

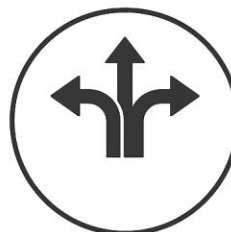
Dr Yashwant Singh Parmar University of Horticulture & Forestry, Nauni (Solan)



**Ranked 18th in Agriculture &
Allied Sectors**



**Undergraduate
Programmes**



**Multiple Entry & Exit
for Undergraduate
Degree Programme**



**Discipline in
Master's Degree
Programme**

**Prospectus for Admission to Undergraduate & Master's
Degree Programmes
2025-26**



01792-252009



admission@yspuniversity.ac.in



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Detail of Fee For Submission of Online Form

Sr. No.	Category	Amount (in ₹)		
		Normal Seat (a)	Self-financing Seat (b)	Both (a and b)
i)	Unreserved/ OBC/ EWS/Others	1600	2200	3000
ii)	SC/ ST/ Third gender	1100		2500
iii)	Orphaned and PwD Candidates	No fee		

Note:

- i) An additional amount of ₹1000 besides above, shall be charged as late fee.
- ii) In case a candidate wishes to be considered for both Normal and Self-financing seats, he/she must select both options in the online application form.
- iii) The online application, once submitted, cannot be modified; therefore, candidates are advised to exercise utmost caution while filling out the form.

IMPORTANT NOTES

1. The candidates are advised to read the instructions carefully before applying online for submission of form for admission.
2. Normal seats are reserved for Himachali domicile candidates only, whereas, self-financing seats are open for all desirous candidates at National level.
3. For ease of reference:
 - a) **Blue colour**  has been used to indicate provisions related to **Undergraduate Programmes**.
 - b) **Red colour**  has been used to highlight provisions pertaining to **Master's Programmes**.

Important Dates For Undergraduate And Master's Admission

For Undergraduate Programmes

Sr. No.	Particulars	(Normal Seats – Only for HP Domicile Candidates)	(Self-financing Seats – Open for all candidates at National level)
1.	Last date of submission of online application form without late fee	31.05.2025	30.06.2025
2.	Last date of submission of online application form with late fee	05.06.2025	04.07.2025
3.	Date of Entrance Test	15.06.2025	-
4.	Date of uploading the answer key	15.06.2025	-
5.	Date of display of list of candidates	-	07.07.2025
6.	Last date for submissions of any objections to answer key, if any	18.06.2025	-
7.	Date of Uploading final key	21.06.2025	-
8.	Date of declaration of result	25.06.2025	-
9.	Tentative Date of 1 st Counselling (offline mode)	14.07.2025	15.07.2025
10.	Tentative Date of 2 nd Counselling (offline mode)	28.07.2025	29.07.2025
11.	Tentative Date of 3 rd Counselling (offline mode)	11.08.2025	12.08.2025
12.	Commencement of Classes	07.08.2025	07.08.2025

For Master's Programme

Sr No.	Particulars	Date
1.	Last date of submission of online application form without late fee	16.06.2025
2.	Last date of submission of online application form with late fee	23.06.2025
3.	Date of entrance test	05.07.2025
4.	Date of uploading the answer key	05.07.2025
5.	Last date for submissions of any objections to answer key, if any	07.07.2025
6.	Date of Uploading final key	09.07.2025
7.	Date of declaration of result of entrance test	11.07.2025
8.	Tentative Date of 1 st counselling	21.07.2025
9.	Tentative Date of 2 nd counselling	18.08.2025
10.	Commencement of classes	07.08.2025

Note:

- i) The candidates are advised to remain in regular touch with university website till the completion of admission process. Any change in the date of receipt of application form and counselling schedule will be uploaded on the university website www.yspuniversity.ac.in.
- ii) For any clarification/ inquiry with regard to admission, please contact the Deputy Registrar/ Superintendent (Academic), Office of the Registrar, Dr. Yashwant Singh Parmar University of Horticulture & Forestry on any working day from 10:00 AM to 5:00 PM on ☎ 01792-252009 and 01792-252219 or submit queries through E-mail: admission@yspuniversity.ac.in



Disclaimer & Important Instructions

1. **Informational Purpose Only**

This Prospectus is intended solely for general informational purposes to assist prospective candidates seeking admission to various Undergraduate/Master's Degree Programmes of the University. It does **not** constitute a legally binding document or a contract between the University and any applicant.

2. **Right to Modify or Cancel**

The contents of this Prospectus are indicative and non-exhaustive. Which are subject to revision, modification, or cancellation at any time by the **Competent Authority** of the University without prior notice, in accordance with academic, administrative, or regulatory requirements. Accordingly, no part of this Prospectus shall be relied upon as conclusive or final in any legal or administrative proceeding.

3. **Dynamic Nature of Policies**

The provisions outlined in the University Act, Statutes, Academic Regulations, and related legal/administrative notifications, orders, instructions, and fee structures are subject to change. The University reserves the right to implement such changes without prior notice.

4. **Responsibility to Check Updates**

It is the **sole responsibility** of candidates to regularly visit the official University website (www.yspuniversity.ac.in) for all relevant updates and announcements. The University shall not issue separate communication through e-mail, SMS etc for such updates.

5. **No Change of Entrance Test Date**

No request for rescheduling the Entrance Test shall be entertained, even in the event of a clash with other examinations.

6. **Eligibility and Form Submission**

Candidates must ensure that they fulfil the prescribed eligibility criteria before submitting their application. The application form must be filled out accurately. Once submitted, no changes will be permitted.

7. **Timely Submission & Payment Responsibility**

Candidates are strongly advised to apply well before the last date to avoid server overload or technical delays.

8. **Payment Errors and No Refunds**

Any duplicate or incorrect payment made during the application process shall be the sole responsibility of the candidate. The University will not entertain any requests for refunds in such cases. Candidates are advised to carefully review payment details before proceeding with the transaction.

9. **Payment Proof**

Candidates must retain proof of fee payment (such as a screenshot or receipt showing the reference ID, UTR No., date, and transaction amount) for future reference or queries.

10. **Application Submission**

Final submission of complete online form and requisite fee by the stipulated deadline is mandatory.

11. **Original Documents at Counselling**

Candidates are required to produce original documents/Certificates at the time of counselling. Failure to do so will render the candidate ineligible for admission.

Abbreviations

Abbreviation	Nomenclature
UGET	Undergraduate Entrance Test
B.Sc. (Hons) Horticulture	Bachelor of Science (Honours) in Horticulture
B.Sc. (Hons) Forestry	Bachelor of Science (Honours) in Forestry
B.Tech. (Biotechnology)	Bachelor of Technology in Biotechnology
B. Sc. Ag. (Hons) Natural Farming	Bachelor of Science Agriculture (Honours) in Natural Farming
B.Tech. (Food Technology)	Bachelor of Technology in Food Technology
COH	College of Horticulture, Nauni (Solan)
COF	College of Forestry, Nauni (Solan)
COHF, Neri	College of Horticulture & Forestry, Neri (Hamirpur)
COHF, Thunag	College of Horticulture & Forestry, Thunag (Mandi)
CIC	Computing and Informatics Centre
Hort.	Horticulture
Fort.	Forestry
Agri/Ag.	Agriculture
ICAR	Indian Council of Agricultural Research
KVK	Krishi Vigyan Kendra
PGET	Post Graduate Entrance Test
M.Sc.	Master of Science
M.Tech.	Master of Technology
ABM	Agribusiness Management
MBA	Master of Business Administration
NCC	National Cadet Corps
NRI	Non-Resident Indian
NSO	National Sports Organisation
NSS	National Service Scheme
GPA	Grade Point Average
OCPA	Overall Credit Point Average
OGPA	Overall Grade Point Average
DEE	Directorate of Extension Education
DR	Directorate of Research
EWS	Economically Weaker Sections
OBC	Other Backward Classes
PCB	Physics, Chemistry & Biology
PCM	Physics, Chemistry & Mathematics
PDC	Provisional Degree Certificate
SC	Schedule Cast
ST	Scheduled Tribe
WFF	Ward of Freedom Fighter
SNS Library	Satyanand Stokes Library
DSW	Dean Students' Welfare
UGC	University Grants Commission
VC	Vice-Chancellor
NEC	North Eastern Council





Chapter I

Introduction

Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Nauni, Solan, was established on 1st December, 1985 with the objective to promote education, research and extension education in the fields of horticulture, forestry and allied disciplines. Late Dr. Yashwant Singh Parmar, the 1st Chief Minister and the architect of Himachal Pradesh perceived the importance of horticulture and forestry to develop and improve the State economy which led to the establishment of this University. Its history lies in erstwhile Himachal Agricultural College, Solan, established in 1962 and affiliated to the Panjab University, Chandigarh. It became one of the Agriculture campus of Himachal Pradesh University, Shimla on its formation in 1970. Consequent upon the establishment of Himachal Pradesh Krishi Vishvavidyalaya, Palampur in 1978, this campus became its Horticulture Complex and finally in 1985, assumed the status of a State University, being the only University in the country engaged exclusively in teaching, research and extension in Horticulture and Forestry.

The University is located at Nauni in Solan district of Himachal Pradesh, 13 km from Solan on Solan-Rajgarh road, at an elevation of 1300 metres above mean sea level. Solan town is situated on national highway and is well connected by train and bus services.

Points at Glance:

Year Founded:	1985
Main Campus area	550 hectare
• Off-campus area	202 hectare
• Regional Research Stations	5•
•Satellite Station	12
•KVKs	5
•Faculty*	237
Students on roll	2916

The University has four constituent colleges as under

1.1.1. College of Horticulture, Nauni, Solan

1.1.2. College of Forestry, Nauni, Solan

1.1.3. College of Horticulture and Forestry, Neri, Hamirpur

1.1.4 College of Horticulture and Forestry, Thunag, Mandi

1.1.1. College of Horticulture, Nauni, Solan



The College of Horticulture, situated at the main campus of the University of Horticulture and Forestry in Nauni, Solan, Himachal Pradesh, is a beacon of Horticultural education and research. Established on December 1, 1985, it traces its roots to the Himachal Agriculture College and Research Institute in Solan, founded in 1962. Affiliated with Punjab University, Chandigarh, the college evolved over the years and gained university status in 1985.

The College of Horticulture plays a pivotal role in the region's agricultural landscape. With a mission to impart quality education and conduct research in horticulture and allied fields, the college strives to meet the challenges of modern scientific manpower requirements and provide effective extension services.

The institution's goals encompass educating and training human resources in horticulture, transforming Himachal Pradesh into a horticultural hub, advancing research in elite horticultural areas, and contributing to the sustainable growth of horticulture while maintaining the fragile ecosystem of the Himalayan region.

The curriculum emphasizes both theoretical and practical aspects, preparing students for the dynamic field of horticulture. The College of Horticulture, with its rich history and commitment to excellence, is dedicated to building a skilled workforce and contributing to the sustainable development of Horticulture in the region.

The college, aims to provide high-quality education, combining theoretical knowledge with practical experiences, ensuring that graduates are well-prepared for future challenges in the ever-evolving field of horticulture.



1.1.2 College of Forestry, Nauni, Solan



The College of Forestry, holds the distinction of being the first of its kind in forestry education under the University system in India. Its roots trace back to the Himachal Pradesh Agricultural College and Research Institute (HPAC & RI), established in 1965. Crucial moments in its evolution include its affiliation with Himachal Pradesh University, Shimla, and the inception of the Department of Forestry in 1971.

Expanding its horizons, the college integrated forestry courses into the B.Sc. Agriculture degree in 1973. Further milestones were achieved with the introduction of M.Sc. and Ph.D. programs in Forestry in 1976 and 1983, respectively, at the Department of Forestry, College of Agriculture, Solan. In 1987, the College of Forestry emerged as a standalone institution.

The college's mission is to train a skilled workforce for sustainable forestry and natural resource development, with a focus on conserving Himalayan Plant Diversity. The goal is to align human resource development with the fragile Himalayan ecosystem and create eco-friendly technologies meeting the needs of hill communities.

The College emphasizes the commitment to balanced theoretical and practical education. Students benefit from experiential learning, rural work experiences, and industry attachments. The college invites aspiring foresters to join in preserving our precious forests and mastering the art and science of forestry for a sustainable future.



1.1.3 College of Horticulture and Forestry, Neri, Hamirpur

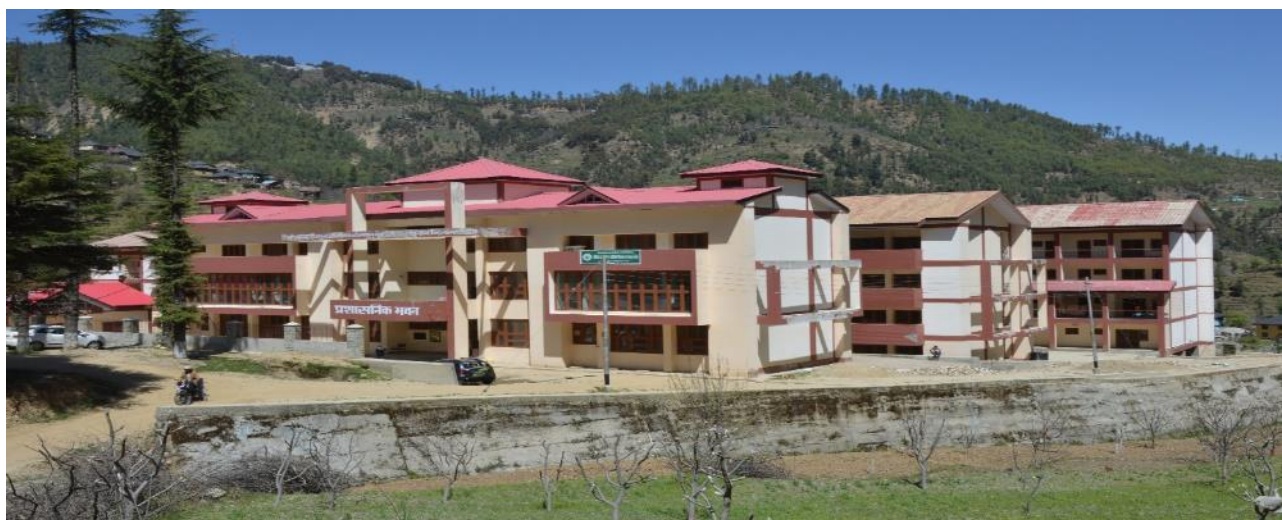


The College of Horticulture and Forestry, Neri stands as a beacon of excellence in agricultural education, particularly in the fields of Horticulture, Forestry and Biotechnology. The college is at the forefront of imparting quality education at both undergraduate and postgraduate levels. The institution's core mission revolves around enhancing agricultural productivity, developing cost-effective technologies, and contributing to the Government of India's ambitious goal of doubling farmers' income.

The faculty members are not just educators but catalysts for change, actively involved in research, extension education and the introduction of innovative technologies tailored to the unique landscape of the Shiwalik hills. Their efforts extend beyond the classroom, with a focus on transferring technology and knowledge to farmers, aligning with the college's commitment to agricultural development.

The college's mission is clear to build an institution of excellence in Horticulture, Forestry, and allied disciplines, creating a pool of human resources capable of meeting the evolving needs of farm science education, industry, and various stakeholders. With a goal to impart skill-based education, foster entrepreneurship, and enhance employability at the grassroots level, the college aspires to reach students in rural and semi-rural areas, establishing fruitful linkages with regional, national, and international organizations. The vision extends to becoming a scale-neutral lead resource data center for education and research in Horticulture, Forestry, and allied disciplines, contributing significantly to the agricultural landscape and the broader community

1.1.4 College of Horticulture and Forestry, Thunag, Mandi



The College of Horticulture and Forestry, Thunag, Mandi stands as a testament to agricultural excellence since its establishment on March 8, 2019, under the prestigious Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Nauni, Solan. Evolving from the Regional Horticultural and Forestry Development and Extension Centre at Panicha village (established on September 11, 2018) to the College of Horticulture & Centre of Excellence for Horticulture Research and Extension, it finally adopted its present name, the College of Horticulture and Forestry, Thunag, Mandi.

Situated in the temperate zone at an altitude of 1900 meters (AMSL), Thunag experiences a cool/moderate climate year-round with winter snowfall. Accessible by road, it is located just 59 km (approximately 2 hrs and 30 minutes) from Nerchowk and is reachable via the Nerchowk-Janjehli road, 14 km before Janjehli. The college has played a pivotal role in agricultural education, initiating its first batch of the BSc (Hons.) Horticulture 4-Year Program in August 2019, admitting 69 students initially, and currently, hosting 282 students in both BSc (Hons.) Horticulture and BSc (Hons.) Forestry.

The college boasts comprehensive facilities, including smart classrooms, a library, conference halls, laboratories, a playground, and a badminton court. With a dedicated and well-qualified faculty in teaching, research, and extension activities, the college is committed to its mission of building an institution of excellence in learning in Horticulture, Forestry, and allied disciplines. The overarching goal is to educate and train human resources, conduct research, transfer technology, and serve as a centre for teaching and extension activities in the field of horticulture, forestry, and allied sciences.



1.2. System of Education

The University follows the semester system of education as per ICAR course curriculum which requires continuous hard work and regularity on the part of the students in the classes throughout the semester.

The education aims at an all-round development of the student for which the University provides all necessary facilities. Emphasis is laid on high academic standards and discipline. The University also provides facilities for different games, sports, and other co-curricular activities (literary, cultural, hobby development, etc.). These activities are looked after by the Students' Welfare Organization.

1.3 Faculty and Infrastructure

1.3.1 Faculty

The University has adequate faculty of teachers/scientists catering to the needs of teaching, research and extension education activities.

1.3.2 Laboratories and Research Farms



The colleges have well equipped laboratories, virtual class rooms, ordinary class rooms and smart classrooms with state of art instruments and teaching aids. Separate laboratories for conducting undergraduate practical's are available besides postgraduate laboratories catering to latest research. Being farm University, it has a vast experimental area at the main campus of 550 hectares provided with modern facilities like polyhouses, glass houses, mist chambers, sprinklers/drip irrigation system, precision farming etc. Besides, herbal garden and demonstration area serve as effective live tools for easy learning.

1.3.3 Satyanand Stokes Library



Satyanand Stokes Library of the university is pioneer in Automated Library Services with the provisions of in-house databases along with other important national and international databases. There is diversified library collection ranging from subject matter texts to the varied themes of religion, spirituality, philosophy, literature, art and culture, braille texts and competitive examinations. The library has access to e-Resources including CeRA, e-books (perpetual) and different Open Access Databases. The SNS library is also recipient of Best Usage Award of J-Gate@ CeRA through J-Gate Discovery Platform for two consecutive years 2022 to 2023 AD. The SNS Library is registered as an Institutional Member of NDLI (National Digital Library of India) and is consistently encouraging the use of NDLI resources. The library has also signed multiple MoUs with INFLIBNET (UGC Regulatory Body) to improve academic research integrity. All the theses of the university are uploaded on the ICAR database Krishikosh and INFLIBNET database Shodhganga for promoting university Research at global platforms. The library provides Plagiarism Detection Services to its faculty and users in the university and the constituent colleges of the university.

The library provides services of Document Delivery Request, Inter-library Loan, Reference Services, News Clippings and Reprographic Services. A Reserved Reading Area for faculty and scholars is also provided, Awareness sessions and trainings for the students and the faculty are regularly organized for better understanding of the resources and services provided by the library. The vision of the library is to emerge as a digital platform compatible with the contemporary state of the art technologies including use of artificial intelligence for the library services. A hybrid mode of physical collections and digital resources will be the hall mark of SNS Library

1.3.4. Computing and Informatics Centre



The University has a separate Computing and Informatics Centre (CIC) which has its own Local Data centre's, Domain Name Server, Sophos Firewall and 1Gbps Lease line for internet. CIC is playing a significant role in the delivery of computer education at the graduate and post-graduate levels. Through a campus-wide local area network the CIC facilitates a high-speed internet of 1Gbps via lease line provided by NKN and BSNL University receives new applications for admissions to UG, PG and PhD programmes via online Admission Portal of the university in which student can register and submit their application forms and fee online. The students can get latest notifications, news and Academics information from University Website which is handled by the CIC. The CIC offers the ability to share resources and information (through the Internet, email and website) to all the academic departments, offices as well as students. The CIC has a computer lab with 40 computers with latest configuration in which students can perform their practical works.

1.4 Academic Programme

Undergraduate Degree Programme

The undergraduate programmes i.e. B.Sc. (Hons.) Horticulture, B.Sc. (Hons.) Forestry, B.Tech. (Biotechnology), B.Tech. (Food Technology) and B. Sc. Ag. (Hons) Natural Farming are of 4 academic years (8 semesters) duration. The academic session comprises two semesters each of 21 weeks with two semester breaks. NCC/ NSS camps and educational tours are organized during the semester break.

Besides this as per new education policy the students will also be allowed to exit after two semesters for UG certificates and after four semesters for UG diploma in the concerned discipline. The students who wish to exit after the 2nd or 4th semester of graduation will have



to attend 10 weeks internship to fulfil the requirement the certificate and diploma as per NEP guidelines mentioned in the ICAR's Sixth Deans Committee Report. The Details for which have been mentioned in the Chapter-IV.

Master's Degree Programme

The Master's programs, namely M.Sc., M.Tech., and MBA, span two academic years (four semesters). Each academic session consists of two semesters of 21 weeks each, with semester breaks in between.

The curriculum integrates advanced coursework, practical training, research projects, thesis and industry exposure, equipping students with both theoretical knowledge and hands-on expertise. Additionally, students may engage in fieldwork, internships, and seminars to enhance their professional competence.

A thesis submission is a mandatory requirement, serving as a partial fulfillment for the award of the Master's degree.

