PROSPECTUS
(2020 – 2021)

For Admissions to Undergraduate, Masters’
(for bonafide residents of Uttarakhand) &
Ph.D. Programmes

GOVIND BALLABH PANT
UNIVERSITY OF AGRICULTURE & TECHNOLOGY,
PANTNAGAR – 263145, U.S. NAGAR
UTTARAKHAND, INDIA
## CONTENTS

### PARTICULARS

<table>
<thead>
<tr>
<th>Sources of Availability of Application Form and Prospectus</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Important Instructions for Candidates</td>
<td>4–6</td>
</tr>
<tr>
<td>Instructions to Candidates for Filling of Online Application Form</td>
<td>7–9</td>
</tr>
</tbody>
</table>

### Chapters

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>The University, Colleges, Department of Student Welfare, Placement &amp; Counselling, University Library, Medical Health Services</td>
<td>10–14</td>
</tr>
<tr>
<td>II</td>
<td>Admission Criteria and Entrance Examination, Time of Admission, Date and Time of Entrance Examination, Places of Examination, Application procedure, Examination fee and Last Date for submission of Application, Admission of sponsored/nominated candidates, Number of seats &amp; Eligibility Qualifications, Distribution of seats, Reservations, Admission of sponsored candidates, Mode of Admission (Subject and scheme of examination, Basis of selection for Admission, Counselling), Medical Examination, Admit Cards, Age Limit, Refusal of Admission, Category &amp; Rural/Agriculturalist/Sports/NCC weightages, Subject Groups for Masters' Programmes, Syllabus, Registration of fresh students and Normal &amp; Maximum duration of the programmes, Fee and Refund of fee at the time of Counselling/Admissions.</td>
<td>15–32</td>
</tr>
</tbody>
</table>

### Appendix

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>I A</td>
<td>Admission Criteria for candidates admitted through All India Entrance Examination conducted by ICAR/VCI</td>
<td>33</td>
</tr>
<tr>
<td>I B</td>
<td>Minimum Eligibility Qualifications for Sponsored/Nominated candidates</td>
<td>33–34</td>
</tr>
<tr>
<td>II</td>
<td>Format for Medical Certificate</td>
<td>35</td>
</tr>
<tr>
<td>III</td>
<td>Medical Standards</td>
<td>36</td>
</tr>
<tr>
<td>IV</td>
<td>Solemn Voluntary Declaration Form</td>
<td>37</td>
</tr>
<tr>
<td>V</td>
<td>Affidavit by the student for non participation in ragging</td>
<td>38</td>
</tr>
<tr>
<td>VI</td>
<td>Affidavit by Parent/Guardian</td>
<td>39</td>
</tr>
<tr>
<td>VII</td>
<td>Category formats and Weightage Certificates</td>
<td>40–44</td>
</tr>
<tr>
<td>VIII</td>
<td>Syllabus for Entrance Examination of Undergraduate Programmes</td>
<td>45–50</td>
</tr>
<tr>
<td>IX</td>
<td>Syllabus for Entrance Examination of Masters' Programmes</td>
<td>51–55</td>
</tr>
<tr>
<td>X</td>
<td>Syllabus for Entrance Examination of M.C.A. Programme</td>
<td>56</td>
</tr>
<tr>
<td>XI</td>
<td>Format for forwarding application form for sponsored candidates</td>
<td>57</td>
</tr>
</tbody>
</table>

### Important Information at a Glance | 58
APPLICATION FORM AND PROSPECTUS FOR ENTRANCE EXAMINATION 2020-2021

Note: (i) For Undergraduate and Masters’ programmes, only Bonafide Residents of Uttarakhand are eligible (See Chapter –II (5).

(ii) For M.Tech. programmes (except Agricultural Engineering programmes) over and above the sanctioned seats, 30 percent of sanctioned seats are allotted to Other State candidates. Applications will be filled up by the applicants but admissions will be made on the basis of their GATE qualified scores and/or B.Tech. marks (if seats remain vacant and no GATE qualified applicants are available).

(iii) In Ph.D. programmes (except Ph.D. in Management) over and above the sanctioned seats, 25 percent of sanctioned seats shall be filled from the Other State candidates through the Entrance Examination conducted by the University.

(iv) No Entrance Examination is conducted by the University for Admissions to any B.Tech. Programme (except B.Tech. Food Tech.). The seats for other B.Tech. programme are filled up through Joint Entrance Examination conducted by National Testing Agency (NTA).

1. Application Procedure
   (i) Only ONLINE application form procedure is available. To submit application form candidates should log on to the website: www.gbpuat.ac.in of the university.

   (ii) The candidates appearing in the qualifying examination may also apply provided they upload scanned copy of their marks-sheet at the time of online counseling failing which their candidature will not be considered for online counseling or seat allotment.

2. Online filling of Application form
   (a) Online filling of application form for UG, Masters, MCA and Ph.D. Programmes: 01-03-2020 to 10-04-2020
   (b) Online filling of application form for M.Tech. Programmes and Sponsored candidates for Masters’, M.Tech. and Ph.D. programmes (GBPUIAT employees and Development Departments of State Govt. are eligible): 01-04-2020 to 15-05-2020

3. Last date for receipt of print out of online application form
   (a) UG, Masters’, MCA and Ph.D. programmes: 18-04-2020
   (b) M.Tech. programmes and Sponsored candidates for Masters’, M.Tech. and Ph.D. programmes: 30-05-2020

4. Application and Examination fee Details

<table>
<thead>
<tr>
<th></th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>For General/OBC</td>
<td>Rs. 1200.00</td>
</tr>
<tr>
<td>For SC/ST/PH</td>
<td>Rs. 600.00</td>
</tr>
</tbody>
</table>

5. List of documents to be submitted alongwith the application form
   1. Confirmation page print out of application form.
   2. Copy of Online Fee Receipt
   3. Self attested copy of Uttarakhand/J & K Domicile certificate (For UG only)
   4. Self attested copy of Category and Weightage Certificate, if eligible
   5. Self attested copies of High School Certificate and Certificate/Marks-sheet of qualifying examination (candidates appearing in qualifying examination can upload/submit their Certificate/Marks-sheet before online counselling).
   (The candidates appearing in the qualifying examination must send the marksheet of the previous year.)

Documents to be put in an Envelope of size 12” x 9” and superscribing “Application for Undergraduate/Masters’/ MCA/M.Tech./Ph.D.” so as to reach positively by due date at the following address:

To,

The Coordinator Admissions
G.B. Pant University of Agriculture & Technology,
Pantnagar – 263145, Distt.- U.S. Nagar (Uttarakhand)

3
IMPORTANT INSTRUCTIONS FOR CANDIDATES

1. The application form must be filled up in all respects. Incomplete application is liable to be rejected.

2. (i) Candidates claiming Rural weightage of Uttarakhand (Certificate No. 6)/Sports weightage (Certificate No. 8) or Agriculturist weightage (Certificate No. 9) or NCC weightage certificate are required to submit self attested photocopy of relevant certificate along-with the print out of online application form.

(ii) Candidates should attach the required documents in support of their application. The document/certificate once submitted with the application shall not be returned. No document/certificate/information furnished after the closing date shall be entertained except certificate of Bonafide Residents of Uttarakhand, O.B.C. certificate and the marks-sheet of the qualifying examination.

3. If a candidate provides any wrong information in the application form, his/her application shall be summarily rejected. If any candidate secures admission in the University by providing wrong information his/her admission shall be cancelled on detection of the facts at the cost and risk of the candidate.

4. If a candidate who is not eligible to appear in the entrance examination does so, he/she will not have any claim whatsoever for admission and the application/examination fee deposited by him/her shall not be returned.

5. All admissions shall be provisional in the first instance and the Vice-Chancellor of the University reserves the right to cancel the admission granted to a candidate without assigning any reason.

6. Ph.D. candidates must mention the Code of the Ph.D. programme to which the admission is being sought in the prescribed column, failing which any programme could be allotted to him/her according to the eligibility and he/she will have no claim for changing the programme subsequently.

7. The candidates are advised in their own interest to fill online application form and send the print out of online application form well in time along with the required documents through Registered/Speed Post. The last date for the receipt of print out of online application form is 18.04.2020. The application delivered either by post or personally after 18.04.2020 shall not be entertained under any circumstances.

8. The candidates should fully ensure before despatching the printout of online application form that they fulfill the eligibility requirements for admission/appearing in the entrance examination. The fee once paid shall not be refunded in the event of rejection of the application. Only eligible candidates will be considered for admission.

9. It may be carefully noted that the candidate who has been punished at any time in his/her earlier academic career for having taken part in the activities of indiscipline or use of unfair means in any of the examination shall not be eligible for admission. In case, he/she secures admission by concealing any of the facts on these points or through oversight or clerical error on the part of Coordinator Admission’s office, the admission is liable to be cancelled as and when it is detected.

10. The records of the Entrance Examination shall be preserved only for a period of six months.

11. In all matters relating to admission, decision of the Admissions Committee of the University shall be final.

12. A candidate found using unfair means in the Entrance Examination will invite cancellation of his/her result, non-refund of application/examination fee and punishment as may be deemed proper by the Admissions Committee of the University.

13. University has all the rights to change the centre of examination.

14. The candidates shall have to deposit the total amount of fee prescribed by the University before issuing the I.D. number.
15. The candidates shall have to complete the registration formalities within one week of the commencement of registration. Late reporting will not be accepted for admission in any circumstances.

16. In no circumstances candidates admitted in Ist year of various degree programmes will be permitted for registration after the last date given to them for document verification.

17. The second counselling shall be held after one week of the date of the first round of registrations. Information pertaining to the second counselling will be uploaded on the University website. Candidates are advised to see the website regularly. Third counseling, if needed, will be held subject to vacant seats after second counselling.

18. The candidates admitted after the third counselling shall complete their registration formalities by the last date of the registration decided by the University.

19. The seats remained vacant in the first semester in Ph.D. programmes only shall be filled in the second semester 2020-2021.

20. There shall be verification of the fingerprints of the admitting candidates.
   (i) The thumb impression of the left hand in application form.
   (ii) At the time of Entrance Examination.
   (iii) At the time of document verification.

21. The candidates will not be allowed to carry question booklets along with them after the examination.

23. No question booklet and Answer key will be supplied to the candidates.
8. आवेदन आवेदन-पत्र भेजने से पूर्व अभ्यर्थी प्रवेश परीक्षा हेतु मांगी गई न्यूनतम शैक्षिक योग्यता सुनिश्चित कर लें क्योंकि एक बार आवेदन-पत्र निर्रत होने की दशा में जमा किया गया परीक्षा शुल्क वापस नहीं होगा। केवल आया योग्यता वाले अभ्यर्थियों के प्रवेश दिये जाने पर ही विचार किया जायेगा।

9. कोई भी अभ्यर्थी जो अपने पूर्व अध्ययन काल में छात्र के रूप में किसी भी प्रदर्श की अनुशासनीयता अथवा परीक्षा में अनुविद साधनों का प्रयोग करते हुए संस्थाओं से दंडित हुआ है तो वह प्रवेश के योग्य नहीं है। यदि कोई अभ्यर्थी उन्हें तथ्यों को छिपाकर या संयोजक (प्रवेश) कार्यालय की जुटी से प्रवेश पा जाता है तो भत्ता लगाने पर उसका प्रवेश निरस्त कर दिया जायेगा।

10. प्रवेश परीक्षा समबंधी अभिलेख प्रवेश अनुशासन में केवल च: महीने के लिए ही सुरक्षित रहें जायेंगे।

11. प्रवेश परीक्षा समबंधी मामलों में अन्तिम निर्णय का अधिकार विश्वविद्यालय प्रवेश समिति को ही है।

12. प्रवेश परीक्षा में अभ्यर्थी को अनुविद साधनों का प्रयोग का दोषी पाये जाने पर अभ्यर्थी का परीक्षाफल निरस्त कर दिया जायेगा और परीक्षा शुल्क भी नहीं लीटा जायेगा। इसके अतिरिक्त विश्वविद्यालय की प्रवेश समिति को अपने विवेकानुसार अभ्यर्थी को कोई अन्य दण्ड देना का भी अधिकार होगा।

13. परीक्षा केंद्र को बदलने के सभी अधिकार विश्वविद्यालय के होंगे।

14. अभ्यर्थी को विश्वविद्यालय का पदमास का पूरा शिक्षण शुल्क नामांकन संख्या प्राप्त करने से पूर्व जमा करना होगा।

15. अभ्यर्थियों को पंजीकरण के तिथियों से एक सप्ताह के अन्तर भी पंजीकरण की प्रक्रिया चालू करनी होगी।

16. विभिन्न हिंदी पाठ्यक्रमों के प्रथम वर्ष में प्रवेश पाने वाले अभ्यर्थियों का पंजीकरण किसी भी परिस्थिति में उनको अभिलेखों की जांच हेतु दी गयी अन्तिम तिथि के बाद अनुमोदन नहीं होगा।

17. प्रथम पंजीकरण के उपरांत रिक्त सीटों के लिये द्वितीय काउन्सिलिंग प्रथम काउन्सिलिंग की तिथि से एक सप्ताह के बाद प्रारंभ की जायेगी। इसकी सूचना विश्वविद्यालय वेबसाइट पर अंग्रेजी दी जायेगी। अभ्यर्थियों से अनुरोध है कि उक्त सूचना के लिये विश्वविद्यालय वेबसाइट को निरस्त अपलोड करें। द्वितीय काउन्सिलिंग के बाद रिक्त सीट रहने पर आयश्यकतानुसार तृतीय काउन्सिलिंग करायी जायेगी।

18. जिन अभ्यर्थियों का प्रवेश तृतीय काउन्सिलिंग के तहत होगा वे अपनी पंजीकरण प्रक्रिया विश्वविद्यालय द्वारा निर्धारित पंजीकरण की अन्तिम तिथि तक पूर्ण करेंगे।

19. परीक्षाकर्तार पाठ्यक्रमों के लिये प्रथम काउन्सिलिंग के उपरांत रिक्त सीटों का प्रवेश प्रक्रिया द्वितीय पदमास 2020-2021 में की जायेगी।

20. प्रेमशाश्त्रियों द्वारा सत्यापन हेतु अंगूठे के निशान निम्न प्रकार लिये जायेंगे।

(1) आवेदन पत्र में बाये हाथ के अंगूठे का निशान।
(2) प्रवेश परीक्षा देते समय।
(3) अभिलेखों की जांच के समय।

21. परीक्षा के उपरांत अभ्यर्थियों को प्रश्न पत्र पुस्तिका अपने साथ ले जाने की अनुमति नहीं होगी।

22. प्रश्न पत्र पुस्तिका एवं उल्टर कंजी की प्रति किसी भी अभ्यर्थी को उपलब्ध नहीं कराई जायेगी।
INSTRUCTIONS TO CANDIDATES FOR FILLING OF ONLINE APPLICATION

- It is mandatory for each candidate to provide a valid mobile number in the application form. The Registration number, password and any other important communication regarding written examination/counselling will be sent on the same registered mobile number of the candidate only. The candidates are requested to check regularly their messages on the registered mobile number for any communication from G.B. Pant University of Agriculture and Technology, Pantnagar. The candidate should not disclose password to any other candidate/person.

- Please note that the Admit Card for written test will not be sent by post. Admit card has to be downloaded from the website by the candidate himself/herself.

- Candidate should take utmost care to furnish the correct details while filling in online application form. Any mistake committed by the candidate shall be his/her sole responsibility.

- The candidate should ensure the completion of all Steps of the registration process and deposition of application/examination fee as mentioned in the instructions by the stipulated date.

- Application once submitted will not be allowed to be withdrawn and fee once paid will not be refunded in any case, neither it shall be held reserved for any other examination or selection process in future.

अध्यक्षों द्वारा ऑन लाइन आवेदन पत्र भरने हेतु निर्देश

- प्रत्येक अध्यक्ष द्वारा आवेदन पत्र में एक उपयुक्त मोबाइल नम्बर अंकित करना अनिवार्य है। पंजीकरण संख्या, पासवर्ड एवं लिखित परीक्षा/काउंसिलिंग सम्बंधी समस्त महत्वपूर्ण सूचनाऐं अध्यक्षों के पंजीकृत मोबाइल नम्बर पर ही प्रेषित की जायेंगी। अध्यक्षों गोविंद बल्लब कुम्भी एवं प्रायोजित विश्वविद्यालय से सम्बन्धित किसी भी सूचना हेतु अपने पंजीकृत मोबाइल नम्बर पर मैसेज नियमित रूप से चेक करें। अध्यक्षों अपना पासवर्ड किसी अन्य अध्यक्ष/व्यक्ति को न बताएं।

- कुप्या नोट करें कि लिखित परीक्षा हेतु प्रवेश पत्र भाषा द्वारा प्रेषित नहीं किया जाएगा। प्रवेश पत्र अध्यक्ष विश्वविद्यालय की वेब साइट से डाउनलोड करें।

- ऑन लाइन आवेदन पत्र भरते समय अध्यक्ष तहत विवरण देने हेतु विशेष साक्षात्कार बरतें। अध्यक्ष द्वारा की गई किसी भी जुटी के लिये वे स्वयं उत्तरदायी होंगे।

- अध्यक्ष निर्देशों में दी गई पंजीकरण प्रक्रिया व परीक्षा कीस जमा करने सम्बंधी समस्त कार्यवाही निर्धारित तिथि तक पूर्ण करना सुनिश्चित करें।

- एक बार जमा किये गए आवेदन पत्र वापस नहीं किये जायेंगे तथा जमा की गई कीस किसी भी स्थिति में न तो वापस की जायेंगी और न ही भविष्य में आयोजित होने वाली किसी भी परीक्षा या चयन प्रक्रिया हेतु सुनिश्चित रखी जायेंगी।

**Step-I : Registration**

1. Write Email id.
2. Write Mobile Number (Do not prefix 0 or +91 before mobile number).
3. Write Candidate's name (Do not use prefix such as Mr./Ms./Shri./Dr.).
4. Write/Select Date of Birth (dd/mm/yyyy Format) as in High School Certificate.
5. Select Program Applying For.
6. Select Your Domicile State (Uttarakhand/Other).
7. Write captcha Code.

**Step-II : Login**

8. Write Mobile Number (Do not prefix 0 or +91 before mobile number).

OR

Write Registration Number Received on Your Registered Mobile Number.

9. Enter Password received on Your mobile Number

**Step-III: Fill Application Form:**

10. Write Father’s Name (do not use prefix such as Shri. /Mr./Dr.).
11. Write Mother’s Name (do not use prefix such as Shri. /Mr./Dr.).
12. Enter Aadhaar Number or Aadhaar Enrollment Number.
13. Select Nationality - Indian/Other.
14. Select Gender - Male/Female/Other.
15. Select category you belong to.
16. Select Sub-category you belong to.
17. Select Category Weightage.
18. Select Religion you belong to.
19. Select Physically Handicapped – YES/NO
20. Son/Daughter/Spouse of Regular Employee of University- YES/NO.
22. Select your Blood Group and Rh factor (Rh+/Rh-).
23. Have you ever been Student of GBPUA&T – YES/NO.
24. Write GBPUA&T Student Id (In case of YES).
25. Upload All Required Certificates (If Available).
26. Write Alternate Mobile Number and Landline Number (Optional).
27. Fill Up the Correspondence Address, District, Pin and select State.
28. Fill Up the Permanent Address, District, Pin and select State.
29. Fill Up the Education/Qualification Details.
30. Select Qualifying Examination (Only In UG, Masters, MCA and Ph.D.).
31. Select Subject Group & Code for Entrance Examination (Only In UG, Masters, MCA and Ph.D.).
32. Select Status of Qualifying Examination- Passed/Appearing.
33. Select Examination Centre Choices.
34. Upload Photo, Signature and Left-Hand Thumb Impression.

