



UTTARAKHAND TECHNICAL UNIVERSITY

ENTRANCE EXAMINATION - 2015

**Uttarakhand State Entrance Examination - 2015
(UKSEE - 2015)**



For Admission to

**B. Pharm., Bachelor of Hotel Management (BHMCT)
MCA Courses
1st year 2015**

**B. Tech. Lateral Entry/B. Pharm. Lateral Entry, MCA Lateral Entry
2nd year 2015**

**Last Date for
Submission of Forms: 30th May 2015 (5.00 PM)
Date of Examination: 18th & 19th June 2015**

UTTARAKHAND TECHNICAL UNIVERSITY

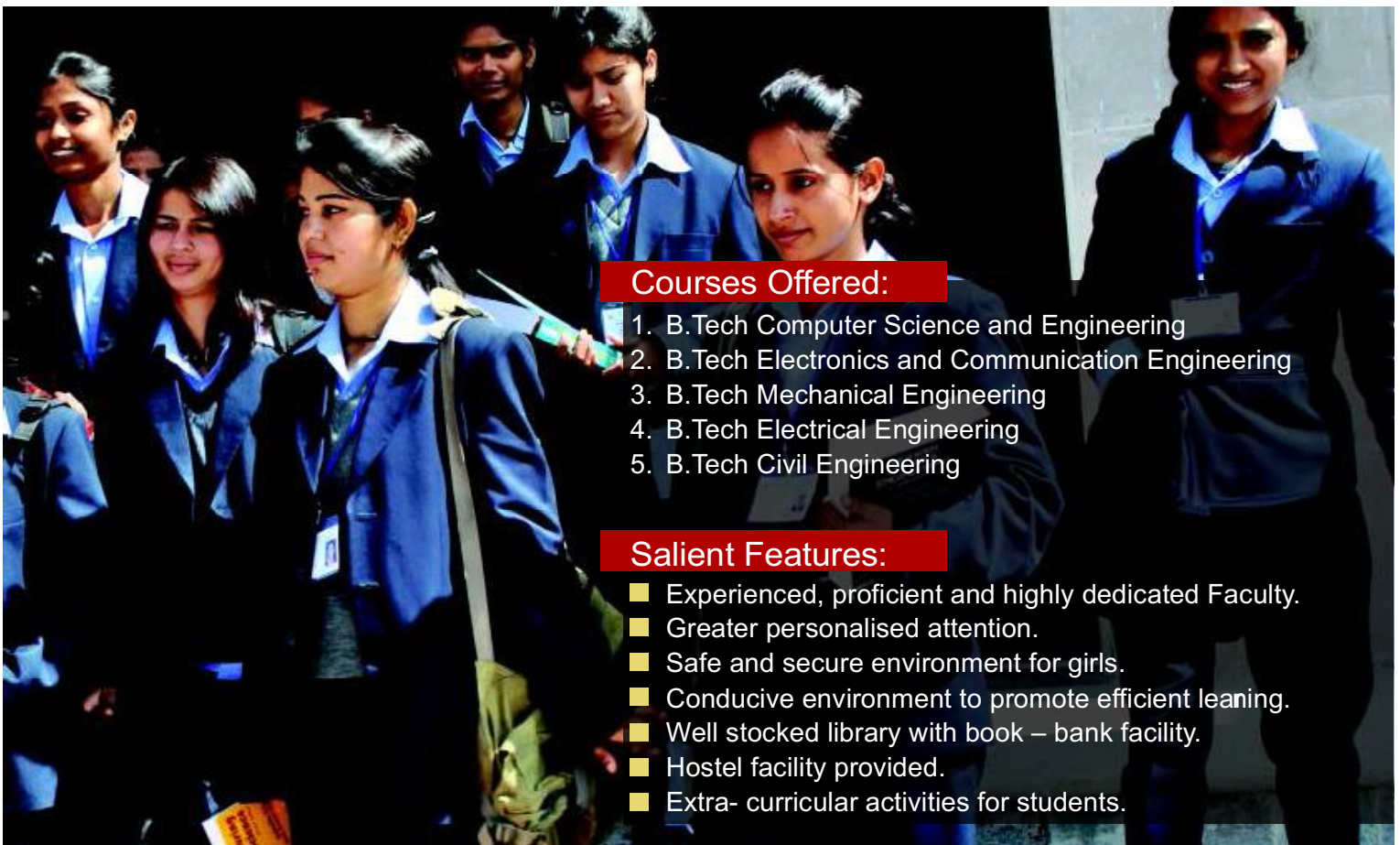
**Dehradun, Uttarakhand
email : exams.utu@gmail.com
website : www.uktech.ac.in**



WOMEN INSTITUTE OF TECHNOLOGY

A Constituent College of Uttarakhand Technical University

- * First State Government College exclusively for girls.
- * Established in 2012 by the Government of Uttarakhand.
- * Admission also available on lateral entry on
- * Situated at the campus of Uttarakhand Technical University



Courses Offered:

1. B.Tech Computer Science and Engineering
2. B.Tech Electronics and Communication Engineering
3. B.Tech Mechanical Engineering
4. B.Tech Electrical Engineering
5. B.Tech Civil Engineering

Salient Features:

- Experienced, proficient and highly dedicated Faculty.
- Greater personalised attention.
- Safe and secure environment for girls.
- Conducive environment to promote efficient learning.
- Well stocked library with book – bank facility.
- Hostel facility provided.
- Extra- curricular activities for students.



Women Institute of Technology
Uttarakhand Technical University
Sudhowala, Dehradun, Uttarakhand Pin - 248007

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ENTRANCE EXAMINATION - 2015
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INFORMATION BROCHURE

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Dehradun, Uttarakhand

email : exams.utu@gmail.com

website : www.uktech.ac.in

UKSEE-2015

Uttarakhand State Entrance Examination - 2015
Organised by : Uttarakhand Technical Univeristy, Dehradun, UK

FOR ADMISSION TO
B. PHARM.,
BACHELOR OF HOTEL MANAGEMENT (BHMCT), MCA Ist Year
&
B.PHARM. 2nd Year LATERAL ENTRY,
B.TECH. 2nd Year LATERAL ENTRY, MCA Lateral Entry
IN VARIOUS UNIVERSITIES/GOVERNMENT COLLEGES/SELF
FINANCED INSTITUTION OF UTTARKAHAND

Eligibility : As per latest AICTE norms. (www.aicte-india.org)

Reservation : As per Notification (applicable at the time of Counseling) of Govt. of Uttarakhand / University rules.

Application Forms :

1. The cost of Brochure/Application form Inclusive of Examination Fee is Rs. 1000/- for General/ OBC Candidates and Rs 500.00 for SC/ST candidates with Rs. 125/- additional as handling charges.
2. The Information Brochure containing Application form are available for Sale from 25th April 2015 to May 30, 2015 by paying Rs. 1000/- for General/OBC candidates and Rs. 500/- for SC/ST candidates with Rs. 125/- additional as handling charges in cash from.
 - (a) Post Offices of Dehradun GPO, Roorkee HO, Kotdwar HO, Haldwani HO, Rudrapur, Ramnagar, Mussoorie, Haridwar, Rishikesh MDG, Rudraprayag, Pauri, Srinagar, Tehri, Almora, Ranikhet, Bageshwar, Pithoragarh, Vikasnagar, Chakrata, Khatima and outside of Uttarakhand from Post Offices of New Delhi GPO.
 - (b) Application Forms will also be available for sale from Uttarakhand Technical University, Dehradun (Uttarakhand).

Examination Centres : At Nine places. **In Uttarakhand** - Dwarahat, Dehradun, Haldwani, Srinagar, Pithoragarh, Roorkee, New Tehri, Gopeshwer and **New Delhi (NCR)**

Important Dates

Application forms available from	:	25 April, 2015
Last date for sale and receipt of forms	:	30 May, 2015
Dispatch of Admit Cards	:	1st week June, 2015
Date of Examination	:	18 & 19 June 2015
Declaration of Result	:	25 June 2015
Date of Counseling	:	3rd week of July 2015

For More Information Please Contact :
Uttarakhand Technical University
email : exams.utu@gmail.com
website : www.uktech.ac.in

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1. GENERAL INFORMATION

The University has been assigned the task of conducting UKSEE-2015 for admission to first year of MCA, BHMCT, B.Pharmacy and second Year o B.Tech. & B. Pharmacy MCA programme offered at University Departments and Government/Private Institutes of Uttarakhand (hereafter referred to as institute) for the academic year 2015-16.

