applied Discipline(ie. Examination Discipline) and Qualifying Degree. The candidate also must enter other primary details like: Name, Mother's Name, DOB, Email ID, Mobile number. The candidate should create a Unique Login Id and Password (These credentials will be used to proceed to the next stage).
	Note: Candidates must note that the details entered in the Primary stage cannot be altered later on and that all communication will sent only to the registered email address and mobile number.
Step 2:	Activation:
	After completion of Primary stage, an OTP will be sent to candidate's registered mobile number and an Activation link will be sent to the registered E-mail id. Candidate can activate his application either by clicking that link or by using the "Activate through OTP" option in the portal. The candidate can proceed further after the activation of application.
Step 3:	Personal Information:
	After activation of application, the candidate can login through 'Application Login' with the registered User id and password. After logging in, the candidate should fill his Personal details like: Category, Address, etc and also do Photo & Signature Upload.
Step 4:	Academic Information:
	In this section, the candidate has to enter his Academic details like: 10 th ,12 th , relevant degree details and Additional Qualifications(if applicable).
Step 5:	Screening Information:
	After completion of Academic Information, the candidate can proceed to the next stage where he/she can choose the channel through which he/she would prefer to be

considered, ie. Online examination or GATE. A candidate can opt for both channels also.

In this stage, the candidate also can furnish his Examination centre choices. If the candidate has chosen GATE as the screening channel, he has to enter the GATE score and upload his Score card while applying in the case of candidates applying with a GATE-2016 score and by April 2, 2017 in the case of candidates applying on the basis of a GATE-2017 score.

Note: If the candidate enters his GATE score wrongly, he may not be shortlisted based on GATE screening channel. In GATE score column, the candidate has to enter his score out of 1000.

Step 6: Payment:

Candidates who are required to make an Application Fee Payment can pay the fees through the URL given in the Payment Stage. Payment can be done only through SBI Payment Gateway. There is no refund for candidates who make multiple payment.

Candidates, who are exempted from paying fees can directly proceed to the Final Submission.

Step 7: Final Submission:

Once all the other stages are completed, the candidate should make the Final Submission to complete the Registration. The candidate should make sure that all the information entered in the previous stages are correct, as no modification in application can be made after making Final Submission. After this stage, a Registration Number will be generated for the candidate. Candidates will be able to view and print their application also.

6. Eligible Disciplines

(Table 1a)

CODE	Discipline to be Selected in Online Application Form under which candidate wishes to apply	Eligible Subject/Discipline in B.E./B.Tech./B.Sc. (Engg.)/5-Year Integrated M. Tech. as awarded by University / Institute	GATE Subject
ME	Mechanical	Mechanical Engineering	Mechanical Engineering
СН	Chemical	Chemical Engineering	Chemical Engineering
MT	Metallurgical	Metallurgy / Metallurgy & Materials Engineering / Metallurgy & Materials Science / Metallurgical Engineering / Metallurgical & Materials Engineering / Metallurgical Engineering & Materials Science / Materials Science & Engineering	Metallurgical Engineering
EE	Electrical	Electrical Engineering / Electrical & Electronics Engineering	Electrical Engineering
EC	Electronics	Electrical Engg. / Electronics Engg. / Electronics & Communication Engg. / Electronics & Controls Engg. / Electrical & Electronics Engg. / Electronics & Instrumentation Engg.	Electronics & Communication Engg.
CS	Computer Science	Computer Science / Computer Engineering	Computer Science & Information Technology
IN	Instrumentation	Instrumentation Engg. / Electronics & Instrumentation Engg.	Instrumentation Engineering
CE	Civil	Civil Engineering	Civil Engineering
NE	Nuclear Engineering*	Nuclear Engineering / Nuclear Technology / Nuclear Science & Technology	NOT ELIGIBLE through GATE

^{*} Candidates with B.E. / B.Tech. / B.Sc.(Engg.) / 5-year Integrated M.Tech in 'Nuclear Engineering' / 'Nuclear Technology' / 'Nuclear Science & Technology' would be considered for RSE Training Scheme at the BARC Training School, Mumbai and for 'Mechanical' and 'Chemical' Training Schemes at the BARC Training Schools in Mumbai, Kalpakkam and NFC-Hyderabad.