Instructions regarding scanning of PHOTOGRAPH, SIGNATURE and LEFT HAND THUMB IMPRESSION: Scanned (digital) image of photograph, signature and thumb impression should be uploaded as per the specifications given below:

i. Photograph Image:
   • Photograph must be a recent passport style colour picture.
   • Make sure that the picture is in colour, taken against a light-coloured, preferably white, background.
   • Look straight at the camera with a relaxed face.
   • If the picture is taken on a sunny day, have the sun behind you, or place yourself in the shade, so that you are not squinting and there are no harsh shadows.
   • If you have to use flash, ensure there’s no “red-eye”.
   • If you wear glasses make sure that there are no reflections and your eyes can be clearly seen.
   • Caps, hats and dark glasses are not acceptable. Religious headwear is allowed but it must not cover your face.
   • Dimensions 200X230 pixels (preferred).
   • Size of file should be between 20kb-50kb.
   • Ensure that the size of the scanned image is not more than 50kb. If the size of the file is more than 50kb, then adjust the settings of the scanner OR adjust the size of PHOTO in Paint or any other Picture Tools.

ii. Signature image:
   • The applicant has to put signature on white paper with Black/Blue ink pen.
   • The signature must be signed only by the applicant and not by any other person.
   • The signature will be used to put on admit card and wherever necessary.
   • If the Applicant’s signature on the answer script, at the time of the examination does not match the signature on the admit card, the applicant will be disqualified.
   • Please scan the signature area only and not the entire page.
• Dimensions 140X60 pixels (preferred).
• Size of file should be between 10kb – 20kb.
• Ensure that the size of the scanned image is not more than 20kb.

iii. Left Hand Thumb Impression Image:
• The applicant has to put left hand thumb impression on white paper.
• After Scanning ensure that the size of the scanned image is not more than 20kb.
• Dimensions 140X60 pixels (preferred).
• Size of file should be between 10kb – 20kb.

If the file size and format of Photograph, Signature and Thumb do not match with prescribed size and format or not properly loaded, an error message will be displayed. In such case the candidate has to rectify the size and reload it.

35. Submit Application fee.
   The candidates can deposit fee in the following ways:
   **Debit/Credit Card/Internet Banking:** The Applicants can deposit fee Online by means of Debit Card/Credit Card/Internet Banking. Applicants are advised to keep with them the copy of the “Online Fee Receipt” as a token of remittance of fee for future reference.
   On successful registration of on-line application, candidates are advised not to attempt for registration for the same Course again since multiple registration numbers and passwords may create problem for candidates in future. In case of multiple registrations for the same Course, the candidature is liable for cancellation/rejection without any notice/intimation to the candidate.

36. Print Confirmation page
37. Send Print out of Confirmation page, Fee Receipt, Category/Weightage Certificates, Domicile Certificate, High School Certificate and Marksheet of Qualifying examination. (The candidates appearing in the qualifying examination must send the marksheet of previous year.)

List of documents to be submitted alongwith the application form:
1. Confirmation page print out of application form.
2. Copy of Online Fee Receipt
3. Self attested copy of Uttarakhand/J & K Domicile certificate (For UG only)
4. Self attested copy of Category and Weightage Certificate, if eligible
5. Self attested copies of High School Certificate and Certificate/Marks-sheet of qualifying examination (candidates appearing in qualifying examination can upload/submit their Certificate/Marks-sheet before online counselling).
   (The candidates appearing in the qualifying examination must send the marksheet of the previous year.)

Documents to be put in an **Envelope of size 12” x 9”** and superscribing **“Application for Undergraduate/Masters’/ MCA/M.Tech./Ph.D.** so as to reach positively by due date at the following address:

To,
   **The Coordinator Admissions**
   G.B. Pant University of Agriculture & Technology,
   Panthagad – 263145, Distt.- U.S. Nagar (Uttarakhand)

The candidate must retain a photocopy of his/her filled in Confirmation Page and fee receipt for future correspondence.

**THIS COMPLETES THE PROCESS OF ONLINE FILLING OF APPLICATION FORM AND ITS SUBMISSION TO COORDINATOR ADMISSIONS.**
CHAPTER-I

1. The Govind Ballabh Pant University of Agriculture & Technology was established in 1960 by an Act of the State Legislature of Uttar Pradesh, enacted in 1958. The objectives of the University, as outlined in the Act are:

(a) making provision for the education of rural people of the State in different branches of study, particularly agriculture, rural industry, business and other allied subjects;
(b) furthering the prosecution of research, particularly in agriculture and other allied sciences; and
(c) undertaking field and extension programmes.

2. This is purely a residential University. All students should reside in the hostels in main campus.

3. The University ensures individual attention to each and every student through its advisory system. The advisory system is supplemented by a system of student counsellors. For each group of 15 to 20 first-degree students, a teacher advisor is appointed. At postgraduate level, for each student, an advisory committee, consisting of 3-4 teachers is appointed. The teacher-advisor guides, supervises and monitors the academic performance of his/her advisees besides helping them in their personal problems. He/She also maintains a close contact with parent/guardians of his/her advisees.

4. The structure and objective envisaged for the University represent a departure from the system of education prevalent in the country, which had essentially scholastic orientation. It was meant to function primarily as an instrument of development by integrating research, teaching and extension and assuming specific responsibility for introducing improvements, wherever necessary, in every aspect of rural life. The imperative is reflected in both the character of the faculties and departments as well as in the establishment of Directorates of Experiment Station and Extension Education, which are expected to take a holistic view of development and ensure not only interdisciplinary research but also synthesize ideas emanating from different Colleges.

5. The diverse activities of the University are reflected in the departmental organization of various Colleges. Details of Teaching faculty can be seen on the website of the University.

**COLLEGE OF AGRICULTURE**
Deptt. of Agricultural Communication
Deptt. of Agricultural Economics
Deptt. of Agrometeorology
Deptt. of Agronomy
Deptt. of Entomology
Deptt. of Food Science & Technology
Deptt. of Genetics and Plant Breeding
Deptt. of Horticulture
Deptt. of Plant Pathology
Deptt. of Soil Science
Deptt. of Vegetable Science

**COLLEGE OF BASIC SCIENCE & HUMANITIES**
Deptt. of Biochemistry
Deptt. of Biological Sciences
Deptt. of Chemistry
Deptt. of Environmental Sciences
Deptt. of Microbiology
Deptt. of Molecular Biology & Genetic Engg.
Deptt. of Physics
Deptt. of Plant Physiology
Deptt. of Social Sc. & Humanities

**COLLEGE OF VETERINARY & ANIMAL SCIENCES**
Deptt. of Veterinary Anatomy
Deptt. of Animal Nutrition
Deptt. of Animal Genetics & Breeding
Deptt. of Veterinary Gynaecology & Obstetrics
Deptt. of Livestock Production Management
Deptt. of Livestock Products Technology
Deptt. of Veterinary Medicine
Deptt. of Veterinary Microbiology
Deptt. of Veterinary Parasitology
Deptt. of Veterinary Pathology
Deptt. of Veterinary Pharmacology and Toxicology
Deptt. of Veterinary Physiology & Biochemistry
Deptt. of Veterinary & Animal Husbandry Extension Education
Deptt. of Veterinary Public Health & Epidemiology
Deptt. of Veterinary Surgery and Radiology

**COLLEGE OF TECHNOLOGY**
Deptt. of Civil Engineering
Deptt. of Computer Engineering
Deptt. of Information Technology
Deptt. of Electrical Engineering
Deptt. of Electronics and Communication Engineering
Deptt. of Farm Machinery and Power Engineering
Deptt. of Irrigation and Drainage Engineering
Deptt. of Mechanical Engineering
Deptt. of Post Harvest, Process and Food Engineering
Deptt. of Industrial and Production Engineering
Deptt. of Soil & Water Conservation Engineering
COLLEGE OF FISHERIES
Dept. of Aquaculture
Dept. of Fisheries Resource Management
Dept. of Aquatic Environment Management
Dept. of Fish Harvest & Processing Technology
Dept. of Fisheries Extension Education

COLLEGE OF AGRIBUSINESS MANAGEMENT
Dept. of Agribusiness Economics & Policy
Dept. of Financial Management
Dept. of Human Resource & Personnel Management
Dept. of Marketing Management

Centers
Business Management Clinic
Information Technology Management
Management Development Programme
Placement and Counselling

COLLEGE OF HOME SCIENCE
Dept. of Human Development & Family Studies
Dept. of Clothing and Textiles
Dept. of Family Resource Management
Dept. of Foods and Nutrition
Dept. of Home Science Extension

COLLEGE OF POST GRADUATE STUDIES
The College consists of 62 departments. 66 and 53 Masters and Ph.D. degree programmes respectively are offered by these departments.

6. To support the functions of various departments, the supportive services comprises of Communication Centre, Computer Centre, Radiation and Isotopic Tracers Laboratory, Electron Microscopic Laboratory, Veterinary Clinics, Plant Clinics, Seed Testing Laboratory, ARIS Cell, Environmentally Controlled Poly Carbonate Chamber, Green House Gases Monitoring Centre, Seismological Lab., Agricultural Information Centre, the Research Station, University Farm and Library.

7. DEPARTMENT OF STUDENT WELFARE
The Department of Student Welfare provides ample opportunities and facilities for the all round development of personality and leadership qualities to the students. Special emphasis, however, is laid on discipline, besides higher standard of academic performance. Students participate effectively in the management of hostels, food services, games & sports, cultural and literary activities. Professional societies of every colleges function under the guidance of Staff Counsellor. It coordinates activities and provides facilities as well as services as under:-

(A) Extra-Curricular Activities
University as well as College level extra-curricular activities such as literary, cultural, social activities are organized quite oftenly through 08 professional societies besides hostel level activities. An elegant university auditorium with 900 seating capacity, two mini auditoria, college halls, musical instruments, double film projector and audio-visual aids are available for the organization of various events viz. debates, elocution’s, arts and crafts, music, dance, folk songs and drama besides contests, professional competitions and personality development activities. University is having two NCC units i.e. Remount and Veterinary core and Air wing since 14 May, 2005. Remount and Veterinary NCC is especially for veterinary graduate under which ICC Cadets be imparted training on horse riding & management of equines, whereas in the Air wing cadets are given training on microlite plane flying and insimulator also.

(B) Games and Sports
More than 16 games & sports activities are organized in the university through 26 different clubs. There are 13 staff counsellors for games and sports for boys and girls. The University provides sufficient sports material to all the hostels as well as University level teams. There is existence of sufficient numbers of playgrounds for sports and games in addition to a full-fledged stadium. Multi purpose sports hall, adequately equipped gymnasium and physical fitness centre for students.

(C) Liberal Education
The Liberal Education programme coordinated by the Department of Student Welfare which attempts to provide a holistic and more creative dimension to the student’s personality development. The Liberal Education, while inculcating social, cultural, spiritual, ethical and aesthetics values amongst students, it provides them ample opportunity to learn various provincial and international languages, art, cultures, yoga’s etc. In addition to students, campus inmates also participate in the Liberal Education programmes.
This is basically a certificate course, absolutely voluntary and having no bearing on the Overall Grade Point Average of the students.

(D) Hostels
All students of the University are required to reside in hostels. There are 22 hostels including 10 hostels for girl’s students and one for married students with separate arrangements for post-graduate and undergraduate students. There is a common room facility in each hostel for entertainment, indoor games for the hostel inmates and a small library having selected books, magazines and newspaper etc. In most of the hostels, courts for volleyball, badminton, basketball and table tennis are available. The hostel cafeteria is equipped with refrigerator, R.O. system, water cooler and utensils in adequate quantity. Each hostel cafeteria is run and managed by the students on cooperative basis. The students are required to vacate the hostel rooms in the summer vacation in order to facilitate annual repairs and white washing etc. All students residing in the hostel are to abide by hostel and cafeteria regulations/rules. Every Hostel has one landline telephone with incoming facility. A motor vehicle is provided to facilitate the student’s activity and also taking students for medical aid in case of any emergency.

In case, a student indulges himself/herself in the acts of indiscipline, he/she likely to be removed from the hostel and they have to make own arrangements outside the campus at their own risk and cost.

(E) Grievances Redressal Registry: The University has established a committee for redressal of grievances of the students and DSW is the Nodal Officer of the committee. The aggrieved students of the University may register complaints in Office of Dean Student Welfare.

(F) Financial Aid/Bursaries/Scholarships
(i) Ph.D. Programmes: Two University fellowships are awarded @6000/- per month on the basis of merit to the eligible students admitted in a major (discipline) for a period of 36 months. However, in case of sanctioned fellowships in a department remain unutilized due to non-availability of students in the Major, same fellowship may be transferred to the students of other Majors.

(ii) Masters’ Programmes: Master’s degree (except self-financing programmes) students upto 50% of the total in respect of each Majors are awarded Graduate Research/Teaching Assistantship as per regulations on the subject. However, the value of Assistantship will be of Rs. 2000/- per month for the student who stands first in the merit and for the rest the value of the assistantship shall be Rs.900/- per month in each degree programme. GATE fellowships are provided to GATE qualified M.Tech. students for a period of 24 months.

(iii) Exemption in tuition fee: The exemption in tuition fee is awarded to the wards (sons/daughters/spouses) of regular employees of the University as per rules.

(iv) Under Graduate Programmes: financial assistance is provided by the University to the Undergraduate student as per the details given below:

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Name</th>
<th>Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>University Merit Scholarship</td>
<td>Rs. 800/- per month</td>
<td>Awarded to the best three students in each degree programme in each batch.</td>
</tr>
<tr>
<td>2.</td>
<td>Free ship in Tuition fee</td>
<td>Awarded to 25% undergraduate students on rolls of the University on the basis of merit-cum-means as per prescribed rules.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Sports Scholarship</td>
<td>Rs.800/- per month</td>
<td>Awarded to the best six all round three sportsmen and three sports women as per prescribed rules.</td>
</tr>
</tbody>
</table>
In addition, following scholarships and financial assistance are also available from outside agencies:

1. Merit-cum-Means Scholarship (ICAR).
2. Backward Class Scholarship.
4. Scholarship for Nominees of different States.
6. National Talent Scholarship (ICAR)
7. ICAR Sr./Jr. Fellowship.
8. UGC Sr./Jr. Fellowship.
9. CSIR Sr./Jr. Fellowship.
10. Indian Oil Scholarship.
11. ONGC Scholarship.
12. NCERT Scholarship.
13. Shamji Memorial Trust Scholarship.
14. Uttarakhand Krishi Utypadan Mandi Parishad Scholarship
15. S.J. Jindal Trust Scholarship
19. Indian Herbs Scholarship.
20. Monsanto Scholarship
21. Sh. Satguru Dayanand Memorial Scholarship
22. Smt. Uma Gupta Fellowship
23. S.K. Mukherjee Scholarship.
24. GATE Fellowship
25. Bayers Fellowship
26. Priyank Pathak Scholarship
27. Bharti Scholarship
28. Amit Gautam Award
29. S.N. Nayar Memorial Scholarship
30. INSPIRE Fellowship.
31. UGC Scholarship for M.Tech.
32. DOW Agro Sciences Scholarship.
33. Scholarship for Physically Handicapped.
34. Dr. Dhyan Pal Singh Memorial Award
35. Merit Scholarships to the students of Agricultural Engineering.
36. Lt. Shri Varun Panwar Memorial Award
37. Dr. K.C. Sharma Fellowship
38. Dhanuka Agri. Tech. Fellowship

(G) Medi-claim Facilities

The University has implemented cashless Medi-claim policy for the students from the academic year 2007-2008. The Medi-claim fees, as prescribed by the University, is payable by the students at the beginning of an academic year. Payment of bills for the treatment of the students is paid as per insurance policy and cashless treatment through paneled hospitals is also being provided to the students.

(H) Discipline

Discipline is the Backbone of any institution. College discipline boards (CDB) in the college university discipline committee (UDC) at University level exist for maintaining discipline amongst the students. For this purpose, an affidavit is also required to be submitted at the time of admission.

8. PLACEMENT & COUNSELLING

The University imparts job-oriented professional education in the field of Agriculture, Animal Science, Veterinary Science, Home Science, Forestry, Fisheries, Engineering, Management and Basic Sciences. The duty of the University towards its students does not end here, but also includes finding suitable employment for its alumni, so that their training and abilities are used for the benefit of the nation. In order to achieve this object the University has setup a full-fledged Directorate of Placement and Counselling, which is a unique feature of the University.
9. UNIVERSITY LIBRARY

University Library is a knowledge hub of agricultural education and research of the highest quality providing comprehensive access to documents of diverse disciplines. Library has a remarkable infrastructure and great ambiance in the reading and reference areas with a seating capacity of 500 readers. Library has a collection of approximately 4.22 Lac documents and subscribing to 300 periodicals in print and more than 7000 online journals and e-books series. To foster a vibrant community of the University Local Area Networking has been enhanced to fast network with Cat-6 UTP cable and gigabit switches. CCTV has been installed for surveillance and improving the security of the students’ property counter. The library has been upgraded to Smart Library having Kiosk based self checking/check out system, security gate, book drop facilities, SMS alert for overdue books, faster inventory management and Smart Cards for quick and efficient loans. The Library is member of Consortium for e-Resources in Agriculture (Ce-RA) maintained by ICAR, New Delhi and INDEST-AICTE Consortium maintained by IIT, New Delhi to access full-test online journals provided by group of reputed publishers. In-house activities of the library are being managed by KOHA (open access software). Library has its own web page through which the users can avail its digital services. Library is also maintaining KRISHIKOSH, the Institutional Repository, having access to online Ph.D. theses submitted by the students of the University.

10. MEDICAL HEALTH SERVICES

(a) Outdoor ward facilities: The University hospital has following outdoor facilities:
   1. Medical Officers
   2. Dental Surgeon
   3. Eye Surgeon
   4. Lady Medical Officer
   5. Orthopedic Surgeon (Monday Only)

(b) Indoor ward facilities: The University hospital has indoor facilities on the male as well as female wings where the University students are kept under observation for a short period. Those need prolong hospitalization are referred and shifted to Sushila Tewari Hospital, Haldwani (Nainital) and to hospitals providing care through insurance agency whose list is provided by the Dean Student Welfare for needful treatment as per University rules. Emergency services are available round the clock and doctors are on call duty & remain present at their residence.

(c) Investigation facilities: The facilities of limited pathological investigation as well as Plain X-ray are available at the University hospital/College of Veterinary and Animal Sciences.

(d) Ambulance facilities: Facilities of ambulance is also available for transportation of seriously ill students from their hostel to the Hospital and on the request of Warden concerned for transportation to an outside hospital, if necessary.

(e) Prophylactic Measures: Immunization and vaccinations are performed every Wednesday and Friday.
CHAPTER – II
ADMISSION CRITERIA AND ENTRANCE EXAMINATION

1. ADMISSION TO THE UNIVERSITY IMPLIES ACCEPTANCE WITHOUT ANY MODIFICATION BY THE CANDIDATE AND HIS/HER PARENTS/GUARDIANS OF ALL PROVISIONS GIVEN IN THE UNIVERSITY ACT, STATUTES, REGULATIONS AND ADMISSION POLICY AND CHANGES THAT ARE MADE FROM TIME TO TIME THEREIN.