1.5. Financial Assistance

Undergraduate Programme	Master's Programme
<p>The following financial assistance is provided: -</p> <ul style="list-style-type: none"> i) ICAR National Talent Scholarship of Rs.3000/- PM. ii) College Merit Scholarship of Rs. 1000/- PM (10% of the enrolment in each class). iii) Dr. OP Awasthi Memorial Merit Scholarship for one boy student of B.Sc. (Hons.) Horticulture, College of Horticulture, Solan (Nauni) of Rs.500/- per month. iv) Mrs. Kanti Devi Awasthi Memorial Merit Scholarship for one girl student of B.Sc. (Hons.) Horticulture, College of Horticulture, Solan (Nauni) of Rs.500/- per month. v) Government of India scheduled caste/ tribe and low-income group stipend through State Education Department. The value of stipend is equivalent to the tuition and other fee. 	<ul style="list-style-type: none"> i) University Merit Scholarship @Rs 3000/- PM (One in each discipline) ii) University Stipend @ Rs 2000/- PM (for HP domicile Students admitted under normal seats and not getting any financial assistance) iii) Shri Lakshman Singh Thakur Memorial Merit Scholarship for one M.Sc. student in College of Horticulture, Nauni in the discipline of Fruit Science specializing in the field of Temperate Fruits @ Rs. 2500/- PM. <p>ICAR Junior Fellowship/ National Talent Scholarship</p> <p>Awarded by the ICAR on the basis of All India Competitive Examination conducted for M. Sc./ M. Tech./ MBA (Agribusiness) programmes: -</p>



vi) Interest free loan for SC/ ST students from H.P. Scheduled Castes and Tribes Development Corporation. vii) District Soldier Board stipend (amount of stipend is variable). viii) UGC scholarships to the students from Scheduled Castes/ Scheduled Tribe, Other Backward Classes, Persons with Disability category.	i) ICAR Junior Research Fellowship at the rate of Rs.12640/- PM + contingent grant of Rs. 6000/- per annum. ii) National Talent Scholarship at the rate of Rs. 5000/- PM.
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1.6. Medals

Undergraduate Programme	Master's Programme
i) Gold Medals awarded to toppers at university level according to the provision of Academic Regulations: - a. B.Sc. (Hons.) Horticulture b. B.Sc. (Hons.) Forestry c. B.Tech. (Biotechnology) d. B.Tech. (Food Technology) e. B.Sc. Ag. (Hons.) Natural Farming ii) Puran Anand Adlakha Gold Medal to all round best graduate of the University.	Gold Medals awarded to the toppers at University level in accordance with the Provision of Academic Regulations: - i) M. Sc. disciplines at College of Horticulture, Nauni (Solan) and disciplines with common nomenclature at constituent colleges. ii) M. Sc. disciplines at College of Forestry, Nauni (Solan) and disciplines with common nomenclature at constituent colleges. iii) M. Sc. disciplines in the Departments of Basic Sciences, Social Sciences and Agribusiness Management at the main campus and disciplines with common nomenclature at constituent colleges. iv) Dr. S. P. Dhall Memorial Gold Medal for Overall Best M.Sc. Student of the University who secures highest OGPA with minimum 80 per cent marks in compulsory Statistics course. v) Bauji Siri Chand Bhatia Memorial Gold Medal for Overall Best M.Sc. Student in the discipline of "Seed Science & Technology".



1.7. Certificate of Merit

Certificate of Merit are awarded to the students securing an **OGPA of 8.00/ 10.00** and above at Undergraduate level and **8.50/10.00** and above at Master's level.

1.8. Jagjit Singh Hara Award

Padam Shri Jagjit Singh Hara Award amounting to Rs. 20,000/- along with a memento and certificate for overall topper in the field of Horticulture and Forestry will be awarded on the Foundation Day of the University at Undergraduate level.

1.9 Research Collaborations of the University



Students Welfare Activities

The Students' Welfare Organization of the University attends to the residential requirements, sports, cultural/ co-curricular activities and medical care of the students.

2.1 Hostels



Aerial view of the Hostel Block



The Main Campus is in the beautiful lap of the Mother Nature where scenic beauty changes within short distances. Boys and Girls Hostels are situated on two hillocks to accommodate about 1250 students.

There is limited hostel accommodation available in the main campus as compared to admissions. The allotment of hostel is, therefore, made strictly on the basis of merit and availability. Persons with Disability (PwD) are provided hostels on priority.

Name of the Degree Programme	Name of the Earmarked Hostel	Capacity	Year of Programme
BOYS HOSTEL			
B.Sc.	Neelkanth Hostel	43	1 st Year
	Shambhu Hostel	118	2 nd and 3 rd Year
	Madhav Hostel	102	3 rd and 4 th Year
M.Sc. And MBA	Natraj Hostel	98	-
Ph. D.	Vishnu Hostel	80	1 st Year and M.Sc. extra (if seats are available)
	Keshav Hostel	59	2 nd and 3 rd Year
	Kedar International Hostel	30	-
GIRLS HOSTEL			
B.Sc.	Sarswati Hostel	108	1 st Year
	Nandini Hostel	101	2 nd year, 3 rd and 4 th Year
	Kalyani Hostel	139	2 nd year, 3 rd and 4 th Year
	Kadambari Hostel	43	2 nd year, 3 rd and 4 th Year
M.Sc./ MBA	Mangla Hostel	48	-
	Vasundhra*	60	
	Gaytri International Hostel	46	
Ph.D.	Gitanjali Hostel	80	-
	Gauri Hostel	45	
	Vaishnavi Hostel	54	

*Girls Students of any programme of ST category have choice to opt Vasundhara Hostel which has been marked as ST Hostel as per the ICAR Norms.

2.2 Other Welfare Activities



University Gymnasium



The main campus of the University has a spacious playground where different games like Cricket, Volley Ball, Hockey, Foot Ball, Kabaddi, Athletics etc. are played regularly. Inter-College Sports meet are also organized yearly. Inter-University and Intra-University sport meet are regularly held in the ground. Basket Ball facilities are also available to the students in a separate court. Besides, ground is also used for students practice matches for Cricket, Volley Ball, Foot Ball and other athletic events.

The University has a Gymnasium in its main campus for indoor games like Volley Ball, Badminton, Table Tennis, Boxing, Basket Ball etc. Two Badminton Courts have been made one each for boys and girls separately. Besides two TT Tables and a Kabaddi mat is also available in the gymnasium. World quality gym facilities are also available in the University gym such as Cardio, Strength, Spinning Bike, Multi Press, Treadmill run, Hip Thrust, etc.

The Main campus has a Health Centre which caters round the clock emergency services to the students, staff and their wards. Two Medical Officers, One Chief Pharmacy Officer, one Pharmacy Officer, One Female Health Worker, One Lab Technician and two Drivers are always in standby mode for the services of patients round the clock. The University Health Centre has been equipped with latest instruments viz. Centrifuge Machine, Incubator, Microscope, Biochemistry Analyzer, Glucometer, pipette, HB meter, Needle Cutter, BP operators, Nebulizer, Oxygen concentrator, Oxygen Cylinder, Thermal Scanner, Oximeter, Stadiometer, Height meter, Weighing Machine. All are being used to diagnose the patient then and there.

Numerous facilities are also available such as Dispensing of Medicines, Dressing, Injectioning, Stitching, etc. Medical Lab tests such as Hb, ESR, Blood Grouping, Blood Sugar, LFT, RFT, Lipid Profile, HBalc, Widal, Calcium and Urine M/E are also done. Equipment's for diagnosing thyroid is being procured. The University Health Centre is also functioning as Designated Microscopic Centre (DMC) where patients are diagnosed for tuberculosis.

2.3 Training and Placement Cell

A Training and Placement Cell is functioning in the University for Quality enhancement of education and Campus Placement of students. It aims for skill upgradation and capacity building of students besides providing opportunities for entrepreneurship development. Students' visits to Industrial hubs, start-ups, agri-incubators, successful farmer fields, processing units, etc. are organized. Specific programmes organized by this Cell are listed as under: -

- Personality Development Classes are regularly conducted every year for the final year students of B.Sc., M.Sc. and Ph.D. students.
- Career oriented workshops are regularly conducted with final year students of B.Sc. (Hons.) Horticulture in which they are made aware about career prospects after doing graduation.



- All advertisements are regularly displayed on the notice board for easy access by the students.
- All vacancies are circulated through Whatsapp groups maintained by the students of all the Colleges in the main Campus.
- Campus placements are regularly made.
- A database is being prepared about the student placements.
- Coaching sessions for JRF/ SRF/ Bank positions are organized.
- Invitation to motivational speaker(s) are regularly extended.
- Organization of business fests is a future activity.
- Organization of job fairs is a future activity.
- Career empowerment coaching is planned for SC/ ST/ OBC/ EWS – General.

2.4 Students' Centre

The Students' Centre consists of one large multipurpose hall with wi-fi facility for academic and social activities. Apart from this, a well-furnished Cafeteria runs for the facility of the students and staff.

2.5 Open Air Theatre



Students performing at the Open Air Theatre

The University aims at the holistic growth and development of its students and encourages student as well as staff participation in co-curricular activities such as various forms of art and theatre along with providing them a platform to nourish their imagination and creativity.



Open Air Theatre at Dr YS Parmar University is centrally located and has remarkable aesthetics. It is a centre of attraction for students as well as staff. Cultural, literary as well as academic events are organized at the Open-Air Theatre throughout the session from time to time

2.6 Anti-Ragging Committee

In order to curb the menace of ragging to the Zero-tolerance level particularly in the hostels, the Hostel Anti-Ragging Committee is constituted for each Academic Session. The composition of the Committee is as under: -

- Chairperson
- Three Members from Teachers/ Wardens
- Four Members from Hostellers (2 boys and 2 girls)

2.7 Students Association (SA)

In accordance with the provisions of the Academic Regulations of the University, there is a provision of constitution of Students' Association in all the constituent colleges of the University. All regular and bonafide students of each constituent college except foreign and inservice students studying in various degree programmes are the members of Students' Association. The students enrolled in short-term courses, certificate or diploma courses or any other course leading to a degree are not entitled for membership of the Students' Association. Each member of Students' Association pays an annual subscription fee and all those who pay the fee, forms general body of the Association.

2.8 Environmental Sports and Cultural Club (ESCC)

Environmental Sports and Cultural Club (ESCC) was established by energetic and talented Youths of Dr. Yashwant Singh Parmar University of Horticulture & Forestry, Nauni (Solan) on 15th February, 1997 to create awareness about Environment, Sports and Culture. It is a registered NGO under Societies Registration Act, 1860. The club has golden history of 27 years, which reveals successful organization of various activities related Environment, Sports and Culture. Moreover, it also provides a platform for the new comers to explore their hidden and intellectual talent in various fields.

Today, the youth is forgetting about heritage and Culture and is far behind in sports; therefore, the Club has chosen Environment, Sports and Culture as main fields. The club is supported by the University Authorities from time to time by organizing various activities.

2.9 National Cadet Corps (NCC)



NCC Cadets at the Republic Day

NCC is an essential part of the Course curriculum for 1st year, 2nd year and 3rd year students of Undergraduate Programmes. Two NCC Companies of 1 HP Boys Bn and 1 HP Girls Bn NCC, Solan have been raised at each constituent College with an aim of grooming in both boys and girls, nurture them and direct their energy towards nation building by making them responsible citizens. The motto of NCC is “UNITY AND DISCIPLINE”. NCC has an enrolled strength of more than 100 cadets of Boys Bn and 50 cadets of Girls Bn in this University. Foreign students and in-service students are exempted from NCC. Each, boys and girls NCC is commanded by the Associate NCC Officers (ANO) of the rank of Lieutenant.

NCC cadets are exposed to different trainings which includes Basic, Advanced and Specialized trainings.

Apart from training and preparing the youth for future challenges in NCC, cadets are given various benefits in terms of job opportunities, scholarships and financial aid in time of any tragedy while doing any NCC related activities. These incentives are announced from time to time both by the Central and State Governments. These incentives are in the field of employment as well as academics and personal including medals, trophies, cash award, etc. The best incentive being the vacancy reserved for “CEE” Certificate Holder cadets for the commission as officers in the Armed forces.

2.10 Laundry Services

The University has centralized laundry services mandatory to be used by hostel dwellers where they get their clothes washed twice a week along with steam ironing. Monthly 60 clothes can be washed and ironed by every student at very nominal charges.

2.11 ‘SRIJAN’ Arts Club

A brainchild of the Hon’ble Vice Chancellor, ‘Srijan Arts Club’ was founded in the year 2022 with the aim to promote creativity among the students, faculty as well as staff of the

University and to provide a platform to showcase talent and channelize their energies in a positive manner. Currently, the Club has 112 members (open to all students and employees of the University) including 103 students and 9 faculty members.

2.12 Students' Welfare Activities at College of Horticulture and Forestry, Neri (Hamirpur)

The College of Horticulture and Forestry, Neri (Hamirpur) is dedicated in shaping the overall career prospects of the students to withstand the competitive world. Under the Students' Welfare Activities, the main objective is to foster overall personality development opportunities to the students. For this, the students are essentially required to enrol in more than one of the following clubs: -

1. Management and Finance Club
2. Culture Club (Dance and Drama)
3. Music, Poetry and Stand-up club
4. Environment Club
5. Social Welfare Club
6. Art and Crafts Club
7. Photography and Media Relations Club
8. Public Speaking (Debate and Declamation) Club
9. Language and Literacy Club (Literary Club)
10. Health, Yoga and Meditation Club
11. Electoral Literacy Club

2.12.1 Sports Activities at College of Horticulture and Forestry, Neri

Participation in various sports helps students to get acquainted with the live skills such as team work, leadership, accountability, patience and self-confidence besides enhancing their mental and physical capabilities. To groom the students in these traits, the College hosts following sports club: -

1. Badminton
2. Table Tennis
3. Kabaddi
4. Football
5. Basket Ball
6. Volley Ball
7. Cricket
8. Track Events
9. Field Events

To facilitate the above-mentioned activities, the College has a big playground including cricket ground, track and field ground, basket-ball court, foot-ball ground, table tennis hall and two badminton courts.



2.12.2 Hostel Facilities at College of Horticulture and Forestry, Neri

The College has one girls' hostel with a capacity of hosting 103 students. The rooms are three seated. The hostel is provided with basic facilities including bedding, water coolers, water purifiers, common TV room, Common mess and adequate dining area for all the hostellers.

Apart from this, the College has outsourced two more hostels, one for boys and other for girls. The Ashoka Boys Hostel has a capacity of 80 students, whereas the Payal Girls Hostel has a capacity of hosting 70 girl students. Both the hostels have mess facility, common TV room and Badminton Court etc. The College has appointed separate Wardens for these hostels for facilitation of students and to have a check over the hostel discipline. For girls, special buses are arranged by the hostel service provider for the to and fro movement of the girls to the College.

The College has special students' grievance redressal system for delivering high standard students' satisfaction.

2.13 Hostel facility in the College of Horticulture and Forestry, Thunag (Mandi)

As this is a new campus, as such, there is no hostel facility available in this College and the students have to stay in the private PG's available in the surroundings of the College Campus.

2.14 Social Media accounts of YSP UHF Nauni

The University has official accounts on different social media platforms like Facebook, Youtube, Twitter and LinkedIn. Many of these accounts carry important information related to the university and the Facebook pages and Youtube channel in particular also carry important technical videos on different topics which can prove to be helpful. The links are as follows

Youtube: <https://www.youtube.com/channel/UCIh2vYzR4tUdShW4y7Wx-jw>

Facebook page- Dr YS Parmar University of Horticulture and Forestry, Nauni

<https://www.facebook.com/UHFNauniOfficial>

Facebook page- UHF Kisan Sewa

<https://www.facebook.com/uhfkisansewa>

Twitter

<https://twitter.com/Nauniuniversity>

LinkedIn

<https://www.linkedin.com/in/uhf-nauni-634bb5152/>

CHAPTER-III

Programme of Studies & Intake Capacity of Undergraduate Programme

I. Undergraduate Degree Programme

The programmes of study and intake capacity of different programmes in four colleges of the university has been given below: -

3.1. Normal seats

Degree Programme	Normal Seats	ICAR Seats	Additional Seats (Over and above the intake capacity)			
			Wards of serving/ retired CAPFs Personnel	Single Girl Child	Participation in Sports and Co-curricular activities	Ward of displaced family
College of Horticulture, Nauni (Solan)						
B.Sc. (Hons.) Horticulture	40	10	2	1	1	1
B. Sc. Ag. (Hons.) Natural Farming	24	6	2	1	1	-
College of Forestry, Nauni (Solan)						
B.Sc. (Hons.) Forestry	40	10	2	1	1	1
College of Horticulture and Forestry, Neri (Hamirpur)						
B.Sc. (Hons.) Horticulture	24	6	1	1	1	-
B.Sc. (Hons.) Forestry	24	6	1	1	1	-
B. Tech. (Biotechnology)	20	-	1	1	1	-
College of Horticulture and Forestry, Thunag (Mandi)						
B.Sc. (Hons.) Horticulture	25	-	1	1	1	-
B.Sc. (Hons.) Forestry	25	-	1	1	1	-

* Two Normal seats (one male and one female) are reserved for Orphaned Children over and above the normal intake capacity.

** Lateral Entry: In 3rd semester, five normal seats in each discipline in each college are reserved for the candidates holding a UG Certificate / UG Diploma strictly in the concerned discipline in which the admission being sought.

3.2. Self-financing seats

Degree Programme	Self-financing seats	Candidates belonging to North-eastern region	Candidates belonging to J&K UT and Ladakh UT	Participation in Sports and Co-curricular activities
College of Horticulture, Nauni (Solan)				
B.Sc. (Hons.) Horticulture	50	4	3	1
B. Sc. Ag. (Hons.) Natural Farming	30	4	3	1
B. Tech. (Food Technology)	40	-	-	1
College of Forestry, Nauni (Solan)				
B.Sc. (Hons.) Forestry	70	4	3	1
College of Horticulture and Forestry, Neri (Hamirpur)				
B.Sc. (Hons.) Horticulture	60	-	-	1
B.Sc. (Hons.) Forestry	50	-	-	1
B. Tech. (Biotechnology)	25	-	-	1
College of Horticulture and Forestry, Thunag (Mandi)				
B.Sc. (Hons.) Horticulture	30	-	-	1
B.Sc. (Hons.) Forestry	30	-	-	1

3.3 Seats to be filled without entrance test (Over and above the intake capacity)

Programme	Number of Seats		
	NEC Nominees	Nominees of H.P. Forest Department	Nominees of H.P. Horticulture Department
I. College of Horticulture, Nauni (Solan)			
B.Sc. (Hons.) Horticulture	4	-	3
II. College of Forestry, Nauni (Solan)			
B.Sc. (Hons.) Forestry	4	3	-
III. College of Horticulture and Forestry, Neri (Hamirpur)			
B.Sc. (Hons.) Forestry	-	3	-

3.4 Break-up of the number of normal seats (category-wise and college-wise)

I. College of Horticulture, Nauni (Solan)				
B. Sc. (Hons) Horticulture				
Sr. No.	Category	Total	Rural	Non Rural
1	Unreserved	19	9	10
2	SC 15%	6	3	3
3	ST 7.5 %	3	2	1
4	PWD 5%	2	1	1
5	EWS 10%	4	2	2
6	OBC	2	1	1
7	Wards of serving/ex-serviceman	2	1	1
8	WFF	2	1	1
B.Sc. Ag. (Hons) Natural Farming				
1	Unreserved	11	6	5
2	SC 15%	4	2	2
3	ST 7.5 %	2	1	1
4	PWD 5%	1	1	



5	EWS 10%	2	1	1
6	OBC	2	1	1
7	Wards of serving/ex-serviceman	1	1	
8	WFF	1	1	
II. College of Forestry, Nauni (Solan)				
B. Sc. (Hons) Forestry				
1	Unreserved	19	9	10
2	SC 15%	6	3	3
3	ST 7.5 %	3	2	1
4	PWD 5%	2	1	1
5	EWS 10%	4	2	2
6	OBC	2	1	1
7	Wards of serving/ex-serviceman	2	1	1
8	WFF	2	1	1
III. College of Horticulture and Forestry, Neri (Hamirpur)				
B. Sc. (Hons) Horticulture				
Sr. No.	Category	Total	Rural	Non Rural
1	Unreserved	11	6	5
2	SC 15%	4	2	2
3	ST 7.5 %	2	1	1
4	PWD 5%	1	1	
5	EWS 10%	2	1	1
6	OBC	2	1	1
7	Wards of serving/ex-serviceman	1	1	
8	WFF	1	1	
B. Sc. (Hons) Forestry				
1	Unreserved	11	5	6
2	SC 15%	4	2	2
3	ST 7.5 %	2	1	1
4	PWD 5%	1	1	
5	EWS 10%	2	1	1
6	OBC	2	1	1
7	Wards of serving/ex-serviceman	1	1	
8	WFF	1	1	
B. Tech. (Biotechnology)				
1	Unreserved	8	4	4
2	SC 15%	3	2	1
3	ST 7.5 %	2	1	1
4	PWD 5%	1	1	
5	EWS 10%	2	1	1
6	OBC	2	1	1
7	Wards of serving/ex-serviceman	1	1	
8	WFF	1	1	
IV. College of Horticulture and Forestry, Thunag (Mandi)				
B. Sc. (Hons) Horticulture				
1	Unreserved	11	5	6



Sr. No.	Category	Total	Rural	Non Rural
2	SC 15%	4	2	2
3	ST 7.5 %	2	1	1
4	PWD 5%	1	1	
5	EWS 10%	3	2	1
6	OBC	2	1	1
7	Wards of serving/ex-serviceman	1	1	
8	WFF	1	1	
B. Sc. (Hons) Forestry				
1	Unreserved	11	6	5
2	SC 15%	4	2	2
3	ST 7.5 %	2	1	1
4	PWD 5%	1	1	
5	EWS 10%	3	1	2
6	OBC	2	1	1
7	Wards of serving/ex-serviceman	1	1	
8	WFF	1	1	

NOTE: Criteria for filling the seats reserved for the wards of displaced families

The reservation can be availed by the wards of displaced families whose land has been acquired for the establishment of the University. The reservation is restricted upto fourth generation of originally displaced owner i.e son/daughters/grandsons/granddaughters/great grandson/granddaughter. The definition of family for this purpose shall be husband/wife and their children who are permanent residents of Nauni, Dharon Ki Dhar, Dharja, Oachghat and Shamror Gram Panchayat and having their names registered in Gram Panchayat pariwar register. The reservation is restricted to one member of a family.

Documents required: -

- Latest Attested copy of Pariwar Register.
- Certificate issued by the Tehsildar regarding descendent of the displaced family.
- Undertaking for not getting reservation in the past by his/her family member.

3.5.1 Detail of reservation of seats

Admission shall be open to all eligible candidates subject to the reservation of seats as under:

- 20% of the total Normal seats will be filled by the Indian Council of Agricultural Research (ICAR) through a centralized online counselling process based on merit in the CUET-UG examination, separate from the University's admission process.
- The remaining Normal seats shall be reserved only for the bonafide Himachali candidates. The same shall be filled up in the following manner: -



50% of normal seats are reserved for the candidates belonging to **rural area*** and remaining 50% seats shall be open for other bonafide Himachali candidates.