2. IMPORTANT INSTRUCTIONS

- i. The lateral entry seats for B.Tech, B.Pharma, MCA, shall be filled by Uttarakhand Candidates only.
- ii. Admission to an institute implies acceptance by the candidate of all the provisions given in the brochure/prospectus of the University. Any change in the rules, regulations, fees, special conditions, etc. of the institute will apply to him/her.
- iii. The information indicated in the brochure/prospectus of an institute is only for general guidance of the candidates.
- iv. Application forms found incomplete or received after the due date will be rejected.
- v. The candidates are advised to read each and every instruction given in this information brochure very carefully before filling up the Application form.
- vi. **Paste (do not staple or pin)** your color photograph in the specified box only, on the Application form. Photograph must not be attested/signed.
- vii. Write your mailing address, pin code and put your signature using blue/black ball point pen only within the specified blocks provided in the Application form.
- viii. Do not staple, pin or fold the Application form. While sending the application form, please ensure that staples or pin are not fixed on envelope.
- ix. A candidate should submit separate application for different courses (B.Pharm & BHMCT).
- x. The candidate as well as his/her parent/guardian must sign the certificate in the Application form under Point No. 14. In case, either of the signature is missing, the application form will be rejected.
- xi. The candidate must note down his/her Application form number and keep a photocopy of the same for future reference.
- xii. The application form will not be scrutinized and hence the onus of proving the category of the candidate and eligibility criteria for admission to offered programmes lies solely with the candidate at the time of counselling.
- xiii. Request for change of test centre and category shall not be entertained.
- xiv. **If the admit card is not received by 10 June, 2015 please download the same from web site www.uktech.ac.in**
- xv. Candidate must preserve the admit card till the admission process is over.

- xvi. Notwithstanding any provisions in this brochure, with respect to reservation of seats and any particular matter related to admission, the latest Government Order issued by Government of Uttarakhand and the latest norms prescribed by AICTE as valid on the date of admission, shall be applicable. No claim in this regard by the candidate shall be entertained.
- xvii. The application form completed in all respect should reach **by Post or by hand** to The Registrar Uttarakhand Technical University, Govt. Girls Polytechnic Campus P.O., Chandanwadi, Premnagar Suddhowala, Dehradun (U.K.) by 30th May, 2015 (5.00 PM). Candidates are advised to go through all the points in the checklist before finally mailing/submitting the application.
- xviii. Candidates seeking advantage of reserved categories should not enclose relevant supporting certificates, given at the end of this brochure, with the application form. The certificates in original will have to be produced at the time of admission/counseling along with one set of attested copies.
- xix. The result of UKSEE-2015 declared by the Co-ordination Committee shall be final. There is no provision of scrutiny of Answer Books.
- xx. If any document/declaration submitted by the candidate is found to be false at any stage including his/her stay in the institute, his/her admission shall be cancelled and he/she will be liable for prosecution under the law.
- xxi. The Co-ordination Committee is competent to take all decisions on matters relating to admission and allotment of the institutes mentioned in this Brochure and may frame rules in this regard. The decision of the Co-ordination Committee shall be final.
- xxii. If a candidate, who is not eligible to appear in the Test, does so, he/she will not have any claim whatsoever for admission.
- xxiii. Use of calculator and mobile phones during the examination is strictly prohibited.
- xxiv. Candidates are required to write their Roll Numbers only at the space provided on the question booklet (front page) and the OMR answer sheet. A candidate will be disqualified if he/she writes his/her Roll No. or any other identification mark elsewhere in the OMR answer sheet.
- xxv. In case of any legal dispute, the jurisdiction will be limited to Lower District Court, Dehradun and High Court, Nainital and will not be subjected to the jurisdiction of any o t h e r courts except Supreme Court.
- xxvi. The Co-ordination Committee, UKSEE-2015 & Uttarakhand Technical University will not be responsible for any delay either on the part of the post office or for any reason whatsoever.
- xxvii. The Cost of Brochure/Application form inclusive of Examination Fee is Rs. 1000/- for General/ OBC candidates and Rs. 500.00 for SC/ST candidates with Rs. 125/- additional as handling charges.
- xxviii. The information Brochure containing Application form are available for Sale from 25th April, 2015 by paying Rs. 1000.00 for General/OBC candidates and Rs. 500.00 for SC/ST candidates with Rs. 125/- additional as handling charges in cash from Post Offices of Dehradun GPO, Roorkee HO, Kotdwar HO, Haldwani HO, Rudrapur,

Ramnagar, Kashipur, Mussoorie, Haridwar, Rishikesh MDG, Rudraprayag, Vikasnagar, Chakrata, Gopeshwar, Khatima and outside of Uttarakhand from Post Offices of New Delhi GPO

3. QUALIFICATIONS AND ELIGIBILITY REQUIREMENTS

- i. **ENGINEERING & TECHNOLOGY : Lateral entry to IInd year** **A)** Passed Diploma examination from an AICTE approved Institute with at least 45% marks (40% in case of candidates belonging to reserved category) in appropriate branch of Engineering/Technology. **B)** Passed B. Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% in case of candidates belonging to reserved category) and passed XII standard with mathematics as a subject.
- ii. **PHARMACY :** Passed 10+2 examination with Physics and Chemistry as compulsory subjects along with one of the Mathematics/Biotechnology/Biology/Technical Vocational subject.

NOTE :

- iii. **Hotel Management & Catering Technology :** Should have passed 10+2 examination. Obtained at least 45% (40% in case of candidates belonging to reserved category) at the qualifying Examination.
- iv. **MCA :** Recognized Bachelor's Degree of minimum 3 year duration with Mathematics at 10+2 level or at Graduate Level. Obtained at least 50% (45% in case of candidates belonging to reserved category) at the qualifying examination.
- v. **MCA : Lateral Entry to 2nd year** MCA - Recognized Bachelor's Degree of minimum 3 Yrs. duration in BCA, B.Sc (IT/Computer Science) with Mathematics as a course at 10+2 level or at Graduate Level. Obtained at least 50% (45% in case of candidates belonging to reserved category) at the qualifying examination.

Note : (I) Those appearing in qualifying examination may also appear in entrance examination for consideration of Provisional Admission.

(II) Candidate whose result of qualifying examination is not declared at the time of counseling they will not be allowed to appear in the counseling.

(III) For B. Tech Lateral Entry Counseling , first preference will be given to diploma holder and there after seats will be allotted to B.Sc holder candidates.

4. DOMICILE REQUIREMENTS

Those candidates who have passed/are appearing in the qualifying examination from/in other states, but have domicile of Uttarakhand are eligible to apply for admission under Uttarakhand quota. At the time of counselling Domicile Certificate must be Produced issued by competent authority.

5. RESERVATIONS

In Government Funded Institutes, the reservations for Uttarakhand candidates will apply as per Uttarakhand Government rules and **for all India seats, the reservations will be applicable as per the Central Government rules.** For courses conducted by University Departments/Government Engineering Colleges/Institutes, the intake will be through UKSEE-2015 only and the seats will be reserved as per norms of Uttarakhand Government. For self-financing institutes the reservation will be as per norms applicable at the time of counselling.

*** Who has passed qualifying examination from Uttarakhand Technical Board/ Universities.**

6. CATEGORY

Candidate in General Category and those claiming reservation of any type must indicate their category by writing the code in the box provided in the application form. Subsequent request for change of category shall not be entertained. **Categories must be supported by the relevant certificates (See Appendix-C) to be produced at the time of Counselling**, failing which the candidate shall be treated in general category. (No certificates should be enclosed with the application form).

Candidate should note that the OBC certificate must be issued after March 31, 2015.

The following categories are defined for the purpose of admission :

Category	Category Abbreviation	Category Code	Required Certificate No.
<ul style="list-style-type: none"> ● Candidates (i) who have passed qualifying examination from any institute located in Uttarakhand, and (ii) who are not eligible to any reserved category. 	UKGE	01	Proof of Qualifying Exam within UK
<ul style="list-style-type: none"> ● Candidates (i) who have passed qualifying examination from any institute located in Uttarakhand, and (ii) who are domicile of Uttarakhand, and (iii) who belong to : <ul style="list-style-type: none"> ● Scheduled Caste of Uttarakhand ● Scheduled Tribe of Uttarakhand ● Other Backward Classes of Uttarakhand 	UKSC UKST UKBC	02 03 04	01 01 02
<ul style="list-style-type: none"> ● Candidates (i) who are domicile of Uttarakhand, but who have passed qualifying examination from any institute located outside Uttarakhand, and (ii) who are not eligible for any reserved category. 	UKGD	1	3
<ul style="list-style-type: none"> ● Candidates (i) who are domicile of Uttarakhand, but who have passed qualifying examination from any institute located outside Uttarakhand, and (ii) who belong to : <ul style="list-style-type: none"> ● Scheduled Caste of Uttarakhand ● Scheduled Tribe of Uttarakhand ● Other Backward Classes of Uttarakhand 	GDSC GDST GDSC	12 13 14	01 01 02

Category	Category Abbreviation	Category Code	Required Certificate No.
<ul style="list-style-type: none"> ● Candidates (i) who have passed qualifying examination from any institute located outside Uttarakhand, and who are not domicile of Uttarakhand, and (ii) who are not eligible for any reserved category. Not Applicable for Lateral Entry Courses	OSGE	21	None
<ul style="list-style-type: none"> ● Candidates (i) who have passed qualifying examination from any institute located outside Uttarakhand, and (ii) who are not domicile of Uttarakhand, and (iii) who belong to : <ul style="list-style-type: none"> ● Scheduled Caste ● Scheduled Tribe Not Applicable for Lateral Entry Courses	OSSC OSST	22 23	01 01

Note :

- Candidates in their own interest should carefully note the category code.
- No request for change of category shall be entertained afterwards.