2. THE STUDENTS WHO HAVE BEEN PERMANENTLY DROPPED OR TEMPORARILY DISMISSED FROM THIS UNIVERSITY EITHER ON ACCOUNT OF ACTS OF INDISCIPLINE, OR THOSE WHO HAVE BEEN DEBARRED FROM SEEKING ADMISSION FROM THIS UNIVERSITY SHALL NOT BE ALLOWED TO APPEAR IN THE ENTRANCE EXAMINATION, OR SEEK ADMISSION AS A SPONSORED/ NOMINATED CANDIDATE. THE STUDENTS WHO ARE/WERE DROPPED FROM A DEGREE PROGRAMME OF THE UNIVERSITY ON ACCOUNT OF POOR ACADEMIC PERFORMANCE SHALL BE ALLOWED TO TAKE ADMISSION AFRESH IN OTHER DEGREE PROGRAMMES BY CLEARING THE ENTRANCE EXAMINATION AS IN CASE OF OTHERS. HOWEVER, THEY WILL NOT BE ALLOWED TO TAKE ADMISSION IN THE SAME PROGRAMME. IN CASE THEY ARE AGAIN DROPPED ON ACCOUNT OF POOR ACADEMIC PERFORMANCE THEY WILL NOT BE ALLOWED TO TAKE ADMISSION IN ANY PROGRAMME OF THE UNIVERSITY IN FUTURE.

3. IF ANY DOCUMENT SUBMITTED BY THE CANDIDATE IS FOUND TO BE FALSE AT ANY STAGE DURING HIS/HER STAY IN THE UNIVERSITY, HIS/HER ADMISSION WILL BE CANCELLED.

4. THE INFORMATIONS INDICATED IN THIS PROSPECTUS ARE ONLY FOR GENERAL GUIDANCE AND CAN BE MODIFIED/CHANGED FROM TIME TO TIME BY THE BOARD OF MANAGEMENT/ ACADEMIC COUNCIL OF THE UNIVERSITY.

5. All admissions shall be made strictly on merit as determined on the basis of marks obtained by the candidates in the Entrance Examination to be conducted by University, except the following:
   (a) Admissions to B.Tech. Programmes shall be made by the University on the basis of merit of Joint Entrance Examination.
   (b) Admissions to Master's programme in Molecular Biology and Biotechnology shall be made through the GBUUAT, Pantnagar entrance examination. Total number of seats 10 (08 Agriculture steam and 02 Veterinary Sciences steam).
   (c) Admission to Ph.D. programmes in Agronomy and Plant Pathology for Other State candidates shall be made through ICAR entrance examination only. Candidates belonging to other states need not apply for Pantnagar entrance examination in the mentioned disciplines of Agronomy and Plant Pathology. Whereas, admissions to other Ph.D. programmes for other state candidates are made through the university entrance examination as well as entrance examination conducted by ICAR for this purpose.
   (d) Admission to Masters' programmes in MBA/ MBA (Agribusiness) shall be made through CAT and CMAT score and Group Discussion and an Interview conducted by the University.
   (e) In M.Tech. programmes, admission shall be made first based on the GATE qualifying marks in the subject (Major) in which admission is sought. Vacant seats shall be filled based on OGPA/percentage (%) of marks of B.Tech. The candidate should have secured at least an OGPA of not less than 6.000/10.000 or 3.000/5.000 or 55% marks in aggregate in case of the Institutions/ Universities where these scales are not applicable in the Bachelor's degree. However, admission towards seats for Other State candidates in M.Tech. Agricultural Engineering majors shall be made through Entrance Examination conducted by ICAR. In case, domicile candidates of Uttarakhand are not available for the sanctioned seats, the same shall be filled from amongst candidates of Other States.
   (f) Admissions to MCA programme shall be made on the basis of separate Entrance Examination to be conducted by the University. In case a candidate wants to appear for other Masters’ programmes in addition to MCA, he/she has to fill separate application form.
   (g) Candidates other than Bonafide residents of Uttarakhand are not eligible to fill up application form for admission to the Undergraduate and Masters’ degree programmes in the University. However, the wards of J& K Residents and wards of Kashmiri Migrants as well as Kashmiri Pandits residing in Kashmir valley may apply for admission to UG programmes only. Other states seats of UG (except B.V.Sc. & A.H.) and Masters’ programmes are filled up through the examination conducted by Indian Council of Agricultural Research (ICAR). The list of candidates for filling up other state seats of B.V.Sc. & A.H. is provided by Veterinary Council of India (VCI). Other state candidates interested in
seeking admission for the said programmes may contact the concerned authorities through the websites of ICAR or VCI, as the case may be.

6. Time of Admission
Admissions to all Undergraduate and Masters’ degree programmes shall be made in the first Semester of the ensuing academic year only. However, admissions to Ph.D. degree programmes shall be made in first as well as in second semester (provided seats remain vacant in the first semester).

7. Date and Time of Entrance Examination
The Entrance Examination shall be conducted on the following dates and time:

1. Masters’ and Ph.D. Programmes 06-06-2020 10.00 a.m. to 1.00 p.m.
2. Undergraduate Programmes and M.C.A. Programme 07-06-2020 10.00 a.m. to 1.00 p.m.

8. Places of Examination
The Entrance Examination shall be conducted at following places:

<table>
<thead>
<tr>
<th>PLACE CODE</th>
<th>U.G. PROGRAMME</th>
<th>MASTERS’ PROGRAMME</th>
<th>MCA PROGRAMME</th>
<th>Ph.D. PROGRAMME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Almora</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Dehradun</td>
<td>Dehradun</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Haldwani</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Pantnagar</td>
<td>Pantnagar</td>
<td>Pantnagar</td>
<td>Pantnagar</td>
</tr>
<tr>
<td>5</td>
<td>Pithoragarh</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Rishikesh</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Srinagar (Garhwal)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: (i) Every effort will be made to assign the place of choice of the candidate. However, the University reserves the right to assign the candidate to any one of the above places without assigning any reason.
(ii) The place once assigned shall not be changed.

9. Application procedure
Only Online Application Form Procedure
To submit application form candidates should log on to the University website (www.gbpuat.ac.in). The candidates appearing in the qualifying examination can also apply provided they submit copy of original mark-sheet of final year indicating class/division obtained at time of online counselling failing which their candidature will not be considered for counselling.

10. Application and Examination fee & last date for submission of application
(a) (i) Last date for online filing of application form for UG, Masters, MCA and Ph.D. 10.04.2020
(ii) Last date for online filing of application form for M.Tech. Programmes and Sponsored Candidates for Masters, M.Tech. and Ph.D. programmes 15.05.2020
(b) (i) Last date for submission of printout of online application form for UG, 18.04.2020
(ii) Last date for submission of printout of online application form for M.Tech. programmes and sponsored candidates for Masters, M.Tech. and Ph.D. programmes 30.05.2020
(c) Application fee for M.Tech./sponsored candidate/fellowship holder of UGC/ICAR/CSIR/DBT etc. Rs. 1200/- (General and OBC) and Rs. 600/- (SC, ST and PH).
(d) Application/examination fee is NON-REFUNDABLE.

Application/Examination Fee for all programmes: Rs. 1200/- (General and OBC) and Rs. 600/- (SC, ST and PH).

Note: The candidates seeking admission to MCA programme too besides Masters’ (Group 10) are required to fill separate application form.

11. Admission of Sponsored/Nominated Candidates
(a) The candidate(s) sponsored/nominated by the GBPUAT, Pantnagar/Development Departments of State Govt. shall not be required to appear in the Entrance Examination. His/her admission shall be governed by the eligibility requirements, as prescribed in Appendix-1 (B).
(b) The last date for receipt of application of GATE qualified candidates for admission to M.Tech. programme and sponsored candidates for all programmes shall be 30.05.2020.
### No. of Seats & Eligibility Qualification:

#### A. Ph.D. Programmes

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Programmes</th>
<th>Code No.</th>
<th>No. of seats</th>
<th>UA Domicile</th>
<th>Other States</th>
<th>Minimum Eligibility Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Agriculture Majors</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Agrometeorology</td>
<td>03</td>
<td>03</td>
<td>01</td>
<td>M.Sc. Ag./M.Sc. in Agrometeorology/Agricultural Physics.</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Horticulture (Floriculture and Landscaping)</td>
<td>08</td>
<td>02</td>
<td>Nil</td>
<td>M.Sc.Ag. in Horticulture/ Horticulture (Floriculture &amp; Landscaping)/Floriculture/ Floriculture &amp; Landscape Architecture.</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Horticulture (Vegetable Science)</td>
<td>12</td>
<td>04</td>
<td>01</td>
<td>M.Sc. Ag. in Vegetable Science/Olericulture or Horticulture/Horticulture with specialization in Vegetable Science.</td>
<td></td>
</tr>
</tbody>
</table>

#### Engineering Majors

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Programmes</th>
<th>Code No.</th>
<th>No. of seats</th>
<th>UA Domicile</th>
<th>Other States</th>
<th>Minimum Eligibility Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Electrical Engineering</td>
<td>20</td>
<td>03</td>
<td>01</td>
<td>Bachelor’s degree in Electrical Engg./Electrical &amp; Electronics Engineering from a recognized University/Institute and Masters’ degree in the field of Electrical Engineering from a recognized University/ Institute.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Electronics &amp; Communication Engineering</td>
<td>21</td>
<td>02</td>
<td>Nil</td>
<td>Bachelor’s Degree in Electronics &amp; Communication Engg./Communication Engg./ Telecommunication Engg./ Electronics Engineering from a recognized University / Institute and Masters’ Degree in related field of Electronics &amp; Communication Engineering from a recognized University/Institute.</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Program</td>
<td>Year</td>
<td>Month</td>
<td>Nil</td>
<td>Qualification</td>
<td></td>
</tr>
<tr>
<td>-----</td>
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<td>---------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Farm Machinery &amp; Power Engineering</td>
<td>22</td>
<td>04</td>
<td>01</td>
<td>Master's Degree in Farm Machinery &amp; Power Engg./Agricultural Engineering/Mechanical Engg./Renewable energy from a recognized University.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Civil Engineering</td>
<td>23</td>
<td>04</td>
<td>01</td>
<td>Bachelor's degree in Civil Engineering and Master's degree in Civil Engineering/Earthquake Engineering / Computer Aided Structural Engineering from a recognized University/Institute.</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Production Engineering</td>
<td>27</td>
<td>03</td>
<td>01</td>
<td>Master’s Degree in Production Engg./CAM/CAM &amp; Robotics/CAD/Mechanical Engg./Manufacturing Engineering and Management/Industrial System Engineering/Industrial &amp; Production Engineering from a recognized University.</td>
<td></td>
</tr>
</tbody>
</table>

**Home Science Majors**

<table>
<thead>
<tr>
<th>No.</th>
<th>Program</th>
<th>Year</th>
<th>Month</th>
<th>Nil</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>---</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Fisheries Science Major**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Aquaculture</td>
<td>34</td>
<td>02</td>
</tr>
</tbody>
</table>

**Science Majors**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Agricultural Chemicals</td>
<td>40</td>
<td>04</td>
</tr>
<tr>
<td>4.</td>
<td>Botany</td>
<td>42</td>
<td>02</td>
</tr>
<tr>
<td>5.</td>
<td>Chemistry</td>
<td>43</td>
<td>04</td>
</tr>
<tr>
<td>6.</td>
<td>Environmental Science</td>
<td>44</td>
<td>01</td>
</tr>
<tr>
<td>7.</td>
<td>Food Technology</td>
<td>45</td>
<td>02</td>
</tr>
<tr>
<td>8.</td>
<td>Mathematics</td>
<td>46</td>
<td>03</td>
</tr>
<tr>
<td>12.</td>
<td>Plant Physiology</td>
<td>50</td>
<td>02</td>
</tr>
</tbody>
</table>
### Veterinary Science Majors

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>O'CGPA</th>
<th>CGPA</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Veterinary Public Health &amp; Epidemiology</td>
<td>51</td>
<td>03</td>
<td>01 M.V.Sc. in Veterinary Public Health &amp; Epidemiology/ Veterinary Public Health / Vety. Epidemiology/Vety. Microbiology/Vety Biotechnology/ Livestock Product Technology/Molecular Biology &amp; Biotechnology.</td>
</tr>
<tr>
<td>4</td>
<td>Veterinary Medicine</td>
<td>54</td>
<td>03</td>
<td>01 M.V.Sc. in Medicine/Veterinary Medicine/Veterinary Clinical Medicine/Veterinary Preventive Medicine/Epidemiology &amp; Preventive Medicine.</td>
</tr>
<tr>
<td>5</td>
<td>Veterinary Microbiology &amp; Immunology</td>
<td>55</td>
<td>02</td>
<td>Nil M.V.Sc. in Veterinary Microbiology &amp; Immunology/ Veterinary Microbiology/Veterinary Bacteriology/ Veterinary Virology/ Veterinary Immunology/ Molecular Biology &amp; Biotechnology/ Animal Biotechnology/ Veterinary Public Health &amp; Epidemiology/Mycology.</td>
</tr>
<tr>
<td>6</td>
<td>Veterinary Pathology</td>
<td>56</td>
<td>03</td>
<td>01 M.V.Sc. Pathology</td>
</tr>
<tr>
<td>7</td>
<td>Veterinary Pharmacology &amp; Toxicology</td>
<td>57</td>
<td>03</td>
<td>01 M.V.Sc. Veterinary Pharmacology/Veterinary Pharmacology &amp; Toxicology.</td>
</tr>
<tr>
<td>8</td>
<td>Veterinary Physiology</td>
<td>58</td>
<td>03</td>
<td>01 M.V.Sc. Veterinary or Animal Physiology</td>
</tr>
<tr>
<td>9</td>
<td>Poultry Science</td>
<td>59</td>
<td>04</td>
<td>01 M.V.Sc./M.Sc.Ag. in Poultry Science/ Poultry Husbandry/ LPMA/Animal Nutrition/ Poultry Nutrition/ Animal Genetics &amp; Breeding/Poultry Breeding.</td>
</tr>
<tr>
<td>11</td>
<td>Veterinary Biochemistry</td>
<td>61</td>
<td>02</td>
<td>Nil M.V.Sc. in Veterinary Biochemistry/ Molecular Biology &amp; Biotechnology/ Animal Biotechnology/ Biotechnology.</td>
</tr>
<tr>
<td>13</td>
<td>Animal Nutrition</td>
<td>63</td>
<td>03</td>
<td>01 M.V.Sc./M.Sc.Ag. in Animal Nutrition or LPMA/Poultry Science/Dairy Husbandry/ Poultry Husbandry/Animal Husbandry with specialization in Animal Nutrition.</td>
</tr>
<tr>
<td>14</td>
<td>Veterinary Anatomy</td>
<td>64</td>
<td>03</td>
<td>01 M.V.Sc. in Veterinary Anatomy.</td>
</tr>
<tr>
<td>15</td>
<td>Veterinary Parasitology</td>
<td>65</td>
<td>02</td>
<td>Nil M.V.Sc. in Veterinary Parasitology</td>
</tr>
<tr>
<td>16</td>
<td>Livestock Products Technology</td>
<td>66</td>
<td>03</td>
<td>01 M.V.Sc. in Livestock Products Technology/Meat Science &amp; Technology/Animal Products Technology.</td>
</tr>
</tbody>
</table>

*Admission to Ph.D. programmes in Agronomy and Plant Pathology for Other State candidates shall be made through ICAR entrance examination only. Candidate need not apply for Panthnagar entrance examination for Other State seats in the mentioned disciplines of Agronomy and Plant Pathology.

**Students will have to read some remedial Courses.**

The candidate possessing above qualifications and fulfilling the conditions laid down hereunder shall have to qualify the written test and secure a place in the merit list so as to be eligible for admission:

(a) At Master's level, the candidate should have secured an OGPA not less than 6.500/10.000 or 4.000/5.000 or 1st Division in case of the Universities where these grading scales are not applicable. At Bachelor's level
(a) The candidate must possess an Overall Grade Point Average of not less than 6.00/10.00 or 3.00/5.00 or 55% marks in aggregate in case of the Institutions/Universities where these grading scales are not applicable.
(b) Besides a candidate must also possess the eligibility qualifications prescribed for Masters Programmes of the University in the relevant discipline.
(c) A relaxation of 5% marks, or an equivalent relaxation of grade, will be allowed to those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled and other categories of candidates.

**Note:** The students having M.Sc. Statistics/M.Sc. Applied Statistics will be awarded Ph.D. with major in Statistics and those having M.Sc. Agricultural Statistics will be awarded Ph.D. with major in Agricultural Statistics.

### B. Masters' Programmes

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Programmes</th>
<th>No. of Seats</th>
<th>Minimum Eligibility Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Agriculture Majors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Agricultural Economics</td>
<td>08</td>
<td>B.Sc. in Agriculture/ Fisheries/ Forestry/ Horticulture/ Home Sc./ Agril. Marketing/ Agricultural Marketing and Cooperation.</td>
</tr>
<tr>
<td>2.</td>
<td>Agrometeorology</td>
<td>03</td>
<td>B.Sc. in Agriculture/ Forestry/ Horticulture or B.Sc. with Physics as one of the major subject.</td>
</tr>
<tr>
<td>3.</td>
<td>Agronomy</td>
<td>10</td>
<td>B.Sc. Ag./ B.Sc. Ag. &amp; A.H.</td>
</tr>
<tr>
<td>5.</td>
<td>Entomology</td>
<td>12</td>
<td>B.Sc. in Agriculture/ Forestry/ Horticulture/Sericulture</td>
</tr>
<tr>
<td>6.</td>
<td>Genetics &amp; Plant Breeding</td>
<td>12</td>
<td>B.Sc. in Agriculture/ Forestry/ Horticulture</td>
</tr>
<tr>
<td>7.</td>
<td>Horticulture (Fruit Science)</td>
<td>08</td>
<td>B.Sc. in Agriculture/ Horticulture/Biology (ZBC)</td>
</tr>
<tr>
<td>8.</td>
<td>Horticulture (Floriculture and Landscaping)</td>
<td>04</td>
<td>B.Sc. in Agriculture/ Horticulture/Biology (Zoology, Botany &amp; Chemistry).</td>
</tr>
<tr>
<td>9.</td>
<td>Plant Pathology</td>
<td>06</td>
<td>B.Sc. in Agriculture/ Forestry/ Horticulture.</td>
</tr>
<tr>
<td>10.</td>
<td>Soil Science</td>
<td>08</td>
<td>B.Sc. Agriculture/ Horticulture/ Forestry</td>
</tr>
<tr>
<td>11.</td>
<td>Horticulture (Vegetable Science)</td>
<td>06</td>
<td>B.Sc. in Agriculture/ Forestry/ Horticulture/Biology (Zoology and Botany with any other Subject).</td>
</tr>
<tr>
<td></td>
<td>Engineering Majors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Agril. Engineering (Farm Machinery &amp; Power Engg.)</td>
<td>10</td>
<td>Bachelor’s Degree in Agricultural Engineering from a recognized University/Institute.</td>
</tr>
<tr>
<td>3.</td>
<td>Agril. Engineering (Irrigation &amp; Drainage Engineering)</td>
<td>12</td>
<td>Bachelor’s Degree in Agricultural Engineering / Civil Engineering from a recognized University/ Institute.</td>
</tr>
<tr>
<td>5.</td>
<td>Agril. Engineering (Soil &amp; Water Conservation Engg.)</td>
<td>10</td>
<td>Bachelor’s Degree in Agricultural Engineering / Civil Engineering from a recognized University/ Institute.</td>
</tr>
<tr>
<td>7.#</td>
<td>Design &amp; Production Engineering</td>
<td>10</td>
<td>Bachelor’s Degree in Mechanical Engineering/ Mechanical &amp; Automation / Production Engineering/ Industrial &amp; Production Engineering from a recognized University/ Institute.</td>
</tr>
<tr>
<td>8.#</td>
<td>Electrical Energy System</td>
<td>12</td>
<td>Bachelor’s Degree in Electrical Engineering/ Electrical and Electronics Engineering from a recognized University/ Institute.</td>
</tr>
<tr>
<td>9#</td>
<td>Electronics &amp; Communication Engineering</td>
<td>09</td>
<td>Bachelor’s Degree in Electronics &amp; Communication Engineering/ Electronics Engineering/ Communication Engineering/ Tele Communication Engineering from a recognized University/ Institute.</td>
</tr>
<tr>
<td>#</td>
<td>Major</td>
<td>Credits</td>
<td>Qualification</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------</td>
<td>---------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>10.</td>
<td>Hydraulic Engineering</td>
<td>04</td>
<td>Bachelor’s Degree in Civil Engg. from a recognized University/Institute.</td>
</tr>
<tr>
<td>13.</td>
<td>Soil Mechanics &amp; Foundation Engineering</td>
<td>04</td>
<td>Bachelor’s Degree in Civil Engineering from a recognized University/Institute.</td>
</tr>
<tr>
<td>14.</td>
<td>Structural Engineering</td>
<td>04</td>
<td>Bachelor’s Degree in Civil Engineering from a recognized University/Institute.</td>
</tr>
<tr>
<td>15.</td>
<td>Thermal Engineering</td>
<td>10</td>
<td>Bachelor’s Degree in Mechanical Engineering/ Automobile Engineering from a recognized University/Institute.</td>
</tr>
</tbody>
</table>

### Fisheries Science Majors

1. Aquaculture 04 Bachelor’s Degree in Fisheries Science
2. Aquatic Environment Management 04 Bachelor’s Degree in Fisheries Science
3. Fisheries Resource Management 04 Bachelor’s Degree in Fisheries Science
4. Fish Processing Technology 04 Bachelor’s Degree in Fisheries Science

### Home Science Majors


### Science Majors

1. M.Sc. Ag. Agricultural Chemicals 02 B.Sc. with Chemistry as one of the major subjects/B.Sc. Agriculture / Horticulture/Forestry.
3. Biochemistry 09 B.Sc. in Biochemistry/Biotechnology/Microbiology/ Agriculture/ Home Science/Fisheries/Veterinary Science/ Forestry /Food Technology/B.Sc. with Chemistry as one of the major subjects/ B.Sc. Horticulture.
4. Botany 04 B.Sc. with Botany as one of the major subjects.
5. Chemistry 10 B.Sc. with Chemistry as one of the major subjects.
6. Environmental Science 03 B.Sc. with Environmental Science/Environmental Biology as one of the major subjects/ B.Sc. in ZBC/ Agriculture/Fisheries/Home Science/ Forestry/Horticulture.
8. Mathematics 04 B.Sc. with Mathematics as one of the major subjects.
9. Microbiology 04 B.Sc. in Microbiology/ Biochemistry/ Agriculture/ Fisheries/ Forestry /Home Science/Biotechnology/Biology (Zoology and Botany with any other subject)/B.Sc. Horticulture/B.Tech. (Biotechnology).
10.** M.Sc. Ag. (Biotechnology)/ M.V.Sc. (Animal Biotechnology) 10 Bachelor’s Degree in Science/Agriculture/Horticulture/ Forestry/ Veterinary Science/Fisheries Science/Biotechnology/Agriculture Biotechnology.