Rural Area * A bonafide himachali candidate passing his/her at-least two out of three examinations from a school affiliated of Himachal Pradesh Board of School Education (HPBOSE) located outside the limits of Municipal Corporation/ Municipal Council/ Nagar Panchayat/ Cantonment Board/ Notified Area Committee within the territorial jurisdiction of Himachal Pradesh.” mentioned below

- i) 8th Class
 - ii) 10th Class
 - iii) 12th Class
- c) In case the candidates in rural category are not available, then the remaining vacant seat(s) under rural category shall be made open for respective non-rural bonafide Himachali candidates in the 3rd round of counselling in the same category
 - d) If the seats reserved for orphaned children/PwD candidates remain unfilled after the 1st counselling due to the non-availability of candidates securing 45 marks in UGET, then during the second round of counselling for the undergraduate programme, all candidates from the orphaned children/PwD category, irrespective of their marks in the entrance exam, shall be invited, and seats shall be allotted based on the inter-se merit of the respective category.
 - e) If the seats for the PwD/orphan children category still remain unfilled, then during the third round of counselling, they shall be filled by candidates next in the overall merit list.

3.5.6 Conditions

In case of non-availability of candidate in a specified category of reservation, the seat shall be transferred from one category to another during the third round of counselling as under:-

- a) At the end of third round of counselling, in case, the eligible candidate to the extent of reservation in any category are not available or remain unfilled, the vacant seats shall be filled up by making them available to other category as given below: -
 - (i) The vacant/ unfilled seats of SC category shall be filled up from amongst the eligible ST category candidates.
 - (ii) The vacant/ unfilled seats of ST category shall be filled up from amongst the eligible SC category candidates.
 - (iii) In case, the eligible candidates are not available in the above two reserved categories in the above manner, then the vacant seats shall be filled up from amongst the eligible unreserved candidates.

- iv) The vacant/ unfilled seats of person with disability shall be filled –up from the candidate falling next in the overall merit
- v) The vacant/unfiled seats of Economically Weaker Section (EWS)/WFF/Wards of serving/ex-serviceman/ OBC shall be filled –up from the candidates falling next in the overall merit.
- b) If any seat is lying vacant under HP Quota, it may be filled as self-financing seat during the last round of counselling.
- c) The student admitted for self-financing seat shall be treated at par with other students for the purpose of merit scholarships as per rules of the University.
- d) The candidates having permanent disability of not less than 40% (low vision, hearing impairment, locomotor disability or cerebral palsy) shall be considered for reserved seats of Person with Disability (PwD)
- e) The seats in various disciplines can be increased/ decreased keeping in view the availability of infrastructure and faculty.

3.5.7 Nomenclature of Degrees awarded

- i) B. Sc. (Hons) Horticulture
 ii) B. Sc. (Hons) Forestry
 iii) B. Sc. Ag. (Hons) Natural Farming
 iv) B. Tech. (Biotechnology)
 v) B. Tech. (Food Technology)

II. Master's Degree Programme

Programme of Studies and Intake Capacity of Master's Programme

The programmes of studies and intake capacity of different Master's programmes in three colleges of the University has been given below: -

3.6.1 College of Horticulture, Nauni (Solan)

Sr. No.	Discipline	Normal Seats						Self-financing Seats	ICAR Quota
		UR	SC	ST	EWS	PwD	Total		
1.	Agri-business Management	7	2	1	1	1	12	18	4
2.	Entomology	4	-	-	-	-	4	7	1
3.	Floriculture & Landscaping	4	-	-	1	-	5	5	1
4.	Food Processing Technology	3	-	-	-	-	3	2	-
5.	Fruit Science	4	1	-	-	-	5	5	1
6.	Molecular Biology & Biotechnology	4	1	1	1	-	7	3	2
7.	Plant Pathology	2	-	-	1	-	3	5	1

Sr. No.	Discipline	Normal Seats						Self-financing Seats	ICAR Quota
		UR	SC	ST	EWS	PwD	Total		
8.	Postharvest Management	3	-	-	-	-	3	2	1
9.	Seed Science & Technology	1	1	-	1	-	3	3	1
10.	Plantation, Spices, Medicinal & Aromatic Crops	2	-	-	-	-	2	2	-
11.	Vegetable Science	4	-	-	-	-	4	6	1
	Total	38	5	2	5	1	51	58	13

3.6.2 College of Forestry, Nauni (Solan)

Sr. No.	Discipline	Normal Seats						Self-financing Seats	ICAR Quota
		UR	SC	ST	EWS	PwD	Total		
1.	Agricultural Economics	3	1	-	-	-	4	2	-
2.	Agricultural Statistics	4	1	-	-	-	5	5	-
3.	Agricultural Extension Education	2	-	-	-	-	2	-	-
4.	Biochemistry	1	-	1	-	-	2	2	-
5.	Environmental Science	3	1	1	1	1	7	4	-
6.	(Agri.) Environmental Sciences	3	1	1	-	-	5	5	-
7.	Forest Biology & Tree Improvement	2	1	-	1	-	4	3	1
8.	Forest Products & Utilization	2	-	-	1	-	3	3	1
9.	Forest Resource Management	1	1	-	1	-	3	3	-
10.	Microbiology	3	-	-	-	-	3	3	-
11.	Plant Physiology	3	-	-	-	-	3	3	-
12.	Silviculture & Agroforestry	5	1	1	1	-	8	4	1
13.	Soil Science	1	1	-	1	-	3	4	-
	Total	33	8	4	6	1	52	41	3

3.6.3 College of Horticulture & Forestry, Neri (Hamirpur)

Sr. No	Discipline	Normal Seats						Self-financing Seats	ICAR Quota
		UR	SC	ST	EWS	PwD	Total		
1.	Agricultural Economics	2	-	-	-	-	2	2	1
2.	Agricultural Extension Education	1	-	-	-	-	1	1	-
3.	Biochemistry	1	-	-	-	-	1	1	-
4.	Entomology	2	-	-	-	-	2	2	1
5.	Floriculture & Landscaping	1	-	-	-	-	1	2	-
6.	Forest Biology & Tree Improvement	1	-	-	-	-	1	1	-
7.	Forest Products & Utilization	1	-	-	-	-	1	2	-
8.	Fruit Science	4	1	-	-	-	5	5	1



9.	Molecular Biology & Biotechnology	4	1	-	-	-	5	5	1
10.	Microbiology	2	-	-	-	-	2	2	-
11.	Plant Pathology	1	1	-	-	-	2	3	1
12.	Postharvest Management	1	1	-	1	-	3	3	1
13.	Silviculture & Agroforestry	1	1	-	1	-	3	3	1
14.	Soil Science	1	1	-	1	-	3	3	1
15.	Vegetable Science	3	-	-	1	-	4	4	1
	Total	26	6	-	4	-	36	39	9

3.6.4 Over and above the intake capacity

Seats for participation in Sports and Co-curricular activities			
Sr. No.	Name of the College	No. of Seats (Normal)	No. of Seats (Self finance)
1.	College of Horticulture, Nauni, Solan	1	1
2.	College of Forestry, Nauni, Solan	1	1
3.	College of Horticulture & Forestry, Neri Hamirpur	1	1

3.6.5 Reservation of Seats

Admission to M.Sc./ M. Tech./ MBA (Agri-business) Programmes shall be open to all eligible candidates subject to the reservation of seats as under: -

1. a) 30% of the total seats under the Normal category shall be filled by the Indian Council of Agricultural Research (ICAR) through a centralized online counselling process based on merit in the AIEEA-PG examination, conducted through a process distinct from the University's own admission entrance test.
- b) The remaining Normal seats under HP Quota shall be reserved for the domicile residents of Himachal Pradesh. The gist of reservation for these seats is as under:-
- c) From the Academic Session 2023-24 onwards 40-Point Reservation Roster is applied in each discipline in respect of allotment of seats/ discipline amongst UR, SC, ST, PwD and EWS categories in the following manner: -

Category	Reservation	Points
SC	15%	1,8,14,22,28 and 36
ST	7.5%	4,17 and 31
PwD	5%	20 and 40
EWS	10%	9,19,29 and 39

The remaining seats shall be kept for UR category candidates.

2. Self-financing seats shall be open for all at National level and shall be filled up by the University as Self-financing Seats.



3. As per 40-point reservation roster, there is no specific point earmarked to OBC, hence OBC candidates shall be considered against the point of UR category according to General combined merit.

3.6.6 Conditions

In case of non-availability of candidate in a specified category of reservation, the seat shall be transferred from one category to another during second round of counselling as under:-

- i) At the end of Second round of counselling, in case, the eligible candidate to the extent of reservation in any category are not available or remain unfilled, the vacant seats shall be filled up by making them available to other category as given below: -
 - a. The vacant/ unfilled seats of SC category shall be filled up from amongst the eligible ST category candidates.
 - b. The vacant/ unfilled seats of ST category shall be filled up from amongst the eligible SC category candidates.
 - c. In case, the eligible candidates are not available in the above two reserved categories in the above manner, the vacant seats shall then be filled up from amongst the eligible unreserved candidates.
- ii) The vacant/ unfilled seats of person with disability shall be filled –up from the candidate falling next in the overall merit.
- iii) The vacant/ unfilled seats of Economically Weaker Section shall be filled –up from up from the candidates falling next in the overall merit.
 - a) If any seat is lying vacant under HP Quota, it may be filled as self-financing seat during the last round of counselling.
 - b) The student admitted for self-financing seat shall be treated at par with other students for the purpose of merit scholarships as per rules of the University.
 - c) The candidates having permanent disability of not less than 40% (low vision, hearing impairment, locomotor disability or cerebral palsy) shall be considered for reserved seats of physically challenged category.
 - d) The seats in various disciplines can be increased/ decreased keeping in view the availability of infrastructure and faculty.

3.6.7 Nomenclature of Degree Awarded at Master's Level

M. Sc. (Hort.)

1. Fruit Science
2. Floriculture and Landscaping
3. Vegetable Science



4. Plantation, Spices, Medicinal & Aromatic Crops
5. Postharvest Management

M. Sc. (Forestry)

1. Forest Biology and Tree Improvement
2. Forest Products and Utilization
3. Forest Resource Management
4. Silviculture and Agroforestry

M. Sc. (Agri.)

1. Agricultural Economics
2. Agricultural Statistics
3. Agricultural Extension Education
4. Biochemistry
5. Entomology
6. Environmental Sciences*
7. Molecular Biology and Biotechnology
8. Microbiology
9. Plant Pathology
10. Plant Physiology
11. Seed Science and Technology
12. Soil Science

M. Sc. Environmental Science*

M. Tech. Food Processing Technology

MBA (Agri-Business Management)

***Note:**

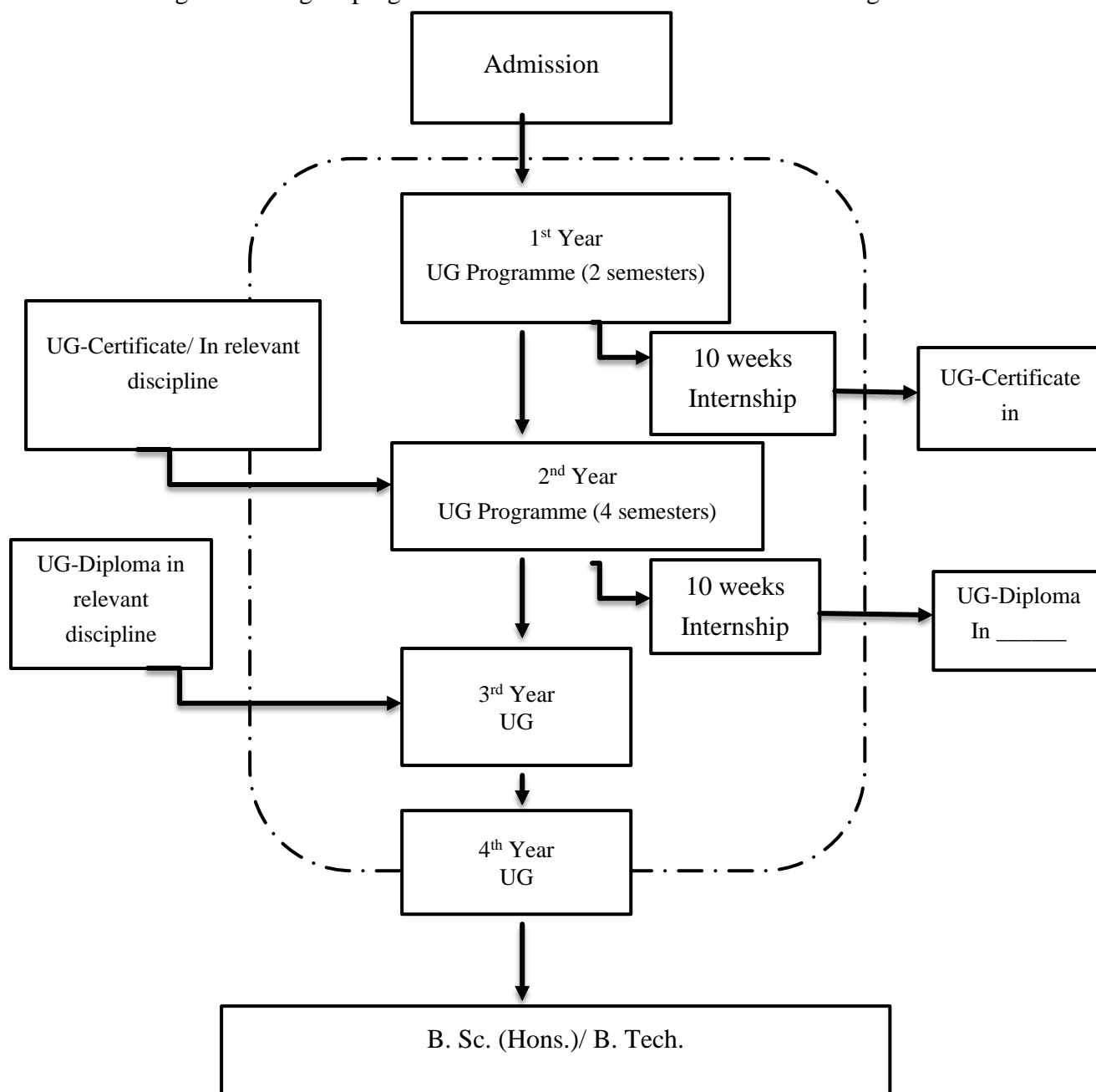
The Department of Environmental Science offers degrees in two distinct disciplines: one in M.Sc. Environmental Science and the other in M.Sc. (Agri) Environmental Sciences.



CHAPTER-IV

Multiple Entry And Exit For The Undergraduate Degree Programme

The University in view of the recommendation of the sixth Deans Committee under the National Education Policy 2020 has started the provision for the multiple entry and exit during the Undergraduate degree programme which has been illustrated in the diagram below:



4.1. First Year – Entry & Exit Options

4.1.1. Entry: Through entrance test or merit of 10+2

4.1.2. Exit Option (End of 2nd Semester / 1st Year)

a) **Qualification Awarded:** *UG Certificate* in the relevant discipline.

b) **Requirements:**

1. Successful completion of all **Gradial** and **Non-Gradial** courses offered during the first two semesters (1st academic year).
2. Completion of a **10-week internship** equivalent to 10 credits.

Progression Option

Students who wish to continue their studies can **advance to the 3rd semester (2nd academic year)** without completing the internship at this stage.

4.2. Second Year – Entry & Exit Options

4.2.1 Entry Option (Direct Admission to 3rd Semester based on the Inter Se Merit)

a) **Eligibility:**

- Students holding a *UG Certificate/10+3 Diploma* in the **concerned programme** may enter directly into the **3rd semester (2nd academic year)** on the basis of inter-se merit.

4.2.2 Exit Option (End of 4th Semester / 2nd Year)

a) **Qualification Awarded:** *UG Diploma* in the relevant discipline.

b) **Requirements:**

1. Successful completion of all **gradial** and **non-gradial** courses offered during the **fourth semesters** (or from the point of entry, as applicable).
2. Completion of a **10-week internship** equivalent to 10 credits.

Progression Option

Students wishing to continue may **advance to the 5th semester (3rd academic year)** without completing the internship at this stage.

4.3. Third Year – Entry Option & Progression

4.3.1. Entry Option (Direct Admission to 5th Semester based on the Inter Se Merit))

• **Eligibility:**

- Students holding a *UG Diploma* in the **concerned discipline** may enter directly into the **5th semester (3rd year of the Degree Programme)** on the basis of inter-se merit.

Progression Option

Students wishing to complete the full 4-year undergraduate programme may **advance to Year 4.**

4.4. Fourth Year – Final Completion & Degree Award

4.4.1. Completion of the Programme

Students who **successfully complete all courses** offered during **8 semesters** of the degree programme will earn a **Bachelor's Degree** in the concerned discipline.

1. Bachelor of Science (Hons)

2. Bachelor of Technology



CHAPTER-V

Dual Degree Programme With Western Sydney University Australia

For Undergraduate Programme

Dr. YS Parmar University of Horticulture and Forestry, Nauni-Solan (HP) has entered into a MoU with Western Sydney University – Australia for offering an opportunity of dual degree for the undergraduate students in the following degree programmes:

- B.Sc. (Hons) Horticulture
- B.Sc. (Hons) Forestry
- B. Tech. (Biotechnology)
- B. Tech. (Food Technology)

The students opting for this dual degree arrangement will be attached to Western Sydney University (WSU) in their campus at Sydney (Australia) for complete duration of final year of their degree programme (7th and 8th semester). Western Sydney University, formerly the University of Western Sydney, is an Australian multi-campus public research university in the Greater Western region of Sydney, New South Wales, Australia.

The dual degrees offered will be as per the following articulations: -

Degree	Degree Articulation	
	First Degree from Dr YSPUHF- Nauni (Solan)	Second Degree from WSU- Sydney (Australia)
Horticulture	B.Sc. (Hons) Horticulture	B.Sc. (Agrifood)
Forestry	B.Sc. (Hons) Forestry	Bachelor's in Science (B.Sc.) with a major in Sustainable Environment Futures degree programme in WSU
Biotechnology	B.Tech. Biotechnology	B.Sc. (Biology)
Food Technology	B.Tech. Food Technology	B.Sc. (Innovative Foods)

The Indian Council of Agriculture Research (ICAR) which is the apex Governing Body of the Agriculture Education at National level, has signed a MoU with the Western Sydney University equating the Student READY programme (Rural Entrepreneurship Awareness Development Yojana) offered in final year of degree programme in State Agriculture Universities (SAUs) with one-year academic attachment in Western Sydney University. The graduating students under this arrangement will have two undergraduate degrees: one from Dr YS Parmar University of Horticulture and Forestry, Nauni-Solan and another from Western Sydney University- Sydney, Australia. The students obtaining degree from Dr YS Parmar University of Horticulture and Forestry, Nauni-Solan under this arrangement will have entitlement for admission into MSc programmes of all SAUs in India including those offered by the Dr YS Parmar University of Horticulture and Forestry, Nauni-Solan. The degree offered by the Western Sydney University; Australia will have equivalence in all world leading universities/ organizations/ regions where the WSU is recognized for further studies.

The interested students will have to meet the expenses of dual degree programmes at their own; however, work permit as per the rules of the Western Sydney University will be provided to the students for partially generating their living costs. Dr YS Parmar University of Horticulture and Forestry, Nauni-Solan has formulated a Committee for International Study programmes which will provide all the details and assistance to the willing students. A representative from Western Sydney University will provide all the logistic supports for furnishing application forms and completing other visa formalities.

This dual degree (3+1) will make students eligible for direct admission into the MSc programmes (3+1+1) of Western Sydney University with waiving off of first year enabling them to complete their MSc degree in Western Sydney University in one year. The students will also be entitled for PhD degree in different programmes of the Western Sydney University.

For Master's Programme

Dual Degree Programme, MRes (Master in Research)

Dr YS Parmar University of Horticulture and Forestry, Nauni-Solan (HP) is offering the option of dual degree for the post graduate students as per the following details of the MRes (Master in Research) programme.

The students under this programme will get two degrees; one Master of Science (MSc and Equivalent) in Dr YSPUHF and second Master of Research (M. Res.) at WSU- Western Sydney University. The opting student shall have to complete course work at Dr YSPUHF and the research work will be carried out in Western Sydney University, Sydney (Australia) after approval of Confirmation of Enrolment (COE). There will be two advisors, one from Dr YSPUHF, Solan (India) and second from WSU- Sydney (Australia). The maximum duration at WSU will be for one year. The student will have to submit two MSc theses one to the Dr YSPUHF – Nauni (HP)- India and second to the WSU- Sydney (Australia). There is a provision for tuition fee waiver during attachment with Western Sydney University as under:-

- A grade of 85 % or higher will lead to full tuition fee waiver for 12 months at the WSU
- A grade of 80% to 84 % will have 75% tuition fee waiver at the WSU
- 75% to 79% will have 50 % tuition fee waiver at the WSU

The students obtaining degree from Dr YS Parmar University of Horticulture and Forestry, Nauni-Solan under this arrangement will have entitlement for admission into PhD programmes at all SAUs in India including those offered by the Dr YS Parmar University of Horticulture and Forestry, Nauni-Solan. The degree offered by the Western Sydney University; Australia will have equivalence in all world leading universities/ organizations/ regions where the WSU is recognized including PhD admission in WSU- Sydney (Australia).

The interested students will have to pay allowances for their study and stay of Western Sydney University during their dual degree programmes; however, work permit as per the rules of the Western Sydney University will be provided to the students for partially funding their living costs. Dr YS Parmar University of Horticulture and Forestry, Nauni-Solan has formulated a Committee for International Study programmes which will provide all the assistance to the willing students. A representative from Western Sydney University will provide all the logistic supports for submission of application forms and other visa formalities

CHAPTER-VI

Eligibility And Criteria For Admission To Normal & Self Financing Seats

6.1 Minimum Qualification/Eligibility

I. Undergraduate Degree Programme

For Normal Seats

Candidates who have passed 10+2 or equivalent examination with English, Physics, Chemistry, Biology/ Mathematics from a recognized Board with a minimum of 50% aggregate marks (45% marks in case of SC/ ST/ Person with Disability category candidates/ Orphaned Children / in-service nominees of Himachal Pradesh Government) in the above subjects.

OR

Candidate should have passed Examination of a University/ Board/ College/ School in a foreign country recognized by the Academic Council as equivalent to 10+2 with science subjects mentioned above provided the candidate has obtained at least 60% aggregate marks or 'B' grade/equivalent.