7. SUB CATEGORY (HORIZONTAL RESERVATION)

Candidate who belong to main categories, namely UKGE, UKSC/UKST/UKBC/UKGD, or GDSC/GDST/GDBC, and, if they are one amongst the following sub categories can claim for reservation under that sub category. Candidates claiming reservation in UKFF, UKPH and UKAF sub category should submit the certificate no. 4, 5 & 6 respectively at the time of Admission.

Sub Category	Sub Category Code	Required Certificate No.
● Girls Candidates (UKGL)	01	
● Children of Armed Force (UKAF)	02	4
● Dependent wards of Freedom Fighter (UKFF)	03	5
● Handicapped as defined in eligibility for handicapped in certificate no. 6 (UKPH)	04	6
● J&K Migrants	22	

Note : There are supernumerary seats for J&K migrants & tuition fee waiver (TFW) will be 5% as per Central/State Govt. and AICTE notification is applicable for 1st year of B. Pharmacy & BHMCT only.

8. CENTRES FOR ADMISSION TEST

The admission test will be held at various centres listed below, However, Co-ordination Committee UKSEE 2015 reserves the right to allot or cancel any centre. Coordination Committee will make every possible effort to allocate centres to candidates as per their preference or to the nearest place opted by the candidates

However, guarantee cannot be given in this connection and the decision of the Co-ordination Committee, UKSEE-2015 shall be final.

Centres for Written Test

Sl. No.	Place	Code
1.	Dwarahat	01
2.	Dehradun	02
3.	Haldwani	03
4.	Srinagar	04
5.	Pithoragarh	05
6	Roorkee	06
7.	New Tehri	07
8.	Delhi	08
9.	Gopeshwar	09

9. ADMIT CARD

The Admit Card bearing information like Roll number and Address of Examination Centre for the UKSEE-2015 application form. All candidates should normally receive the Admit Card by 10 June 2015. If any candidate fails to receive the Admit Card by 10 June 2015, he/she should inform either through e-mail (exams.utu@gmail.com) giving his/her details as filled in the form (candidates are advised to keep a photocopy of the main application form for ready reference)

Candidate can receive the admit card from the examination centre on producing the xerox copy of application form alongwith passport size photo and proof of date of birth/high school certificate. The fee of duplicate admit card will be Rs. 10/- in cash. Admit card can also be downloaded from website www.uktech.ac.in by filling date of birth and name.

A plea that the candidate failed to receive the information for appearing at the Written Test will not be accepted as a ground for the refund of fee or any other redressal. The “**Coordinator, UKSEE-2015**”, may withdraw the permission granted by mistake to a candidate who is not eligible to appear in the Written Test even though an Admit Card has been issued and produced by the candidate before the Centre Superintendent, or even appeared in exam, will not considered for admission in any case.

A candidate will not be allowed to change the centre of his/her test under any circumstances. The decision of the Co-ordination Committee, UKSEE-2015 will be final in this regard.

10. SCHEME OF WRITTEN TEST

10.1 UKSEE- 2015 will be conducted for nine papers with objective type questions. The candidates are required to opt papers and subjects for appearing in the entrance examination as mentioned in clause 10.4

10.2 Scoring

- (i) All objective type questions (four options with single correct answer) would carry one mark for each correct answer.
- (ii) More than one answer indicated against a question will be deemed as incorrect response.
- (iii) There will be no negative marking in objective type question papers. However, a record of incorrect answers given by a candidate will be kept separately. In case two or more candidates secure same total marks, inter-se-merit of such candidates shall be first determined by the number of incorrect answers given by the candidate.
- (iv) All objective type questions are required to be answered on specially designed OMR answer sheets.
- (v) Answers are to be marked using ball point pen (Black/Blue) only. For the purpose of evaluation, Test Booklet Code written by the candidate in the OMR answer sheet will be accepted as final.

10.3 Papers and Subjects in the Entrance Examination

Paper	Subjects	Number of Questions	Marks
Paper 1	Physics and Chemistry	150 objective type questions with equal weightage to Physics and Chemistry	150
Paper 2	Mathematics	75 objective type questions	75
Paper 3	Biology	75 objective type questions with equal weightage to Botany & Zoology	75
Paper 4	Aptitude Test for General Awareness (BHMCT)	75 objective type questions	75

Paper	Subjects	Number of Questions	Marks
Paper 5	Aptitude Test for MCA	100 objective questions	100
Paper 6	Aptitude Test for Engg. Diploma Holders (Lateral Entry)	75 objective type questions	75
Paper 7	Aptitude Test for Pharmacy Diploma Holders (Lateral Entry)	75 objective type questions	75
Paper 8	Aptitude Test for B.Sc. Graduates (Lateral Entry)	75 objective type questions	75
Paper 9	Aptitude test for MCA (Lateral entry) for BCA/B.Sc. CS/IT Students	75 objective type questions	75

10.4 Papers to be Opted For Different Courses

Courses	Papers
B.Pharm.	Paper 1; and Paper 2 or Paper 3
BHMCT	Paper 4
MCA	Paper 5
Lateral Entry :	
B.Tech. 2 nd year (for Engg. Diploma Holders)	Paper 6
B. Pharm 2 nd year (for Pharmacy Diploma Holders)	Paper 7
B. Tech. 2 nd year (for B.Sc. Graduates)	Paper 8
MCA (Lateral entry) for BCA/B.Sc. CS/IT Students	Paper 9

11. SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing	Total Period
First Shift 18th June 2015 (Morning)	Paper 1	Physics & Chemistry	8.00 AM to 10:30 AM	2 Hours 30 Minutes
	Paper 7	Aptitude test for Diploma Holders in Pharmacy	8.00 AM to 9:30 AM	1 Hours 30 Minutes
Second Shift 18th June 2015 (Afternoon)	Paper 2	Mathematics	11.00 AM to 12:30 PM	1 Hours 30 Minutes
	Paper 3	Biology (Botany & Zoology)	11.00 AM to 12:30 PM	1 Hours 30 Minutes
	Paper 4	Aptitude Test for General Awareness (BHMCT)	11.00 AM to 12:30 PM	1 Hours 30 Minutes
First Shift 19th June 2015 (Morning)	Paper 5	Aptitude Test for MCA	8.00 AM to 10.30 AM	2 Hours 30 Minutes
	Paper 6	Aptitude Test for Diploma Holder in Engg	8.00 AM to 9.30 AM	1 Hours 30 Minutes
	Paper 8	Aptitude Test for B.Sc. Graduates	8.00 AM to 9.30 AM	1 Hours 30 Minutes
	Paper 9	Aptitude Test for MCA (L.E.) For BCA, B. Sc. CS/IT	8.00 AM to 9.30 AM	1 Hours 30 Minutes

12. SYLLABUS

The Syllabus for each question papers for the UKSEE-2015 is given at Appendix-A.

13. EVALUATION AND DECLARATION OF RESULT

13.1 The results of UKSEE-2015 alongwith answer keys will be declared by last week of June 2015.

13.2 Based on performance of candidates in UKSEE-2015, separate merit list will be prepared for each course. Merit position, score-card with total marks, marks obtained in each subject and answer keys shall be available on website www.uktech.ac.in after the declaration of result.

13.3 In case two or more candidates secure equal marks, inter-se-merit of such candidates shall be determined as follows :

(a) Firstly, by the number of incorrect answer given. A candidate giving lesser number of incorrect answers will be placed at higher merit.

(b) Second By Age only

(Candidate with higher age will be placed at higher merit)

(c) By Lottery (at the time of counseling).

13.4 Candidates are advised to regularly check the website for updates. The University will intimate about the declaration of UKSEE 2015 result through the advertisement in the news paper for the detailed results and further informations regarding counseling dates etc. the candidates are advised to visit our website www.uktech.ac.in regularly.

Counseling will be made on available seats on the day of counseling. Candidate will be responsible for collecting information from website University will not own any responsibility of information other then website : www.uktech.ac.in.