11. Plant Physiology 03 B.Sc. in Agriculture/ Zoology, Botany and Chemistry/ Horticulture/ Microbiology with Chemistry/B.Sc. Forestry.

12. Physics 12 B.Sc. with Physics as one of the major subjects.

**Veterinary Science Majors**

7. Veterinary Microbiology & Immunology 04 B.V.Sc. & A.H./B.V.Sc.

**Management Programmes**

***1. MBA (Agribusiness) 33 Bachelor’s and/or Master’s degree in Agriculture, Agricultural Chemicals, Agricultural Engineering, Dairy Science/Technology, Fisheries, Food Science/Technology, Forestry, Horticulture, Veterinary Science, Home Science or B.Tech. (Biotechnology).

***2. MBA 08 Bachelor’s degree in any branch of Engineering/Technology from AICTE approved Institutions/ UGC approved Universities.

**M.C.A. Programme**


Candidates for Master’s programme should refer section 22 for subject group code of Entrance Examination. **Self-Financing; #30 percent of sanctioned seats are allotted to Other State candidates.**

The candidate possessing above qualifications and fulfilling the conditions laid down hereunder shall have to qualify the written test and secure a place in the merit list so as to be eligible for admission:

(a) The candidate should have secured an OGPA of not less than 6.000/10.000 or 3.000/5.000 or 55% marks in aggregate in case of the Institutions/Universities where these scales are not applicable in the Bachelor’s degree.

**Note:** (1) In Agriculture programmes the number of candidates admitted from pure Sciences stream shall be limited to 25%. However, in case sufficient numbers of qualified candidates are not available, this limitation of 25% shall be relaxed by the Admissions Committee. However, the minimum duration for said candidates would be six semesters.

(2) The minimum degree duration will be six semesters for the candidates seeking admission in Agriculture & Home Science Majors who have studied only 3-year degree programme instead of 4-years.
* The students admitted in the programme of Agricultural Statistics/Statistics with qualifications B.Sc.(Ag.)/B.Sc. (Horticulture)/B.Sc. (Forestry) will be awarded M.Sc. (Agril. Statistics) degree and those admitted with B.Sc. degree (with Maths/Statistics as one of the major subject) will be awarded M.Sc. (Statistics) degree.

** The students admitted in the programme of M.Sc. Ag. (Biotechnology)/M.V.Sc. (Animal Biotechnology) with qualifications B.Sc. in Science/Agriculture/Horticulture/Forestry/Fisheries Science/ Biotechnology Agriculture Biotechnology will be awarded M.Sc. Agriculture (Biotechnology) degree and those admitted with B.V.Sc. degree will be awarded M.V.Sc. (Animal Biotechnology) degree.

C. Undergraduate Programmes

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Programme</th>
<th>No. of Seats</th>
<th>Minimum Eligibility Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>B.Sc. (Hons) Agriculture</td>
<td>130</td>
<td>Intermediate Agriculture/Science with Mathematics or Biology.</td>
</tr>
<tr>
<td>2.</td>
<td>B.Sc. (Hons.) Community Science</td>
<td>70</td>
<td>Intermediate Science with Mathematics or Biology.</td>
</tr>
<tr>
<td>3.</td>
<td>B. V. Sc. &amp; A.H.</td>
<td>62</td>
<td>Intermediate Science with Physics, Chemistry, Biology and English or equivalent examination and should have obtained a minimum of 50% marks for General Category and 47.5% for reserved categories (OBC, SC &amp; ST) in aggregate in the subjects of Physics, Chemistry, Biology and English.</td>
</tr>
<tr>
<td>4.</td>
<td>B.F.Sc.</td>
<td>20</td>
<td>Intermediate Science with Biology/Agriculture or equivalent examination.</td>
</tr>
<tr>
<td>5.</td>
<td>B.Tech. (Food Technology)</td>
<td>24</td>
<td>Intermediate Science with Physics, Chemistry, Mathematics (PCM)/ Physics, Chemistry, Mathematics and Biology (PCMB).</td>
</tr>
<tr>
<td>7.</td>
<td>B.Tech. Civil Engg.</td>
<td>45</td>
<td>-do-</td>
</tr>
<tr>
<td>8.</td>
<td>B.Tech. Computer Engg.</td>
<td>30</td>
<td>-do-</td>
</tr>
<tr>
<td>9.</td>
<td>B.Tech. Elect. Engg.</td>
<td>45</td>
<td>-do-</td>
</tr>
<tr>
<td>10.</td>
<td>B.Tech. Electronics &amp; Communication Engg.</td>
<td>30</td>
<td>-do-</td>
</tr>
<tr>
<td>12.</td>
<td>B.Tech. Industrial and Production Engg.</td>
<td>30</td>
<td>-do-</td>
</tr>
<tr>
<td>13.</td>
<td>B.Tech. Information Technology</td>
<td>45</td>
<td>-do-</td>
</tr>
<tr>
<td>14.</td>
<td>B.Tech. (Biotechnology)</td>
<td>40</td>
<td>-do-</td>
</tr>
</tbody>
</table>

The candidate possessing above qualifications and fulfilling the conditions laid down hereunder shall have to qualify the written test and secure a place in merit list so as to be eligible for admission.

The candidate seeking admission to B.V.Sc. & A.H. programme must compulsorily attempt PCB paper (Code 1) in Entrance Examination.

*Self-Financing.

13. Distribution of Seats

(i) All the sanctioned seats in Undergraduate and Postgraduate degree programmes (except MCA) shall be allotted to bonafide residents of Uttarakhand State.

(ii) Over and above the sanctioned seats, 30 percent of sanctioned seats (except B.V.Sc. & A.H.) are allotted to ICAR and 15% of sanctioned seats of B.V.Sc. & A.H. programme are allotted to VCI at Undergraduate level as per the conditions laid down by the ICAR/VCI for admitting candidates. Moreover 15% of the sanctioned seats of B.Tech. (Agricultural Engineering) are filled up through ICAR.
In Master’s programmes (except MCA, a self-financing programme) over and above the sanctioned seats, 30 percent of sanctioned seats are allotted to ICAR.

In M.Tech. programmes (except Agricultural Engineering programmes) over and above the sanctioned seats, 30 percent of sanctioned seats are allotted to Other State candidates.

(iii) Admission for seats allotted to ICAR/VCI in UG and Masters’ programmes shall be made through Entrance Examination conducted by the ICAR/VCI.

(iv) In case of MCA (self-financing) programme 50% of the sanctioned seats shall be filled by the candidates from the States other than Uttarakhand and 50% seats shall be filled by the Bonafide residents of Uttarakhand State through the entrance examination conducted by the University. In case seats of other State remain vacant; the same may be filled from the candidates of Uttarakhand State and vice-versa.

(v) In case of admissions for Masters’ and Ph.D. in Agronomy and Plant Pathology majors the sanctioned number of seats will be filled through University Entrance Examination and same number of seats will be filled through ICAR Entrance Examination.

(vi) In Ph.D. programmes (except Ph.D. in Management) over and above the sanctioned seats, 25 percent of sanctioned seats shall be filled from the other State candidates through the Entrance Examination conducted by the University.

14. Reservations*

(a) Vertical Reservations

(i) The vertical reservation for the academic year 2020-2021 will be as under:

<table>
<thead>
<tr>
<th>Category</th>
<th>Reservation</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBC</td>
<td>14%</td>
</tr>
<tr>
<td>Scheduled Caste</td>
<td>19%</td>
</tr>
<tr>
<td>Scheduled Tribes</td>
<td>04%</td>
</tr>
</tbody>
</table>

(ii) The seats not filled through candidates of reserved categories in Ph.D. programmes only may be converted to General Category seats and filled up accordingly. The conversion of seats in Ph.D. programmes only shall be made through the counselling held in the II Semester of academic session 2020-2021 subject to the availability of vacant seats.

(b) Horizontal Reservations: Out of reservation applicable to different categories, the horizontal reservation in Undergraduate programmes only in these categories shall be as under:

<table>
<thead>
<tr>
<th>Category</th>
<th>Reservation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Children of retired/killed or disabled Defence Personnel of Uttarakhand</td>
<td>2%</td>
</tr>
<tr>
<td>Children of Freedom Fighters of Uttarakhand</td>
<td>2%</td>
</tr>
<tr>
<td>Physically Handicapped of Uttarakhand having disability 40% or above</td>
<td>3%</td>
</tr>
<tr>
<td><strong>Women Candidates of Uttarakhand</strong></td>
<td>30%</td>
</tr>
</tbody>
</table>

*Reservation shall be implemented as per G.O.'s of Uttarakhand State.

**Women Candidates of Uttarakhand shall include girl candidates also.

(c) Over and above the sanctioned seats for General category, 10% seats will be allotted to the candidates belonging to EWS based on the merit in the Entrance Examination as per Uttarakhand Govt. Order.

(d) The candidates who have obtained qualifying degree from G.B. Pant University of Agriculture & Technology, Pantnagar shall be treated at par with the Bonafide residents of Uttarakhand for higher studies.

(e) Over and above the sanctioned seats, admission to the following sub-categories in Undergraduate programmes (except B. Tech.) shall be available as follows:

i. Children/Spouse of regular employees/
   Daily Wage Workers (240 days) of G.B. Pant University of Agriculture & Tech., Pantnagar - 5% seats in each programme

ii. ICAR Nominee - 10% for Foreign Nationals who pay an Institutional Fee worth US$ 5000 per annum besides programme & other fee.

iii. The son/daughter/spouse of the regular University employee, who died in harness, shall be given special consideration for admission in the first-degree programme on compassionate grounds subject to the maximum of 2% of the sanctioned seats in each programme (minimum of one seat in each programme) purely based on merit rank in the entrance examination. His/her admission will be subject to the condition that:

   • He/She secures at least marks up to cutoff point for admissions of the particular year and qualifies in General Category,
   • He/She fulfills the minimum eligibility qualification for the programme, and
   • The request for seeking admission on compassionate ground would be entertained within two years of the death of an employee of the University.
• His/Her admission is approved by the Vice-Chancellor.

iv. One seat each in every UG Programme (except B.Tech. programmes) shall be reserved for the wards of Kashmiri migrants/Kashmiri Pandits residing in Kashmir valley and wards of J & K residents. The Candidates shall be admitted based on merit in the entrance examination in respective categories subject to fulfilling the conditions laid down in 12-C.

Note: The University reserves the right to change the reservation pattern either on account of Govt. orders or on its own.

15. ADMISSION OF SPONSORED CANDIDATES

(a) Undergraduate Programmes

| (i) | Gram Vikas Adhikari Candidate Sponsored by Uttarakhand Govt. | 5 Seats in B.Sc.Ag. |
| (ii) | In service candidates from Animal Husbandry department sponsored by the Govt. of Uttarakhand | 5 Seats in B.V.Sc. & A.H. |
| (iii) | Development and Extension Workers from Uttarakhand Fisheries Department (in service) | 1 Seat in B.F.Sc. |
| (iv) | Seats reserved for candidates in Engineering courses nominated by M.H.R.D. Govt. of India | As per notification of Uttarakhand Government |
| (v) | Seats allotted by AICTE under PMSSS for students belonging to J & K State. | As per Govt. Allotted letter |
| (vi) | In-service candidates of Pantnagar University / Farm | Admission of in-service Candidates of G.B. Pant University of Agriculture & Technology, Pantnagar/University Farm to Bachelor's degree programmes (except B. Tech.) shall be made as per rules subject to their having qualified the U.G. Entrance Examination and recommendation of the Dean of the College concerned. |

(b) Post Graduate Programmes

Foreign National nominated by ICAR/ Govt. of India or Junior/Senior research fellowship Holders of UGC/ ICAR/ CSIR/DBT etc. and staff candidates of G.B.P.U.A. & T, Pantnagar and Development Departments of State Govt.:

Note: (i) Admissions to above category shall not exceed the number of sanctioned seats. (ii) Format for Forwarding of the Application Form Appendix – XII.

Over and above the sanctioned seats, two seats in each Master's and Ph.D. programmes shall be available to Foreign Nationals (Candidates) on Payment of an institutional fee of US$5000 per year subject to their fulfillment of eligibility qualifications laid down in Appendix – I (B).

25% seats for Ph.D. programmes (minimum one seat in each discipline) are to be filled through ICAR entrance examination AICE-SRF) Four seats are reserved in each Ph.D. major except Molecular Biology & Biotechnology for UGC/ CSIR/ICMR fellowship holders. In case of Ph.D. in Molecular Biology & Biotechnology major two seats are reserved for DBT fellowship holders and two seats for UGC/CSIR/ICMR fellowship holders.

Two seats in each Masters’ and Ph.D. Major are reserved for the candidates sponsored by the G.B. Pant University of Agriculture and Technology, Pantnagar and Development Departments of State Government subject to the following conditions:

(a) Applicants who have earned entitlement to fellowship based on National Selection (UGC/ICAR/CSIR/DBT/ICMR) and the sponsored staff candidates of GBPuat, Pantnagar and Development Departments of State Govt. are not required to appear in the University Entrance Examination. They shall be admitted subject to fulfillment of minimum eligibility qualification as laid down in para 12 ‘A’ or ‘B’ of the Prospectus (Chapter II). The inter-se-merit of UGC/CSIR/DBT/ICMR fellowship holders shall be determined based on academic rating of their past academic performance. However, for consideration of the admission under sanctioned seats as detailed in Para 12 ‘A’ or ‘B’ the applicants are advised to appear in the Entrance Examination.

(b) No candidate who has failed to secure the minimum cut off marks fixed by the Admissions Committee in the Entrance Examination can be sponsored/nominated for admission in the University until he/she qualifies the Entrance Examination.

16. Mode of Admission

(a) Subjects & Scheme of Examination

(i) All candidates seeking admission to Ph.D. Programmes shall take subject matter test comprising 800 marks, which shall be administered programme wise as given in para 12 A. The question paper shall consist of objective type questions with 4 multiple choices and shall be of 3 hours duration.

(ii) All candidates seeking admission to Masters’ programmes and MCA programme shall take (i) Aptitude Test and (ii) Subject Matter Test without any break from 10.00 a.m. to 1.00 p.m. The examination shall start with Aptitude Test and after 45 minutes the question booklet of Aptitude
Test shall be taken back and question booklet for group wise Subject Matter Test paper will be distributed as per option of the candidates (based on their qualifying examination) and major-wise.

(b) The Aptitude Test and Subject Matter Test shall consist of 50 and 150 questions for all groups (except Physical & Life Sciences) respectively. The Subject Matter Test for these groups shall consist of 200 questions and candidates have to attempt 150 questions. The question paper will be objective type with multiple choices for each question in English language only.

(iii) There shall be one common Entrance Examination for admission to all Undergraduate Programmes. It shall be of three hours duration and shall consist of one question paper carrying 600 marks and would be of objective type with multiple choice. The bilingual question paper in English and Hindi will be supplied. There will be three groups of papers as detailed below:

**PCB paper (Code 1):** The candidate who has passed/ appeared in 10+2 examination with Physics, Chemistry and Biology stream shall have question paper consisting of questions of Mental Agility (30 questions), Physics (50 questions), Chemistry (50 questions) and Biology (70 questions). The candidate opting for this group can seek admission for degree course in Agriculture, Fisheries, Community Science and Veterinary Sciences.

**PCM paper (Code 2):** The candidate who has passed/ appeared in 10+2 examination with Physics, Chemistry and Mathematics stream shall have question paper consisting of questions of Mental Agility (30 questions), Physics (50 questions), Chemistry (50 questions) and Mathematics (70 questions). The candidate opting for this group can seek admission for degree course in Agriculture, Food Technology and Community Science.

**PCA paper (Code 3):** The candidate who has passed/ appeared in 10+2 examination with Agriculture stream shall have question paper consisting of questions of Mental Agility (30 questions), Physics (50 questions), Chemistry (50 questions) and Agriculture (70 questions). The candidate opting for this group can seek admission for degree course in Agriculture and Fisheries.

The candidate having Physics, Chemistry, Mathematics and Biology subjects at his/her 10+2 level will have to indicate his/her choice of the group of paper for Entrance Examination in the Application Form. These candidates can either opt for PCB paper (Code 1) or PCM paper (Code 2). They can seek admission for degree programme as per their qualification and group of paper in the entrance examination.

**Note:**
1. FOR ALL THE PROGRAMMES VIZ Ph.D., MASTERS' AND UNDERGRADUATES 3.0 MARKS WILL BE AWARDED FOR EACH CORRECT ANSWER AND 1.0 MARK WILL BE DEDUCTED FOR EACH WRONG ANSWER ATTEMPTED BY THE CANDIDATE.
2. USE OF ELECTRONIC EQUIPMENT SUCH AS CALCULATOR, LOG TABLE, AND MOBILE PHONE ETC. IN THE EXAMINATION HALL IS STRICTLY PROHIBITED.

16. (b) Basis of Selection for Admission

(i) The Admissions Committee will decide the cutoff marks for the academic year for qualifying the entrance examination after declaration of Rank-wise list of the candidates appeared in the Entrance Examination conducted by the University.