(Table 1b)

CODE	Discipline to be Selected in Online Application Form under which candidate wishes to apply	Eligible Degree Subject/Discipline as awarded by University / Institute	GATE Subject
	Physics†	M. Sc. In Physics / Applied Physics	Physics
PH		B.E./B.Tech. In Engineering Physics	Physics / Engineering Sciences
CY	Chemistry‡	M. Sc. In Chemistry	Chemistry
BS	Biosciences	M.Sc. in Agriculture, Biochemistry, Microbiology, Molecular Biology, Biotechnology, Genetics, Botany, Zoology, Plant Science, Plant Breeding, Plant Pathology, Entomology, Food Technology, Animal Science, Life Sciences, Biomedical Sciences and Biosciences	Life Sciences / Biotechnology
		B.E./B.Tech./B.Sc.(Tech.) in Food Technology	
RSE	Radiological Safety Engineering#	B.E./B.Tech./B.Sc. (Engg.)/5-year integrated M. Tech. in Nuclear Engg./ Nuclear Technology/ Nuclear Science & Technology	NOT ELIGIBLE through GATE
		M.Sc. In Physics / Applied Physics	Physics
		M.Sc. In Chemistry	Chemistry
GE	Geology	M.Sc. or equivalent M.Tech. in Geology / Applied Geology / Applied Geochemistry or 5-year integrated M.Tech. in Geological Technology.	Geology & Geophysics
GP	Geophysics	M.Sc. in Geophysics/Applied Geophysics or 5-year integrated M.Tech. in Geophysical Technology.	Geology & Geophysics

†The candidates belonging to Physics discipline selected for the BARC Training School at Mumbai will be allotted either Physics or Radiological Safety Engineering as their Training Schemes and those selected for the BARC Training school at IGCAR will be allotted either Reactor Physics or Materials Science as their Training Schemes.

‡ The candidates belonging to Chemistry discipline selected for the BARC Training School at Mumbai will be allotted either Chemistry or Radiological Safety Engineering as their Training Schemes and those selected for the Training School at IGCAR will pursue Nuclear Fuel Cycle Chemistry in the Training School.

Radiological Safety Engineering (RSE) is not a separate discipline but an additional Training Scheme option for candidates in Nuclear Engineering, Physics and Chemistry.

7. Training School and Training Scheme Options-(Table 2)

Training School	Degree Disciplines Eligible to Apply	Training Schemes	Orientation of Training
BARC, Mumbai (Since 1957)	ME, CH, MT, EE, EC, CS, IN, CE, NE, PH, CY, BS	ME, CH, MT, EE, EC, CS, IN, CE, PH, CY, BS, RSE	 Engineering Design, Development, Operation and Maintenance of Nuclear Reactors Research in frontier areas of Basic and Engineering Sciences
IGCAR, Kalpakkam (Since 2006)	ME, CH, EC,NE, PH, CY	ME, CH, EC,PH, CY	 R&D and Engineering related to Fast Breeder Reactors Research in frontier areas of Basic and Engineering Sciences
RRCAT, Indore (Since 2000)	EE, EC, PH	EE, EC, PH	 R&D and Engineering related to lasers, accelerators, plasma physics, cryogenics and superconductivity
NFC-HWB, Hyderabad (Since 2001)	ME, CH, EE, EC, NE	ME, CH, EE, EC	 Operation & Maintenance and Engineering related to Nuclear Fuel Facilities and production plants for production of Heavy Water to support the Nuclear Power Program
AMD, Hyderabad (Since 2010)	GE, GP	GE, GP	 Exploration Techniques for Uranium and other Atomic Minerals and related R&D activities

8.DGFS: Admissible Disciplines, M. Tech. / M. Chem.