14. FEE AND REFUND OF FEE

14.1 The qualified candidates of UKSEE 2015 has to submit counseling fee of Rs. 1000/- in the form of DD in favor of **Finance Controller, UTU** payable at dehradun.

14.2 Reporting\Couneseling fee of Rs 1000/- will be non refundable.

**SYLLABI FOR UKSEE-2015
PAPER-1 (PHYSICS & CHEMISTRY)**

PHYSICS

Measurement : Dimensional analysis and error estimation, dimension compatibility and significant figures.

Motion in one dimension : Average velocity, instantaneous velocity, one dimensional motion with constant accelerations, freely falling bodies.

Laws of Motion : Force and inertia, Newton's laws of motion and their significance.

Motion in two dimensions : Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

Work, Power and Energy : Work done by a constant and variable forces, kinetic and potential energy, power, conservative and non conservative forces, conservation of energy, gravitational energy, work energy theorem, potential energy stored in a spring.

Linear Momentum & Collisions : Linear momentum and impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

Rotation of a rigid body about a fixed axis : Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

Gravitation : Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

Oscillatory motion : Harmonic motion, oscillatory motion of mass attached to a spring, kinetic and potential energy, Time Period of a simple pendulum, comparing simple and harmonic motion with uniform circular motion, forced oscillations, damped oscillation and resonance.

Mechanics of solids and fluids : States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes Principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

Heat and thermodynamics : First law of thermodynamics, specify heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

Wave : Wave motion, phase, amplitude and velocity of wave, newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

Electrostatics : Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

Current Electricity : Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

Magnetic Effect of Current : Magnetic field due to current, Bio-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

Magnetism in Matter : The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

Electromagnetic Induction : Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

Ray Optics and optical instruments : Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, reflection and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

Wave Optics : Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

Modern Physics : Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionisation potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristics and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of α , β , γ rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistors as an amplifier and Oscillators.

Principles of Logic Gates (AND, OR and NOT) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

CHEMISTRY

Atomic Structure : Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homonuclear molecules, Pauli's exclusion principle.

Chemical Bonding : Electrovalency, co-valency, hybridization involving s,p and d orbitals hydrogen bonding.

Redox Reactions : Oxidation number, oxidising and reducing agents, balancing of equations.

Chemical Equilibrium and Kinetics : Equilibrium constant (for gaseous system only) Le Chatelier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

Acid-Base Concepts : Bronsted Lowry & Lewis.

Electrochemistry : Electrode potential and electro-chemical series.

Catalysis : Types and applications.

Colloids : Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

Colligative Properties of Solution : Lowering of vapour pressure, Osmotic pressure, depression of freezing point elevation of boiling point, determination of molecular weight.

Periodic Table : Classification of elements on the basis of electronic configuration, properties of sp and d block elements, ionization potential, electronegativity & electron affinity.

Preparation and Properties of the following : Hydrogen peroxide, copper sulphate, silver nitrate, plaster of paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulphate.

Thermochemistry : Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralisation, Hess's law.

General Organic Chemistry : Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates : carboniumion, carbanions & free radical, Types of organic reaction, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

Isomerism : Structural, Geometrical & Optical

IUPAC : Nomenclature of simple organic compounds.

Polymers : Addition & condensation polymers

Carbohydrates : Monosaccharides

Preparation and Properties of the Followings : Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

Solid State : Structure of simple ionic compounds, Crystal imperfections (point defects only), Born-Haber cycle.

Petroleum : Important industrial fractions, cracking, octane number, anti knocking compounds

PAPER - 2 (MATHEMATICS)

Algebra : Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integrals through equivalence relation, Indices and surds, solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e. S_n and S_n^2 (nS_n), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of Matrices, Inverse of a Matrix, Use of Matrix for solving equations.

Probability : Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

Trigonometry : Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

Co-ordinate Geometry : Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

Calculus : Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

Vectors : Algebra of vectors, scalar and vector products of two and three vectors and their applications.

Dynamics: Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

Statics : Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

PAPER - 3 (BIOLOGY)

ZOOLOGY

Origin of Life: Oparin's theory, Miller's Experiment, Viruses - structure, properties, distribution, classification and pathogenesis (Eg. AIDS, CANCER), Viroids & Prions, Biotic balance.

Organic Evolution : Relationship among organisms and Evidences of organic Evolution - Principles of Evolution - Lamarkism, Darwinism and Speciation.

Mechanism of Organic Evolution : Variations - Definition, causes and types, Mutations (Principles of Hugo de'Veries), Role of mutations in speciation. Evolution through ages and human evolution.

Human Genetics and Eugenics : Human hereditary traits, study of Twins, A.B.O. blood groups and their inheritance, Rh-factor, Sex determination. Chromosomal aberrations, Important human syndromes, Sex linked characters and their inheritance, Applied Genetics - eugenics, eugenics, euphenics & I.Q. Test.

Applied Biology : Wild life of India - Endangered species : Biosphere Reserves, National Parks

and sanctuaries, Project Tiger, Conservation of wild life, Bio-energy, Poultry, Fisheries (edible fishes), Human Population, Population explosion, problems & control. Test-Tube babies, & Amniocentesis, Application of Biotechnology in human welfare. Human Aging.

Mammalian Anatomy (Eg. Rabbit) : Reproductive system (excluding embryonic development) Osteology, structure and organization of different systems.

Animal Physiology :

- (A) *Animal Nutrition* : Food, Balanced diet, Nutritional imbalances and deficiency diseases, Digestion, Absorption, Assimilation of food, (comparison between human and Rabbit).
- (B) *Animal Excretion and Osmoregulation* : Chemical nature of excretory products in various animals, Physiology of excretion, Function of liver and Kidney (Homeostatic regulatory functions of kidneys), Formation of urine, Osmoregulation by kidneys.
- (C) *Respiratory System* : Exchange and transport of gases (O₂ and Co₂) factors affecting O₂ and Co₂ transport, Cellular respiration, different lung volumes, breathing and sound production.
- (D) *Nervous System* : Central, autonomic and peripheral nervous system, Receptors, Effectors, Reflex-action. Nature and conduction of Nerve-impulses, Synapse, Sense organs - Structure & working of Eye & Ear, Biochemistry of vision and taste buds
- (E) *Endocrine System* : Different endocrine glands and Hormones - definition, types, characteristics and their functions, (in relation to human beings), Hormonal disorders and pheromones.
- (F) *Circulatory System* : Circulation of body fluids - Blood and lymph, Open and closed vascular systems, Structure and working physiology of Heart, Comparison between arteries and veins, Lymphatic system.
- (G) *Animal Diversity* : Classification of Animal kingdom (Based on Storer & Eusinger), Characteristic feature of different phyla and classes with examples.

Detailed studies of followings :

- (a) Protozoa
 - (i) Amoeba- Habit & Habitat, structure, locomotion, reproduction, Osmoregulation, Parasitic amoebae-Entamoeba histolytica and Entamoeba gingivalis, structure, diseases caused by them and their control measures.
 - (ii) Plasmodium vivax-life-cycle, malaria therapy and control.
 - (iii) Protozoan and diseases
- (b) Porifera: A simple sponge (Leucosolenia) : Detailed study of structure & physiology, Sponge industry.
- (c) Coelenterata : Hydra - Habit and Habitat, morphology, tissue differentiation in relation to physiological division of labour and regeneration.
- (d) Aschelminthes : Ascaris - morphology, life-cycle, therapy and control.
- (e) Annelida : Pheretima posthuma - Bionomics and economic importance.

- (f) Arthropoda : (Periplanata) : Structure - external and internal.
 Comparison between Periplanata and Blatta.
- (i) Housefly & Mosquito : structure and life - cycle.
 - (ii) Economic importance of insets & their control.

BOTANY

Plant Cell : Structure & functions electron microscopic structure mitochondria, Plastids centrosomes. Lysosomes, microsomes, endoplasmic reticulum, Nuclear, Golgibodes, D.N.A. & R.N.A. cytoplasm, membranes and cell wall.

Protoplasm : Structure, components physical and chemical properties.
 Cell division (formation) - free cell formation, Amitosis & Meosis, Duplication of D.N.A.

Ecology : Ecological factors (atmospheric, edaphic, climatic, geological & biotic factors).

Ecosystem : Structure, components of ecosystem eg. Water soluble minerals and gases, producers consumers, decomposers, Pond and forest ecosystem.

Atmospheric pollution-causes and control, Types of pollution - Detergents, chemicals automobile exhaust, Radioactive matter, Smog, sound, Pesticides.

Genetics : Mendalism, Mendals experiment and law of inheritance.
 Modern Classification of plant kingdom - (according to ostwald & Tippo) (outline).