(ii) For Ph.D. Programmes if the marks secured by two or more candidates are the same, the merit shall be decided on the basis of marks secured in the qualifying examination. For Masters' programmes in the event of two or more candidates securing equal marks, the merit shall be decided on the basis of marks secured in the Aptitude Test and then qualifying examination. For Undergraduate programmes in the event of two or more candidates securing equal marks, the merit shall be decided on the basis of marks secured in Mental Agility then Physics, Chemistry and thereafter marks secured in the qualifying examination. In the event of tie again, a candidate with higher in age would be rated higher in merit.

16. (c) Counselling

(i) Online counselling for all programmes (UG/Masters’/M.C.A./M.Tech./Ph.D.) will be carried out after declaration of results. Dates of different rounds of counselling will be decided keeping in view the date of commencement of first semester of academic session 2020-21 and will be uploaded on the website (www.gbpuat.ac.in) of the university along with the list of eligible candidates for different rounds of counselling. The candidates are advised to see regularly the website of the University for counselling dates. No separate letter for any round of counselling will be sent to any candidate.

(ii) Candidates seeking admission to M.Tech. programmes based on OGPA/percentage of marks of B.Tech. will be eligible for II and subsequent rounds (if needed) of counselling only.

(iii) No letter, fax or telegram enquiring about the result of the Entrance Examination will be entertained.
(iv) The candidates coming for document verification in the university should bring along with them the following documents for checking:

- Seat allotment letter
- Receipt of counselling fee
- Receipt of programme fee
- Self Attested photocopies of High School Certificate and Marks-Sheet alongwith the originals.
- Self Attested photocopies of Intermediate Certificate and Marks-Sheet alongwith the originals.
- Self Attested photocopies of Marks-Sheet and Certificate of any other higher degree qualifications that he/she may possess alongwith the originals.
- Domicile Certificate of Uttarakhand State issued by the competent authority after 20 Nov. 2001.
- Rural/Sports/Agriculturists Weightage Certificate, in original, as given in Prospectus 2020-2021, if applicable.
- Character and Conduct Certificate in original from the Head of the Institution last attended.
- Five passport size photographs with name and Roll Number written on the back.
- Original copy of the Valid Category Certificate.
- Solemn Voluntary declaration form (Appendix – IV).
- A Gap Certificate accounting for discontinuity of more than three months after leaving the Institution last attended. (Those employed should bring certificate from employer, others should produce a sworn affidavit duly notarized on stamp paper of Rs.10/- + Notary stamps Rs.10/- (total value Rs.20/-).
- The Migration/Transfer Certificate in original to be submitted within three months of the admission.
- On the directives of the Hon'ble Supreme Court an affidavit duly signed by the candidate and his/her parents/guardian for non-participation in ragging on a non-judicial stamp paper of Rs. 10.00 duly notarized (Appendix –V & VI).
- Medical fitness certificate in the prescribed format (Appendix-II).

Note: Candidates seeking admission to Masters’ and Ph.D. programmes must submit final year Mark-Sheet/PDC (indicating percentage of marks) at the time of online counselling. Without the above documents, their candidature will not be considered for counselling.

(v) Candidate not fulfilling the eligibility condition(s) at the time of Counselling and not declared medically fit will not be granted admission.

(vi) The candidate once admitted in a programme as per his/her merit on availability of seat at the time of counselling will not stake any claim for change of programme after counselling is over.

17. Medical Examination
All the admissions are subject to the medical and physical fitness as per medical standards prescribed in Appendix-III. The medical fitness certificate must be obtained from a Medical Officer of any Govt. Hospital including Pantnagar Univeristy Hospital on the format given at Appendix II.

18. Admit Cards
Admit Card for the Entrance Examination shall be downloaded by the candidate himself/herself from the University website (www.gbpuat.ac.in). No separate admit cards will be issued by the Coordinator Admissions, G.B. Pant University of Agriculture & Technology, Pantnagar.

19. Age Limit
Maximum age limit for admission to all Undergraduate programmes except B.Tech. and B.V.Sc. & A.H. degree programmes is 22 years (25 years for SC/ST categories) as on 30-06-2020. This limit may be relaxed in case of sponsored/nominated candidates. This regulation shall not be applicable to the candidates seeking admission to P.G. Programmes.

For B.V.Sc. & A.H. degree programme the minimum age limit is 17 years and the maximum age of 25 years as on or before 31 December 2020. There shall be relaxation of maximum age by five years for SC/ST/OBC candidates.

20. Refusal of Admission
(a) The Vice-Chancellor of the University reserves the right to refuse the admission of any candidate despite of his/her fulfilment of the academic requirements for admission on the basis of Entrance Examination, for reasons to be recorded in writing, whose admission in the opinion of the Vice-
Chancellor shall not be in the best interest of the University. The decision of the Vice-Chancellor shall be final and legally binding on the candidate.

(b) The students who have been permanently dropped or temporarily dismissed from this University either on account of acts of indiscipline, or those who have been debarred from seeking admission from this University shall not be allowed to appear in the Entrance Examination, or seek admission as a sponsored/ nominated candidate. If such a candidate appears in the Entrance Examination by concealing the facts or due to oversight on the part of Admission Cell, the candidature of such a candidate shall be rejected.

The students who are/were dropped from a degree programme of the University on account of poor academic performance shall be allowed to take admission afresh in other degree programmes by clearing the entrance examination as in case of others. However, they will not be allowed to take admission in the same programme. In case they are again dropped on account of poor academic performance they will not be allowed to take admission in any programme of the University in future.

(c) The candidate found using unfair means in the Entrance Examination of this University shall be rejected and further such candidate shall also be debarred from appearing in the Entrance Examination in future.

(d) It is the responsibility of the candidate to furnish full and correct information on the application form. Any admission made on the basis of wrong or concealed information supplied by the candidate or due to any over-sight or error on the part of Admission Cell and detected subsequently the admission or joining of the candidate, would be cancelled at the cost and risk of the candidate.

21. Category

(a) The list of category/sub-category (for office use only) is given in the following table. Once a candidate has chosen his/her category, he/she shall have no option to change it subsequently. If a candidate does not mention the category and or fails to produce valid certificate in support of his/her category/ subcategory, he/she will be considered under general category only.

(i) U.G. Programmes

<table>
<thead>
<tr>
<th>Category/sub-category</th>
<th>Abbreviation</th>
<th>Code Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Without Weightage</td>
</tr>
<tr>
<td>GENERAL</td>
<td></td>
<td>1100</td>
</tr>
<tr>
<td>1. Uttarakhand General</td>
<td>UKG</td>
<td>1100</td>
</tr>
<tr>
<td>2. Physically Handicapped of Uttarakhand</td>
<td>UKPH</td>
<td>1160</td>
</tr>
<tr>
<td>3. Children of Retired/Killed/Disabled Defence Personnel of Uttarakhand</td>
<td>UKDP</td>
<td>1170</td>
</tr>
<tr>
<td>4. Children of Freedom Fighters of Uttarakhand</td>
<td>UKFF</td>
<td>1180</td>
</tr>
<tr>
<td>OTHER BACKWARD CLASSES OF UTTARAKHAND</td>
<td></td>
<td>1200</td>
</tr>
<tr>
<td>5. Uttarakhand Backward Classes</td>
<td>UKBC</td>
<td>1200</td>
</tr>
<tr>
<td>6. Physically Handicapped of Backward Classes of Uttarakhand</td>
<td>UKPHBC</td>
<td>1260</td>
</tr>
<tr>
<td>7. Children of Retired/Killed/Disabled Defence Personnel and belong to Backward Classes of Uttarakhand</td>
<td>UKDPBC</td>
<td>1270</td>
</tr>
<tr>
<td>8. Children of Freedom Fighters of Backward Classes</td>
<td>UKFFBC</td>
<td>1280</td>
</tr>
<tr>
<td>SCHEDULED CASTES OF UTTARAKHAND</td>
<td></td>
<td>1300</td>
</tr>
<tr>
<td>9. Uttarakhand Scheduled Castes</td>
<td>UKSC</td>
<td>1300</td>
</tr>
<tr>
<td>10. Physically Handicapped of Scheduled Castes of Uttarakhand</td>
<td>UKPHSC</td>
<td>1360</td>
</tr>
<tr>
<td>11. Children of Retired/Killed/Disabled Defence Personnel and belong to Scheduled Castes of Uttarakhand</td>
<td>UKDPSC</td>
<td>1370</td>
</tr>
<tr>
<td>12. Children of Freedom Fighters of Scheduled Castes of Uttarakhand</td>
<td>UKFFSC</td>
<td>1380</td>
</tr>
</tbody>
</table>
SCHEDULED TRIBES OF UTTARAKHAND

13. Uttarakhand Scheduled Tribes
   UKST  1400  1401  1402  1403

14. Physically Handicapped of Scheduled Tribes of Uttarakhand
   UKPHST  1460  -  -  -

15. Children of Retired/Killed/Disabled Defence Personnel and belong to Scheduled Tribes of Uttarakhand
   UKDPST  1470  1471  1472  1473

16. Children of Freedom Fighters of Scheduled Tribes of Uttarakhand
   UKFFST  1480  1481  1482  1483

17. Wards of Kashmiri Migrants/ Kashmiri Pandits residing in Kashmir valley
   WKM  2100

18. Wards of J & K Residents
   WJKR  2200

19. University Employee
   UE  4000

20. In service candidates from Animal Husbandry department sponsored by the Govt. of Uttarakhand
   UKAHDS  5000

Irrespective of the option for one of the categories above, the wards of regular Employee of G.B. Pant University of Agriculture & Technology, Pantnagar are advised to indicate at the appropriate place in the online application form that they are wards of regular Employee of the University.

(ii) Masters’ Programmes

<table>
<thead>
<tr>
<th>Category</th>
<th>Abbreviation</th>
<th>Without Weightage</th>
<th>With NCC weightage</th>
<th>With Sports Weightage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uttarakhand General</td>
<td>UKG</td>
<td>1100</td>
<td>1101</td>
<td>1102</td>
</tr>
<tr>
<td>Uttarakhand Backward Classes</td>
<td>UKBC</td>
<td>1200</td>
<td>1201</td>
<td>1202</td>
</tr>
<tr>
<td>Uttarakhand Scheduled Castes</td>
<td>UKSC</td>
<td>1300</td>
<td>1301</td>
<td>1302</td>
</tr>
<tr>
<td>Uttarakhand Scheduled Tribes</td>
<td>UKST</td>
<td>1400</td>
<td>1401</td>
<td>1402</td>
</tr>
</tbody>
</table>

(iii) M.C.A., M.Tech. and Ph.D. Programme

<table>
<thead>
<tr>
<th>Category</th>
<th>Abbreviation</th>
<th>Code Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uttarakhand General</td>
<td>UKG</td>
<td>1100</td>
</tr>
<tr>
<td>Uttarakhand Backward Classes</td>
<td>UKBC</td>
<td>1200</td>
</tr>
<tr>
<td>Uttarakhand Scheduled Castes</td>
<td>UKSC</td>
<td>1300</td>
</tr>
<tr>
<td>Uttarakhand Scheduled Tribes</td>
<td>UKST</td>
<td>1400</td>
</tr>
<tr>
<td>Other States</td>
<td>OS</td>
<td>3000</td>
</tr>
</tbody>
</table>

(b) (I) Rural Weightage (For U.G. (except B.Tech.) Programmes Only)

A weightage of 2 percent of the marks obtained in the Entrance Examination in determining the merit shall be allowed to the candidates belonging to rural areas of Uttarakhand. The rural area weightage will be allowed for determining the Inter-se-merit of the candidate only and not for acquiring eligibility. A candidate who has passed the qualifying examination from an Intermediate College situated in a rural area of Uttarakhand shall be deemed to be a candidate belonging to a rural area. A certificate to this effect shall have to be submitted in original along with application form by the candidate from the Principal of the College concerned duly countersigned by District Inspector of Schools or the District Magistrate of the District on the prescribed Certificate available in this Prospectus (Appendix-VII). In case of a student passing out from Inter College/Campus School/G.G.I.C., Pantnagar, Certificate for Rural Area weightage may be given by the respective Principal only.

(b) (II) Agriculturists Weightage (For U.G. (except B.Tech.) Programmes Only)

A weightage of 2 percent of the marks obtained in the Entrance Examination shall be given to the qualified candidate who is a farmer’s Son/Daughter/Brother/ Sister/Grand Son/Grand Daughter subject to production of certificate (Appendix-VII) from competent authority for having land in Uttarakhand under cultivation by himself/herself, his/her brother, his/her father, his/her mother, his/her grand father (paternal), his/her grand mother (paternal).

(b) (III) Sports Weightage (For U.G. (except B.Tech.) and Masters’ Programmes Only)

A weightage of 2 percent of the marks obtained in the Entrance Examination shall be given to the sports men/women candidates. This weightage shall, however be given only to those sports men/women candidates
who have played at the Inter-varsity/State level (Junior/Senior level) as the case may be or above these levels, as evidenced by the certificate (Appendix–VII) issued by these bodies.

(c) NCC Weightage to 'B' Certificate Holder (For Masters' Degree Programmes Only)  
A weightage of 2 percent of the marks obtained in the Entrance Examination shall be given to the qualified candidates who have NCC 'B' certificate.  

**Note:**1. A candidate seeking admission in U.G. Programme can claim only one weightage either Rural, Sports or Agriculturists.  
2. A candidate seeking admission to Masters' Programmes can claim only one weightage either Sports or NCC.

### 22. Subject Groups for Master's Programmes

For admission to Masters' programme of the University, the candidate shall have to specify the group of paper in the application form based on qualifying examination mentioned against the programme. The groups with their code number are given below:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>If you Posses a Degree of</th>
<th>Subject Group &amp; Group Code for Entrance Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>B.Sc.Ag./B.Sc.Ag. &amp; A.H.</td>
<td>Agriculture</td>
</tr>
<tr>
<td>2.</td>
<td>B.Sc. (Horticulture)</td>
<td>Horticulture</td>
</tr>
<tr>
<td>3.</td>
<td>B.Sc. (Forestry)</td>
<td>Forestry</td>
</tr>
<tr>
<td>4.</td>
<td>B.F.Sc.</td>
<td>Fisheries</td>
</tr>
<tr>
<td>5.</td>
<td>(i) B.Sc. in Home Science (ii) B.Sc. in Home Economics (iii) B.Sc. in Family &amp; Community Sciences</td>
<td>Home Science</td>
</tr>
<tr>
<td>7.</td>
<td>(i) B.Sc. (Dairy Technology) (ii) B.Sc. (Food Technology) (iii) B.Tech. (Dairy Tech.) (iv) B.Tech. (Food Tech. /Food Sc.) (v) B.Tech. (Food Engg.)</td>
<td>Food Science and Dairy Technology</td>
</tr>
<tr>
<td>8.</td>
<td>(i) B.Sc. (Biochemistry)  (ii) B.Sc. (Microbiology) (iii) B.Sc. with Chemistry as one of the major subjects. (iv) B.Sc. (Microbiology with Chemistry) (v) B.Sc. (Zoology, Botany and Chemistry) (vi) B.Sc. Biology (Zoology and Botany with any other subject) (vii) B.Sc. with Environmental Science/Environmental Biology as one of the major subjects. (viii) B.Sc. Botany as one of the major subjects. (ix) B.Sc. Biotechnology. (x) B.Sc. Chemistry, Botany &amp; Food Science &amp; Quality Control.</td>
<td>Life Sciences</td>
</tr>
<tr>
<td>9.</td>
<td>(i) B.Sc. (Physics, Chemistry and Mathematics) (ii) B.Sc. with Statistics as one of the major subjects (iii) B.Sc. with Physics as one of the major subjects (iv) B.Sc. with Chemistry as one of the major subjects (v) B.Sc. with Mathematics as one of the major subjects</td>
<td>Physical Sciences</td>
</tr>
<tr>
<td>10.</td>
<td>(i) BCA (ii) B.Sc. with Mathematics as one of the major subjects (iii) B.Sc. (Information Technology) (iv) B.Sc. Computer Science</td>
<td>MCA</td>
</tr>
</tbody>
</table>

### 23. Syllabus

The syllabus for undergraduate programmes is given in Appendix VIII. For postgraduate programmes this will be at par with the standard course content of the subject approved by the UGC/ICAR for Indian Universities. However, the syllabus for Life Sciences & Physical Sciences is given at Appendix-IX and MCA is given at Appendix X.

### 24. Registration of fresh students

Registration for the first semester of the year of a degree programme is a part of admission procedure and shall be governed by the admission rules. Admission of new students admitted through Entrance
Examination failing to register in the prescribed manner within seven days from the initial date of Registration will be cancelled.

25. Normal and Maximum Duration of the Programmes
The normal and maximum duration of various degree programmes is as per details given below. A student is required to complete all his/her degree requirements within the specified period, failing which he/she may be rendered ineligible for award of the degree.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Degree</th>
<th>Normal Duration</th>
<th>Maximum Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>B.Sc. Agriculture</td>
<td>8 Semesters</td>
<td>12 Semesters</td>
</tr>
<tr>
<td>2.</td>
<td>B.V.Sc. &amp; A.H.</td>
<td>5 ½ year (including a compulsory internship of &quot;One year&quot; duration)</td>
<td>9 academic years (including Internship)</td>
</tr>
<tr>
<td>3.</td>
<td>B.Sc. (Hons.) Community Science</td>
<td>8 Semesters</td>
<td>12 Semesters</td>
</tr>
<tr>
<td>4.</td>
<td>B.F.Sc.</td>
<td>8 Semesters</td>
<td>12 Semesters</td>
</tr>
<tr>
<td>5.</td>
<td>B.Sc. (Forestry)</td>
<td>8 Semesters</td>
<td>12 Semesters</td>
</tr>
<tr>
<td>6.</td>
<td>B.Sc. Horticulture</td>
<td>8 Semesters</td>
<td>12 Semesters</td>
</tr>
<tr>
<td>7.</td>
<td>B.Sc. Food Technology</td>
<td>8 Semesters</td>
<td>12 Semesters</td>
</tr>
<tr>
<td>8.</td>
<td>B.Tech.</td>
<td>8 Semesters</td>
<td>12 Semesters</td>
</tr>
<tr>
<td>9.</td>
<td>B.Tech. For Diploma holders and B.Sc. (Maths) degree holders to be admitted to 2nd year level.</td>
<td>6 Semesters</td>
<td>9 Semesters</td>
</tr>
<tr>
<td>10.</td>
<td>Master’s degree in various majors except MCA</td>
<td>4 Semesters</td>
<td>8 Semesters</td>
</tr>
<tr>
<td>11.</td>
<td>MCA</td>
<td>6 Semesters</td>
<td>9 Semesters</td>
</tr>
<tr>
<td>12.</td>
<td>Ph.D. degree in various majors</td>
<td>6 Semesters</td>
<td>12 Semesters</td>
</tr>
</tbody>
</table>

26. Fee and Refund of fee at the time of Counselling /Admissions
Information regarding each component of the fee, deposits and other charges payable by the students admitted to the University for pursuing a course/programme will be uploaded on the website of the university before online counselling.

All the candidates eligible for counselling for admission to various degree programmes (except MCA programme) shall have to deposit counselling fee of Rs.500/- (non-refundable) online before filling their choices for different programmes. In respect of MCA programme (self-financing) a non-refundable counselling fee of Rs. 2000.00 shall have to be deposited by the candidate online.

The total amount of University fee shall be paid by a candidate online through the website of the university after allotment of seat.

If the candidate fails to register within the stipulated period after document verification, his/her admission will stand cancelled automatically and the seat allotted to him/her will automatically be cancelled and go to the next round of counselling. **The fee deposited by the candidate will be refunded as per University rules.**
ADMISSION CRITERIA FOR CANDIDATES ADMITTED THROUGH ALL INDIA ENTRANCE EXAMINATION CONDUCTED BY ICAR/VCI

The minimum eligibility qualification, Group of papers, Scheme for conduct of examination and minimum age for the candidates admitted though ICAR/VCI will be same as approved by these bodies and published in their Prospectus.