For Self -financing seats

Candidates who have passed 10+2 or equivalent examination in English, along with any three subjects from the following: Physics, Chemistry, Biology/Mathematics, Agri. Physics, Agri. Chemistry, Agri. Biology, and Agriculture from a recognized Board with a minimum of 50% aggregate marks (45% for SC/ST/Persons with Disability/Orphaned Children/in-service nominees of Himachal Pradesh Government) in the above subjects

OR

Candidate should have passed Examination of a University/ Board/ College/ School in a foreign country recognized by the Academic Council as equivalent to 10+2 with science subjects mentioned above provided the candidate has obtained at least 60% aggregate marks or 'B' grade/equivalent.

II. Master's Programme

- a) The minimum educational qualification of candidates to the different disciplines of M.Sc./ M. Tech./ MBA (Agribusiness) programmes are given below: -
- b) Graduates with an OGPA of 6.00/10.00 under course credit system or with a minimum of 60% marks in the respective degree from a recognized University (relaxable by 5% in the case of SC/ ST/ Person with Disability (PwD) candidates and in-service nominees) in the following order of preference: -

Sr No.	Discipline	Eligibility Criteria
1.	M.Sc. (Hort.) Fruit Science	B.Sc. (Hons.) Horticulture/ B.Sc. Horticulture 4-year programme.
2.	M.Sc. (Hort.) Floriculture and Landscaping/ Vegetable Science/ Postharvest Management/ M.Sc. (Agri.) Seed Science and Technology/ M.Sc. (Hort.)	B.Sc. (Hons.) Horticulture/ B.Sc. Horticulture 4-year programme. If seat remains vacant, the candidates with B.Sc. (Hons.) Agriculture/ B. Sc. Agriculture 4-year programme shall be considered.

	Plantation, Spices, Medicinal & Aromatic Crops	
3.	M.Sc. Plant Protection (Agri.) Entomology/ Plant Pathology	B.Sc. (Hons.) Horticulture/ B. Sc. Horticulture/ B.Sc. (Hons.) Forestry/ B.Sc. Forestry 4-year programme. If seats remain vacant, the candidates with B. Sc. (Hons.) Biotechnology/ B. Tech. Biotechnology, B.Sc. (Hons.) Agriculture/ B.Sc. Agriculture 4-year programme shall be considered.
4.	M. Sc. (Agri) Molecular Biology & Biotechnology	B.Sc. (Hons.) Biotechnology/ B. Tech. Biotechnology 4-year programme. If seats remain vacant, the candidates with B.Sc. (Hons.) Horticulture/ B.Sc. Horticulture/ B.Sc. (Hons.) Forestry/ B. Sc. Forestry 4-year programme shall be considered. If seats still remain vacant, the candidates with B.Sc. (Hons) Agriculture/ B.Sc. Agriculture 4-year programme shall be considered
5.	M. Tech. Food Processing Technology	B. Tech. Food Technology/ B. Tech. Food Science and Technology/ B.Sc. Food Technology/ B.Sc. Food Science & Technology 4-year programme.
6.	M. Sc. (Forestry) Silviculture and Agroforestry/ Forest Biology and Tree Improvement/ Forest Products and Utilization/ Forest Resource Management	B.Sc. (Hons.) Forestry/ B.Sc. Forestry 4-year programme.
7.	M.Sc. (Agri.) Soil Science/ Agricultural Economics/ Agricultural Statistics/ Agricultural Extension Education	B.Sc. (Hons.) Forestry/ B.Sc. Forestry/ B.Sc. (Hons.) Horticulture/ B.Sc. Horticulture 4-year programme. However, if seats remain vacant the candidates with B. Sc. (Hons.) Agriculture/ B.Sc. Agriculture 4-year programme shall be considered.
8.	M.Sc. Environmental Science	B.Sc. (Hons.) Forestry/ B.Sc. Forestry/ B.Sc. (Hons.) Horticulture/ B.Sc. Horticulture/ B.Sc. (Hons.) Biotechnology/ B.Tech. Biotechnology/ B.Sc. Agriculture 4-year programme/ B.Sc. Environmental Science/ B.Sc. Medical*/ B.Sc. Non-Medical**.
9	M. Sc. (Agri.) Environmental Sciences	Four-year Bachelor degree in Horticulture/ Forestry/ Agriculture/ Biotechnology/ Biochemistry
10.	M.Sc. (Agri.) Plant Physiology	B.Sc. (Hons.) Forestry/ B.Sc. Forestry/ B.Sc. (Hons.) Horticulture/ B.Sc. Horticulture/ B.Sc. (Hons.) Biotechnology/

		B.Tech. Biotechnology/ B.Sc. Agriculture 4-year programme/ B.Sc. Medical*.
11	M.Sc. (Agri.) Biochemistry	B.Sc. Biochemistry. If some seats remain vacant, the candidates with B.Sc. (Hons.) Forestry/ B.Sc. Forestry/ B.Sc. (Hons.) Horticulture/ B.Sc. Horticulture/ B.Sc. (Hons.) Biotechnology/ B.Tech. Biotechnology 4-year programme shall be considered. However, the seats still remain vacant, the candidates with B.Sc. Agriculture 4-year programme/ B.Sc. Medical* shall be considered.
12.	M.Sc. (Agri.) Microbiology	B.Sc. Microbiology. If some seats remain vacant, the candidates with B.Sc. (Hons.) Forestry/ B.Sc. Forestry/ B.Sc. (Hons.) Horticulture/ B.Sc. Horticulture/ B.Sc. (Hons.) Biotechnology/ B.Tech. Biotechnology 4-year programme shall be considered. However, the seats still remain vacant, the candidates with B.Sc. Agriculture 4-year programme/ B.Sc. Medical shall be considered.
13	MBA (Agri-Business Management)	B.Sc. (Hons.) Forestry/ B.Sc. Forestry/ B.Sc. (Hons.) Horticulture/ B.Sc. Horticulture/ B.Sc. (Hons.) Biotechnology/ B.Tech. Biotechnology/ B.Sc. Agriculture 4-year programme.

* B. Sc. Medical – Botany, Zoology, Chemistry or Biotechnology, Zoology, Chemistry
** B. Sc. Non- Medical – Physics, Chemistry, Mathematics

Note: Candidates with a three-year Bachelor's degree, after admission, will be required to undertake and successfully complete a prescribed package of deficiency courses as per the University's guidelines.

6.2 Submission of Online Application Form (UGET-2025/PGET-2025)

Normal Seats and Self-financing Seats: It is mandatory for the candidates to submit online application form of the University alongwith application fee (non-refundable) within due date by accessing university website www.yspuniversity.ac.in.

Note: Application form submitted as hard copy shall not be considered.



6.3 Criteria for admission

I. Undergraduate

6.3.1 Normal Seat: The marks obtained in UGET-2025 will be considered for admission to Undergraduate Programmes of this University. The syllabus for the entrance test is given in **annexure-I** of this Prospectus. **The candidates having secured less than 45 marks (except for candidates of PwD categories and orphaned children) in the entrance test (UGET-2025) shall not be considered for appearing in the Counselling Process.** In case two or more candidates obtain the same marks, the candidate with highest percentage at qualifying examination i.e. 10+2 level shall be considered for admission. In case tie still occurs, the elder in age will be considered for admission.

6.3.2 Self-financing Seat: The marks obtained at 10+2 level in any four of the following subjects shall be considered for determining merit, English, along with any three subjects from the following: Physics, Chemistry, Biology/Mathematics, Agri. Physics, Agri. Chemistry, Agri. Biology, and Agriculture. In case two or more candidates obtain the same marks, the elder in age will be considered for admission.

II. Master's Degree Programme

6.3.3 Normal seats/ Self-financing seats

The marks obtained in Postgraduate Entrance Test-2025 (PGET-2025) will be considered for admission in Normal seats as well as Self-financing seats which shall be conducted by the Dr. Yashwant Singh Parmar University of Horticulture & Forestry, Nauni (Solan). The syllabus for the entrance test is given in **Annexure-II** of this Prospectus **The candidates having secured 45 marks and above in the entrance test (PGET-2025) shall be considered for appearing in the Counselling Process/ Admission**

6.3.4 Sport and Co-curricular activities seat:

For Normal Seat- Eligibility criteria will be the same as for other candidates of normal seats of the concerned degree programme.

For Self Financing seat- Eligibility criteria will be the same as for other candidates of Self Financing seats concerned degree programme

The merit of candidates shall be determined on the basis of aggregate score in different sports and co-curricular activities during last four academic years (upto 31st July, 2025) as per weightage of different activities given in the Table 6.3.5.

It is mandatory for candidates seeking admission under the *Sports and Co-Curricular Activities* quota to submit their relevant certificates during the first round of counselling for both Undergraduate and Master's Programme to be considered for admission under the Sports and Co-Curricular activities seat.



These seats shall be filled during the last round of counselling—*i.e.*, the 3rd round for Undergraduate programmes and the 2nd round for Master's programmes—strictly on the basis of merit drawn on the weightage of different activities given in the Table 6.3.5.

Further, it is compulsory for such candidates to be physically present during the respective final round of counselling. Failure to appear in person shall result in forfeiture of their claim to the seat, which will then be allotted to the next eligible candidate in the merit list who is physically present at the time of counselling for *Sports and Co-Curricular Activities*.

6.3.5

1. Weightage of various activities (applicable only for the candidates being consider Sports

Arjuna Award Winner : 34 Points

Sr No	Sports level	First	Second	Third	Participation
<i>College/ University level for admission to MSc/ MBA / PhD/ Equivalent</i>					
1.	International	32	30	28	24
2.	National including Federation Cups and National Games /ICAR Sports and Games meet	23	21	19	14
3.	Inter-University / Khelo University Games	20	18	16	12
4.	Zonal games	18	16	14	12
5.	State level	16	14	12	08
6.	Inter college (University level)	12	10	08	06
<i>School level for admission to undergraduate programmes</i>					
7.	National level	16	14	12	10
8.	State level/zonal level	12	10	08	06
9.	Inter school / District level/Cluster level	10	08	06	04

2. Co-curricular Activities

Sr No	Activity level	First	Second	Third	Participation
<i>College/ University level for admission to MSc/ MBA / PhD/ Equivalent</i>					
1.	International	32	30	28	24
2.	National Youth Festival including Cultural Event/ Agri-fest (ICAR)	23	21	19	14
3.	Inter-University Youth Festival / Cultural Festival	20	18	16	12
4.	Zonal youth festival/cultural event	18	16	14	12
5.	State level	16	14	12	08
6.	Inter college (University level)	12	10	08	06
<i>School level for admission to undergraduate programmes</i>					
7.	National level	16	14	12	10
8.	State level/zonal level	12	10	08	06



9.	Inter school / District level/Cluster level	12	10	08	06
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3. NCC/ Bharat Scouts and Guides/ NSS

	NCC	Marks
1.	“C” Certificate and participation in National Republic Day Parade	24
2.	“C” Certificate	21
3.	Participation in National Republic Day Parade	21
	Bharat Scouts and Guides	
4.	Participation in Jamboree at National Level organized by Government of India.	21
5.	Participation in Jamboree at State level	18
	NSS	
6.	Participation in National Integration Camp or National Mega Camp of minimum 7 days duration organized by the Govt of India outside the state	21
7.	Participation in National Integration Camp or National Mega Camp of minimum 7 days duration organized by the Govt of India within the state	18

The sports/ games/ cultural/ extra-curricular activities should have been organized by any one of the following agencies/ bodies are recognized by

- ICAR (Indian Council of Agriculture and Research)
- International Sports Federation - affiliated with International Olympic Association
- All sports Federations of India-affiliated with Indian Olympic Association
- All States Sports Associations- affiliated with State Olympic Association
- All District Sports Associations- affiliated with District Olympic Associations
- State Sports Council/ State Youth Welfare and Sports Department
- All India Inter-University Sports Board (AIU)
- Directorate of Sports of the Concerned University/ States
- School game Federation of India/CBSE/Navodaya
- University Level Sports
- Sports Authority of India
- Inter University Sports Board
- Ministry of Youth Welfare/ Sports
- Himachal Elementary School Sports Association
- Himachal Secondary School Sports Association
- Panchayat Yuva Krida Aur Khel Abhiyan (PYKKA)

6.3.6 Provisions:

- The last four academic sessions (upto 31st July, 2025) will be considered for the award of marks in case of admission to BSc/MSc/M. Tech/ MBA/ Equivalent degree programmes



- ii) The best one of the certificates in terms of scores amongst the three categories (Sports/ Extra curricular/NCC,NSS or Bharat Scouts/ Guides) in one Academic Calendar will be considered.
- iii) Two additional points shall be awarded for each additional (another game/ event) participation/position at international, national, interuniversity and zonal level up to a maximum total of 6 points.
- iv) One additional point shall be awarded for each additional participation/position at the state and the University level up to a maximum total of 3 points.
- v) In case of a tie of scores for the candidates, the preference shall be determined on the basis of marks obtained in the entrance test, if the tie still exists candidate having secured more marks in the qualifying examination will be considered, however, if the tie still persists preference shall be given to the candidate elder in age.
- vi) In case, any doubt regarding the certificates produced by the candidates, is raised, it will be decided by the Committee constituted by the Chairman of the admission committee.
- vii) A committee constituted by Chairman of admission committee can ask for a trial in case of authenticity issue of certificates.

6.3.7 List of recognized games/ sports and cultural and co-curricular activities

Names of Games/ Sports	
Aquatics, Aerobics, American Football, Archery, Athletics (Track and Field Events), Badminton, Ball Badminton, Basketball, Baseball, Boxing, Bridge, Canoeing and Kayaking, Carrom, Chess, Circle Style Kabaddi, Cricket, Cycling Road, Cycling Track, Drop Roball, Equestrian sports & M Sports, Fencing, Floor Ball, Football, Gatka, Golf, Grappling Sports, Gymnastics and Malkhamb, Handball, Hockey, Indoor Hockey's, Judo, Kabaddi, Karate, Kick Boxing, Mini Golf, Kho-Kho, Korfball, Netball, Pencak Silat, Polo, Power Lifting, wan ki Do, Rifle Shooting, Rollar Hockey, Roller Skating, Rollar Sports, Roll Ball, Rope Skipping, Skiing, Rowing, Rugby, Six-A-Side Cricket, Sepak Takraw, Shooting, Soft Baseball, Soft Tennis, Softball, Squash Rackets, Swimming, Target Ball, Table Tennis, Taekwondo, Tenni-Koit, Tennis, Tug of War, Volleyball, Weightlifting, Wrestling Free Style and Greco Roman Style Wrestling, Winter Games, Weight Lifting, Woodball, Wushu, Yatching, and Yoga.	

Names of cultural and co-curricular activities	
Vocal Music	Indian Classical, Indian Light Vocal, Indian Patriotic Song, Indian Group Song, Folk Song
Instrumental Music	Harmonium light, Flute playing, Tabla playing, Sitar playing, Traditional musical instruments playing
Dance	Solo Folk Dance, Group Folk Dance, Kathak
Literary	Quiz, Elocution, Debate, Extempore
Theatre	One Act Play, Skit, Mime, Mono Acting, Play
Fine Arts	On the spot Painting, Collage, Poster Making, Clay Modeling, Cartooning, Rangoli



6.4 Merit List of candidates

Undergraduate Programme	Master's programme
Normal Seats The merit list of candidates shall be drawn on the basis of marks obtained in UGET-2025. No candidate having secured less than 45 marks (except Orphan children/PwD candidates) in the entrance test (UGET-2025) shall be included in the merit list for Counselling Process.	Normal seats/ Self-financing seats The merit list of candidates shall be drawn on the basis of marks obtained in PGET-2025. No candidate having secured less than 45 marks in the entrance test (PGET-2025) shall be included in the merit list for Counselling Process.
Self-financing Seats The merit list of candidates shall be drawn on the basis of marks obtained in the qualifying examination i.e. 10+2, in English, along with any three subjects from the following: Physics, Chemistry, Biology/Mathematics, Agri. Physics, Agri. Chemistry, Agri. Biology, and Agriculture.	

6.5 Counselling

Counselling shall be conducted as per the procedure mentioned in the Chapter -IX of this prospectus. However, it will be mandatory for all applicants to fill and submit the counselling proforma along with all relevant documents to the Counselling Committee.

An amount of ₹1000/- (₹ One Thousand only) will be charged as counselling fee from candidates who wish to participate in the counselling sessions. This fee should be paid in the university account through QR code which will be provided in the notice for counselling.

The candidates will have to provide proof for the submission of counselling fee at the time of the counselling. This fee is mandatory when the candidate appears for counselling session for the first time only.

6.6 Requirements for admission

Provisional allocation of the available seats will be made during offline counselling in order of merit-cum-preference order of the degree programme and college. If the selected candidate does not present himself/ herself before the Dean of the concerned college within the stipulated date and time as mentioned in provisional selection letter and laid down in table (Important Dates), he/ she will not have any claim for the allotted seat and the same will be offered to next candidate in the merit during subsequent counselling. The following mentioned certificates and photographs are required at the time of admission: -

1) Certificates

Provisional allocation of the available seats will be made during offline counselling in order of merit. The candidates so selected for admission shall report to the Dean of the concerned College on the scheduled date and time for registration. Copies of the following self-attested certificates are required at the time of admission as well as registration alongwith original certificates. (The Specimen for below mentioned certificates have been given in the Annexure-IV)

Undergraduate Programme	Master's programme
<ul style="list-style-type: none">i) 10th certificate (for date of birth)ii) 10+2 detail of marks certificateiii) Character certificateiv) HP domicile certificatev) Medical fitness certificatevi) Migration certificatevii) Declaration of non-use of illicit Drugs (as per annexure-V)viii) The following certificates (wherever applicable)ix) Rural Area (As per annexure-IV, Form-XII)x) SC/ ST/EWS etc.xi) OBC (Non-creamy Layer) certificate.xii) Wards of serving/ ex-defence personnel.xiii) Wards of serving/ retired CAPFs personnel.xiv) Single girl child.xv) Proof of wards of displaced family (As per format annexed as Annexure-IV, Form -VI)xvi) Sports/NCC/NSS/Scouts/ co-curricular activities certificatesxvii) Physically Challenged certificatexviii) Proof of Orphaned Childrenxix) Two passport size photographsxx) Any other certificates	<ul style="list-style-type: none">i) 10th certificate (for date of birth)ii) 10+2 detail of marks certificateiii) Graduate degree certificate/ PDC/ and Transcript of Academic Record/ Detailed marks sheetiv) Character certificatev) HP domicile certificate (If applicable)vi) SC/ ST/ EWS (If applicable)vii) Physically Challenged certificate (If applicable)viii) Sports/ co-curricular activities (If applicable) (one certificate per year which is most beneficial)ix) Medical Fitness Certificatex) Migration Certificatexi) Two Passport size photographsxii) Declaration of non-use of illicit Drugs (as per annexure-V)xiii) Any other certificates

2) Details of certificates:

i) Certificate of participation in sports/cultural activities

Candidate shall have to submit the certificates of games/ sports/ NCC/ Scouting/ NSS/ Cultural and Co-curricular activities.



ii) Medical Fitness Certificate

Admission shall be subject to the applicant being declared medically fit by the Medical Officer of the University/ Medical Officer of the State Government Hospital. This certificate shall have to be submitted at the time of registration.

iii) Character Certificate

This certificate from Head of the School/Institute (Principal or equivalent) last attended is required at the time of counselling failing which he/ she will not be considered for admission. However, Chairman of the Admission/ Seat allotment Committee may allow a candidate to be considered in counselling subject to submission of an undertaking.

iv) Migration Certificate

Selected candidate/ admitted student is required to submit original migration certificate within one year of admission, failing which his/ her admission shall be cancelled.

v) Physically Challenged Certificate

Candidate shall have to submit this certificate issued from a duly constituted and authorized medical board. Physically Challenged candidates having permanent disability of not less than 40% (Low vision, hearing impairment, locomotor disability or cerebral palsy) found suitable by the admission committee, provided the candidate is otherwise fit for admission. The candidates should be capable of performing the field operations, activities pertaining to Horticulture/ Forestry and allied disciplines.

vi) EWS:

Economically Weaker Sections (EWS) means the persons who fulfilled the criteria as prescribed by Government of Himachal Pradesh, Department of Personnel (AP-III) vide letter No. PER(AP)-C-B(12)-1/2019 dated 11.06.2019.

As per the aforesaid letter, the persons who are not covered under the scheme of reservation for SCs, STs, and OBCs and whose family has gross annual income below Rs. 4.00 lakh (Rupees four lakh only) are to be identified as EWSs for the benefit of reservation. Income shall also include income from all sources, i.e., salary, agriculture, business, profession, etc., for the financial year prior to the year of application.

Also, persons whose family owns or possesses any of the following assets shall be excluded from being identified as EWS, irrespective of the family income:

- (i) More than **1 hectare** of agricultural land in rural areas and **500 m²** land in urban areas;
- (ii) Residential flat/house of more than **2500 square feet** in rural/urban areas;
- (iii) Family of **income tax payee**;
- (iv) Family of **Regular/Contract employees** of the Central Government, State Government, Board, Corporation, autonomous bodies, and Public Sector Undertakings. Etc

The property held by a “Family” in different locations or different places/cities would be clubbed while applying the land or property holding test to determine EWS status. **(Annexure-IV, Form-IV)**

The term “Family” for this purpose will include the person who seeks benefit of reservation, his/her parents and siblings below the age of 18 years as also his/her spouse and children below the age of 18 years.

The candidates belonging to unreserved B.P.L. category are not required to submit Income and Asset Certificate. They shall be treated as eligible for EWS reservation on the basis of valid B.P.L certificate issued by Competent Authority and countersigned by the Block Development Officer and supplemented by the non-SC/ST/OBC certificate issued by the Competent Authority **(Annexure- IV, Form-V)**.

vii) Single Girl Child: Single Girl Child” means parent having a single girl child without any sibling subject to fulfilment of eligibility criteria as prescribed for Normal Seats. Under this category, the candidate has to produce a certificate at the time of counselling-cum-admission as per **(Annexure-IV Form-VIII)** duly issued by the Sub-Divisional Magistrate/Executive Magistrate/Tehsildar/Block Development Officer of the area concerned to which the parents of the candidate belong.

viii) Ward of Freedom Fighter is a person as declared so by the **H.P. Government**. **Wards** means and includes **Children/Grandchildren** (only from the **paternal side**) of the Freedom Fighter. However, the benefits can also be extended to the **sons/daughters (from the maternal side)** of a Freedom Fighter, subject to the condition that the Freedom Fighter **is/was not having a son**. Under this category, the candidates are required to submit a certificate on the prescribed format as per **Annexure-IV, Form-IX**

ix) Orphan means a child who is without biological or adoptive parents or legal guardian

Documents required for the category

Death Certificates of both Father & Mother (if available)

OR

A certificate issued by Tehsildar / S D M as per enclosed format **(Annexure-IV, Form-VII)**

x) Ex-Serviceman means retired personnel of the three wings of the Armed Forces, i.e., **Army, Air Force, and Navy**. Their widows/wards shall apply under this, for which they are required to produce a certificate as per the prescribed format. **(Annexure-IV, Form-XI)**

xi) Defence Personnel means serving personnel of the three wings of the Armed Forces, i.e., **Army, Air Force, and Navy**. Their wards/wives shall apply under this category, for which they are required to produce a certificate as per the prescribed format. **(Annexure-IV, Form-XI)**

xii) Bonafide Himachali Certificate: The **Bonafide Himachali Certificate** issued by the competent authority on or after **January 2013** shall only be acceptable.