Engg. Specializations and DGFS Institutes (Table-3)

Relevant M.Tech./M.Chem.Engg. Program or Name of Dept/ Centre at the M.Tech./ M.Chem.Engg. Institute	Pre-M.Tech./M.Chem.Engg. Degree (Disciplines)	Institutes**
Mechanical Engineering	BE / BTech / BSc Engg (Mechanical)	All except ICT
Cryogenic	BE / BTech / BSc Engg (Mechanical)	Kh
Chemical Engineering	BE / BTech / BSc Engg (Chemical)	All except Rkl
Applied Mechanics	BE / BTech / BSc Engg (Civil/ Mechanical)	M
Civil Engineering	BE / BTech / BSc Engg (Civil)	All except Rkl, ICT
Earthquake Engineering	BE / BTech / BSc Engg (Civil)	K, R
Nuclear Hydrology	BE / BTech / BSc Engg (Civil/ Chemical)	R
Metallurgical Engineering, Materials Science/ Engg	BE / BTech / BSc Engg (Metallurgy/ Chemical)	All except G, ICT
Electrical Engineering	BE / BTech / BSc Engg (Electrical/ Electronics)	All except G, ICT
Reliability Engineering, Systems & Control Engineering, Energy Systems	BE / BTech / BSc Engg (Mechanical/ Electrical/ Chemical)	B, D, Kh, R
Power/ Communication/ Control Engg, Integrated Electronics & Circuits	BE / BTech / BSc Engg (Electrical/ Electronics)	D, G, R
Instrumentation	BE / BTech / BSc Engg (Electrical/ Electronics/ Instrumentation)	Kh, M,R
Computer Science, Engineering & Technology	BE / BTech / BSc Engg (Computer/ Electrical/ Electronics)	All except Rkl, Var, ICT
Applied Optics, Lasers & Optoelectronics	BE / BTech / BSc Engg (Electronics) M.Sc. (Physics / Applied Physics)	D
Nuclear Engineering & Technology	BE / BTech / BSc Engg (Mechanical/ Chemical/ Electrical/ Electronics)	K
Solid State Materials/ Electronic Materials	BE / BTech / BSc Engg (Electrical/ Electronics) M.Sc. (Phy/ App Phy)	D, R
Electronics Engg, Electronics and Communication Engg	BE / BTech / BSc Engg (Electrical/Electronics)	Rkl & Var

^{**} Institutes where specified M.Tech./ M.Chem.Engg. courses are offered under this scheme: B = IIT Bombay; D = IIT Delhi; G=IIT Guwahati; K = IIT Kanpur; Kh = IIT Kharagpur; M = IIT Madras; R = IIT Roorkee; RkI = NIT Rourkela; Var = IIT-(BHU)-Varanasi; ICT = Institute of Chemical Technology, ICT, Mumbai. Number of DGFS Fellows selected in each approved M.Tech. / M.Chem.Engg. Specialization at the Institutes under the DGFS scheme will depend upon the requirements of DAE.

9. ImportantDates- (Table-4)

Launching of Online Application Portal for OCES/DGFS-2017	23 rd January, 2017
Last date for Online Application	14 th February, 2017
Submission of Options for Online Examination Slot	22 nd – 28th February, 2017
Download of Admit Card for Online Examination	1 st -7 th March, 2017
Online Examination	18 th - 26 th March, 2017
Last date for candidates to upload their GATE score	2 nd April, 2017
Display of List of candidates short-listed for Interview on Online Application Portal	14 th April, 2017
Availability based option on Online Application Portal to select Interview Slot for qualified candidates	17 th – 20 th April, 2017
Selection Interviews	17 th May - 16 th June, 2017
Display of List of Candidates finally selected for OCES-2017 on Online Application Portal	Last week of June, 2017
Last Date for Selected OCES-2017 Candidates desirous of DGFS to give details of M.Tech/M.Chem.Engg. admission in a DGFS institute	4 th July, 2017
Declaration of List of Persons Selected for DGFS-2017 on Online Application Portal	2 nd week of July, 2017