A. Undergraduate Programmes

I. Bachelor of Science Agriculture
   (i) Intermediate Agriculture/Science with Mathematics or Biology or equivalent examination with First class followed by First Class in High School or equivalent examination.
   OR
   (ii) Intermediate Agriculture/Science with Mathematics or Biology or equivalent examination with atleast 65% marks and 55% marks in High School or equivalent examination.

   (iii) For Village Development Officer nominated by Uttarakhand Government.
      1. 55% marks in Intermediate Science/Agriculture & High School or equivalent examinations.
      2. A pass in two years Village Level Worker Diploma course.
      3. Five years field experience as Village Development Officer or equivalent or in a higher capacity.

II. Bachelor of Veterinary Science and Animal Husbandry
   (i) The minimum eligibility qualifications will be the same as prescribed for other candidates seeking admission through the Entrance Examination. The candidates have to appear in the Entrance Examination with PCB paper code-1 and shall have to qualify the written test as given in Para 12 C.
   (ii) For Candidates educated abroad
        The students who are educated abroad seeking admission in Veterinary colleges in India should has passed the subject of Physics, Chemistry, Biology or Biotechnology and English up to the 12th Standard level with 50% marks in aggregate of these subjects.

III. Bachelor of Fisheries Science
   (i) Intermediate Science with Biology or equivalent examination with First Division followed by First Division in High School or equivalent examination.
   OR
   (ii) Intermediate Science with Biology or equivalent examination with atleast 65% marks and 55% marks in High School or equivalent examination.

   (iii) For In-service candidates nominated by Fisheries Department of Uttarakhand Govt.
        Intermediate Science or equivalent Examination with Biology with atleast 55% marks in High School and Intermediate examination both.

IV. Bachelor of Science (Community Science)
   (i) Intermediate Science/Agriculture or equivalent examination with First class followed by First Class in High School or equivalent examination.
   OR
   (ii) Intermediate Science/Agriculture or equivalent examination with at least 65% marks followed by 55% marks in High School or equivalent examination.

V. Bachelor of Technology (Food Technology)
   (i) Intermediate Science (10+2) examination or its equivalent with Physics, Chemistry and Mathematics (PCM)/Physics, Chemistry, Mathematics and Biology (PCMB) with First class followed by First Class in High School or equivalent examination.
   OR
   (ii) Intermediate Science (10+2) examination or its equivalent Physics, Chemistry and Mathematics (PCM)/Physics, Chemistry, Mathematics and Biology (PCMB) with at least 65% marks and 55% marks in High School or equivalent examination.
VI. Bachelor of Technology Programmes

(A) Sponsored and nominee candidate of State Govt./Govt. of India

60% marks in aggregate in any one of the following examination with at least 45% marks in High School or equivalent examination.

(i) Intermediate Science (10+2) with Physics and Mathematics with any one optional subject i.e. Chemistry, Biotechnology, Computer Science and Biology.

OR

(ii) Pre-professional with Physics, Chemistry and Mathematics.

OR

(iii) First year of the three years degree course with Physics, Chemistry and Mathematics provided it is a University examination.

(B) Diploma holders for admission to 2nd year of B.Tech. degree programmes:

Admissions to 2nd year of B.Tech. degree programmes for the Diploma Holders shall be made on the basis of the merit list of the entrance examination to be conducted as per the Uttarakhand Government policy (as per G.O.No. 187/XXIV(8)/2005-37/2004).

Eligibility criteria for such category of candidates are as under:

Diploma in any branch of engineering with a minimum of 60% aggregate marks and minimum three years of institutional study after High School or equivalent. Diploma holders in Agricultural Engineering are entitled to admission in B.Tech. Agricultural Engineering only.

(C) B.Sc. (Maths) degree holders seeking admission to 2nd year B.Tech. degree programmes:

Admissions to 2nd year of B.Tech. degree programmes for B.Sc. (Maths) degree holder shall be made on the basis of the merit list of the entrance examination to be conducted as per the Uttarakhand Government policy.

Eligibility criteria for such category of candidates are as under:

B.Sc. (Maths) degree with a minimum of 60% marks (aggregate) and minimum of three years of institutional study after Intermediate/equivalent.

(D) Kashmiri Migrant and Reserved Seats for residents of J&K and North East States.

Admission against reserved seats for Kashmiri Migrant for I year of B.Tech. programme, shall be made by SCBUK/UTU, Dehradun or as per the latest Uttarakhand Government Policy.

Candidates seeking admission against reserved seats for residents of J&K and North East States for Ist year of B.Tech. programme, should contact the Director, Technical Education, House No.-143, Vasant Vihar, Dehradun (Uttarakhand).

B. Postgraduate Programmes

I. Masters’ Programmes

The eligibility for sponsored candidates will be the same as prescribed for other candidates seeking admission through the Entrance Examination. Candidates should have two years field/teaching/research experience in the related field on the last date of submission of completed application form. The candidate should have secured at least 50% marks in aggregate or an OGPA of 6.000/10.000 or 3.000/5.000 at Bachelor’s level. Further, a relaxation of 0.5% mark per year but not more than 2% marks under any circumstance, for every one-year extra applaudable service after two years of service in the University/Institution shall also be given.

II. Ph.D. Programmes

The eligibility for sponsored candidates will be the same as prescribed for other candidates seeking admission through the Entrance Examination. Candidates should have two years field/teaching/research experience in the related field on the last date of submission of completed application form. The candidate should have secured at least 50% marks in aggregate or an OGPA of 6.000/10.000 or 3.000/5.000 at Bachelor’s level and 55% marks in aggregate or 6.500/10.000 or 4.000/5.000 at Master’s level. Further, a relaxation of 0.5% mark per year but not more than 2% marks under any circumstance, for every one-year extra applaudable service after two years of service in the University/Institution shall also be given.
# FORMAT FOR MEDICAL CERTIFICATE

**(TO BE OBTAINED ONLY FROM A MEDICAL OFFICER OF GOVT. HOSPITAL)**

<table>
<thead>
<tr>
<th>Name of Candidate:</th>
<th>Age:</th>
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</tr>
<tr>
<td>Merit Position:</td>
<td>Father’s Name:</td>
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*(To be filled in by the candidate)*

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<th>M.I.</th>
<th>V</th>
<th>Colour Vision</th>
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<td>Height</td>
<td>Weight</td>
<td>Chest</td>
<td>Abdomen</td>
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<th>Operation</th>
<th>Pulses</th>
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<th>DNS</th>
<th>Hernia</th>
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<tbody>
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<td>Kock’s Asthma</td>
<td>CSOM</td>
<td>Hydrocele</td>
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<td>Asma</td>
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<td>CNS</td>
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<td>Piles</td>
<td>Diabetes</td>
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</tr>
</tbody>
</table>

**Is the candidate physically handicapped**: Yes/ No

If yes, Type and extent of handicap (Please write) Type – I: One leg or hand defective

Type: ________ Extent: ________ %

Type – II: One leg missing

Type – III: One hand missing

Any other type of handicap (Please specify): ________

Any other finding:

Final result. (Fit/Unfit) .............................................................................. based on the medical standards given in Appendix III of the Prospectus (overleaf) for the purpose of Admission.

Signature of Candidate ____________________________

Signature of Medical Officer of Govt. Hospital ____________________________

(with official stamp)

Date: ________

Registration No. ________

35
MEDICAL STANDARDS

1. **General Requirement**
   The candidate should possess good general physique and should be free from any infectious or contagious disease. He/She should be free from any physical or mental illness or defect likely to interfere with the training in the University.

2. **Heart and lungs:** No significant abnormality should be present.

3. **Hernia, Hydrocele:** There should be no hernia or hydrocele. If present corrected before admission.

4. **Vision:**
   - (a) Normal without glasses. Where defective, it must be corrected to 6/9 in better eye and 6/12 in the other eye.
   - (b) There should be no colour blindness for major colours.

5. **Hearing:** Normal in both ears. Where defective, it must be corrected before hand.

6. **Speech:** There should be no major speech defects.

7. Following categories of physically handicapped candidates (having disability 40% or above) shall be eligible for admission to the various courses as shown against each under the Physically Handicapped category.

   - **(1) One leg or hand defective:** B.Sc.Ag./M.Sc.Ag./M.Sc. Agricultural Extension & Communication and Food Technology.

   The candidate claiming for above benefit should submit along with application form a certificate from Chief Medical Officer of the District certifying the extent of Physical Handicap.

**Note**
1. The candidates are well advised to set themselves checked up for any defect and get the same rectified before taking admission to avoid rejection.
SOLEMN VOLUNTARY DECLARATION

(All Freshmen shall be required to sign this solemn voluntary declaration prescribed as under by the University)

I ...........................................………..Roll No................admitted to.........................................

degree programme of the G.B. Pant University of Agriculture & Technology, Pantnagar hereby affirm:

1. That I firmly believe in the basic philosophy outlined in paragraph 11.75 of the Second Education Commission, particularly that quoted below:

   “A University or a College is an academic fellowship of equals where things can be discussed and decided reasonably by the joint committees of teachers and students which we have recommended have this purpose specifically in view. These should be fully utilized to ascertain and redress the genuine difficulties of student. What binds together students and teachers is the deep and creative partnership in the sharing of common interest, mutual regard & sense of values and working together for their main purpose, which is the pursuit of knowledge and discovery. Any one who is not committed to this philosophy or prepared to honour it has really no place in an institution of higher education”.

2. That in any consequence, I believe that all grievances, disputes and problems of the students should be settled by constitutional means, such as approach to the Advisor, Warden, Chief Warden, Dean, Vice-Chancellor or other individuals concerned or by raising them in the relevant committees, such as Central Food Advisory Committee, Professional Societies, Cultural Societies, etc. or by reference to the Board of Management, Chancellor or the State Govt. or if all other means fail by having recourse to Court of justice.

3. That I, further believe that under no circumstances, there is need or justification for any defiance of the Rules and Regulations of the University, show of force, unruly demonstration, coercion, violence or any other means forming part of the so called direct action. I promise that I shall never have recourse to and unconstitutional means.

4. That I, further believe that under no circumstances, there is justification for any student approaching any outsider, may be the agitators from the Universities, politicians or disgruntled individuals not concerned with the affairs of the University. All matters should be settled by those concerned with the affairs of the University such as the students and staff of the University, guardians of the students, members of the Board of Management, the State Government, Chancellor, etc. I shall accordingly refrain from approaching any outside element not concerned with affairs of the University.

5. That, I shall attend my classes and participate in other activities of the University according to the programme, irrespective of the fact whether my other colleagues do so or not and that I shall do so even in the face of intimidation by any of them.

6. That, I further declare that any activity/travelling connected with studies/courses/project etc. will be entirely on my risk and responsibility and in case of accident or mishap the University or any of the functionary will not be responsible for that.

7. I also affirm that I shall abide by the word and spirit of the above declaration and further undertake that if, at any time I am found indulging in any such activity I may be dismissed from the University.

Guardian’s Signature ................................. Student’s Signature .................................

Name in Block Letters................................. Name in Block Letters .................................

Place ................................................ Place ................................................

Date........................................ Date........................................
AFFIDAVIT BY THE STUDENT FOR NON PARTICIPATION IN RAGGING

1. (full name of student with admission/registration/enrolment number) s/o d/o of Mr./Mrs./Ms. ____________________________ having been admitted to ______(name of the institution)_______, have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the “Regulations”) carefully read and fully understood the provisions contained in the said Regulations.

2. I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.

3. I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully aware of the penal and administrative action that is liable to be taken against me in case I am found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.

1. I hereby solemnly aver and undertake that:

(a) I will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the Regulations.

(b) I will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.

2. I hereby affirm that, if found guilty of ragging, I am liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against me under any penal law or any penal law or any law for the time being in force.

3. I hereby declare that I have not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, I am aware that my admission is liable to be cancelled.

Declared this ______day of __________month of __________year.

____________________
Signature of Deponent

Name ..................................

VERIFICATION

Verify that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at ____ (place)____ on this the __(day)____ of ___(month)__, ___(year)____

____________________
Signature of Deponent

Solemnly affirmed and signed in my presence on this the __(day)____ of ___(month)__, ___(year)____ after reading the contents of this affidavit.

OATH COMMISSIONER
AFFIDAVIT BY PARENT/GUARDIAN

I. Mr./Mrs./Ms. (full name of parent/guardian) father/mother/guardian of, (full name of student with admission/registration/enrolment number) having been admitted to (name of the institution), have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the “Regulations”) carefully read and fully understood the provisions contained in the said Regulations.

2. I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.

3. I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully aware of the penal and administrative action that is liable to be taken against ward in case he/she is found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.

4. I hereby solemnly aver and undertake that:
   (a) My ward will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the Regulations.
   (b) My ward will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.

5. I hereby affirm that, if found guilty of ragging, my ward is liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against my ward under any penal law or any law for the time being in force.

6. I hereby declare that my ward has not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, the admission of my ward is liable to be cancelled.

Declared this ______day of __________month of __________year.

____________________
Signature of Deponent

Name ..........................................
Address.....................................
Telephone/Mobile No. ................

VERIFICATION

Verify that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at (place) on this the (day) of (month), (year)

____________________
Signature of Deponent

Solemnly affirmed and signed in my presence on this the (day) of (month), (year) after reading the contents of this affidavit.

OATH COMMISSIONER
CERTIFICATE-I
उत्तराखण्ड के अन्य पिछड़े वर्ग के लिए जाति प्रमाण-पत्र का प्रपत्र (UKBC)

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..................................................सुपुत्र/सुपुत्री श्री ................................
निवासी ग्राम .........................................तहसील..........................................नगर..........................................................जिला ........................................
उत्तराखण्ड राज्य की ............................................पिछड़ी जाति के व्यक्ति हैं। यह जाति उत्तराखण्ड लोक सेवा (अनुसूचित 
जातियों/अनुसूचित जनजातियों तथा अन्य पिछड़े वर्गों के लिए आरक्षण) अधिनियम ............ की अनुसूची ............के 
अन्तर्गत मान्यता प्राप्त है।
यह भी प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..................................................उकल अधिनियम .............द्वारा 
निर्धारित क्षेत्रदायित्व से आच्छादित नहीं है।
श्री/श्रीमती/कुमारी ..................................................तथा अथवा उनका परिवार उत्तराखण्ड के ग्राम........................................
तहसील ..................................................नगर..........................................................जिला ........................................... में सामान्यता रहता है।

अभ्यर्थी के हस्ताक्षर : 

हस्ताक्षर :

निर्देशक :

पूरा नाम :

स्थान :

जिला अधिकारी/अतिरिक्त जिला अधिकारी/सिटीमजिस्ट्रेट/ 
परगना मजिस्ट्रेट/तहसीलदार

CERTIFICATE-2
अनुसूचित जाति/जनजाति (UKSC/UKST) 
(अभ्यर्थी के जन्म जिले के जिला मजिस्ट्रेट/प्रथम क्लास मजिस्ट्रेट द्वारा प्रमाणित)

प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..................................................सुपुत्र/सुपुत्री श्री ................................
निवासी गांव/शहर ..................................तहसील.............................................जिला...........................................
जाति में हुआ था यह जाति अनुसूचित जाति/जनजातियों आदेश (संरोधन) एक्ट 1956 के अन्तर्गत भारत 
सरकार/उत्तराखण्ड शासन/.............................................सरकार द्वारा मान्य अनुसूचित जाति/जनजाति है।

अभ्यर्थी के हस्ताक्षर : 

हस्ताक्षर :

निर्देशक :

पूरा नाम :

स्थान :

जिला अधिकारी/अतिरिक्त जिला अधिकारी/सिटीमजिस्ट्रेट/ 
परगना मजिस्ट्रेट/तहसीलदार

CERTIFICATE-3
स्थाई निवास प्रमाण-पत्र 
(शासनदेश संख्या 2588/एक-4/साल99/2001)

प्रमाणित किया जाता है कि श्री/कुश/श्रीमती.................................................................
पुत्र/पुत्री/पत्नी श्री...............................................................निवासी ग्राम/मोह./वार्ड: ........................................
तहसील............................................................जिला....................................................उत्तराखण्ड के स्थायी निवासी है।

यह भी प्रमाणित किया जाता है कि उकल प्रमाण पत्र निर्मा न करने से पूर्व निर्धारित समस्त मानवप्रकल्पों की 
भली भांति जांच कर ली गई है, और मे जांच से पूर्णता सनातन है।

हस्ताक्षर जिला मजिस्ट्रेट 

नाम :

मोह
CERTIFICATE-4

उत्तराखण्ड के स्वतंत्रता सेनानी (Sub Category Children of Freedom Fighters)
(उस जिले के जिलाधिकारी द्वारा प्रमाणित जिसका अन्यथा निवासी है)

प्रमाणित किया जाता है कि श्री/ कुमारी-----------------------------------------------अन्यथा
निवासी ----------------------------------------------- के पुत्र/ पुत्री/ पुत्र के पुत्र/ पुत्र की पुत्री (अविवाहित) है।
श्री/ श्रीमती ----------------------------------------------- में स्वतंत्रता संग्राम में भाग लेने के कारण --(जो लागू न हों उसे
काटने का काम करें)

1. कम से कम दो माह की वास्तविक अवधि के लिए कारावास का दण्ड भोगा हो, या
2. नंसरंढी या अपने दुर्ग षा ठंडी के रूप में जेल में कम से कम तीन मास रहे हों, या
3. कम से कम 10 वर्षों की सजा पायी हो, या
4. फरसर घेनित हुआ हो, या
5. गोली से धांयल हुआ हो, या
6. बीसरित्त प्राची की हो, या
7. ऐसे यथित भी जो पेशावर कांपड़ के रहे हों, या
8. बुभूपूष आजाद हिन्द कोज के प्रमाणित सैनिक हो या
9. बुभूपूष इडिया इडियोंज लीग के प्रमाणित सदस्य हो।

टिप्पणी : ऐसे यथित जिज्ञासों अन्य भूमिज़ हो, उक्त परिसंचरण में सम्बंधित नहीं माने जायेंगे।

यह प्रमाणित किया जाता है कि श्री/ कुमारी----------------------------------------------- उपरोक्त स्वतंत्रता संग्राम
सेनानी श्री/ श्रीमती ----------------------------------------------- के पुत्र/ पुत्री है अथवा उनके पौत्र/ पौत्री है तथा वह
उन पर वास्तव में आचित है।

अन्यथा के हस्ताक्षर हस्ताक्षर जिला मजिस्ट्रेट
dिनांक : नाम :
स्थान : मोहर

CERTIFICATE-5

उत्तराखण्ड सेना दल (Sub Category Defence Personnel Wards)
(अन्य युनिट के आफिसर कमान्डिंग द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री ----------------------------------------------- पुत्र/ पुत्री
निवासी गाँव/ शहर-----------------------------------------------घरसील-----------------------------------------------जिला.-----------------------------------------------उत्तराखण्ड --------------------------------

दिनांक .......................... को सेवा निवृत (Superannuated) / यदि मे मारे गये/ अंग हो गये। वे उस समय भारतीय
बल सेना, जलसेना/ वायु सेना स्थान ...................................................... में ............................................................................ के पद पर कार्यरत थे।

दिनांक : यूनिट कमान्डिंग आफिसर के हस्ताक्षर
स्थान : नाम :
महर

(जिला मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/ कुक ----------------------------------------------- निवासी गाँव/ शहर.................................