6.7. Refusal of Admission

Candidate indulged in act of indiscipline or guilty of having organized unlawful activities, he/ she will be refused admission by the admission committee. Such rusticated/ debarred candidates shall not be admitted during the period of disqualification.

The Vice-Chancellor reserves the right to refuse admission to any candidate, whose admission in his opinion, is not in the interest of the University.

6.8. Advisement

Newly admitted student shall present himself/ herself to the Dean of the College on the day notified by the Registrar for advisement. Such student shall be assigned to staff advisor by Dean of the College. The advisor helps the student(s) in planning the programme of studies and also guides the student(s) in determining the credit load which he/ she can carry in each semester. Each advisor maintains a close contact with his/her advisee(s) and keep abreast of their progress.

6.9. Dress Code

Undergraduate Programme
Navy blue coat, sky blue shirt, navy blue sweater, blue tie, dark grey trousers, grey socks and black formal leather shoes. All students shall be in prescribed dress from Monday to Saturday (except Wednesday & Saturday), guest lectures, industrial visits and interviews. No student will be allowed to attend the class without wearing prescribed dress. A fine of ₹ 100/- per day shall be realized for violation of dress code by the Dean of the College

6.10 Selection of Candidates

Provisional allocation of the available seats will be made during offline counselling in order of merit. If the provisionally selected candidate does not present himself/ herself before the Dean of the concerned college for registration/ admission within the stipulated date and time as mentioned in provisional selection letter, he/ she will not have any claim for the allotted seat and the same will be offered to next candidate in the merit during subsequent counselling.

General Conditions/ Instructions

- i) In case two or more candidates obtain the same score in the University Entrance Examination, the candidate having more percentage of marks in 10+2 in case of Undergraduate /OGPA in Graduation Programme in the Master's Programme will be considered for admission. If tie still occur, the candidate elder in age will be considered for admission.

- ii) The admission of in-service nominees of Himachal Pradesh Government/ Himachal Pradesh Government Undertakings/ ICAR will normally be limited to one seat in each discipline in Master's Programme over and above the approved intake capacity. The in-service candidates shall be exempted from entrance examination provided that the candidate fulfils the other criteria. In case, where more than one candidate for a particular seat is recommended, inter-se merit of the qualifying degree shall be considered.
- iii) The candidate would be deemed to have passed the qualifying examination only after his/ her result has been formally declared by the University before the date of counselling and duly supported by PDC/ Transcript of Academic Record and the Result Notification issued by the Competent Authority. However, in case of the candidate passing his/ her qualifying examination from this university, the PDC/ Transcript of Academic Record Result Notification issued by the Registrar or a Certificate issued by the Dean of the College to the effect of having passed all the requirements for the award of degree in respect of the candidate will be accepted.
- iv) The OGPA will be converted into percentage of marks on per cent basis or as per the conversion formula of the concerned University. The candidates have to submit the conversion formula of their university.
- v) If it is found, at any time, that a candidate obtained admission to a programme by misrepresentation of facts or that candidate has availed some benefit which was not due to him/ her or if a candidate has been admitted/ selected due to inadvertent error, the Registrar may at his discretion, cancel his/ her admission.
- vi) The candidate admitted for self-financing seat shall be treated at par with other students for the purpose of scholarships as per rules of the University.
- vii) The seats can be increased/ decreased keeping in view the availability of infrastructure and faculty.

6.11 Registration

Registration of selected candidates shall be completed on the date notified by the Registrar on the University Website. Broadly the process of registration is given below: -

- i) Medical check-up of fresh students.
- ii) Meeting with Advisor, enrolment of students in different courses by concerned teacher.
- iii) Depositing of the receipt of online payment of fee and other dues in office of the Dean of the College.
- iv) Depositing registration cards duly filled in by the student and signed by the Advisor and teacher, in the Dean's office.
- v) Meeting with the Dean Students Welfare/ Hostel Warden for allotment of room.

Procedure Of Undergraduate Test (UGET) – 2025 And Postgraduate Test (PGET)– 2025

SN.	Undergraduate Programme	Master's Programme
1.	<p>The entrance test will be conducted on 15th June, 2025 (Sunday) at 11:00 AM to 1:00 PM at the following centres: -</p> <ol style="list-style-type: none"> 1. Solan 2. Hamirpur 3. Sunder Nagar District Mandi 4. Palampur, District Kangra 5. Rampur District Shimla 	<p>The Entrance Test will be conducted at the University Main Campus, Nauni (Solan) on 5th July, 2025 (Saturday) from 11:00 AM to 1:00 PM.</p>
2.	<p>There will be a composite question paper of 100 marks of two hours duration. The question paper will have three parts of 30 marks each covering Physics, Chemistry and Biology/ Mathematics and 10 questions of general awareness related to Agriculture. The outline of syllabus is given in Annexure-I.</p>	<p>There will be a composite question paper of 100 marks of two hours duration. The question paper will have three parts. The outline of syllabus is given in Annexure-II.</p>
3.	<p>The answer key will be uploaded on the University Website on 15.06.2025 for inviting objections, if any, latest upto 18.06.2025 on the e-mail ID: registrar-acad@yspuniversity.ac.in. The final key will be uploaded on the website on 21.06.2025.</p>	<p>The answer key will be uploaded on the University website on 05th July, 2025 inviting objections from candidates if any, upto 07th July, 2025. The revised/final key, if required, will be uploaded on the website on 09th July, 2025.</p>

4. Admit card with roll number will be auto-generated on a fixed date which will be displayed on the University website. In any case, the candidate does not find admit card, he/she is advised to contact the office of the Registrar through e-mail on ID: admission@yspuniversity.ac.in or on phone 01792-252009 between 10.00 AM to 5.00 PM in official working days.



5. Candidates are expected to take their seats 15 minutes before the commencement of the examination.
6. Candidate who does not possess the 'Admit Card' will not be allowed to enter the examination hall.
7. The duration of the examination will be **2 hours**. Candidate who comes after 30 minutes of the commencement of the examination shall not be permitted to sit in the examination.
8. No candidate shall be allowed to leave the examination hall till the completion of the test.
9. Candidates shall not be allowed to carry any material inside the examination hall. Calculator, cell phone, electronic watches with facilities of calculator, slide rule, log tables, etc. are not allowed inside the examination hall.
10. The candidate shall forfeit the right of selection in case of unfair means, impersonation, disturbance, misbehaviour, non-return of answer book, etc. The decision of the Centre Superintendent shall be final.
11. Eatables (Tea, coffee, cold drinks, snacks, etc.) will not be allowed inside the examination hall. Candidate using intoxicants shall not be allowed to enter the examination hall.
12. The dispute relating to entrance test will be subject to Solan jurisdiction.
13. The marks obtained in the entrance test will be displayed/ uploaded on the University Website www.yspuniversity.ac.in on scheduled date.
14. The candidates are advised to remain in touch with the University Website for further instructions regarding eligibility to attend the counselling and other related instructions.
15. No separate letter will be issued for attending the counselling.
16. There will be no re-checking or re-evaluation of OMR answer sheet.



Guidelines For Attempting the Question Paper


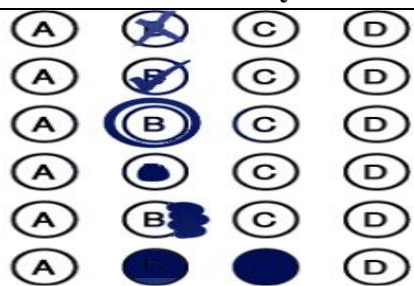
1. The candidate will be provided with a question paper and an OMR answer sheet. The candidate will fill the roll number on the flap attached with the OMR answer sheet and mention choice for the relevant section(s). The candidate will not write his/her name or roll number at any other place on the OMR answer sheet.

Undergraduate	Master's																														
<p>The question paper for entrance test will be of objective type carrying 100 marks (30 questions, each carrying one mark in Physics, Chemistry and Mathematics/ Biology Subjects and 10 questions, each carrying one mark of general awareness related to Agriculture).</p> <p>Option Code:</p> <p>1. Biology</p> <p>2. Maths</p>	<p>The question paper for written test will be of objective type carrying 100 marks as under: -</p> <p>Part-A: General Knowledge - 20 questions</p> <p>Part-B: Rural Awareness - 20 questions</p> <p>Part-C: Specialization (Optional) - 60 questions</p> <p>Part-A and Part-B are compulsory for all, Part-C shall have the options. The candidate will choose the subject of specialization (optional) strictly in accordance with the nomenclature of qualifying degree.</p> <p>Part-C shall be conducted for the following specializations and the syllabus for each subject and subject code is given as per annexure-I:</p> <p>Subject Code</p> <table><tr><td>Horticulture</td><td>-</td><td>01</td></tr><tr><td>Forestry</td><td>-</td><td>02</td></tr><tr><td>Agriculture</td><td>-</td><td>03</td></tr><tr><td>Food Technology</td><td>-</td><td>04</td></tr><tr><td>Biotechnology</td><td>-</td><td>05</td></tr><tr><td>Bio-Sciences (Medical)</td><td>-</td><td>06</td></tr><tr><td>Non-Medical</td><td>-</td><td>07</td></tr><tr><td>Microbiology</td><td>-</td><td>08</td></tr><tr><td>Biochemistry</td><td>-</td><td>09</td></tr><tr><td>Environmental Science</td><td>-</td><td>10</td></tr></table> <p>The candidate will opt for the optional subject for attempting Part-C strictly as per nomenclature of qualifying degree.</p>	Horticulture	-	01	Forestry	-	02	Agriculture	-	03	Food Technology	-	04	Biotechnology	-	05	Bio-Sciences (Medical)	-	06	Non-Medical	-	07	Microbiology	-	08	Biochemistry	-	09	Environmental Science	-	10
Horticulture	-	01																													
Forestry	-	02																													
Agriculture	-	03																													
Food Technology	-	04																													
Biotechnology	-	05																													
Bio-Sciences (Medical)	-	06																													
Non-Medical	-	07																													
Microbiology	-	08																													
Biochemistry	-	09																													
Environmental Science	-	10																													

2. Each question has four responses marked as A, B, C and D and out of these only one is the most appropriate.



3. The answer sheet i.e. OMR sheet will have 100 boxes numbered as per serial number of questions in the question paper. Candidate is to encircle the relevant box according to serial number of questions with most appropriate response i.e., A, B, C or D with ball point pen.
4. Each question carries one mark and for each correct response the candidate will get one mark. More than one answer indicated against a question will be deemed as incorrect response. Erasing, cutting, use of white fluid or overwriting is not allowed.

Correct Way	Incorrect way
	

5. The candidate should not do any rough work on the OMR answer sheet. All rough work is to be done in question paper itself or on the plain paper attached with it.
6. At the end of the examination, the candidate should return the OMR answer sheet to the invigilator and take out the carbon attached.



Specimen of OMR Sheet for the Undergraduate Programme

Dr. Y.S. Parmar University of Horticulture & Forestry, Nauni - Solan (HP)
OMR ANSWER SHEET

Name of Candidate :

Roll Number (in words) :

Roll Number <div style="border: 1px solid black; padding: 2px; text-align: center;"> <div style="display: flex; justify-content: space-around; width: 100px;"> </div> <div style="display: flex; justify-content: space-around; width: 100px;"> 0123456789 </div> </div>	Question Booklet Number <div style="border: 1px solid black; padding: 2px; text-align: center;"> <div style="display: flex; justify-content: space-around; width: 100px;"> </div> <div style="display: flex; justify-content: space-around; width: 100px;"> 0123456789 </div> </div>	INSTRUCTIONS FOR FILLING THE SHEET <ol style="list-style-type: none"> 1. This sheet should not be folded or crushed. 2. Use Blue/Black Ball Point Pen Only. 3. Circle should be darkened completely and properly. 4. Cutting and erasing on this sheet is not allowed. 5. Do not make any stray marks on the sheet. 6. Do not use marker or white fluid to hide the mark. 7. Mark only one choice for each question. <div style="display: flex; justify-content: space-between; font-size: small;"> <div> WRONG METHODS </div> <div> CORRECT METHOD </div> </div>	Question Booklet Series <div style="border: 1px solid black; padding: 5px; text-align: center;"> <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> </div>	Optional Subject <div style="border: 1px solid black; padding: 5px; text-align: center;"> <input type="checkbox"/> Biology <input type="checkbox"/> <input type="checkbox"/> Math <input type="checkbox"/> </div>	 <small>OMR Answer Sheet No.</small>
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Date of Exam <div style="display: flex; justify-content: space-around; font-size: small;"> DDMMYY </div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>	Name of Examination Centre <div style="border: 1px solid black; height: 30px;"></div>	Signature of Candidate <div style="border: 1px solid black; height: 30px;"></div>	Signature of Invigilator <div style="border: 1px solid black; height: 30px;"></div>
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ANSWERS

1	(A) (B) (C) (D)	26	(A) (B) (C) (D)	51	(A) (B) (C) (D)	76	(A) (B) (C) (D)
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25	(A) (B) (C) (D)	50	(A) (B) (C) (D)	75	(A) (B) (C) (D)	100	(A) (B) (C) (D)

Specimen of OMR Sheet for the Master's Programme

DO NOT FOLD

Dr. Y.S. Parmar University of Horticulture & Forestry, Nauni - Solan (HP) OMR ANSWER SHEET

Name of Candidate :

Roll Number (in words) :

Roll Number	Question Booklet Number	INSTRUCTIONS FOR FILLING THE SHEET	Optional Subject Code	
<div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between; border-bottom: 1px solid black; margin-bottom: 5px;"> </div> <div style="display: flex; justify-content: space-between;"> 0 0 0 0 0 1 1 1 1 1 2 2 2 2 2 3 3 3 3 3 4 4 4 4 4 5 5 5 5 5 6 6 6 6 6 7 7 7 7 7 8 8 8 8 8 9 9 9 9 9 </div> </div>	<div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between; border-bottom: 1px solid black; margin-bottom: 5px;"> </div> <div style="display: flex; justify-content: space-between;"> 0 0 0 0 0 1 1 1 1 1 2 2 2 2 2 3 3 3 3 3 4 4 4 4 4 5 5 5 5 5 6 6 6 6 6 7 7 7 7 7 8 8 8 8 8 9 9 9 9 9 </div> </div>	<p>1. This sheet should not be folded or crushed.</p> <p>2. Use Blue/Black Ball Point Pen Only.</p> <p>3. Circle should be darkened completely and properly.</p> <p>4. Cutting and erasing on this sheet is not allowed.</p> <p>5. Do not make any stray marks on the sheet.</p> <p>6. Do not use marker or white fluid to hide the mark.</p> <p>7. Mark only one choice for each question.</p> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> <div> <p>WRONG METHODS</p> <p><input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/></p> </div> <div> <p>CORRECT METHOD</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/></p> </div> </div>	<div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between; border-bottom: 1px solid black; margin-bottom: 5px;"> </div> <div style="display: flex; justify-content: space-between;"> 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 </div> </div>	<p style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.7em;">OMR Answer Sheet No.</p>

Date of Exam	Signature of Candidate	Signature of Invigilator
<div style="display: flex; justify-content: space-around; font-size: 0.8em;"> DD MM YY </div> <div style="display: flex; justify-content: space-around; height: 20px; border-bottom: 1px solid black;"></div>		

ANSWERS

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23	(A) (B) (C) (D)	48	(A) (B) (C) (D)	73	(A) (B) (C) (D)	98	(A) (B) (C) (D)
24	(A) (B) (C) (D)	49	(A) (B) (C) (D)	74	(A) (B) (C) (D)	99	(A) (B) (C) (D)
25	(A) (B) (C) (D)	50	(A) (B) (C) (D)	75	(A) (B) (C) (D)	100	(A) (B) (C) (D)

CHAPTER-IX

Procedure For Counselling (Normal Seats/ Self- Financing Seats)

Candidates, who fulfil the required educational qualification and eligibility criteria mentioned in Chapter-VI along with all relevant documents will be eligible for appearing in the counselling process.

9.1 Counselling

Counselling(s) (in offline mode) will be carried out in the Dr. L.S. Negi Auditorium located in the main campus of the University at Nauni (Solan). Dates of different rounds of counselling have been mentioned in the IMPORTANT DATES. The cut off marks for attending the different round of counselling will be displayed on the university website. The candidates are advised to remain in touch regularly with the University website for updates. No separate letter for any round of counselling will be sent to any candidate. No letter, FAX or telephonic enquiry about the admission will be entertained.

9.1.1 Certificates required for counselling

- a. The eligible candidates are required to submit the counselling proforma along with set of self-attested copies of following documents **at the time of counselling**: -

Undergraduate Programme	Master's Programme
<ul style="list-style-type: none">i. 10th certificate (for date of birth)ii. 10 + 2 certificate.iii. Character certificate from the school/Institute last attended (Compulsory for all)iv. HP bonafide/ domicile certificate (compulsory for all HP candidates)v. Proof for the payment of counselling feevi. The following certificates (wherever applicable)<ul style="list-style-type: none">a. SC/ ST/ EWS/ OBC (Non-creamy Layer) etc.b. Sports/NCC/NSS/Scouts/ co-curricular activities certificates (if applicable)c. Physically Challenged certificated. Certificate, copy of Pariwar register and undertaking for the ward of displaced family (Annexure-IV Form-VI)	<ul style="list-style-type: none">i. 10th certificate (for date of birth)ii. 10 + 2 certificate.iii. Graduation degree Certificateiv. Transcript of Academic Record/ marks sheetv. Character certificate from the Institute last attended (Compulsory for all)vi. HP bonafide/ domicile certificate (compulsory for all HP candidates)vii. Proof for the payment of counselling feeviii. The following certificates (wherever applicable)<ul style="list-style-type: none">a. SC/ ST/ EWS etc.b. Sports/NCC/NSS/Scouts/ co-curricular activities certificates (if applicable)c. Physically Challenged certificated. Any other certificates

e. Proof of orphaned child (Annexure-IV, Form-VII) f. Any other certificates	
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- b. There shall be **three rounds of counselling for Undergraduate** and **two round of counselling for Master's Programme**.
- c. Provisional allocation of the available seats will be made during counselling in order of merit-cum-preference order of the degree programme and college. If the provisionally selected candidate does not present himself/ herself physically before the Dean of the concerned college for registration within the stipulated date and time as mentioned in provisional selection letter and laid down in the notification, he/she will not have any claim for the allotted seat and the same will be offered to next candidate on the merit during subsequent counselling.

9.1.2 Certificates required for admission

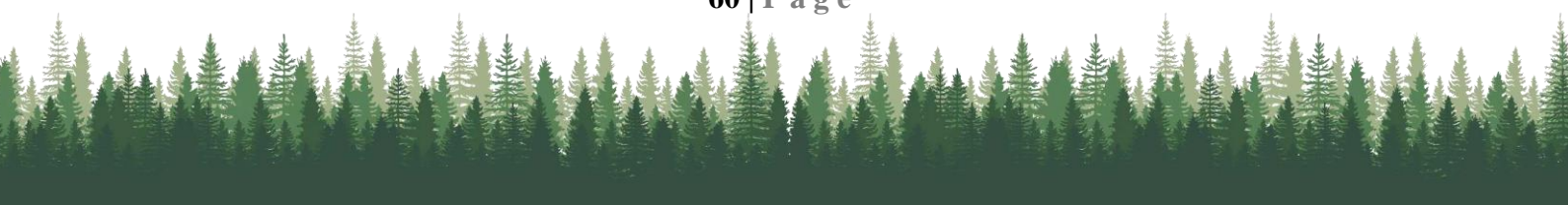
The provisionally selected candidates appearing for registration should bring a set of their self-attested copies of all the requisite certificates, copy of bank receipt of admission fee and two passport size photographs.

9.1.3 Other Instructions

- a) It is mandatory for the candidate to report for registration on the specified date and time.
- b) It is the responsibility of the candidates to remain in touch with the university website from time to time for information related to admission process.
- c) It is the sole responsibility of the candidates to furnish full and correct information on the application form. Any selection/ admission made on the basis of wrong or concealed information supplied by the candidates would be cancelled even after the admission process at the cost and risk of the candidates.

9.2 Right of Petition

No representation/ petition against the selection will be entertained after the lapse of one month from the date of last counselling.



Chapter-X

Fee Structure

Fee Structure For Undergraduate Programme

This fee includes fee for 1st Semester of the degree programme, annual charges and one-time charges for the degree programme. The fee structure is approved by the Competent Authority of the University and it shall generally remain unchanged during the entire duration of the degree programme. The candidates selected for admission shall have to deposit the requisite fee directly in the University Bank Account in online mode. All the candidates shall have to produce the actual receipt in hard copy from the bank at the time of registration in the concerned College.