Seeds in angiospermic plants : description of development of angiospermic plants (life history of angiospermic plants).

Fruits : Dispersal of fruits and seeds

Cell differentiation Plant Tissue : difference between dicot and Monocot stem. Secondary growth of stem and root. Anatomy of hydrophytes, Xeophytes & Mesophytes.

Important phylums :

Algae : Habitat, general characters & uses, description of ulothrix & spirogyra.

Bacteria : structure - types of nutrition, reproduction and economic importance.

Fungi : structure description of Rhizopus and yeast and their economic importance, Fermentation.

Broyophyta : structure and economic importance, description of funaria (Moss)

Pteridophyta : general structures of pteridophytes description of fern (Droypteris)

General study of gymnosperms and life history of cycas.

Classification of angiospermn,

Description of families - identification and economic importance

Cruciferae, Malvaceae, Leguminosae, compositeae, cucurbitaceae.

Soil :

Absorption of water through root hairs osmosis, Translocation and Root pressure.

Nitrogen cycle.

Special modes of nutrition in plants (Autotrophic, heterotrophic, Parasites, saprophytes, Symbionts insectivorous and their ecological relation.

Photosynthesis : Chloroplast, light, chlorophyll and Carbon dioxide, Mechanism of photosynthesis formation of A.T.P. and their functions and importance of photosynthesis.

Transpiration : factors and importance, Mechanism of opening and closing of stomata.

Respiration : aerobic, anaerobic respiration, mechanism of respiration (Glycolysis, Krebs's cycle, E.T.S.)

Growth & movement : definition of growth, Region of growth & their measurements, types of movements in plants, Growth hormone.

PAPER - 4 (APTITUDE TEST FOR GENERAL AWARENESS (BHMCT))

(A) Reasoning & Logical Deduction :

- Geometrical designs & Identification
- Selection of related letters / words / numbers / figures
- Identification of odd thing / item out from a group
- Completion of numerical series based on the pattern / logic
- Fill in the blanks of the series based on the numerical pattern and logic of the series.
- Syllogisms (logic based questions), Identification of logic & selection of correct answers based on the logic.

(B) Numerical Ability & Scientific Aptitude :

- Arithmetical questions up to 10th standard
- Calculation of fraction, percentages, square roots etc.
- Profit & Loss and Interest calculations
- Data / Table analysis, Graph & Bar Diagram and Pie Chart analysis
- Questions related to common use of science (Physics & Chemistry)
- Health & Nutrition

(C) General Knowledge :

- Current affairs / Events (Political, Social, Cultural & Economic)
- Historical events
- Geography including Tourist Places / Spots
- Current affairs relating to Business & Trade
- Countries & Currencies

- Latest Who's Who?
- Sports & Games

(D) English Language :

- Word Meanings
- Antonyms & Synonyms
- Meaning of Phrases & Idioms
- Fill in the blanks
- Complete / Improvement of the sentences with correct use of Pronouns, Verbs, Adverbs & Adjectives
- Reading comprehension's followed by questions

PAPER - 5 (APTITUDE TEST FOR MCA)

1. Mathematics

Modern Algebra : Idempotent law, identities, complementary laws, Demorgan's theorem, mapping, inverse relation, equivalence relation, Piana's Axiom, definition of rational numbers and integers through equivalence relation.

Algebra : Surds, solution of simultaneous and quadratic equations, arithmetic, geometric and harmonic progression, Binomial theorem for any index, logarithms, exponential and logarithmic series, determinants.

Probability : Definition, dependent and independent events, numerical problems on addition and multiplication of probability, theorems of probability.

Trigonometry : Simple identities, trigonometric equations, properties of triangles, use of mathematical tables, solution of triangles, height and distance, inverse functions, DeMoivre's theorem.

Co-Ordinate Geometry : Co-Ordinate geometry of the straight lines, pair of straight lines, circle, parabola, ellipse and hyperbola and their properties.

Calculus : Differentiation of function of functions, tangents and normal, simple example of maxima of minima, limits of functions, integration of function (by parts, by substitution and by partial fraction), definite integral (application to volumes and surfaces of frustums of sphere, cone and cylinder).

Vectors : Position vector, addition and subtraction of vectors, scalar and vector products and their applications.

Dynamics : Velocity, composition of velocity, relative velocity, acceleration, composition of acceleration, motion under gravity, projectiles, laws of motions, principles of conservation of momentum and energy, direct impact of smooth bodies, pulleys.

Statics : Composition of co-planar, concurrent and parallel forces, moments and couples, resultant of set of coplanar forces and conditions of equilibrium, determination of Centroides in simple case, problems involving friction.

- (ii) **Statistics** : Theory of probability, Mean, Median, Mode, Dispersion and Standard Deviation.
- (iii) **Logical Ability** : Questions to test analytical and reasoning capability of candidates.

PAPER- 6 (APTITUDE TEST FOR DIPLOMA HOLDERS IN ENGINEERING)

Engineering Mechanics, Engineering Graphics, Basic Electrical Engg., Basic Electronics Engg., Elements of computer science, Elementary Biology, Basic Workshop Practice and Physics/Chemistry/Maths of Diploma standard.

PAPER-7 (APTITUDE TEST FOR DIPLOMA HOLDERS IN PHARMACY)

- | | |
|--|--|
| 1. Pharmaceutics-I | 7. Pharmaceutics-II |
| 2. Pharmaceutical Chemistry-I | 8. Pharmaceutical Chemistry-II |
| 3. Pharmacognosy | 9. Pharmacology and Toxicology |
| 4. Biochemistry and Clinical Pathology | 10. Pharmaceutical Jurisprudence |
| 5. Human Anatomy and Physiology | 11. Drug Store and Business management |
| 7. Health Education & Community Pharmacy | 12. Hospital and Clinical Pharmacy |

PAPER- 8 (APTITUDE TEST FOR B.Sc. GRADUATE)

Linear Algebra : Matrix Algebra, Systems of linear equations, Eigen values and eigen vectors.

Calculus : Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivations, Maxima and minima, Multiple integrals, Fourier series. Vector identities, Directional derivatives, Line, Surface and Volume integrals, Stokes, Gauss and Green's theorems.

Differential equations : First order equation (linear and nonlinear), Higher order linear differential equations with constant coefficients, Method of variation of parameters, Cauchy's and Euler's equations, Initial and boundary value problems, Linear partial differential equations with constant coefficients of 2nd order and their classifications and variable separable method.

Complex variables : Analytic functions, Cauchy's integral theorem and integral formula, Taylor's and Laurent's series, Residue theorem, solution integrals.

Probability and Statistics : Sampling theorems, Conditional probability, Mean, Median, mode and standard deviation, Random variables. Discrete and continuous distributions, Poisson, Normal and Binomial distribution, Correlation and regression analysis.

Fourier Series : Periodic functions, Trigonometric series, Fourier series of period $2p$, Euler's formulae, Functions having arbitrary period, Change of interval, Even and odd functions, Half range sine and cosine series.

Transform Theory : Laplace transform, Laplace transform of derivatives and integrals, Inverse Laplace transform, Laplace transform of periodic functions, Convolution theorem, Application to solve simple linear and simultaneous differential equations.

Fourier integral, Fourier complex transform, Fourier sine and cosine transforms and applications to simple heat transfer equations.

Z-transform and its application to solve difference equations.

Paper - 9

MCA Lateral Entry (MCA Direct Second Year)

There shall be one paper of 90 minutes duration carrying 75 marks containing 75 multiple choice questions on mathematical Aptitude, Computer Science (BCA/B.Sc (CS)/B.Sc. (IT) Level and Logical Reasoning.

Mathematical Aptitude Test Areas: Logarithms, Surds, solution of simultaneous and quadratic equations, Inequalities, Matrices and Determinants, Progressions, Binomial Expansion, Permutation and Combination, Function and Relation, 2-D Coordinate Geometry, Basics of Calculus, Basic Concepts of Probability.

Algebraic Structure : Group, Ring and Fields. Boolean Algebra and Propositional Logic.

Computer Science : Representation of information & Basic Building Blocks of Computer System , Basic Operating System Concept, Algorithm development, Programming Language, Procedural and Object Oriented Programming, Basics of Data Structure with Array, Stack, Queue, Tree, Fundamental of C++ and java Programming Languages.

Relational Data Model, SQL, Database Design & Normalization.

Fundamentals of Computer Network, Network Topology, TCP/IP and related protocols

Accounting : Principal of accounting, Basic financial concepts, capital budgeting, costing, ratio analysis.

Analytical and Logical Reasoning : Questions will be mainly for checking logical conclusion, graphical/data interpretation, etc.