तहसील..........................जिला.----------------------------------------------- उपरोक्त सेवा दल के सेवा निवृत (Superannuated) / यदि मे

मारे गये/ अंग हो गये कर्मचारी जो उत्तराखण्ड के स्थायी निवासी हैं/ वें, के पुत्र/ पुत्री हैं।

दिनांक : हस्ताक्षर जिला मजिस्ट्रेट

स्थान : नाम :
महर
CERTIFICATE-6

उत्तराखण्ड के ग्रामीण क्षेत्र के लिये अधिमान
(कालेज के प्रधानाध्यापक द्वारा प्रमाणित)

प्रमाणित किया जाता है कि श्री/कु0......................................................... कालेज .................................
.से इन्टरमीडिएट की शिक्षा प्राप्त की है। यह कालेज तहसील ...............................जिला................................................
उत्तराखण्ड के ग्रामीण क्षेत्र में स्थित है तथा नगर महापालिका, नगर पालिका, छात्री बोर्ड, सूचित क्षेत्र या शहरी
क्षेत्र के अधिकृत सीमा से बाहर है।

दिनांक : प्रधानाध्यापक के हस्ताक्षर :
स्थान : नाम:
मोहर

प्रधानाध्यापक द्वारा दिया गया कालेज की स्थिति से संबंध उपरोक्त वकाय प्रमाणित किया जाता है।

दिनांक : हस्ताक्षर जिला विद्यालय निदेशक/जिला मजिस्ट्रेट/अतिरिक्त जिला मजिस्ट्रेट
स्थान : नाम :
मोहर

CERTIFICATE-7

शारीरिक विकलांग के अधिमान के लिए प्रमाण—पत्र -Physically Handicapped
(पुपुक्ष चिकित्सा अवधिकारी द्वारा प्रमाणित)

प्रमाणित किया जाता है कि श्री/कु0 .........................................................पुत्र/पुत्री, श्री/श्रीमती.....................................................
निवासी गाँव/शहर............................................................ तहसील.................................................जिला................................................
उत्तराखण्ड, जांच के अनुसार नीचे लिखे कारणों से शारीरिक रूप से विकलांग है।

(केवल मुख्य चिकित्सा अधिकारी ही कारण लिखें)

........................................................................................................................................................................
........................................................................................................................................................................

यह भी प्रमाणित किया जाता है कि उपरोक्त विकलांग स्थिति अन्य शरीर के शिक्षा प्राप्त करने में बाधक नहीं होगी।

दिनांक : हस्ताक्षर मुख्य चिकित्सा अधिकारी
स्थान : नाम
मोहर
CERTIFICATE REGARDING WEIGHTAGE FOR SPORTS

For Under-graduate Candidates:

Note: This Certificate must be furnished in original duly signed by the Principal of an Institute from where the candidate has appeared/passed in the qualifying examination and countersigned by the D.I.O.S. of the Distt. concerned. Incomplete certificate or without a copy of participation certificate shall not be accepted.

I _______________ certify that Sri/Km. _______________ son/daughter of _______________
Distt. _______________ State _______________ is/was a bonafide student of this Institution and participated in the (name of game)____________________organised by the State Council of sports during the period from _______________ to _______________ at (name of place) _______________ and was awarded a certificate of merit by the State Council of Sports, a copy of which is enclosed.

Date _______________2020

(Signature of Principal)
Office Seal

COUNTERSIGNED

Date _______________2020

(Signature of D.I.O.S. of Distt.)
Office Seal

For Post-graduate Candidates:

Note: The Certificate must be furnished in original duly signed by either the Dean Student Welfare or Director of Physical Education or Sports Officer of the Institution from where the candidate has appeared/passed in the qualifying examination and countersigned by the Principal/Dean of the College concerned. Incomplete certificate or without a copy of participation certificate shall not be accepted.

I _______________ certify that Sri/Km. _______________ son/daughter of _______________
Distt. _______________ State _______________ is/was a bonafide student of this Institution and participated in the (name of game)____________________organised by the Inter-University Board during the period from _______________ to _______________ at (name of place) _______________ and was awarded a certificate of merit by the Inter-University Board, a copy of which is enclosed.

Date _______________2020

(Signature of D.S.W./Director of Physical Education/Sports Officer)
Office Seal

COUNTERSIGNED

Date _______________2020

(Signature of Principal/Dean)
Name _______________________
College Seal _______________________
Address _______________________

43
CERTIFICATE REGARDING WEIGHTAGE FOR AGRICULTURIST
(To be signed by an officer not below the rank of Tehasildar)
(For the year 2020-2021)

This is to certify that Shri/Smt/Km. ............................................................ (Name of landholder)
Father/mother, Grand Father/Grand Mother (Paternal side) of Shri/Miss (Name of candidate)
............................................................ of village ............................................................
Tehsil...........................................District ............................................................ holds ................................... hectare of land
in capacity as owner.

Further certified that his/her main source of income is derived from personal cultivation of land
held by him/her.

Place .............................................. Date....................................

Signature...................................... NAME ..............................................

CERTIFICATE IN RESPECT OF SON/DAUGHTER/SPOUSE OF THE REGULAR EMPLOYEE/DAILY
WAGE WORKERS (240 DAYS) OF G.B. PANT UNIVERSITY OF AGRIC. & TECH., PANTNAGAR

I……………………………………hereby certify that Sri/Smt……………………………
father/mother/husband of Sri/Km./Smt. ………………………………who has applied for the admission to
an Undergraduate Programme through Entrance Examination 2020 holds the post of
…………………………………. under me as a regular employee of the G. B. Pant University of
Agriculture & Technology, Pantnagar.

(Signature of Father/Mother/Husband) (Signature of Sectional Head)

Date……………….2020 (Designation Stamp)
SYLLABUS FOR ENTRANCE EXAMINATION OF UNDERGRADUATE PROGRAMME

MENTAL AGILITY

No Syllabus is prescribed.

MATHEMATICS

1. **Relations and Functions**
   Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions, composite functions, inverse of a function. Binary operations.

2. **Inverse Trigonometric Functions**
   Definition, range, domain, principal value branches. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions.

3. **Matrices**
   Concept, notation, order, equality, types of matrices, zero matrix, transpose of a matrix, symmetric and skew symmetric matrices. Addition, multiplication and scalar multiplication of matrices, simple properties of addition, multiplication and scalar multiplication. Non-commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Concept of elementary row and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).

4. **Determinants**
   Determinant of a square matrix (up to 3 x 3 matrices), properties of determinants, minors, cofactors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.

5. **Continuity and Differentiability**

6. **Applications of Derivatives**
   Applications of derivatives: rate of change, increasing/decreasing functions, tangents & normals, approximation, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations).

7. **Integrals**
   Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, only simple integrals of the type to be evaluated.

8. **Applications of the Integrals**
   Applications in finding the area under simple curves, especially lines, areas of circles/parabolas/ellipses (in standard form only), area between the two above said curves (the region should be clearly identifiable).

9. **Differential Equations**
   Definition, order and degree, general and particular solutions of a differential equation. Formation of differential equation whose general solution is given. Solution of differential equations by method of separation of variables, homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type

\[ \frac{dy}{dx} + py = q, \] where \( p \) and \( q \) are functions of \( x \).

10. **Vectors**
    Vectors and scalars, magnitude and direction of a vector. Direction cosines/ratios of vectors. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point.
dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors.

11. Three-dimensional Geometry:
Direction cosines/ratios of a line joining two points. Cartesian and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes. (iii) a line and a plane. Distance of a point from a plane.

12. Linear Programming:
Introduction, definition of related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, mathematical formulation of L.P. problems, graphical method of solution for problems in two variables, feasible and infeasible regions, feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).

13. Probability:
Multiplication theorem on probability. Conditional probability, independent events, total probability, Baye's theorem, Random variable and its probability distribution, mean and variance of haphazard variable. Repeated independent (Bernoulli) trials and Binomial distribution.

PHYSICS

Physical measurements, System of units, Dimensions, Errors in measurement, Motion in one, two and three dimensions, Laws of motion, Work, Energy and power, Center of mass, Rigid bodies, Rotational motion, Gravitation, Acceleration due to gravity, Gravitational potential energy, Geostationary satellites.
Brownian motion, Avogadro's hypothesis and Avogadro's number, Inter-atomic and intermolecular forces, States of matter, Crystalline and glassy solids, Elasticity, Pressure, Archimede's principle, Viscosity, Fluid flow, Surface tension.
Periodic motion, Time period and frequency, Simple harmonic motion, Springs, Kinetic and potential energy in SHM, Simple pendulum, Forced oscillations, Resonance, Free and damped oscillations, Superposition principle of waves, Harmonic waves, Reflection of waves, Standing and traveling waves, Beats, Doppler effect.
Magnetic field due to a current, Biot-Savart law, Lorentz force, Amperes law, Magnetic dipole moment, Torque, Galvanometer, Moving charges in magnetic and electric fields, Field of a bar magnet, Magnetic field lines, Magnetic flux, Magnetic field of earth, Tangent galvanometer.
Faraday's law of induction, Lorenz's law, Lorentz force, Inductance, RC, LR and LCR circuits, Power flow in AC circuits, Resonance and oscillations, Electromagnetic waves, em-wave equations, Spectrum of e.m. waves and light.
Atomic masses, Binding energy, Size of the nucleus, Radioactivity, Nuclear energy, Fission and fusion reactions.
Molecules, Molecular energies, Rotational and vibrational spectra, Solids and their structures, Semiconductors, Semiconductor diodes, Transistors.

BIOLOGY

BOTANY
1. morphology of root, stem and leaf and their modifications.
2. Flower, inflorescence, seed and fruits.
3. Development of male and female gametophytes, pollination, fertilization and development of embryo.
5. Cell and cellular functions, tissues, anatomy of root, stem and leaf of both monocot and dicots, secondary growth.
   (a) Structure of root hair, uptake of water and minerals root pressure and transpiration.
   (b) Structure of stomata, function, factors, and carbon assimilation.
   (c) Translocation and storage of food materials.
   (d) Respiration
   (e) Mineral nutrition and metabolism
   (f) Plant hormones and vitamins.
7. Plant taxonomy and elementary study of the following families:
   (a) Brassicaceae (b) Leguminosae (c) Malvaceae (d) Solanaceae (e) Cucurbitaceae (f) Asteraceae
   (g) Poaceae (Gramineae)
8. Classification of plant kingdom. A brief study of the following groups/plants:
   (a) Viruses  (b) Bacteria  (c) Spirogyra  (d) Mucor/Rhizopus  (e) Moss  (f) Fern  (g) Cycas
9. Natural resources and their conservation; environment and pollution-air, water and soil community, ecosystem, pyramids, energy flow, mineral cycles, and succession.
10. Plant tissue culture, biotechnology and its applications.

ZOOLOGY
1. A brief account of classification of animal kingdom with reference to animal biodiversity including both invertebrates and vertebrates.
2. Physiology of animals with emphasis on Human. Homeostasis, nutrition and digestion, circulation, respiration, reproduction, excretion, co-ordination and endocrine.
3. Embryology of human
5. Cell and cell division.
6. Mendelism, sex determination, sex linked inheritance, genetic disorders and polyploidy.
7. Biological molecules including carbohydrates, lipids, proteins and nucleic acids.

CHEMISTRY

ATOMS AND ATOMIC STRUCTURE
Measurements in Chemistry (Significant figures, S.I. Units), Mole concept, Nature of light and electromagnetic waves, atomic spectra, Bohr model, line spectra (a brief idea). In adequacy of Bohr’s Model, concept of an atomic orbital, quantum numbers and its application to electronic structures of atoms. Pauli’s exclusion principle. Aufbau principle, Stability of filled & half-filled orbital Configuration of transition elements in 3d series. Dual nature of particle and radiation (photoelectric effect etc.) de-Broglie equation, uncertainty principle (simple numerical problems), Hund’s rule.

PERIODIC PROPERTIES OF ELEMENTS
Periodic law, long form of periodic table. Periodicity in properties like atomic radii and volume, ionic radii, ionization energy, electron affinity. Division of elements into s, p, d and f blocks.

CHEMICAL BONDING AND MOLECULAR STRUCTURE
Concept of orbital overlap in bond formation, sigma and pi bonds shapes. of molecules (VSEPR) Theory, hybridization (sp, sp³, sp², dsp², sp³d), properties of covalent compounds, shapes of simple molecules like H₂O, NH₃, CH₄, PF₅, SF₆, C₂H₆ and C₂H₂. Coordinate bond formation with a few examples. Ionic bonds; definition, factors influencing the formation of ionic compounds. An elementary treatment of metallic and hydrogen bonds. Idea of molecular orbital, bonding and anti bonding, molecular orbital picture in hydrogen and oxygen molecules only.

CHEMISTRY OF REPRESENTATIVE ELEMENTS
The chemistry of s and p block elements with reference to general trends in physical and chemical properties, anomalous behavior of first member of each group, diagonal relationship.
Group 1 Elements: Alkali metals; Group 2 Elements: Alkali earth metals; Group 13 Elements: Boron family; Group 14 Elements: Carbon and silicon family; Group 15 Elements: Nitrogen family; Group 16 Elements: Oxygen family; Group 17 Elements: Halogen family; hydrogen; Group 18 Elements: Noble gases; Preparation and properties of a few important compounds of representative elements (like halides, oxides and oxy acids etc.)

COORDINATION CHEMISTRY AND ORGANOMETALLICS
Coordination Compounds nomenclature; Isomerism in Coordination compounds; Bonding in Coordination compounds; Valence Bond Theory Application of Coordination Compounds; Compounds containing metal carbon bonds; Application of organometallics.

CHEMICAL THERMODYNAMICS
Second law of Thermodynamics: Entropy, free energy, spontaneity of a chemical reaction, free energy and chemical equilibrium, free energy available for useful work. Third law of Thermodynamics (concept of zero entropy only).
CHEMICAL EQUILIBRIUM & PHASE EQUILIBRIUM
Law of mass action and its application to chemical equilibrium. Effect of changing the conditions of system at equilibrium-Le-Chatelier’s principle.

IONIC EQUILIBRIUM IN SOLUTION
Equilibrium involving ions, various concepts of acids and bases-Arrhenius, Bronsted, Lowery and Lewis, dissociation of acids and bases, acid-base equilibria, ionization of water, pH scale, hydrolysis of salts, pH calculation of solutions, acid base titration using indicators. Solubility equilibria-solubility of sparingly soluble salts, solubility equilibria and solubility products, common ions effect, buffer solution and buffer action.

REDOX REACTIONS
Oxidation and reduction-electron transfer concept, redox reactions in aqueous solution, oxidation number, balancing of chemical equations in redox reactions by oxidation number method and ion-electron method or half equation method.

CHEMICAL KINETICS
Rate of reaction-symbolic expression, rate expression. Units of rates and specific rate constants. Order of reaction, molecularity. Determination of order of reaction and concentration (first order reactions only). Temperature dependence of rate constant. Activation energy, Photochemical reactions.

STATES OF MATTER

NUCLEAR & RADIOCHEMISTRY
Nature of radiation from radioactive substances; nuclear structure and nuclear properties, Nuclear reaction, radioactive disintegration series, artificial transmutation of elements. Isotopes and their uses. Radio carbon dating. Synthetic elements.

SOLUTIONS

COLLOIDS AND MACROMOLECULES
Colloidal solutions, electroinetic and optical of colloidal Solutions, properties, applications, concept of gold number, protective colloids, Macromolecules, molecular weight of macromolecules, methods of determining molecular weight of macromolecules.

SURFACE AND CATALYSIS
Absorption and adsorption, emulsions, micelles, modern developments, Interfaces, Homogeneous and heterogeneous catalysis, structure of a catalyst.

CARBON AND ITS COMPOUNDS

INTRODUCTION TO CARBON COMPOUNDS
Elemental Carbon. Inorganic compounds of carbon (oxides and carbides)

HYDROCARBONS
Alkanes: sp²-hybridization, sigma bond, chain isomerism; Alkanes sp³ hybridization, carbon-carbon double bond, sigma and bi-bonds. Planer molecular of ethylene cis-trans isomerism; Alkanes: sp-hybridization C (C, linear molecule of acetylene); Arenes: Delocalisation of electronics in benzene, Resonance structure of benzene: o.m.p. –isomers ; Systematic nomenclature of organic compounds.

PREPARATION AND PROPERTIES OF HYDROCARBONS
Source of hydrocarbons (composition of coal and petroleum, hydrocarbons from coal and petroleum, cracking and reforming, quality of gasoline-octane number, gasoline additives). Laboratory preparation of alkanes (preparation from unsaturated hydrocarbons, alkyl halides and carboxylic acids) ; Laboratory preparation of alkenes (Preparation from alcohol and alkyl halides); Laboratory preparation of alkynes (Preparation from calcium carbide and acetylene) ; Physical properties of alkanes (boiling and melting points, solubility and density) Reactions of hydrocarbons, (oxidation, additions, substitutions and miscellaneous reactions).

PURIFICATION AND CHARACTERIZATION OF ORGANIC COMPOUNDS
ORGANIC CHEMISTRY BASED ON FUNCTIONAL GROUPS

HALIDES AND HYDROXY COMPOUNDS
Nomenclature of compounds containing halogen atoms and hydroxyl group; haloarens, alcohols and phenols, correlation of physical properties and uses. A few important polyhalogen compounds—chloroforms, carbon tetrachloride, DDT, benzene hexachloride. Polyhydric compounds, ethane 1,2-diol. Propane 1,2,3, triol.

ORGANIC CHEMISTRY BASED ON FUNCTIONAL GROUPS-I
Ethers, aldehydes ketones, carboxylic acids and their derivatives. Nomenclature of ethers, aldehydes ketones, carboxylic acids and their derivative. Acylhalides, acid anhydride, amides and esters, methods of preparation, correlation of physical properties with their structures, chemical properties & uses.

ORGANIC CHEMISTRY BASED ON FUNCTIONAL GROUPS-II
Nitrogen compounds. A brief description of the chemistry of the carbon compounds containing nitrogen (cyanides, isocyanides, nitro-compounds and amines) and their methods of preparation; correlation of physical properties with structure, chemical reaction, uses.

SYNTHETIC AND NATURAL POLYMERS
Classification of polymers, some important natural and synthetic polymers (with stress on their general methods of preparation); some common examples and their important uses.

BIO CHEMISTRY:

CARBOHYDRATES: Monsaccharides, Disaccharides, Polysaccharides.

AMINO ACIDS AND PEPTIDES: Structure and classification, properties of amino acids and peptides, biologically important peptides.

PROTEINS AND ENZYMES: Structure of proteins, some important proteins, enzymes.

NUCLEIC ACIDS: Chemical properties of nucleic acids, Biological functions of nucleic acids, protein synthesis.

LIPIDS: Classification, structure and function.

AGRICULTURE

AGRONOMY
Cultivation of common crops—wheat, paddy, cotton, jowar, bajra, maize, soybean, arhar, mustard, sunflower, pea, groundnut, gram, tobacco, barseem, potato and sugarcane under the following heads: Recommended varieties and their main characteristics, suitable areas, seed rate, time and method of sowing, irrigation, fertilizer use, control of weeds, insect-pests and diseases, harvesting, processing and yield.
Soils-origin and classification loam, silt, clay, sandy loam, etc.; physical and chemical properties; soil conservation. Use of fertilizers, essential nutrients—nitrogen, phosphorus and potassium uptake by different crops, organic and inorganic fertilizers and their effects on crops and soil, methods of using fertilizers, farmyard manure, composting, green manuring, study of organic and inorganic fertilizers/ manures. Pollution of soil, water and air in modern agriculture and remedial measures.
Irrigation and Drainage—water requirement of crops, measurement of water discharge, prevention of loss of water; quality of water; different methods of irrigation—flooding, basin method, border /strip method, sprinkler and drip irrigation— their advantages and limitations. Necessity for drainage, damage to soil and crops due to excess moisture, prevention of formation of acidic and alkaline soils and their management; natural calamities—floods and drought and their management.