I. Undergraduate Programme

The candidates selected for admission to different Undergraduate Programmes shall have to pay the requisite fee as detailed below: -

- i) Normal Seat - Rs. 42,200.00
Rs. 30,200.00
(for HP-BPL girl candidates)
- ii) No fee for orphan children/PwD category candidates
- iii) Self-financing Seat - Rs. 82,200.00

9.1 The detailed fee structure is as under: -

i) Normal Seats

Sr. No.	Particulars	Fee (Rs.)	Remarks
1.	Admission fee	7000	At the time of admission
2.	Registration fee	5000	Annual
3.	Tuition fee (exempted in case of girls belonging to HP-BPL families)	12000	Semester-wise
4.	Sports, games & youth welfare activity	1500	Semester-wise
5.	Examination fee	3000	Semester-wise
6.	Infra-structure development/ maintenance fund	2500	Semester-wise
7.	Placement guidance fee	200	Semester-wise
8.	Educational tour	2500	Semester-wise
9.	Identity card fee	150	At the time of admission
10.	Library card fee	250	Annual
11.	Library service charges	500	Semester-wise
12.	College security (Refundable)	2000	At the time of admission
13.	Library security (Refundable)	1000	At the time of admission
14.	Amalgamated fund	1500	Semester-wise

15.	Medical charges	500	Semester-wise
16.	NCC/ NSS/Scout and Guide fee	500	Semester-wise
17.	Students' Association fee	250	Semester-wise
18.	Green charges	150	Semester-wise
19	RAWE Training	1200	Semester-wise
20	Magazine Fee	500	Annual
	Total	42200	

ii) Self-financing Seats

Sr. No.	Particulars	Fee (Rs.)	Remarks
1.	Admission fee	7000	At the time of admission
2.	Registration fee	5000	Annual
3.	Tuition fee	52000	Semester-wise
4.	Sports, games & youth welfare activity	1500	Semester-wise
5.	Examination fee	3000	Semester-wise
6.	Infra-structure development/ maintenance fund	2500	Semester-wise
7.	Placement guidance fee	200	Semester-wise
8.	Educational tour	2500	Semester-wise
9.	Identity card fee	150	At the time of admission
10.	Library card fee	250	Annual
11.	Library service charges	500	Semester-wise
12.	College security (Refundable)	2000	At the time of admission
13.	Library security (Refundable)	1000	At the time of admission
14.	Amalgamated fund	1500	Semester-wise
15.	Medical charges	500	Semester-wise
16.	NCC/ NSS /Scout and guide fee	500	Semester-wise
17.	Students' Association fee	250	Semester-wise
18.	Green charges	150	Semester-wise
19	RAWE Training	1200	Semester-wise
20	Magazine Fee	500	Annual
	Total	82200	

NOTE:

- The NCC security of Rs. 200/- (refundable) will be charged from the students after enrolment as NCC cadet.
- The bus fare will be charged from the students willing to avail the bus facility daily on the prevalent rates after the permission is accorded by the concerned Dean. This shall be applicable in case of students admitted/ enrolled in the main campus of the University at Nauni i.e. students of College of Horticulture, Nauni or College of Forestry, Nauni.
- In case, two siblings of same parents are admitted to same or different Academic Programmes of the University, fee concession @ 50% of tuition fee will be given to younger one.



Fee Structure For Master's Programme

II. For Master's Programme

For M. Sc/M. Tech.

Normal Seat - Rs. 46,250.00

Rs. 26,250.00 for HP-BPL girl candidates
No fee for PwD category candidates

Self-financing Seat - Rs. 86,250.00

MBA (Agribusiness)

Normal Seat - Rs. 42,750.00

- Rs. 28,750.00 for HP-BPL girl candidates
No fee for PwD category candidates

Self-financing Seat - Rs. 82,750.00

9.1 The detailed fee structure is as under: -

iii) M.Sc./ M. Tech. (Normal Seats)

Sr No.	Particulars	Fee (Rs)	Remarks
1.	Admission fee	7000	At the time of admission
2.	Registration fee	5000	Annual
3.	Tuition fee (exempted in case of girls belonging to HP-BPL families)	20000	Semester-wise
4.	Sports, games and youth welfare activity	1500	Semester-wise
5.	Examination fee	3000	Semester-wise
6.	Infra-structure development/ maintenance fund	2500	Semester-wise
7.	Placement guidance fee	200	Semester-wise
8.	Identity card fee	150	At the time of admission
9.	Library card fee	250	Annual
10.	Library service charges	750	Semester-wise
11.	College security (Refundable)	2000	At the time of admission
12.	Library security (Refundable)	1000	At the time of admission
13.	Amalgamated fund	1500	Semester-wise
14.	Medical charges	500	Semester-wise
15.	Students' Association	250	Semester-wise
16.	Green Charges	150	Semester-wise
17.	Magazine Fee	500	Annual
	Total	46,250	



iv) M.Sc./ M. Tech. (Self-financing Seats)

Sr. No.	Particulars	Fee (Rs.)	Remarks
1.	Admission fee	7000	At the time of admission
2.	Registration fee	5000	Annual
3.	Tuition fee	60000	Semester-wise
4.	Sports, games & youth welfare activity	1500	Semester-wise
5.	Examination fee	3000	Semester-wise
6.	Infra-structure development/ maintenance fund	2500	Semester-wise
7.	Placement guidance fee	200	Semester-wise
8	Identity card fee	150	At the time of admission
9	Library card fee	250	Annual
10	Library service charges	750	Semester-wise
11	College security (Refundable)	2000	At the time of admission
12	Library security (Refundable)	1000	At the time of admission
13	Amalgamated fund	1500	Semester-wise
14	Medical charges	500	Semester-wise
15	Students' Association	250	Semester-wise
16	Green Charges	150	Semester-wise
17.	Magazine Fee	500	Annual
	Total	86,250	

v) MBA (Agribusiness) (Normal seats)

Sr. No.	Particulars	Fee (Rs)	Remarks
1.	Admission fee	7000	At the time of admission
2.	Registration fee	5000	Annual
3.	Tuition fee (exempted in case of girls belonging to HP-BPL families)	14000	Semester-wise
4.	Sports, games and youth welfare activity	1500	Semester-wise
5.	Examination fee	3000	Semester-wise
6.	Guest faculty, study material, etc. fee	1500	Annual
7.	Summer training & placement counselling fee	1000	Annual
8.	Infra-Structure development/ maintenance fund	2500	Semester-wise
9.	Placement guidance fee	200	Semester-wise
10.	Identity card fee	150	At the time of admission
11.	Library card fee	250	Annual



12.	Library service charges	750	Semester-wise
13.	College security (Refundable)	2000	At the time of admission
14.	Library security (Refundable)	1000	At the time of admission
15.	Amalgamated fund	1500	Semester-wise
16.	Medical charges	500	Semester-wise
17.	Students' Association	250	Semester-wise
18.	Green Charges	150	Semester-wise
19.	Magazine Fee	500	Annual
	Total	42,750	

vi) MBA (Agribusiness) (Self –Financing seat)

Sr. No.	Particulars	Fee (Rs)	Remarks
1.	Admission fee	7000	At the time of admission
2.	Registration fee	5000	Annual
3.	Tuition fee (exempted in case of girls belonging to HP-BPL families)	54000	Semester-wise
4.	Sports, games and youth welfare activity	1500	Semester-wise
5.	Examination fee	3000	Semester-wise
6.	Guest faculty, study material, etc. fee	1500	Annual
7.	Summer training & placement counselling fee	1000	Annual
8.	Infra-Structure development/ maintenance fund	2500	Semester-wise
9.	Placement guidance fee	200	Semester-wise
10.	Identity card fee	150	At the time of admission
11.	Library card fee	250	Annual
12.	Library service charges	750	Semester-wise
13.	College security (Refundable)	2000	At the time of admission
14.	Library security (Refundable)	1000	At the time of admission
15.	Amalgamated fund	1500	Semester-wise
16.	Medical charges	500	Semester-wise
17.	Students' Association	250	Semester-wise
18.	Green Charges	150	
19.	Magazine Fee	500	Annual
	Total	82,750	

NOTE:

- a) The bus fare will be charged from the students willing to avail the bus facility daily on the prevalent rates after the permission is accorded by the concerned Dean. This shall be applicable in case of students admitted/ enrolled in the main campus of the



University at Nauni i.e. students of College of Horticulture, Nauni or College of Forestry, Nauni.

- b) In case, two siblings of same parents are admitted to same or different Academic Programmes of the University, fee concession @ 50% of tuition fee will be given to younger one.

9.2 Other usual charges for specific purposes

Sr. No.	Particulars	Fee (Rs.)	Remarks
1.	Continuation fee	1000	Semester-wise from 2 nd semester
2.	Change of course fee	500	At the time of change of course
3.	Late admission/ registration	1000	Per day
4.	Re-registration fee	5000	At the time of re-admission
5.	Odd Semester course fee	500	Per course
6	Provisional Degree Certificate	500	In 8 th Semester for UG / in 4 th semester for Master's programme
7	Transcript of Academic Record	500	In 8 th Semester// in 4 th semester for Master's programme
8	Inter-University Migration Certificate	500	In 8 th Semester// in 4 th semester for Master's programme
9	Alumni fee	500	In 8 th semester of UG and in 4 th semester for Master's programme
10	Thesis submission fee (M.Sc./ M. Tech.)	3500	At the time of submission/ re-submission of thesis
11	Project submission fee MBA (Agribusiness)	2500	At the time of submission/ re-submission of thesis

9.3 Refund/adjustment of fee

Sr. No.	Situation	Refund/ Adjustment
1.	On request received by the concerned Dean and copy to the Registrar on or before last counselling	Entire fee less by Rs.2000/- as processing charges
2.	On request received by the concerned Dean and copy to the Registrar after last counselling	Only security deposits will be refunded.

Note

- The application for refund must be submitted strictly as per the format provided in Annexure III and must be emailed to the concerned Dean of the college only.
- Applications submitted through any other mode shall not be considered.
- Furthermore, if the application is not in the prescribed format, the University shall not be held liable for any delay in processing the refund



Chapter-XI

Allotment Of Hostels

11.1 Allotment of Hostel and usual charges in the Main Campus

There is limited hostel facility available in the main Campus at Nauni. The allotment of hostel is made strictly on the basis of merit in the entrance test and preference shall be given to the students admitted for normal seats. The left out vacancies if any, will be allotted to the students admitted for self-financing seats. For availing the hostel facility, the enrolled students have to fill a specific application form available in the office of the Dean Students' Welfare. After the allotment of room in the hostel, the student shall have to deposit a sum of Rs. 14,160.00/- (Rs. Fourteen thousand one hundred sixty) only (Rs. 13,460/- in case of SC/ST category students) in the designated bank account through internet banking or any other mode of online banking facility. The hard copy of the receipt is required to be deposited in the Office of the Dean Students' Welfare. The detail of the hostel charges is as under: -

One-time Charges

1.	Mess security (Refundable)	5000	At the time of admission
2.	Hostel security (Refundable)	2500	At the time of admission
	Total	7500	

Semester-wise Charges

1.	Maintenance charges	1000	Semester-wise
2.	Common room charges	200	Semester-wise
3.	Utensil & crockery charges	500	Semester-wise
4.	Garbage collection charges	200	Semester-wise
5.	Room rent (Exempted in case of SC/ST students)	700	Semester-wise
6.	Electricity charges	1200	Semester-wise
7.	Water charges	110	Semester-wise
8.	Laundry charges	2750	Semester-wise
	Total	6660	Semester-wise

Note:

There will be no charges for PH category students except mess and laundry charges.

11.2 Allotment of Hostel and usual charges in the College of Horticulture and Forestry, Neri (Hamirpur)

Hostel Allotment Procedure

1. All SC girl students of B.Sc. are allotted hostel accommodation on priority basis.
2. 50 % of the remaining seats are allotted to M.Sc./ Ph.D. girls on the basis of their merit.
3. Remaining seats, if any, are allotted by the Dean on the basis of means and merit of the students.

For availing the hostel facility, the enrolled students have to fill a specific application form available in the office of the Dean. After the allotment of room in the hostel, the student shall have to deposit the requisite fee in the designated bank account through internet banking or any other mode of online banking facility. The hard copy of the receipt is required to be deposited in the Office of the Dean. The detail of the hostel charges is as under: -

One-time Charges

1.	Mess security (Adjusted in the last mess bill)	5000	At the time of admission
2.	Hostel security (Refundable)	2500	At the time of admission
	Total	7500	

Semester-wise Charges

1.	Maintenance charges	1000	Semester-wise
2.	Common room charges	200	Semester-wise
3.	Utensil & crockery charges	500	Semester-wise
4.	Garbage collection charges	200	Semester-wise
5.	Room rent (Exempted in case of SC/ST students)	700	Semester-wise
6.	Electricity charges	1200	Semester-wise
7.	Water charges	110	Semester-wise
	Total	3910	Semester-wise

Note:

- a) There will be no charges for PwD category students except mess bill.
- b) Mess services charge of Rs. 1500/- only will be charged separately by the Dean after the allotment of room in the hostel.

11.3 Hostel facility in the College of Horticulture and Forestry, Thunag (Mandi)

As this is a new campus, as such, there is no hostel facility available in this College and the students have to stay in the private PG's available in the surroundings of the College Campus.

Chapter-XII

University Grants Commission

UGC Regulations

On Curbing The Menace Of Ragging

IN

Higher Educational Institutions, 2009

(under Section 26(1)(g) of the University Grants Commission Act, 1956)

New Delhi – 110 002, the 17th June, 2009

F.1-16/2007(CPP-II)

PREAMBLE

In view of the directions of the Hon'ble Supreme Court in the matter of "University of Kerala v/s Council, Principals, Colleges and others" in SLP no. 24295 of 2006 dated 16.05.2007 and that dated 08.05.2009 in Civil Appeal number 887 of 2009, and in consideration of the determination of the Central Government and the University Grants Commission to prohibit, prevent and eliminate the scourge of ragging including any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student, or indulging in rowdy or in-disciplined activities by any student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear of apprehension thereof in any fresher or any other student or asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment to embarrassment so as to adversely affect the physique or psyche of such fresher or any student, with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student, in all higher education institutions in the country, and thereby, to provide for the healthy development, physically and psychologically, of all students of the university, the University Grants Commission, in consultation with the Councils, brings forth this regulation.

13.1 Title, commencement and applicability:

- 12.1.1 These regulations shall be called the "UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009".
- 12.1.2 They shall come into force from the date of their publication in the Official Gazette.
- 12.1.3 They shall apply to all the Institutions coming within the definition of an University under sub-section (f) of section (2) of the University Grants Commission Act, 1956, and to all other higher educational institutions, or elements of such universities or institutions, including its departments, constituent units and all the premises, whether being academic, residential, playgrounds, canteen, or other such premises of such universities, deemed universities and higher educational institutions, whether located within the campus or outside, and to all means of transportation of students for the pursuit of studies in such universities, deemed universities and higher educational institutions.

12.2 Objectives:

To prohibit any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student, or indulging in rowdy or in-disciplined activities by any student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear of apprehension thereof in any fresher or any other student or asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any student, with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student; and thereby, to eliminate ragging in all its forms from Universities, deemed universities and other higher education institutions in the country by prohibiting it under these Regulations, preventing its occurrence and punishing those who indulge in ragging as provided for in these regulations and the appropriate law in force.

12.3 What constitutes Ragging:

Ragging constitutes one or more of any of the following acts:

- a) Any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness any fresher or any other student.
- b) Indulging in rowdy or in-disciplined activities by any student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in any fresher or any other student.
- c) Asking any student to do any act or perform something which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame or torment or embarrassment so as to adversely affect the physique or psyche of a fresher or any other student.
- d) Any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher.
- e) Exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.
- f) Any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students.
- g) Any act of physical abuse including all variants of it; sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health of a person.
- h) Any act or abuse by spoken words, e-mails, post, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to fresher or any other student.
- i) Any act that affects the mental health and self-confidence of a fresher or any other student with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student.

12.4 Measures for prohibition of ragging at the institution level:

- a) No Institution or any part of it thereof, including its elements, including, but not limited to the departments, constituent units, colleges, centres of studies and all its premises,

whether academic, residential, playgrounds, or canteen, whether located within the campus or outside, and in all means of transportation of students, whether public or private, accessed by students for the pursuit of studies in such institutions, shall permit or condone any reported incident of ragging in any form; and all institutions shall take all necessary and required measures, including but not limited to the provisions of these regulations, to achieve the objective of eliminating ragging, within the institution or outside.

- b) All institutions shall take action in accordance with these regulations against those found guilty of ragging and/ or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.

12.5 Measures for prevention of ragging at the Institution level:

12.5.1 An institution shall take the following steps in regard to admission or registration of students; namely,

- a) Every public declaration of intent by any institution, in any electronic, audio-visual on print or any other media, for admission of students to any course of study shall expressly provide that ragging is totally prohibited in the Institution, and anyone found guilty of ragging and/or abetting ragging, whether actively or passively, or being a part of a conspiracy to promote ragging, is liable to be punished in accordance with these Regulations as well as under the provisions of any penal law for the time being in force.
- b) The brochure of admission/ instruction booklet or the prospectus, whether in print or electronic format, shall prominently print these regulations in full.

Provided that the institution shall also draw attention to any law concerning ragging and its consequences, as may be applicable to the institution publishing such brochure of admission/instruction booklet or the prospectus.

Provided further that the telephone numbers of the Anti-Ragging helpline and all the important functionaries in the institution, including but not limited to the Head of the Institution, faculty members, members of the Anti-Ragging Committees and Anti-ragging squads, District and Sub-divisional authorities, wardens of hostels, and other functionaries or authorities where relevant, shall be published in the brochure of admission/ instruction booklet or the prospectus.

- a) Where an institution is affiliated to a University and publishes a brochure of admission/instruction booklet or a prospectus, the affiliating University shall ensure that the affiliated institution shall comply with the provisions of clause (a) and clause (b) of regulation 12.1 of these regulations.
- b) The application form for admission, enrolment or registration shall contain an reference number of online undertaking filled by the student at www.amanmovement.org or www.antiragging.in to the effect that he/ she has read and understood the provisions of these regulations as well as the provisions of any other law for the time being in force, and is aware of the prohibition of ragging and the punishments prescribed, both under penal laws as well as under these regulations and also affirm to the effect that he/she has not been expelled and/or debarred by any institution and further aver that he/she would not indulge, actively or passively, in the act or abet the act of ragging and if found guilty of ragging and/or abetting ragging, is liable to be proceeded against under these regulations or under any penal law or any

other law for the time being in force and such action would include but is not limited to debarment or expulsion of such student.

- c) The application for admission shall be accompanied by a document in the form of, or annexed to, the school leaving certificate/ transfer certificate/ migration certificate/ character certificate reporting on the inter-personal/ social behavioural pattern of the applicant, to be issued by the School or institution last attended by the applicant, so that the institution can thereafter keep watch on the applicant, if admitted, whose behaviour has been commented in such document.
- d) A student seeking admission to a hostel forming part of the institution, or seeking to reside in any temporary premises not forming part of the institution, including to reside in any temporary premises not forming part of the institution, including a private commercially managed lodge or hostel, shall have to submit additional affidavits countersigned by his/her parents/guardians to these regulations respectively along with his/ her application.
- e) Before the commencement of the academic session in any institution, the Head of the Institution shall convene and address a meeting of various functionaries/agencies, such as hostel wardens, representatives of students, parents/guardians, faculty, district administration including the police, to discuss the measures to be taken to prevent ragging in the institution and steps to be taken to identify those indulging in or abetting ragging and punish them.
- f) The institution shall, to make the community at large and the students in particular aware of the dehumanizing effect of ragging, prominently display posters depicting the provisions of these Regulations and also any other law for the time being in force, and the punishments thereof, shall be prominently displayed on notice boards of all departments, hostels and other buildings as well as at places, where students normally gather and at places, known to be vulnerable to occurrences of ragging incidents.
- g) The institution shall identify, properly illuminate and keep a close watch on all locations known to be vulnerable to occurrences of ragging incidents.
- h) The institution shall tighten security in its premises, especially at vulnerable places and intense policing by anti-ragging squad, referred to in these regulations and volunteers, if any, shall be resorted to at such points at odd hours during the first few months of the academic session.
- i) The institution shall utilize the vacation period before the start of the new academic year to launch a publicity campaign against ragging through posters, leaflets and such other means, as may be desirable or required, to promote the objectives of these Regulations.

12.5.2 An institution shall, on admission or enrolment or registration of students, take the following steps, namely;

- a) Every fresh student admitted to the institution shall be given a printed leaflet detailing to whom he/she has to turn to for help and guidance for various purposes including addresses and telephone numbers, so as to enable the student to contact the concerned person at any time, if and when required, of the Anti-Ragging Helpline referred to in these regulations, wardens, Head of the Institution, all members of the anti-ragging squads and committees, relevant district and police authorities.
- b) The institution, through the leaflet specified in clause (a) of Regulation 12.2 of these regulations shall explain to the freshers, the arrangements made for their induction and orientation which promote efficient and effective means of integrating them fully as students with those already admitted to the institution in earlier years.

- c) The leaflet specified in clause (a) of regulation 12.2 of these regulations shall inform the freshers about their rights as bonafide students of the institution and clearly instructing them that they should desist from doing anything, with or against their will, even if ordered to by the senior students, and that any attempt of ragging shall be promptly reported to the anti-ragging squad or to the warden or to the head of the institution, as the case may be.
- d) The institution shall, on the arrival of senior students after the first week or after the second week, as the case may be, schedule orientation programmes as follows, namely; (i) joint sensitization programme and counselling of both freshers and senior students; (ii) joint orientation programme of freshers and seniors to be addressed by the head of the institution and the anti-ragging committee; (iii) organization on a large scale of cultural, sports and other activities to provide a platform for the freshers and seniors to interact in the presence of faculty members; (iv) in the hostel, the warden should address all students; and may request two junior colleagues from the college faculty to assist the warden by becoming resident tutors for a temporary duration (v) as far respective hostels to instil a feeling of confidence among the freshers.
- e) Freshers or any other student(s), whether being victims, or witnesses, in any incident of ragging, shall be encouraged to report such occurrence, and the identity of such informants shall be protected and shall not be subject to any adverse consequence only for the reason for having reported such incidents.
- f) Each batch of freshers, on arrival at the institution, shall be divided into small groups and each such group shall be assigned to a member of the faculty, who shall interact individually with each member of the group every day for ascertaining the problems or difficulties, if any, faced by the fresher in the institution and shall extend necessary help to the fresher in overcoming the same.
- g) It shall be the responsibility of the member of the faculty assigned to the group of freshers, to coordinate with the wardens of the hostels and to make surprise visits to the rooms in such hostels, where a member or members of the group are lodged; and such member of faculty shall maintain a diary of his/her interaction with the freshers under his/her charge.
- h) Freshers shall be lodged, as far as may be, in a separate hostel block, and where such facilities are not available, the interaction shall ensure that access of seniors to accommodation allotted to freshers is strictly monitored by wardens, security guards and other staff of the institution.
- i) A round the clock vigil against ragging in the hostel premises, in order to prevent ragging in the hostels after the classes are over, shall be ensured by the institution.
- j) It shall be the responsibility of the parents/guardians of freshers to promptly bring any instance of ragging to the notice of the Head of the Institution.
- k) Every student studying in the institution and his/her parents/guardians shall provide the specific affidavits required under clauses (d), (e) and (f) of Regulation 12.1 of these regulations at the time of admission or registration, as the case may be, during each academic year.
- l) Every student at the time of his/ her registration shall inform the institution about his/ her place of residence while pursuing the course of study, and in case the student has not decided his/her place of residence or intends to change the same, the details of his place of residence shall be provided immediately on deciding the same; and specifically in regard to a private commercially managed lodge or hostel where he/she has taken up residence.
- m) The head of the institution shall, on the basis of the information provided by the student, apportion sectors to be assigned to members of the faculty, so that such member of



faculty can maintain vigil and report any incident of ragging outside the campus or enroute while commuting to the institution using any means of transportation of students, whether public or private.