List of Government Institutions for Lateral Entry B.Tech & No. Seats Available for Admission

College Of Technology, Pantnagar	AG	12
	CE	12
	CSE	12
	ECE	12
	EE	12
	IT	9
	ME	12
	IPE	9
College of Basic Sciences and Humanities, Pantnagar	Bio Tech	8
Govind Ballabh Pant Engineering College, Pauri	CE	12
	CSE	12
	EE	12
	ECE	12
	ME	12
	PE	3
	BT	12
Bipin Tripathi Komaoun Engineering College, Dwarahat	CE	12
	CSE	12
	ECE	12
	EE	12
	BCE	6
	CHEM	12
	ME	12
Seemant Institute of Technology, Pithoragarh	CE	12
	EE	12
	CSE	12
	ECE	12
	ME	12
Women Institute of Technology, Dehradun (For Womens Only)	ECE	60
	EE	60
	CSE	60
	CE	60
	ME	60
Institue of Technology, Gopeshwar	CE	12
	EE	12
	CSE	12
	ECE	12
	ME	12

List of Private Institutions for Lateral Entry B.Tech & No. Seats Available for Admission

Amrapali Institute of Technology & Sciences, Haldwani	CSE	12
	ECE	12
	EEE	12
	IT	12
	ME	12
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BSM College of Engineering, Roorkee	CE	12
	CSE	12
	EE	12
	ME	12
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Beehive College of Engg. & Technology, Selaqui	CE	12
	CSE	12
	EEE	12
	IT	12
	ME	12
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Birla Institute of Applied Sciences, Bhimtal	CSE	12
	ECE	12
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Bishamber Sahai Institute of Technology, Roorkee	CE	12
	ECE	12
	EE	12
	IT	12
	ME	24
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College of Engineering Roorkee, Roorkee	AEI	12
	CE	24
	CSE	24
	EN	24
	ETE	24
	IT	18
	ME	24
	PPE	12
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Dev Bhoomi Institute of Technology, Dehradun	CE	24
	CSE	24
	ECE	24
	EEE	12
	ME	24
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Dev Bhoomi Institute of Technology & Engg., Dehradun	CE	12
	CSE	24
	ECE	24
	EEE	12
	IT	12
	ME	12
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Doon Institute of Engineering & Technology, Rishikesh	CE	12
	CSE	12
	ECE	12
	EEE	12
	ME	12
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Doon College of Engineering and Technology, Thakurpur, Dehradun	AutoEN	12
	Chem	12
	CSE	12
	ECE	12

Drona's College of Management & Technical Education, Dehradun	CE	12
	CSE	12
	ECE	12
	EEE	12
	ME	12
GRD Institute of Management and Technology, Dehradun	CE	24
	CSE	12
	ECE	12
	EEE	12
	ME	24
ITR, Roorkee	CE	12
	CSE	12
	ECE	12
	EEE	12
	IT	12
JBIT, Dehradun	CE	12
	CSE	12
	ECE	12
	EE	12
	ME	24
Maya Institute of Technology & Management, Dehradun	CE	12
	CSE	12
	ECE	12
	EEE	12
	ME	12
MIET, Haldwani	CE	12
	CSE	12
	ME	24
Phonics Group of Institutions, Roorkee	CE	12
	CSE	12
	ECE	12
	EEE	24
	ME	24
Quantum School of Technology, Roorkee	CE	24
	CSE	24
	ECE	12
	EE	12
	EEE	12
	IT	12
	ME	24
Mechtr	12	
RIPM&T, Haridwar	CE	12
	CSE	12
	ECE	12
	EEE	12
	ME	12
RCE, Roorkee	CE	24
	CSE	12
	ECE	24

	PTE	12
	Auto EN	12
RIT, Roorkee	CE	24
	CSE	24
	ECE	12
	EE	12
	EEE	12
	IT	12
	ME	24
Shivalik, DDN	CE	24
	CSE	12
	ECE	12
	EEE	12
	ME	24
Surajmal, Kiccha	AE	12
	CSE	12
	ECE	12
	EEE	12
	IT	12
	ME	24
Tula's, DDN	CE	24
	CSE	24
	ECE	24
	EEE	12
	IT	12
	ME	24
Techwords, Roorkee	CE	12
	CSE	12
	ECE	12
	IT	12
	ME	12

ABBREVIATIONS :

Auto EN	-	Auto Mobile Engg.
AEI	-	Applied Electronics and Instrumentation.
AG	-	Agriculture Engg
BCE	-	Bio- Chemical Engg.
BT	-	Bio Tech.
CE	-	Civil Engg.
CSE	-	Computer Science Engg
Chem	-	Chemical Engg
EE	-	Electrical Engg
EN/EEE	-	Electrical & Electronic Engg
ECE	-	Electronics & Comm. Engg.
ET	-	Electronics & Tele communication Engg.
IT	-	Information Technology
IPE	-	Industrial & Production Engg
ME	-	Mechanical Engg.
Mechtr	-	Mechatronics Engg.
PE	-	Production Engg.
PPE	-	Plastic & Polymer Engg.
PTE	-	Petroleum Engg

List of Pharmacy Colleges

Sl.No.	Name Institute with full address	Course	Intake	Lateral Entry Intake (20%)
01	GRD (PG) IMT, 214, Rajpur Road, Dehradun-248009	B. Pharma	60	12
		M.Pharma (Pharmaceutics)	18	-
		M.Pharma (Pharmacognosy)	18	-
		M.Pharma(Pharmacology & Toxicology)	18	-
02	S.G.R.R. Academy of Pharmaceutical Sciences, Patelnagar, Dehradun-248001 (Uttarakhand)	B. Pharma	60	12
		M.Pharma (Clinical Pharmacy)	18	-
		M.Pharm a(pharmaceutics)	18	-
		M.Pharma(pharmacology)	18	-
		M.Pharma(Quality Assurance)	18	-
03	Roorkee College of Pharmacy, 09 Mile Stone, Roorkee-Dehradun Highway, Vill- Kishanpur, Roorkee-247667, Distt- Hardwar (Uttarakhand)	B. Pharma	60	12
		M.Pharma (Quality Assurance)	18	-
		M.Pharma(Pharmacology)	18	-
		M.Pharma (Pharmaceutics)	18	-
04	Shree Dev bhoomi Institute of Education Science & Technology, Vill-Manzhon, P.O. Pondha, Premnagar, Dehradun-248001 (UK)	B. Pharma	60	24
		M.Pharma (Quality Assurance)	18	-
		M.Pharma (Pharmaceutics)	18	-
05	Sardar Bhagwan Singh (PG) Institute of Bio-Medical Sciences & Research, Vill & P.O. Balawala, Dehradun-248 161 (Uttarakhand)	M. Pharma (Pharmaceutics 1st shift)	18	-
		M. Pharma (Pharmaceutics 2nd shift)	18	-
		M. Pharma (Pharmacognosy)	18	-
		M. Pharma (Pharmacology & Toxicology)	18	-
		B. Pharma	60	12
		B. Pharma	60	12
06	Himalayan Institute of Pharmacy & Research, Atak Farm, Post-Rajawala, Via- Premnagar, Dehradun-248001 (Uttarakhand)	B. Pharma	120	24
		M.Pharma (Pharmaceutical Chem.)	18	-
		M.Pharma(Pharmaceutics)	18	-
		M.Pharma (Pharmacology)	18	-
07	Gyani Inder Singh Institute of Professional Studies, Mussoorie Diversion Road, Near Malsi Deer Part, Post-Sinola, Dehradun-248 003 (Uttarakhand)	B. Pharma	60	12
		M.Pharma (Pharmaceutics)	18	-
		M.Pharma (Quality Assurance)	18	-
08	Smt. Tarawati Institute of Bio-Medical & Applied Sciences, 06KM. Mile Stone, Roorkee-Dehradn Highway, Saliyar, Roorkee-247667, Distt-Hardwar (UK)	B. Pharma	60	12
		M.Pharma (Pharmaceutics)	18	-
09	Siddhartha Institute of Pharmacy, Vill- Danda Khudanewala, Do Bachchi, Sahastradhara Road, Dehradun-248001 (Uttarakhand)	B. Pharma	60	12
		M.Pharma (Pharmacology)	18	-
		M.Pharma (Pharmaceutical Chem.)	18	-
10	Global Institute of Pharmaceutical Education & Research, Jaspur Road, Teh. Kashipur, Distt- Udham Singh Nagar-244713 (Uttarakhand)	B. Pharma	60	12
		M.Pharma (Pharmaceutical Chem.)	18	-
		M.Pharma (Pharmaceutics)	18	-