HORTICULTURE
Study of following horticultural crops including recommended varieties and their main features, suitability for different regions, time and method of sowing, fertilizer use, irrigation, diseases and pests and their control.
Crops—cabbage, cauliflower, onion, garlic, cucurbits, bittergourd, bottlegourd, muskmelon, squash, ridgegourd; root crops—carrot, radish sweet potato, turnip; peas, tomato, brinjal, lady’s finger, spices; fruit crops such as banana, apple, mango, litchi, citrus, guava, papaya, peach etc.

AGRICULTURAL ENGINEERING
Type of iron and steel, wood, plastic and tin used in agricultural implements and their forms & properties. Study of different types of ploughs—their merits and demerits; mechanical devices such as cultivator, harrow, sprayer, seed drill, thresher etc. their management & cost, selection of prime movers, water lifting devices; discharge, command area, cost of different system; soil preparation, methods of ploughing, need for tillage, kinds of tillage, interculture, equipment for interculture.
Power transmission through belts, pullies and gears, questions relating to number of teeth in gears according to speed and size of pullies, hand operated chaff cutters, cane crusher etc., draught and its measurement.
AGRICULTURAL ECONOMICS

Introductory agricultural economics—meaning and scope, significance of agricultural economics in national planning. Production – meaning, factors of production such as land, labour, capital and management, properties of factor of production; law of returns; intensive and extensive agriculture; Exchange - meaning, types, advantages; types of markets, general price determination; money and credit; banks and their functions; principle of international trade, Distribution-meaning, rent, wages, interest and profit; Consumption -meaning, wants and their properties, law of diminishing marginal utility, law of demand, relative prices and standard of living; Cooperation - meaning, principles of cooperation, types of cooperative societies in agriculture, single purpose and multi-purpose cooperative societies, land development banks: Agriculture-place in Five Year Plans; statistics of agricultural production in the State; Major programmes of agricultural development.

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

Study of major breeds of cows, buffaloes, goat, sheep and poultry; elementary physiology and anatomy of cows and bullocks; estimate of their age; characteristics of good milch cows and buffaloes, bulls and bullocks.

Care and management of pregnant cow, during calving, newborn calves, young calves, mulch cows; poultry management.

Principles of feeding of various classes of livestock and poultry. Economic feeds for various classes of livestock and poultry. Clean milk production and maintenance of hygiene.

Common medicines and vaccines used in treatment/prevention of animal diseases; handling of animals for treatment; castration. Operation flood, Milk and Milk products, Identification of Adult rated milk.

Note: Questions from similar topics can also be included.
SYLLABUS FOR ENTRANCE EXAMINATION OF MASTER'S PROGRAMME

The syllabus for Postgraduate programmes will be at par with the standard course content of the subject approved by the UGC/ICAR for Indian Universities. The syllabus for Life Sciences & Physical Sciences groups are given below:

LIFE SCIENCES

UNIT-I
Morphology and anatomy of land plants, Cell cycle, cell division, senescence, life cycle of an angiosperm, pollination, fertilization, embryogenesis, seed formation, seed storage proteins, seed dormancy and germination. Concept of cellular totipotency, organogenesis and somatic embryogenesis, Principles of Mendelian inheritance, linkage, recombination and genetic mapping; extrachromosomal inheritance; gene mutation, chromosome aberrations (numerical and structural), transposons. Introduction to Plant Breeding. Pteridophytes and Bryophytes, Taxonomy and. Plant Geography

UNIT-II
Diversity, distribution, systematics and phylogeny of animals, Origin of life, history of life on earth, evolutionary theories, natural selection, adaptation, speciation. Principles of inheritance, molecular basis of heredity, the genetic material, transmission of genetic material, Structure of cell, cellular organelles and their structure and function, cell cycle, cell division, Comparative physiology of different systems, Parasitic organisms and host-parasite relationship., Immune response, cellular and humoral immunity, evolution of the immune system: Embryonic development, cellular differentiation, organogenesis, metamorphosis, genetic basis of development. The ecosystem, habitats, species diversity, zoogeography and Animal behavior.

UNIT-III

UNIT-IV

UNIT-V
Plant physiology and its significance in agriculture; physical properties and chemical constitution of protoplasm; plant cell water relation-imbibition, surface tension, diffusion, osmosis; absorption and translocation of water and nutrients; transpiration, guttation, mineral deficiencies and their symptoms; physiological: disorders, correction, hydrophonics, foliar nutrients aerobic and anaerobic respiration; Photo respiration Factors affecting respiration and Photosynthesis. Photosynthesis- modern concept and the factors affecting photosynthesis, nitrogen fixation growth development and differentiation; growth hormones, growth retardants, growth inhibitors and their use in agriculture; tropism in plants photoperiodism and vernalization; seed dormancy, germination; fruit ripening process and its control.

UNIT-VI
UNIT VII
Ecology and its relevance to life, natural resources-their management and conservation, Climatic elements as factors of crop growth, Impact of change in environment on cropping patterns, Change in environment due to agricultural environmental pollution and associated hazards to crops and animals, Human liquid and solid waste disposal, Pollution prevention and remediation, Concepts and dynamics of ecosystem component, Food chain and energy flow, Productivity and biogeochemical cycle, Types of ecosystem, Population ecology and biological control, Community structure and organization, Sustainable development, Economic importance of microbes, plants and animals.

UNIT VIII
Electronic configuration of elements, periodic classification of elements, atomic number, atomic and ionic radii, ionization potential, electron affinity and electro negativity, electronic theory of valency, sigma and pi-bonds, hybridization and directional nature of covalent bonds, metallic bonds, VSEPR theory, V.B. and MO theory, ionic solids and weak interactions, Lewis and Bronsted theories of acids and bases, hard soft acid and bases (HSAB), oxidation states and oxidation number, common oxidizing and reducing agents, Ionic equations. Natural and artificial radioactivity, radioactive decay, nuclear fission and fusion. Chemistry of the common elements and their compounds. Principles of extraction isolation (and metallurgy) of important elements. Chemistry of transitional elements, lanthanides and actinides. Structures of hydrogen peroxide, diborane, aluminium chloride and the important oxyacids of nitrogen, phosphorus, chlorine and sulphur. Interhalogen compounds.
Outlines of the manufactures of: sodium carbonate, sodium hydroxide, ammonia, nitric acid, sulphuric acid, cement, glass, ceramics and artificial fertilizers.
Inert gases: Isolation and Chemistry, structure of inert gas compounds.
Werner’s theory of coordination compounds, V.B. and M.O. theory of bonding in metal complexes, electronic spectrum, magnetic and spectral properties of metal complexes. Organo metallic compounds.
Bioinorganic chemistry, biological role of alkaline earth metal ions, metalloporphyrins.
Analytical chemistry: Principles and methods of chemical analysis, principles involved in separation techniques, chromatography.

UNIT IX
Modern concepts of covalent bonding, bond lengths, energy and bond angles, electron displacements, inductive, electromeric, mesomeric and hyper conjugative effects, resonance ad its applications to organic chemistry, tautomerism, effects of structure on chemical reactions, dissociation constants.
Mechanism of organic reactions: Types of reagents and organic reactions, reaction intermediates, product analysis, isotope effects, kinetic and stereo chemical studies.
Stereochemistry: Optical and geometrical isomerism, chirality, enantiomers, stereogenic centers, distereomers, resolution and recemization, relative and absolute configuration, sequence rules, E&Z and R&S nomenclature, concept of conformation and conformational analysis of ethane, butane and cyclohexane and sugars.
Chemistry and reactions of derivative of aliphatic and aromatic compounds including: Alkanes, alkynes and alkenes. arenes and aromaticity, benzene and polynuclear hydrocarbons, alkyl and aryl halides, S_n1, S_n2 and S_ni reactions, nuclear and side chain reactions, aromatic substitutions reactions, elimination reactions. Aliphatic and aromatic alcohols and phenols, ethers and epoxides, aliphatic and aromatic aldehydes and ketones, aliphatic and aromatic carboxylic acids and their derivatives, aliphatic and aromatic amines and amides, synthetic applications of diazonium salts. Amino-acids.
Reactions and applications of organometallic compounds, Acetoacetic and malonic esters, Organic synthesis via enolates. Heterocyclic compounds, pyridine, quinoline, thiophene, furen and pyrole. Important organic name reactions and rearrangements of synthetic importance.
Carbohydrates, classification and general reactions, glucose, fructose and amino acids and proteins, terpenoids and alkaloids. Polymers, dyes and pigment.
Theory and application of spectral techniques, UV, IR and NMR in structure elucidation of simple organic molecules.

UNIT X
Elementary quantum mechanics
energies, Kirchhoff equation, Criteria for spontaneous changes, second law of thermodynamics entropy. Free energy, criteria of thermodynamic equilibrium.

Solutions: osmotic pressure lowering of vapour pressure, depression of freezing point, elevation of boiling point, determination of molecular weights, association and dissociation of solutes.

Chemical equilibrium, law of mass action and its applications to homogeneous and heterogeneous equilibrium, Le Chatelier’s principle, Influence of temperature on chemical equilibrium.

Electrochemistry: Faraday’s laws of electrolysis, conductivity of an electrolyte: equivalent conductivity and its variation with dilution, solubility of sparingly soluble salts, electrolytic dissociation, Ostwald’s dilution law, anomaly of strong electrolytes, solubility product, strength of acids and bases: hydrolysis of salts, hydrogen ion concentration buffer action, theory of indicators.

Electrochemical cells: Reversible cells, standard hydrogen and calomel electrodes and redox-potentials, concentration cells, determination of pH transport number and ionic product of water, Potentiometer titration, chemical kinetics: Molecularity and order of a reaction, First order and second order reactions, Determination of order of a reaction, temperature coefficients and energy of activation, Collision theory of reaction rates, Activated complex theory.

Phase rule: Explanation of the terms involved, Applications to one and two component system, reduced phase rule, distribution law.

Colloids: General nature of colloidal solutions and their classification, general methods of preparation and properties of colloids, coagulation, protective action, gold number, adsorption phenomenon and adsorption isotherms.

Catalysis: Homogeneous and heterogeneous catalysis, catalytic promoters and poisons.


**PHYSICAL SCIENCES**

**UNIT I**

Gradient, Divergence and Curl of Vector fields, Gauss’s, Stoke’s and Green’s theorems. Newton’s laws, Galilean invariance, Non-relativistic motion of charged particles in electric and magnetic field, conservation of linear, angular momenta and energy, Collisions, Centre of mass frame. Inverse square law force, Kepler’s laws. Harmonic oscillator. Damped harmonic oscillator, Quality factor. Coulomb’s law, field due to a charge distribution, Gauss’s theorem and its applications, Line integral of electrical field, electric potential, Force on a surface charge, Energy associated with electric field. Current density, charging and discharging of a condenser through a resistance. Force on a moving charge, Fields due to a Helmholtz coil, Solenoid and a current loop, magnetic flux, Faraday’s law in differential form, Self and mutual inductance, RL and RC circuits.

Dielectrics, Moments of a charge distribution, Torque and force on a dipole in and electric field, Induced dipole moment, Polarisability, Qualitative idea about dia, para and Ferro magnetism, Magnetic susceptibility, Langevin’s theory of paramagnetism, Hysterisis phenomenon, AC circuits.

**UNIT II**


**UNIT III**

Fermat’s Principle, Cardinal points, telescopic combinations, Interference and diffraction of light, Rayleigh criterion, resolving power of telescope and microscope, Grating, Resolving power of a grating. Polarization and different kinds of polarized light, Double refraction, optical activity Electromagnetic theory.

UNIT IV

UNIT V
Real analysis: continuity and discontinuity, Reimann Integral and its applications. Algebra of integral function, convergence and divergence. Different methods in Hydrodynamics in the equation of continuity in different systems. Equation of motion and Bernoulli’s equation with different cases. Motion in 2D and its applications. Differential and Integral calculus: successive differentiation, Different form of theorems, Tangents and normal, Maxima and Minima with different cases. Various types of integral form, Beta and gamma functions. Linear Algebra: Group, ring field, Integral domain and vector space with examples and theorems. Differential equations and Laplace transformation, vector analysis and Analytical Geometry, mechanics and complex analysis.

UNIT VI

UNIT VII

UNIT VIII

UNIT IX
Modern concepts of covalent bonding, bond lengths, energy and bond angles, electron displacements, inductive, electromeric, mesomeric and hyper conjugative effects, resonance ad its applications to organic chemistry, tautomerism, effects of structure on chemical reactions, dissociation constants. Mechanism of organic reactions: Types of reagents and organic reactions, reaction intermediates, product analysis, isotope effects, kinetic and stereo chemical studies.
Stereochemistry: Optical and geometrical isomerism, chirality, enantiomers, stereogenic centers, distereomers, resolution and recemization, relative and absolute configuration, sequence rules, E&Z and R&S nomenclature, concept of conformation and conformational analysis of ethane, butane and cyclohexane and sugars.

Chemistry and reactions of derivative of aliphatic and aromatic compounds including: Alkanes, alkynes and alkenes, arenes and aromaticity, benzene and polynuclear hydrocarbons, alkyl and aryl halides, SN1, SN2 and SNi reactions, nuclear and side chain reactions, aromatic substitutions reactions, elimination reactions. Aliphatic and aromatic alcohols and phenols, ethers and epoxides, aliphatic and aromatic aldehydes and ketones, aliphatic and aromatic carboxylic acids and their derivatives, aliphatic and aromatic amines and amides, synthetic applications of diazonium salts. Amino-acids.

Reactions and applications of organometallic compounds, Acetoacetic and malonic esters. Organic synthesis via enolates. Heterocyclic compounds, pyridine, quinoline, thiophene, furan and pyrole.

Important organic name reactions and rearrangements of synthetic importance.

Carbohydrates, classification and general reactions, glucose, fructose and amino acids and proteins, terpenoids and alkaloids. Polymers, dyes and pigment.

Theory and application of spectral techniques, UV, IR and NMR in structure elucidation of simple organic molecules.

UNIT X

Elementary quantum mechanics


Thermodynamics: The first law of thermodynamics, Isothermal and adiabatic expansion, Enthalphy, heat capacities, Thermo chemistry – heats of reaction, formation, solution and combustion, Calculation of bond energies, Kirchhoff equation, Criteria for spontaneous changes, second law of thermodynamics entropy. Free energy, criteria of thermodynamic equilibrium.

Solutions: osmotic pressure lowering of vapour pressure, depression of freezing point, elevation of boiling point, determination of molecular weights, association and dissociation of solutes.

Chemical equilibrium, law of mass action and its applications to homogeneous and heterogeneous equilibrium, Le Chatelier’s principle, Influence of temperature on chemical equilibrium.

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Catalysis: Homogeneous and heterogeneous catalysis, catalytic promoters and poisons.


Note: Questions from similar topics can also be included.
Appendix-X

SYLLABUS FOR ENTRANCE EXAMINATION OF MCA PROGRAMME

MENTAL APTITUDE: (50 questions)
The questions in this section will cover logical reasoning and quantitative aptitude. Some of the questions will be on comprehension of a logical situation and questions based on the facts given in the passage.

MATHEMATICS: (90 questions)
Set Theory: Concepts of sets Union Intersection Cardinality Elementary counting theorem permutations and combinations.
Probability and Statistics: Basic concepts of probability theory, Averages, Dependent and independent events, frequency distributions, measures of central tendencies and dispersions.
Algebra: Fundamental operations in Algebra, Expansions, Factorization, simultaneous linear & quadratic equations, indices, logarithms, arithmetic, geometric and harmonic progressions, determinants and matrices.
Coordinate Geometry: Rectangular Cartesian coordinates, distance formulae, equation of lines, intersections of lines, pair of straight lines, equations of a circle, parabola, ellipse and hyperbola.
Calculus: Limit of functions, Continuous function, Differentiation of function, tangents and normal, simple examples of maxima and minima. Integration of functions by parts, by substitution and by partial fraction; Definite integrals, Applications of Definite Integrals to areas.
Vectors: Position vector, addition and subtraction of vectors, scalar and vector products and their applications to simple geometrical problems and mechanics.
Trigonometry: Simple identities, trigonometric equations, properties of triangles, solution of triangles, heights and distances, General solutions of trigonometric equations.

COMPUTER AWARENESS: (30 questions)
Computer Basics: Organization of a Computer, Central Processing Unit (CPU), Structure of instructions in CPU, input/output devices, computer memory, back-up devices.
Data Representation: Representation of characters, integers and fractions, binary and hexadecimal representations, Binary Arithmetic: Addition, subtraction, multiplication, division, simple arithmetic and two’s complement arithmetic, floating point representation of numbers, Boolean algebra, truth tables, Venn diagrams.

GENERAL ENGLISH: (30 questions)
Questions in this section will be designed to test the candidates’ general understanding of the English language. There will be questions on the following topics: Comprehension, Vocabulary, Basic English Grammar (like usage of correct forms of verbs, prepositions and articles), Word power, Synonyms and Antonyms, Meanings of words and phrases, Technical writing.

Note: Questions from similar topics could also be included.

DISTRIBUTION OF QUESTIONS IN THE PAPER:
The question paper will contain 200 multiple-choice questions distributed as follows:
1. Mental Aptitude 50 questions
2. Mathematics 90 questions
3. Computer Awareness 30 questions
4. General English 30 questions
FORMAT FOR FORWARDING OF THE APPLICATION FORM

From

…………………………………………. No. ………………
…………………………………………. Date : ……………
………………………………………….

To

The Coordinator (Admissions),
G. B. Pant University of Agriculture & Technology,
Pantnagar-263145 (Uttarakhand)

Ref: __________________________

Sub: Sponsorship of Mr./Ms.________________________ for Masters’/Ph.D.
________________________ Programme.

Sir,

This has reference to the application form No. ______________ of
Mr./Ms.________________ admission to ___________________ Programme in
_________________ subject at your University as an in-service candidate. The complete application
form is enclosed herewith/has already been sent alongwith relevant documents/papers for
consideration under sponsored category. In case of his/her selection for admission in the above
programme, he/she will be relieved as per rules of this Institution.

Yours faithfully,

( )
IMPORTANT INFORMATION AT A GLANCE

1. Online filling of Application form
   (a) Online filing of application form for UG, Masters, MCA and Ph.D. : 01-03-2020 to 10-04-2020

2. Last date for receipt of print out of online application form
   (a) Undergraduate, Masters’, MCA and Ph.D. programmes : 18-04-2020
   (b) M.Tech. programmes and Sponsored candidates for Masters’, M.Tech. and Ph.D. programmes : 30-05-2020

3. For downloading of Admit Cards : 21-05-2020 onwards

4. Date of Entrance Examination
   (a) For Master’ and Ph.D. Programmes : 06-06-2020 (Saturday)
   (b) For Undergraduate Programmes and MCA Programme : 07-06-2020 (Sunday)

5. Scheduled Time of Examination
   (a) For Master’ and Ph.D. Programmes : 10.00 AM to 1.00 PM
   (b) For Undergraduate Programmes and MCA Programme : 10.00 AM to 1.00 PM

6. Declaration of Result : On or before 15-06-2020

7. Counselling : Second/Third week of July 2020

8. Date of Registration
   : To be announced later on

9. Last date for Registration after first counselling
   : To be announced after the First counselling.
   (No separate letter will be issued for second counselling).

10. Second Counselling
    : Subject to availability of vacant seats

11. Third counselling

12. Examination fee details

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<th>Category</th>
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<tr>
<td>For General/OBC</td>
<td>Rs. 1200.00</td>
</tr>
<tr>
<td>For SC/ST/PH</td>
<td>Rs. 600.00</td>
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</tbody>
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FOR ANY OTHER INFORMATION CONCERNING ADMISSION PLEASE CONTACT:

THE COORDINATOR (ADMISSIONS)
G. B. PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY,
PANTNAGAR - 263 145 (U.S. NAGAR) UTTARAKHAND

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