12.5.3 Every institution shall constitute the following bodies; namely,

- a) Every Institution shall constitute to be known as the anti-ragging committee to be nominated and headed by the head of the institution, and consisting of representatives of civil and police administration, local media, non-government organizations involved in youth activities, representatives of faculty members, representatives of students belonging to the freshers' category as well as senior students, non-teaching staff; and shall have a diverse mix of membership in terms of levels as well as gender.
- b) It shall be the duty of the anti-ragging committee to ensure compliance with the provisions of these regulations as well as the provisions of any law for the time being in force concerning ragging; and also, to monitor and oversee the performance of the anti-ragging squad in prevention of ragging in the institution.
- c) Every institution shall also constitute a smaller body to be known as the anti-ragging squad to be nominated by the head of the institution with such representation as may be considered necessary for maintaining vigil, oversight and patrolling functions and shall remain mobile, alert and active at all times.

Provided that the anti-ragging squad shall have representation of various members of the campus community and shall have no outside representation.

- d) It shall be the duty of the anti-ragging squad to be called upon to make surprise raids on hostels, and other places vulnerable to incidents of, and having the potential of raging and shall be empowered to inspect such places.
- e) It shall also be the duty of the anti-ragging squad to conduct an on-the-spot enquiry into any incident of ragging referred to it by the Head of the institution or any member of the faculty or any member of the staff or any student or any parent or guardian or any employee of a service provider or by any other person, as the case may be; and the enquiry report along with recommendations shall be submitted to the anti-ragging committee for action under clause (a) of regulation 12.1

Provided that the anti-ragging squad shall conduct such enquiry observing a fair and transparent procedure and the principles of natural justice and after giving adequate opportunity to the student or students accused of ragging and other witnesses to place before it the facts, documents and views concerning the incident of ragging, and considering such other relevant information as may be required.

12.5.4 Every institution shall take the following other measures, namely;

- a) The warden shall be accessible at all hours and be available on telephone and other modes of communication, and for the purpose the warden shall be provided with a mobile phone by the institution, the number of which shall be publicised among all students residing in the hostel.
- b) The institution shall give necessary instructions to the employees of the canteens and messing, whether that of the institution or that of a service provider providing this service, or their employees, as the case may be, to keep a strict vigil in the area of their work and to report the incidents of ragging to the head of the institution or members of the anti-ragging squad or members of the anti-ragging committee or the wardens, as may be required.

- c) The institution shall cause to have an entry, apart from those relating to general conduct and behaviour, made in the migration/ transfer certificate issued to the student while leaving the institution, as to whether the student has been punished for committing or abetting an act of ragging, as also whether the student has displayed persistent violent or aggressive behaviour or any inclination to harm others, during his/her course of study in the institution.
- d) Notwithstanding anything contained in these regulations with regard to obligations and responsibilities pertaining to the authorities or members of bodies prescribed above, it shall be the general collective responsibility of all levels and sections of authorities or functionaries including members of the faculty and employees of service providers providing service within the institution, to prevent or to act promptly against the occurrence of ragging or any incident of ragging which comes to their notice.

12.6 Action to be taken by the Head of the institution:

On receipt of the recommendation of the anti-ragging squad or on receipt of any information concerning any reported incident of ragging, the Head of the Institution shall immediately determine if a case under the penal laws is made out and if so, either on his own or through a member of the anti-ragging committee authorized by him in this behalf, proceed to file a first information report (FIR), within twenty four hours of receipt of such information or recommendation, with the police and local authorities, under the appropriate penal provisions relating to one or more of the following, namely;

- a) Abetment to ragging
- b) Criminal conspiracy to rag
- c) Unlawful assembly and rioting while ragging
- d) Public nuisance created during ragging
- e) Violation of decency and morals through ragging
- f) Injury to body, causing hurt or grievous hurt
- g) Wrongful restraint
- h) Wrongful confinement
- i) Use of criminal force
- j) Assault as well as sexual offences or unnatural offences
- k) Extortion
- l) Criminal trespass
- m) Offences against property
- n) Criminal intimidation
- o) Attempts to commit any or all of the above-mentioned offences against the victim(s)
- p) Threat to commit any or all of the above-mentioned offences against the victim(s)
- q) Physical or psychological humiliation
- r) All other offences following from the definition of “Ragging”

Provided that the head of the institution shall forthwith report the occurrence of the incident of ragging to the district level anti-ragging committee and the nodal officer of the affiliating university, if the institution is an affiliated institution.

Provided further that the institution shall also continue with its own enquiry initiated under clause 8 of these regulations and other measures without waiting for



action on the part of the police/local authorities and such remedial action shall be initiated and completed immediately and in no case later than a period of seven days of the reported occurrence of the incident of ragging.

12.7 Duties and Responsibilities of the Commission and the Councils:

12.7.1 The Commission shall, with regard to providing/facilitating communication of information regarding incidents of ragging in any institution, take the following steps, namely,

- a) The Commission shall establish, fund and operate, a toll-free anti-ragging helpline, operational round the clock, which could be accessed by students in distress owing to ragging related incidents.
- b) Any distress message received at the anti-ragging helpline shall be simultaneously relayed to the head of the institution, the warden of the hostels, the concerned District Authorities and if so required, the District Magistrate and the Superintendent of Police, and shall also be web enabled so as to be in the public domain simultaneously for the media and citizens to access it.
- c) The Head of the Institution shall be obliged to act immediately in response to the information received from the anti-ragging helpline as at sub-clause (b) of this clause.
- d) The telephone numbers of the Anti-Ragging Helpline and all the important functionaries in every institution, Heads of institutions, faculty members, members of the anti-ragging committees and anti-ragging squads, district and sub-divisional authorities where relevant, shall be widely disseminated for access or to seek help in emergencies.
- e) The Commission shall maintain an appropriate data base to be created out of affidavits, affirmed by each student and his/ her parents/ guardians and stored electronically by the institution, and such database shall also function as a record of ragging complaints received, and the status of the action taken thereon.
- f) The Commission shall make available the data base to a non-governmental agency to be nominated by the Central Government, to build confidence in the public and also to provide information of non-compliance with these Regulations to the Councils and to such bodies as may be authorized by the Commission or by the Central Government.

12.7.2 The Commission shall take the following regulatory steps, namely;

- a) The Commission shall make it mandatory for the institutions to incorporate in their prospectus, the directions of the Central Government or the State Level Monitoring Committee with regard to prohibition and consequences of ragging, and that non-compliance with these regulations and directions so provided, shall be considered as lowering of academic standards by the institution, therefore making it liable for appropriate action.
- b) The Commission shall verify that the institutions strictly comply with the requirement of getting the affidavits from the students and their parents/guardians as envisaged under these Regulations.
- c) The Commission shall include a specific condition in the Utilization Certificate, in respect of any financial assistance or grants-in-aid to any institution under any of the

general or special schemes of the commission that the institution has complied with the anti-ragging measures.

- d) Any incident of ragging in an institution shall adversely affect its accreditation ranking or grading by NAAC or by any other authorized accreditation agencies while assessing the institution for accreditation, ranking or grading purposes.
- e) The Commission may accord priority in financial grants-in-aid to those institutions, otherwise eligible to receive grants under section 12B of the Act, which report a blemish less record in terms of there being no reported incident of ragging.
- f) The Commission shall constitute an Inter-Council Committee, consisting of representatives of the various Councils, the Non-Governmental Agency responsible for monitoring the database maintained by the Commission under clause (f) of Regulation 12.1 and such other bodies in higher education, to coordinate and monitor the anti-ragging measures in institutions across the Country and to make recommendations from time to time; and shall meet at least once in six months each year.
- g) The Commission shall institute an Anti-Ragging Cell within the Commission as an institutional mechanism to provide secretarial support for collection of information and monitoring, and to coordinate with the State Level Monitoring Cell and University level Committees for effective implementation of anti-ragging measures, and the Cell shall also coordinate with the Non-Governmental agency responsible for monitoring the database maintained by the Commission appointed under clause (f) of Regulation 12.1.

12.8 Administrative action in the event of ragging:

12.8.1 The Institution shall punish a student found guilty of ragging after following the procedure and in the manner prescribed here under:

- a) The Anti-ragging Committee of the University shall take an appropriate decision, in regard to punishment or otherwise, depending on the facts of each incident of ragging and nature and gravity of the incident of ragging established in the recommendations of the Anti-ragging Squad.
- b) The Anti-ragging Committee may, depending on the nature and gravity of the guilt established by the Anti-Ragging Squad, award, to those found guilty, one or more of the following punishments, namely;
 - i) Suspension from attending the classes and academic privileges
 - ii) Withholding/withdrawing scholarship/fellowship and other benefits
 - iii) Debarring from appearing in any test/examination or other evaluation process
 - iv) Withholding results
 - v) Debarring from representing the University in any regional, national or international meet, tournament, youth festival, etc
 - vi) Suspension/expulsion from the hostel
 - vii) Cancellation of admission
 - viii) Rustication from the University for period ranging from one to four Semesters
 - ix) Expulsion from the University and consequent debarring from admission to any other institution/University for a specified period.

Provided that where the persons committing or abetting the act of ragging are not identified, the University shall resort to collective punishment.



- c) An appeal against the order of punishment by the Anti-ragging Committee shall lie,
 - i. In case of an order of an institution, affiliated to or constituent part, of a University, to the Vice Chancellor of the University.
 - ii. In case of an order of a University, to its Chancellor.
 - iii. In case of an institution of national importance created by an Act of Parliament, to the Chairman or Chancellor of the institution, as the case may be.

12.8.2 Where in the opinion of the appointing authority, a lapse is attributable to any member of the faculty or staff of the institution, in the matter of reporting or taking prompt action to prevent an incident of ragging or who displays an apathetic or insensitive attitude towards complaints of ragging, or who fails to take timely steps, whether required under these Regulations or otherwise, to prevent an incident or incidents of ragging, then such authority shall initiate departmental disciplinary action, in accordance with the prescribed procedure of the institution, against such member of the faculty or staff.

Provided that where such lapse is attributable to the Head of the institution, the authority designated to appoint such Head shall take such departmental disciplinary action; and such action shall be without prejudice to any action that may be taken under the penal laws for abetment of ragging for failure to take timely steps in the prevention of ragging or punishing any student found guilty of ragging.

12.8.3 The Commission shall, in respect of any institution that fails to take adequate steps to prevent ragging or fails to act in accordance with these Regulations or fails to punish perpetrators or incidents of ragging suitably, take one or more of the following measures, namely;

- i. Withdrawal of declaration of fitness to receive grants under section 12B of the Act.
- ii. Withholding any grant allocated.
- iii. Declaring the institution ineligible for consideration for any assistance under any of the general or special assistance programmes of the Commission.
- iv. Informing the general public, including potential candidates for admission, through a notice displayed prominently in the newspapers or other suitable media and posted on the website of the Commission, declaring that the institution does not possess the minimum academic standards.
- v. Taking such other action within its powers as it may deem fit and impose such other penalties as may be provided in the Act for such duration of time as the institution complies with the provisions of these Regulations.

Provided that the action taken under this clause by the Commission against any institution shall be shared by all Councils.

NOTE: It is mandatory for all the students of this University to fill the undertaking online at www.amanmovement.org or www.antiragging.in

Contacts in case of “Ragging”

Fax No. 01792-252 603

Website: www.yspuniversity.ac.in

Sr No	Designation	E-mail Address	Telephone Numbers (10.00 AM to 5.00 PM)
1.	Vice-Chancellor	vcuhf@yspuniversity.ac.in	01792-252363
2.	Dean, College of Horticulture, Nauni- Solan	deancoh@yspuniversity.ac.in	01792-252344
3.	Dean, College of Forestry, Nauni-Solan	deancof@yspuniversity.ac.in	01792-252354
4.	Dean, College of Horticulture & Forestry, Neri (Hamirpur)	deancohf@yspuniversity.ac.in	01972-262901
5.	Dean, College of Horticulture and Forestry, Thunag (Mandi)	deancohthunag@yspuniversity.ac.in	01907-257663
6.	Dean, Students’ Welfare	swo@yspuniversity.ac.in	01792-252312
7.	Registrar	registrar@yspuniversity.ac.in	01792-252219

ANNEXURES



Outline Of Syllabus For Entrance Examination For Undergraduate Programmes

Section I

PHYSICS

Physical World and Measurement: Physics - Scope and excitement; nature of physical laws; Physics, technology and society. Need for measurement: Units of measurement; systems of units; SI units, fundamentals and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures. Dimensions of physical quantities, dimensional analysis and its applications.

Kinematics: Frame of reference. Motion in a straight line: Position-time graph, speed and velocity. Uniform and non-uniform motion, average speed and instantaneous velocity. Uniformly accelerated motion, velocity-time, position-time graphs, relations for uniformly accelerated motion (graphical treatment). Elementary concepts of differentiation and integration for describing motion.

Scalar and vector quantities: Position and displacement vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number, addition and subtraction of vectors, relative velocity.

Unit vector: Resolution of a vector in a plane-rectangular components. Motion in a plane. Cases of uniform velocity and uniform acceleration, projectile motion. Uniform circular motion.

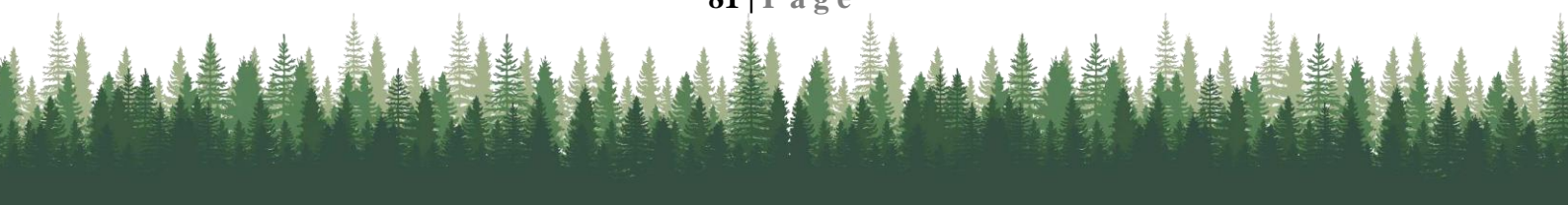
Laws of Motion: Intuitive concept of force, inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse. Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and kinetic friction, laws of friction, rolling friction. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on level circular road, vehicle on banked road)

Work, Energy and Power: Scalar product of vectors. Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic & potential energies); non-conservative forces: elastic & inelastic collisions in one & two dimensions.

Motion of System of Particles & Rigid Body: Centre of mass of a two-particle system, momentum conservation & centre of mass motion. Centre of mass of a rigid body, centre of mass of uniform rod. vector product of vectors; moment of a force, torque, angular momentum, conservation of angular momentum with some examples. equilibrium of rigid bodies, rigid body rotation & equations of rotational motion, comparison of linear & rotational motions, moment of inertia, radius of gyration. values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.

Gravitation: Kepler's Laws of planetary motion. The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential. Escape velocity. Orbital velocity of a satellite. Geo-stationary satellites

Properties of Bulk Matter: Elastic behaviour, stress-strain relationship, Hooke's law, Young's law, Young's modulus, bulk modulus, shear, modulus of rigidity. Pressure due to a fluid column, Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of



gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow, Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, application of surface tension ideas to drops, bubbles and capillary rise. Heat, temperature, thermal expansion; specific heat - calorimetry; change of state - latent heat. Heat transfer -conduction, convection and radiation, thermal conductivity, Newton's law of cooling.

Thermodynamics: Thermal equilibrium and definition of temperature (Zeroth law of thermodynamics). Heat, work and internal energy. First law of thermodynamics. Second law of thermodynamics: reversible and irreversible processes. Heat engines and refrigerators.

Behaviour of Perfect Gas and Kinetic Theory: Equation of state of a perfect gas, work done on compressing of a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic energy and temperature; rms speed of gas molecules; degrees of freedom, law of equilibrium of energy (statement only) and application to specific heats of gases, concept of mean free path, Avogadro's number.

Oscillations and Waves: Periodic motion - period, frequency, displacement as a function of time, periodic functions. Simple harmonic motion (SHM) and its equation; phase; oscillations of a spring-restoring force and force constant; energy in SHM- kinetic and potential energies; simple pendulum - derivation of expression for its time period; free, forced and damped oscillations (qualitative idea only). Resonance.

Equilibrium: Wave motion, longitudinal and transverse waves, speed of wave motion. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, beats, Doppler effect.

Electrostatics: Electric charges; conservation of charge, Coloumb's law - force between two-point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines; electric dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinitely plane sheet and uniformly charged thin spherical shell (field inside and outside). Electric potential, potential difference; electric potential due to a point charge, a dipole and system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitor and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates; energy stored in a capacitor. Van de Graaff generator

Current Electricity: Electric current, flow of electric charges in a metallic conductor, drift velocity and mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics, (linear and non-linear) electrical energy and power, electrical resistivity and conductivity, Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance. Internal resistance of a cell, Potential difference and emf of a cell, combination of cells in series and in parallel. Kirchhoff's laws and simple applications, Wheatstone bridge, Metre bridge, Potentiometer – principle and its applications to measure potential difference and for comparing emf of two cells; measurement of internal resistance of a cell.

Magnetic Effects of Currents and Magnetism: Concept of magnetic field, Oersted's experiment. Biot-Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire, straight and toroidal solenoids. Force on a moving charge in uniform magnetic and electric fields, Cyclotron. Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current carrying conductors- definition of ampere. Torque experienced by a current loop in uniform magnetic



field; moving coil galvanometer – its current sensitivity and conversion to ammeter and voltmeter. Current loop as a magnetic dipole moment and its magnetic dipole moment; magnetic dipole moment due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements; para, dia and ferro-magnetic substances with examples, electromagnets and factors affecting their strengths, permanent magnets.

Electromagnetic Induction and Alternating Currents: Electromagnetic induction, Faraday's laws, Induced emf and current, Lenz's law, Eddy currents, self and mutual inductance. Need for displacement current. Alternating currents, peak and rms value of alternating current/voltage, reactance and impedance; LC oscillations, (qualitative treatment only), LCR series circuit, resonance; power in AC circuits, watt-less current. AC generator and transformer.

Electromagnetic Waves: Electromagnetic waves and their characteristics (qualitative ideas only). Transverse nature of electromagnetic waves. Electromagnetic spectrum (radiowaves, microwaves, infrared, visible, ultraviolet, X-rays, *gamma* rays) including elementary facts about their uses.

Optics: Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection and its applications, optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lens-maker's formula, Magnification, power of a lens, combination of thin lenses in contact. Refraction and dispersion of light through a prism. Scattering of light – blue colour of the sky and reddish appearance of the sun at sun rise and sunset.

Optical Instruments – Human eye, image formation and accommodation, correction of eye defects (myopia, hypermetropia, presbyopia and astigmatism) using lenses. Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.

Wave Optics: wave front and Huygen's principle; reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's Principle. Interference – Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light. Diffraction due to a single slit, width of central maximum. Resolving power of microscopes and astronomical telescopes. Polarisation, plane polarised light, Brewster's law, uses of plane polarised light and polaroids

Dual Nature of Matter and Radiation: Dual nature of radiation. Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation - particle nature of light. Matter waves – wave nature of particles, de-Broglie relation, Davisson-Germer experiment.

Atomic & Nuclei: Alpha-particle - scattering experiment, Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum. Composition and size of nucleus, atomic masses, isotopes, isobars; isotones. Radioactivity - *alpha*, *beta* and *gamma* particles/rays and their properties; radioactive decay law. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number, nuclear fission and fusion.

Electronic Devices: Semiconductors; semiconductor diode I-V characteristics in forward and reverse bias, diode as a rectifier; I-V characteristics of LED, photodiode, solar cell and Zener diode; Zener diode as a voltage regulator, Junction transistor, transistor action, characteristics of a transistor; transistor as an amplifier (common emitter configuration) and oscillator, Logic gates (OR, AND, NOT, NAND and NOR); transistor as a switch.

Communication Systems: Elements of communication systems (block diagram only); bandwidth of signals (speech, TV and digital data); bandwidth of transmission medium. Propagation of electromagnetic waves in the atmosphere, sky and space wave propagation. Need for modulation. Production and detection of an amplitude-modulated wave.

Section II

CHEMISTRY

Some Basic Concepts of Chemistry: General introduction: Importance and scope of Chemistry, historical approach to particulate nature of matter, laws of chemical combination. Dalton's atomic theory: Concept of elements, atoms and molecules. Atomic and molecular masses. Mole concept and molar mass: percentage composition, empirical and molecular formula; chemical reactions, stoichiometry and calculations based on stoichiometry.

Structure of Atom: Discovery of electron, proton and neutron; atomic number, isotopes and isobars. Thomson's model and its limitations, Rutherford's model and its limitations. Bohr's model and its limitations, concepts of shells and subshells, dual nature of matter and light, de-broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of *s*, *p* and *d* orbitals, rules for filling electrons in orbitals – Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.

Classification of Elements and Periodicity in Properties: Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements - atomic radii, inert gas radii. Ionization enthalpy, electron gain enthalpy, electronegativity, valence.

Chemical Bonding and Molecular Structure: Valence electrons, ionic bond, covalent bond: bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization involving *s*, *p* and *d* orbitals and shapes of some simple molecules, molecular orbital; theory of homo nuclear diatomic molecules (qualitative idea only), hydrogen bond.

States of Matter: gases and liquids: Three states of matter. Intermolecular interactions, type of bonding, melting and boiling points. Role of gas laws in elucidating the concept of the molecule, Boyle's law, Charles law, Gay Lussac's law, Avogadro's number. Ideal behaviour, empirical derivation of gas equation, Avogadro's number, Ideal gas equation. Derivation from ideal behaviour, liquefaction of gases, critical temperature. Liquid State – vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations)

Thermodynamics: Concepts of system, types of systems, surroundings. Work, heat, energy, extensive and intensive properties, state functions. First law of Thermodynamics – internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH , Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization and dilution. Introduction of entropy as a state function, free energy change for spontaneous and non-spontaneous process, equilibrium.

Equilibrium: Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium – Le Chatelier's principle; ionic equilibrium – ionization of acids and bases, strong and weak electrolytes, degree of ionization, concept of pH. Hydrolysis of salts (elementary idea). Buffer solutions solubility product, common ion effect (with illustrative examples).