11	Om Bio-Sciences & Pharma College, 01Km. From Patanjali Yoge Peeth, Near Crystal World, Vill- Panchayanpur, P.O. Daulatpur, Roorkee-249402, Distt- Hardwar (Uttarakhand)	B. Pharma	60 12
12	Dev Bhoomi Institute of Pharmacy & Research, Dehradun.	B. Pharma	60 12
		M.Pharma (Pharmacology)	18 -
		M.Pharma (Pharmaceutics)	18 -
13	Devsthali Vidhyapeeth College of Pharmacy, Rudrapur (U.S. Nagar)	B. Pharma	66 13
		M.Pharma (Pharmaceutics)	24 -
		M.Pharma (Pharmacology)	24 -
14	Ramanand Institute of Pharmacy & Management, Haridwar	B. Pharma	60 12
		M.Pharma (Pharmaceutics)	18 -
		M.Pharma (Pharmacology)	18 -
15	Kumaun University Nainital	B. Pharma	30 6

List of MCA Colleges

Sl.No.	Name Institute with full address	Course	Intake	Lateral Entry Intake (20%)
01	Amrapali Institute of Management & Computer Applications, Shikshanagar, Haldwani	MCA	60	12
		MCA 2nd yr	60	12
02	S.G.R.R. Institute of Technology & Science, Patelnagar, Dehradun	MCA	60	12
03	Tula's Institute, Dhoolkot, P.O. Selaqui, Dehradun	MCA	60	12
04	Roorkee Institute of Technology, 08Km. Dehradun Road, Puhana, Roorkee, Distt-Haridwar	MCA	60	12
05	Mahadevi Institute of Technology, 10, New Road, Dehradun	MCA	60	12
06	Academy of Management Studies, Nanda Ki Chowki, Premnagar, Dehradun	MCA	45	09
07	Saraswati Institute of Management & Technology, Rudrapur-Gadarpur Road, Udham Singh Nagar	MCA	60	12
08	Birla Institute of Applied Science, Bhimtal, Nainital	MCA	45	09
09	Institute of Management Studies, Roorkee	MCA	60	12
10	Wali Gramoudhyoga Vikas Sansthan 'TECHWORDS' Groups of Institutions, Manglore, Roorkee	MCA	60	12
11	COER School of Management, Roorkee	MCA	60	12
12	Devbhoomi Institute of Technology, Manduwala, Dehradun	MCA	60	12
13	BTKIT, Dwarahat	MCA	60	12
14	GBPEC, Ghurdauri, Pauri	MCA	60	

List of BHMCT College

Sl.No.	Name Institute with full address	Course	Intake
01	Amrapali Institute of Hotel Management, Shikshanagar, Haldwani	BHMCT	60
02	Kukreja Institute of Hotel Management & Catering Technology, Mata Mandir Road, Ajabpur Khurd, Dehradun	BHMCT	90
03	Govt. Institute of Hotel Management, Patel Nagar, Dehradun	BHMCT	60
04	Govt. Institute of Hotel Management, Almora	BHMCT	60

Frequently Asked Questions

Qus 1. How Seat allocation will be made in UKSEE 2015

Ans. The counselling /seat allocation will be made in order of merit of All India General Main category of UKSEE 2015.

Qus. 2. Whether the state quota candiadate is eligible for All India Quota.

Ans. Yes, State quoata candiate is also eligible for All India seat.

Qus. 3. Whether a candidate of diploma in agriculture is eligible for B.Tech. Lateral entry admission?

Ans. NO.

Qus. 4. Whether a candidate failed/compartment in qualifying exam is eligible or not for seeking admission through UKSEE-2015

Ans. The candidate will not be given admission in any case.

Qus. 5. Whether the OBC certificate of a candidate of old financial year is acceptable or not.

Ans. The OBC certificate of current financial year ie 1st, April 2015-to 31 March 2016 will only be valid. The OBC certificate of old/earlier financial year is not valid in any case.

Format of Certificates for Categories and Sub Categories

CERTIFICATE-1

प्रमाण पत्र-1

अनुसूचित जाति, अनुसूचित जनजाति (UKSC, UKST)
(उस जिले के जिलाधिकारी द्वारा प्रमाणित जिसका अभ्यर्थी मूल निवासी है)

प्रमाणित किया जाता है कि श्री / कु.....
पुत्र / पुत्री श्री..... निवासी गांव / शहर.....

तहसील..... जिला..... प्रदेश.....
का

जन्म..... जाति में हुआ था और यह जाति अनुसूचित जाति / अनुसूचित जनजाति आदेश
(संशोधन) एक्ट 1956 के अन्तर्गत भारत सरकार / उत्तराखण्ड शासन / सरकार द्वारा मान्य
अनुसूचित जाति / अनुसूचित जनजाति है।

स्थान : हस्ताक्षर
अभ्यर्थी : नाम
मोहर
जिलाधिकारी / अतिरिक्त जिलाधिकारी / सिटी
मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

CERTIFICATE-2

प्रमाण पत्र-2

उत्तराखण्ड के अन्य पिछड़े वर्ग के लिये जाति प्रमाण पत्र (UKBC)

प्रमाणित किया जाता है कि श्री / कु.....
पुत्र / पुत्री श्री..... निवासी गांव / शहर.....

तहसील..... जिला..... उत्तराखण्ड राज्य की पिछड़ी जाति के व्यक्ति हैं।
यह जाति उत्तराखण्ड लोक सेवा (अनुसूचित जाति / अनुसूचित जनजातियों तथा अन्य पिछड़े वर्गों के लिये आरक्षण)
अधिनियम 1994 की अनुसूची-1 के अन्तर्गत मान्यता प्राप्त है।

यह भी प्रमाणित किया जाता है कि श्री / श्रीमती / कु.....
तथा उनका परिवार उत्तराखण्ड के ग्राम तहसील.....
नगर..... जिला..... में सामान्यतः रहता है।

स्थान : हस्ताक्षर
अभ्यर्थी : नाम
मोहर
जिलाधिकारी / अतिरिक्त जिलाधिकारी / सिटी
मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

नोट : यह प्रमाण पत्र इस प्रारूप में मार्च 31, 2015 के बाद का ही मान्य होगा। तिथि से पहले का कोई भी प्रमाणपत्र मान्य नहीं होगा। अभ्यर्थियों से आशा की जाती है कि इसी प्रारूप में उक्त तिथि के बाद का प्रमाण पत्र प्रस्तुत करें।

CERTIFICATE-3

प्रमाण पत्र-3

उत्तराखण्ड स्थायी निवासी के पुत्र/पुत्री

(उस जिले के जिलाधिकारी द्वारा प्रमाणित जिसका अभ्यर्थी निवासी है)

प्रमाणित किया जाता है कि श्री / कु.....
पुत्र/पुत्री श्री.....निवासी गांव/शहर.....
तहसील.....जिला.....के स्थायी निवासी हैं
तथा श्री/कु.....अपने माता/पिता पर पूर्णतया
आश्रित हैं।

दिनांक : हस्ताक्षर जिलाधिकारी
स्थान : नाम
अभ्यर्थी के माता/पिता के हस्ताक्षर मोहर
अभ्यर्थी के हस्ताक्षर

CERTIFICATE-4

प्रमाण पत्र-4

Sub Category (UKAF)

यह प्रमाणित किया जाता है कि श्री / कु.....
निवासी ग्राम/शहर.....तहसील.....
जिला.....उत्तराखण्ड.....दिनांक.....
को सेवानिवृत्त (Superannuated) युद्ध में मारे गये/अपंग हो गये। वे उस समय भारतीय थल सेना/जल सेना/वायु सेना
स्थान.....के.....पर कार्यरत थे।

दिनांक : यूनिट कमान्डिंग ऑफिसर के हस्ताक्षर
स्थान : नाम
अभ्यर्थी के माता/पिता के हस्ताक्षर मोहर
अभ्यर्थी के हस्ताक्षर जिलाधिकारी द्वारा प्रमाणित

यह प्रमाणित किया जाता है कि श्री/कु.....
निवासी ग्राम/शहर.....तहसील.....
जिला.....उत्तरांचल.....दिनांक.....
उपरोक्त सेना दल के सेवानिवृत्त (Superannuated) युद्ध में मारे गये/अपंग हो गये। कर्मचारी जो उत्तराखण्ड के स्थायी
निवासी /थे, के पुत्र/पुत्री हैं।

दिनांक : हस्ताक्षर
स्थान : पूरा नाम
मोहर

CERTIFICATE-5

प्रमाण पत्र-5

Sub Category (UKFF)

यह प्रमाणित किया जाता है कि श्री / कु.....
निवासी ग्रामतहसील.....नगर.....
जिला.....लोक सेवा अधिनियम 1993 के अनुसार स्वतंत्रता संग्राम सेनानी और श्री / श्रीमती / कु.
(आश्रित)..... पुत्र / पुत्री / पौत्र / अविवाहित पौत्री उपरंकित
अधिनियम 1993 के ही प्रावधानों के अनुसार उक्त श्री / श्रीमती (स्वतंत्रता संग्राम सेनानी)
के आश्रित हैं।

दिनांक :

स्थान :

अभ्यर्थी के माता / पिता के हस्ताक्षर

अभ्यर्थी के हस्ताक्षर

हस्ताक्षर जिलाधिकारी

नाम

मोहर

(जिला मजिस्ट्रेट द्वारा प्रमाणित)

CERTIFICATE-6

प्रमाण पत्र-6

Sub Category (UKPH)

CERTIFICATE FOR PHYSICALLY HANDICAPPED

This is to certify that Mr./Ms.....son/daughter of
Mr.....is physically handicapped due to following reasons.

(To be written by Chief Medical Officer only)

It is also certified that above handicap will not prove detrimental to the study of MCA Course.

Date :

Place :

Signature of candidate

Signature of CMO

Name

Seal

Eligibility for Physically Handicapped

Following type of physical handicap shall be permissible for admission to MCA course through UKSEE-2015 provided further that the candidate should have only one type of physical handicap.

Type	Handicap Details
i)	One leg (Defective or missing)
ii)	One hand (Defective or missing)
iii)	One eye (Defective or missing)

The Co-ordination Committee UKSEE-2015 reserves the right to accept/reject the claim of candidate as physically handicapped.

18. CHECK LIST

Before mailing/submitting the OMR application Form the candidates are required to check that :

- The OMR applicaiton form has been filled completely in all respects and declaration made by the candidate and his/her parents (father/mother) is dully signed by them only.
- One unattested passport size black & white photograph (showing portion of the body chest upwards) is pasted on the application form at the prescribed place. Do not get it attested.
- The candidates has put his/her signature with black/blue ball pen within the prescribed box in the application form.
- The candidate has written his/her name and complete mailing address in **capital letters** with blue/black ball pen within the prescribed box in the application form.
- The candidate has noted down the application form number for future correspondene with UKSEE office.
- The category, sub-category, weightage, domicile status, courses, place of examination city etc. as applicable have been claimed and properly filled in the application form and the corresponding circles have been darkened. The category, sub-category, weight-age, domicile status etc. shall not be changed at a later stage under any circumstances.
- All entries on the envelope are complete.
- Only one OMR application form has been kept in the envelop without folding it.
- No certificate/attested copy of certificate is enclosed with the application form.
- Use HB pencil to fill circles in OMR application form. Machine reads only pencil-darkened circles. What you write in the rectangular boxes with black ball pen above the circles is only for your guidance to enable you to fill the correct circles.
- Each candidate should submit only one OMR application form irrespective of number of courses he/she intends to appear.

NOTE:

Application form, incomplete in any respect, shall stand rejected without any information to the candidate. Fill the application form completely and carefully. Note down the application form number. No further correspondence shall be entertained without application Form Number / Roll Number (after receipt of admit card).

ओ.एम.आर. आवेदन पत्र भेजने/जमा करने से पूर्व अभ्यर्थी निम्न बातों की जाँच कर लें कि :-

आवेदन पत्र पूरी तरह भरा गया है तथा घोषणा पत्र अभ्यर्थी तथा उसके पिता/अभिभावक द्वारा हस्ताक्षरित है।

एक अप्रमाणित श्वेत श्याम पासपोर्ट आकार का फोटो (जिसमें सीने के ऊपर का भाग दिख रहा हो) आवेदन पत्र पर निर्धारित खाने में चिपकाया गया है। फोटो को प्रमाणित न कराये।

अभ्यर्थी ने अपने हस्ताक्षर नीले/काले बाल पेन से आवेदन पत्र के निर्धारित खाने में कर दिये हैं।

अभ्यर्थी ने अपना नाम तथा पूरा पता नीले/काले बाल पेन से Capital letters में आवेदन पत्र के निर्धारित खाने में लिख दिया है।

अभ्यर्थी ने भविष्य में UKSEE कार्यालय से पत्राचार हेतु आवेदन पत्र संख्या अपने पास नोट कर ली है।

अभ्यर्थी ने आवेदन पत्र में निर्धारित स्थानों पर श्रेणी, उप श्रेणी, अधिमान, स्थाई निवास आवश्यकतायें, पाठ्यक्रम, परीक्षा स्थान आदि जैसा लागू हो सही-सही भर दिया है तथा सम्बन्धित गोलों को काला कर दिया है। बाद में किसी भी परिस्थिति में मुख्य श्रेणी, उप श्रेणी, अधिमान स्थायी निवास आवश्यकतायें आदि बदली नहीं जायेंगी।

लिफाफे पर सभी प्रविष्टियां कर दी गयी हैं।

एक लिफाफे में केवल एक ओ.एम.आर. आवेदन पत्र बिना मोड़े रखा गया है।

आवेदन पत्र के साथ कोई भी मूल प्रमाण पत्र/अभिप्रमाणित प्रति संलग्न नहीं की गयी है।

ओ.एम.आर. आवेदन पत्र के गोलों को केवल एच.बी. पेंसिल से ही भरे। मशीन केवल पेंसिल से भरे गये गोलों को ही पढ़ती है। गोलों के ऊपर के चौकोर खानों में आप काले बाल पेन से जो लिखेंगे वह केवल गोलों को सही भरने में आपकी सहायता हेतु है।

प्रत्येक अभ्यर्थी केवल एक ही आवेदन पत्र जमा करे, चाहे कितने भी पाठ्यक्रमों में वह बैठना चाह रहा हो।

नोट :-

अपूर्ण आवेदन पत्र बिना किसी पूर्व सूचना के अस्वीकार कर दिया जायेगा। आवेदन पत्र ध्यान से पूरा भरे। आवेदन पत्र संख्या अपने पास नोट कर लें। आवेदन पत्र संख्या/रोल नं. (प्रवेश पत्र मिलने के बाद) के बिना किसी प्रकार का पत्राचार स्वीकार नहीं होगा।



Seemant Institute of Technology

✦ Established in 2011 by the Government of Uttarakhand.

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URGENT ATTENTION

Subject	Dates
Sale of Application Form from Dehradun GPO, Roorkee HO, Kotdwar HO, Haldwani HO, Rudrapur, Ramnagar, Mussoorie, Haridwar, Tehri, Rishikesh, MDG, Rudraprayag, Pauri, Srinagar, Almora, Ranikhet, Khatima Bageshwar, Pithoragarh, Vikasnagar, Chakrata, and outside of Uttarakhand from Post Offices of New Delhi GPO.	25 April, 2015
Application Forms will be available for sale from Uttarakhand Technical University, Dehradun (Uttarakhand) & from affiliated Institutes of Uttarakhand Technical University	
last date for receipt of completed Application Form in the office of Registrar, Uttarakhand Technical University, Dehradun (Uttarakhand)	30th, May 2015 (5.00PM)
Dispatch of Admit Cards	1st week of June, 2015
Dates of Examination	18th & 19th June 2015
Declaration of Result	25th June 2015
Date of Counseling	3rd Week of July, 2015

SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing	Total Period
First Shift 18th June, 2015 (Morning)	Paper 1	Physics & Chemistry	8.00 AM to 10:30 AM	2 Hours 30 Minutes
	Paper 7	Aptitude test for Diploma Holders in Pharmacy	8.00 AM to 9:30 AM	1 Hours 30 Minutes
Second Shift 18th June, 2015 (Afternoon)	Paper 2	Mathematics	11.00 AM to 12:30 PM	1 Hours 30 Minutes
	Paper 3	Biology (Botany & Zoology)	11.00 AM to 12:30 PM	1 Hours 30 Minutes
	Paper 4	Aptitude Test for General Awareness (BHMCT)	11.00 AM to 12:30 PM	1 Hours 30 Minutes
First Shift 19th June, 2015 (Morning)	Paper 5	Aptitude Test for MCA	8.00 AM to 10.30 AM	2 Hours 30 Minutes
	Paper 6	Aptitude Test for Diploma Holder in Engg	8.00 AM to 9.30 AM	1 Hours 30 Minutes
	Paper 8	Aptitude Test for B.Sc. Graduates	8.00 AM to 9.30 AM	1 Hours 30 Minutes
	Paper 9	Aptitude Test for MCA (L.E.) For BCA, B. Sc. CS/IT	8.00 AM to 9.30 AM	1 Hours 30 Minutes

HOW AND WHOM TO CONTACT

Contact Address	Phones/Fax/website
Uttarakhand Technical University, Govt. Girls Polytechnic Campus P.O., Chandanwadi, Premnagar Sudhowala, Dehradun (Uttarakhand)	0135-2770126, 127, 128 Fax : 0135-2770124, 119, 130 www.uktech.ac.in email : exams.utu@gmail.com