Redox Reactions: Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, applications of redox reactions.

Hydrogen: Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen; hydrides - ionic, covalent and interstitial; physical and chemical properties of water, heavy water; hydrogen peroxide - preparation, reactions and structure; hydrogen as a fuel.

S-block Elements (Alkali and Alkaline Earth Metals)

Group-1 and Group-2 Elements: General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii). Trends in chemical reactivity with oxygen, water, hydrogen and halogens; uses

Preparation and Properties of some Important Compounds: Sodium carbonate, sodium chloride, sodium hydroxide and sodium hydrogen carbonate, biological importance of sodium and potassium. CaO , CaCO_3 and industrial use of lime and limestone, biological importance of Mg and Ca.

Some P-block Elements: General Introduction to p-block elements

Group 13 elements: General introduction, electronic configuration. Occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group; boron – physical and chemical properties, some important compounds; borax, boric acids, boron hydrides. Aluminium: uses, reactions with acids and alkalis.

Group 14 elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first element, Carbon-catenation, allotropic forms, physical and chemical properties; uses of some important compounds: oxides, important compounds of silicon and a few uses: silicon tetrachloride, silicones, silicates and zeolites.

Organic Chemistry – Some Basic Principles and Techniques: General Introduction, method, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds.

Electronic displacements in a covalent bond: Inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions.

CLASSIFICATION OF HYDROCARBONS

Alkanes – Nomenclature, isomerism, conformations (ethane only), physical properties, chemical reactions including free radical mechanism or halogenations, combustion and pyrolysis.

Alkenes – Nomenclature, structure of double (ethene) geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.

Alkynes – Nomenclature, structure of triple bond (ethyne), physical properties. Methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of hydrogen, halogens, hydrogen halides and water.

Aromatic hydrocarbons: Introduction, IUPAC nomenclature; Benzene: Resonance aromaticity, chemical properties; mechanism of electrophilic substitution – nitration, sulphonation, halogenations, Friedel Craft's alkylation and acylation, directive influence of functional group in mono-substituted benzene; carcinogenicity and toxicity.

Environmental Chemistry: Environmental pollution – air, water and soil pollution, chemical reactions in atmosphere, smog, major atmospheric pollutants; acid rain, ozone and its reactions, effects of depletion of ozone layer, greenhouse effect and global warming - pollution due to industrial wastes; green chemistry as an alternative tool for reducing pollution, strategy for control of environmental pollution.

Solid State: Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea), unit cell in

two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, voids, number of atoms per unit cell in a cubic unit cell, point defects, electrical and magnetic properties.

Solutions: Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties – relative lowering of vapour pressure, elevation of B.P. depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass.

Electrochemistry: Redox reactions, conductance in electrolytic solutions, specific and molar conductivity variations of conductivity with concentration, Kohlrausch's law, electrolysis and laws of electrolytes (elementary idea), dry cell-electrolytic cells and Galvanic Cells; lead accumulator, EMF of a cell standard electrode potential, Nernst equation and its application to chemical cells, fuel cells; corrosion.

Chemical Kinetics: Rate of a reaction (average and instantaneous), factors affecting rates of reaction, concentration, temperature, catalyst, order and molecularity of a reaction; rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions); concept of collision theory (elementary idea, no mathematical treatment).

Surface Chemistry: Adsorption – physisorption and chemisorption factors affecting adsorption of gases of solids, catalysis; homogeneous and heterogeneous activity and selectivity; enzyme catalysis; colloidal state: distinction between true solutions, colloids and suspensions; lyophilic, lyophobic multi-molecular and macromolecular colloids, properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation; emulsion – types of emulsions.

General Principles and Processes of Isolation of Elements: Principles and methods of extraction – concentration, oxidation, reduction, electrolytic method and refining; occurrence and principles of extraction of aluminium, copper, zinc and iron.

P-BLOCK ELEMENTS

Group 15 Elements: Elements introduction, electronic configuration, occurrence, oxidation states, trends in physical and chemical properties; nitrogen – preparation, properties and uses; compounds of nitrogen: preparation, properties of ammonia and nitric acid, oxides of nitrogen (structure only); Phosphorous - allotropic forms; compounds of phosphorous, preparation and properties of phosphine, halides (PCl_3 , PCl_5) and oxoacids (elementary idea only).

Group 16 Elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; dioxygen – preparation, properties and uses; simple oxides, ozone. Sulphur - allotropic forms; compounds of sulphur: preparation, properties and uses of sulphur dioxide; sulphuric acid; industrial process of manufacture, properties and uses, oxoacids of sulphur (structures only).

Group 17 Elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens: preparation, properties and uses of chlorine and hydrochloric acid, interhalogen compounds, oxoacids of sulphur (structures only).

Group 18 Elements: General introduction, electronic configuration, occurrence, trends in physical and chemical properties; uses.

d-and f-block Elements: General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals- metallic character, ionization enthalpy, oxidation states, ionic radii, colour catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of $\text{K}_2\text{Cr}_2\text{O}_7$ and KMnO_4 .

Lanthanoids – Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction.

Actinoids - Electronic configuration, oxidation states.

Coordination Compounds: Coordination compounds – introduction, legends and coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, isomerism, importance of coordination compounds (in qualitative analysis, extraction of metals).

Haloalkanes: Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions.

Haloarenes: Nature of C-X bond, substitution reactions (directive influence of halogen for monosubstituted compounds only). Uses and environmental effects of dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only); identification of primary, secondary and tertiary alcohols; mechanism of dehydration, uses, some important compounds - methanol and ethanol.

Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols

Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.

Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties and mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes; uses.

Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.

ORGANIC COMPOUNDS CONTAINING NITROGEN

Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.

Cynides and Isocynides: will be mentioned at relevant places in context.

Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.

BIOMOLECULES

Carbohydrates: Classification (aldoses and ketoses). Monosaccharides (glucose and fructose). Oligosaccharides (sucrose, lactose, maltose), Polysaccharides (starch, cellulose, glycogen), importance.

Proteins: Elementary idea of α -amino acids, peptide bond, polypeptides, proteins, primary structure, secondary structure, tertiary structures and quaternary structure (qualitative idea only), denaturation of proteins; enzymes.

Vitamins: Classification and functions

Nucleic Acids: DNA & RNA

Polymers: Classification, natural and synthetic, methods of polymerization (addition and condensation), copolymerization. Some important polymers: natural and synthetic like polythene, nylon, polyesters, Bakelite, rubber.

CHEMISTRY IN EVERYDAY LIFE

Chemicals in medicine: analgesics, tranquilizers, antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines.

Chemicals in food: Preservatives, artificial sweetening agents.

Cleansing agents: Soaps and detergents, cleansing action.

Section III

(A) BIOLOGY

Diversity in Living World: Diversity of living organisms: classification of the living organisms (five kingdom classification, major groups and principles of classification within each kingdom). Systematics and binomial system of nomenclature. Salient features of animal (non-chordates upto phylum level and chordates upto class level) and plant (major groups; Angiosperms upto subclass) classification. Botanical gardens, herbaria, zoological parks and museums

Structural Organization in Animals and Plants: Tissues in animals and plants. Morphology, anatomy and functions of different parts of flowering plants: Root, stem, leaf, inflorescence, flower, fruit and seed. Morphology, anatomy and functions of different systems of an annelid (earthworm), an insect (cockroach) and an amphibian (frog)

Cell: Structure and Function: Cell: Cell wall, cell membrane and cell organelles (plastids, mitochondria, endoplasmic reticulum, Golgi bodies/ dictyosomes, ribosomes, lysosomes, vacuoles, centrioles) and nuclear organization. Mitosis, meiosis, cell cycle. Basic chemical constituents of living bodies. Structure and functions of carbohydrates, proteins, lipids and nucleic acids. Enzymes: types, properties and function.

Plant Physiology: Movement of water, food, nutrients and gases, plants and water mineral nutrition. Respiration. Photosynthesis. Plant Growth and development.

Human Physiology: Digestion and absorption. Breathing and respiration. Body fluids and circulation. Excretory products and elimination. Locomotion and movement. Control and coordination.

Sexual Reproduction: Pollination and fertilization in flowering plants. Development of seeds and fruits. Human reproduction: reproductive system in male and female, menstrual cycle. Production of gametes, fertilization, implantation, embryo development, pregnancy and parturition. Reproductive health - birth control, contraception and sexually transmitted diseases.

Genetics and Evolution: Mendelian inheritance. Chromosome theory of inheritance, deviations from Mendelian ratio (gene interaction - incomplete dominance, co-dominance, complementary genes, multiple alleles). Sex determination in human beings: XX, XY, linkage and crossing over. Inheritance pattern of haemophilia and blood groups in human beings. DNA: replication, transcription, translation. Gene expression and regulation. Genome and Human Genome Project. DNA fingerprinting. Evolution: Theories and evidences.

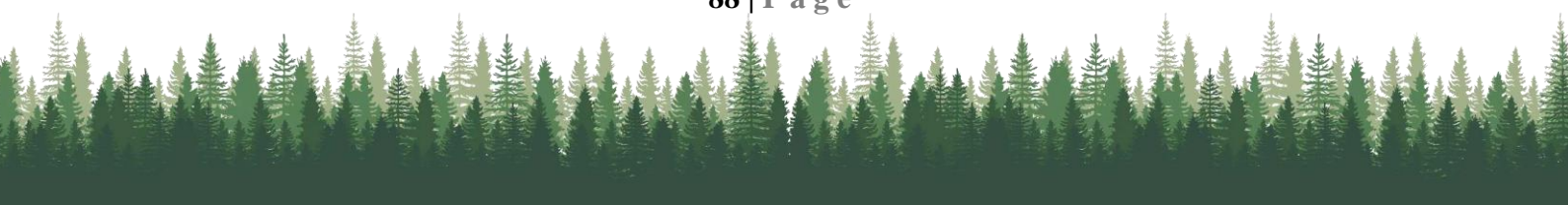
Biology and Human Welfare: Animal husbandry. Basic concepts of immunology, vaccines. Pathogens. Parasites. Plant Breeding, tissue culture, food production. Microbes in household food processing, industrial production, sewage treatment and gene generation. Cancer and AIDS. Adolescence and drug/alcohol abuse.

Biotechnology and its Applications: Recombinant DNA technology. Applications in Health, Agriculture and Industry. Genetically Modified (GM) organisms; biosafety issues. Insulin and BT cotton.

Ecology & Environment: Ecosystems: components, types and energy flow. Species, population and community. Ecological adaptations. Centres of diversity and conservation of biodiversity. National Parks and sanctuaries, Environmental issues.

(B) MATHEMATICS

Sets and Functions: Sets and their representations. Empty set. Finite and infinite sets, equal sets, sub sets, subsets of the set of real numbers especially intervals (with notations). Power



set, Universal set, Venn diagrams, union and intersection of sets. Difference of sets, Complement of a set.

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. Ordered pairs, Cartesian product of sets, number of elements in the Cartesian product of two finite sets, Cartesian product of the reals with itself (upto $\mathbb{R} \times \mathbb{R} \times \mathbb{R}$). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain, co-domain and range of a function. Real valued function of the real variable, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions with their graphs. Sum, difference, product and quotients of functions.

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

Trigonometric Functions: Measurement of angle and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2 x + \cos^2 x = 1$, for all x . Signs of trigonometric functions and sketch of their graphs. Expressing $\sin(x+y)$ and $\cos(x+y)$ in terms of $\sin x$, $\sin y$, $\cos x$ and $\cos y$. Deducing the identities like following:

$$\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \pm \tan x \tan y}, \cot(x \pm y) = \frac{\cot x \cot y \pm 1}{\cot x \pm \cot y}$$

$$\sin x + \sin y = 2 \sin \frac{x+y}{2} \cos \frac{x-y}{2},$$

$$\sin x - \sin y = 2 \cos \frac{x+y}{2} \sin \frac{x-y}{2}$$

$$\cos x + \cos y = 2 \cos \frac{x+y}{2} \cos \frac{x-y}{2}$$

$$\cos x - \cos y = -2 \sin \frac{x+y}{2} \sin \frac{x-y}{2}$$

Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$. General solution of trigonometric equations of the type $\sin \theta = \sin \alpha$. Simple applications of sine and cosine formulae.

ALGEBRA

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).

Determinants: Determinant of a square matrix (up to 3×3 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.

Principle of Mathematical Induction: Processes of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.

Complex Numbers and Quadratic Equations: Need for complex number especially $\sqrt{-1}$, to be motivated by inability to solve every quadratic equation. Brief description of algebraic properties of complex numbers, Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations in the complex number system.

Linear Inequalities: Linear inequalities, Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Solution of system of linear inequalities in two variables - graphically.

Permutations and Combinations: Fundamental principle of counting. Factorial n . Permutations and combinations. Derivation of formulae and their connections, simple applications.

Binomial Theorem: History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, general and middle term in binomial expansion, simple applications

Sequence and Series: Sequence and Series. Arithmetic progression (A.P.), Arithmetic mean (A.M.) Geometric progression (G.P.), general term of a G.P., sum of n terms of a G.P. geometric mean (G.M.), relation between A.M. and G.M. Sum of n terms of the special series $\sum n$, $\sum n^2$, $\sum n^3$

CALCULUS

Continuity and Differentiability: Continuity and differentiability, derivative of composite functions, chain rule, derivatives of inverse trigonometric functions, derivative of implicit function, concept of exponential and logarithmic functions of implicit function. Concept of exponential and logarithmic differentiation. Derivative of functions expressed in parametric forms. Second order derivatives. Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretations.

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).

Integrals: Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts. Definite integrals as a limit of a sum. Fundamental theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals

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).

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:

$$\frac{dy}{dx} + Py = Q, \text{ where } P \text{ and } Q \text{ are either constants or functions of } x \text{ alone}$$

Limits and Derivatives: Derivatives introduced as rate of change both as that of distance function and geometrically, intuitive idea of limit. Definition of derivatives, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

VECTORS AND THREE-DIMENSIONAL GEOMETRY

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 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.

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

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

Mathematical Reasoning: Mathematically acceptable statements. Connecting words/phrases - consolidating the understanding of 'if and only if (necessary and sufficient) condition', 'implies', 'and/or', 'implied by', 'and', 'or', 'there exists' and their use through variety of examples related to real life and Mathematics. Validating the statements involving the connecting words - difference between contradiction, converse and contrapositive

COORDINATE GEOMETRY

Straight lines: Brief recall of 2D from earlier classes. Slope of a line and angle between two lines. Various forms of equations of a line; parallel to axes, point-slope form, slope-intercept form, two-point form, intercepts form and normal form. General equation of a line. Distance of a point from a line

Conic Sections: Sections of cone: circles, ellipse, parabola, hyperbola, a point, a straight line and pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbolas. Standard equation of a circle

Introduction to Three-dimensional Geometry: Coordinate axes and coordinate planes in three dimensions. Co-ordinates of a point. Distance between two points and section formula.



STATISTICS AND PROBABILITY

Statistics: Measure of dispersion. Mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.

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.

Random experiments: outcomes, sample spaces (set representation). Events: occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events. Axiomatic (set theoretic) probability, connections with the theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.

NOTE: Besides above syllabi, any other question of scientific and educational importance may be asked.



Outline Of The Syllabus For Entrance Test For Master's Programme

Part-A: General Knowledge

- Current affairs related to national and international politics, sports; Achievements – Scientific inventions, various government programmes related to technology, rural development in agriculture, horticulture, forestry, health and education.
- History, geography, civilization, economy and culture of India and their significance in the development of agriculture, horticulture and forestry.

Part-B: Rural Awareness

- Knowledge of Panchayati Raj, Various agencies of agriculture, horticulture and forestry.
- Rural banking system in agriculture, horticulture and forestry. Role of co-operative societies in the development of agriculture and horticulture.
- Role of village level officers such as Patwari, Gram Sewak, Panchayat Secretary and Block Development Officer (BDO) in the development
- Knowledge of MGNREGA, National horticulture mission, Sarv shiksha abhiyan, adult education, non-conventional energy resources.

Part-C: Specialization (Optional)

i) Horticulture (Subject Code-01)

Importance in national economy; principles of cytology and cytogenetics; Structure and function of cell organelles, elementary knowledge of photosynthesis, respiration and transpiration; Structure and functions of major biomolecules; Methods of crop improvement and breeding mechanisms in fruits, vegetables and flower crops; Use of biotechnological tools in horticultural crops; Planning, layout and establishment of orchards; Principles and methods of training and pruning, orchard floor management, irrigation, propagation and nursery management, weed management; Soil and climatic requirements, varieties and rootstocks, cultivation and nutrition of temperate, subtropical and tropical fruits and plantation crops; Importance, scope and classification of vegetable gardening; Important varieties and hybrid, Cultural practices, protected cultivation and marketing of major vegetables, tuber crops and condiments; Scope and methods of seed production of vegetable and flower crops; Cultivation of major flower crops like rose, carnation, chrysanthemum, marigold, tuberose, gladiolus, *Lilium*, orchids etc. for commercial purposes; Establishment and maintenance of lawns,



ornamental trees, shrubs, climbers, hedges and annuals; Landscape gardening; Importance of postharvest technology in horticultural crops; pre-harvest factors, maturity indices, harvesting, handling, grading, postharvest treatments and storage of fruits, vegetables, cut-flowers and plantation crops; Food and its functions, composition, nutritive value and energy needs of body; Principles and methods of food preservation, food spoilage and quality control of processed products; Major insect-pest, diseases, physiological disorders and their management in fruit, vegetable and flower crops.

ii) Forestry (Subject Code-02)

Principles and practices of silviculture; Silviculture of Indian trees; Silvicultural systems; Plantation forestry; Nursery management; Tree seed technology; Forest mensuration; Forest management, policy and legislation; Forest engineering; World forestry systems; Agroforestry systems and management; Rangeland management; livestock management; Fundamentals of wildlife; Wildlife management; Forest entomology & pathology.

Forest ecology and biodiversity; Environmental science; Agrometeorology; Dendrology; Principles and methods of tree improvement; Introductory crop & tree physiology; Principles of cytology and cytogenetics; Plant biochemistry and biotechnology.

Wood anatomy; Wood science and technology; Wood products and utilization; Logging and ergonomics; Ethnobotany; Utilization of non-timber forest products; Important resources and cultivation of medicinal & aromatic plants.

Fundamentals of soil science; Chemistry and fertility of forest soils; Principles of hydrology; Soil and water conservation; Soil survey, remote sensing & wasteland development.

Introductory economics; Principles of forest economics; Project planning and evaluation; Forest Business management; Marketing and trade of forest produce; Fundamentals of extension education; Tribology and anthropology; Communication skills and entrepreneurship development.

iii) Agriculture (Subject Code-03)

Seed and seed technology, importance, types of seed and their production, processing, testing, certification and regulation. Cropping patterns and cropping systems in different agroclimatic zones of the country. Package of practices for the production of important cereals, pulses, oil seeds, fibre, sugar, fruits vegetables, ornamental, species and plantation crops grown in the country. Commercial production of crops under protected cultivation. Weeds, their association with crops and control in different crops.

Soil conservation. Integrated watershed management, Rainwater harvesting, Micro and Macro irrigation, Soil physicochemical and biological properties, problematic soils and their management. Organic manure/enriched compost, biofertilizers and integrated nutrient management, Organic farming. Soil health management.

Historical background of genetics. Physical and chemical basis of heredity. Mendelian genetics. Quantitative inheritance, linkage and crossing over. Sex linked inheritance and characters, Cytoplasmic inheritance, Chromosomal aberrations. Application of the principles of plant breeding to the improvement of major field and horticultural crops. Methods of breeding of self- and cross-pollinated crops. Heterosis and its exploitation. Utilization of mutation and polyploidy in breeding. Plant Biotechnology in crop improvement.

Pest and disease of field crops, fruits, vegetables, plantation crops, stored grains and other farm produce. Different means of management including pest and disease management.



Principles of agricultural economies, farm management and farm business. Agricultural extension and technology dissemination. Farm power and machinery.

iv) Food Technology (Subject Code-04)

Composition and nutritive quality of food, physical properties of food, physicochemical changes in food during processing and storage, functions of food nutrients, dietary allowances and nutritional requirements, food additives, types of containers, hermetic closures, contaminants and anti-nutritional factors; enzymes used in processing; causes of spoilage of food, role of intrinsic and extrinsic properties of food in relation to microbial growth, microbiology of food products; history and current status of food preservation, postharvest handling, transportation and marketing of food products, packaging, functions of packaging, packaging operations, packaging materials and package testing; storage of fresh food, principles and methods of food preservation-by heat, chemicals, mode of action of preservatives, low temperature, drying, irradiation, fermentation: preparation and manufacturing technology of cereals and bakery products, meat, fish egg, dairy products, processed fruits and vegetables, fats and oils, fermented foods, alcoholic and non-alcoholic beverages, engineering properties of food materials, mass and energy balance; principal operations and equipment for food materials-flow handling, cleaning, dehusking, sorting and grading, peeling, size reduction, mixing and forming, extrusion, separation, filtration and membrane processes, baking, roasting, frying, extraction and leaching, crystallization, distillation, blanching, pasteurization, sterilization, evaporation, packing, heat exchanging, dairy specific operations, process equipment design, heat and mass transfer, equipment for steam generation, compressed air, refrigeration and air conditioning, biochemical engineering, food plant layout and design, waste management, effluent treatment and environment pollution, waste solids upgrading and treatment, pesticide residues, heavy metals, adulterants, malpractices in food industry: quality assurance in food industry, food safety aspects, food pathogens and their toxins, food hygiene and safety regulations, food standards and regulations- FISSAL, ISO, HACCP, BIS and emerging technologies in food processing.

v) Biotechnology (Subject Code-05)

Characteristics of prokaryotic and eukaryotic organisms, differences between fungi, bacteria, mycoplasmas and viruses; Bright field Microscopy and specimen preparation, fixation, dyes. Simple staining and differential staining, prokaryotic cell structure, type of culture media and pure culture techniques, microbial growth general principles of bacterial genetics and DNA as genetic material. Importance of Biochemistry in Agriculture; Acid-base concept, buffer and pH; Classification, structure and metabolic functions of carbohydrates, lipids and proteins; Enzymes: structure, nomenclature, mechanism of action; vitamins and minerals as coenzymes and cofactors; Physical and chemical basis of heredity, chromosome structure; Structure and function of nucleic acids, DNA replication, operon concept, transcription, genetic code, translation; Genetic engineering, restriction enzymes, vectors, gene cloning, gene transfer; Plant cell and tissue culture; micro-propagation, soma clonal variation, Genetic transformation, recombination; Molecular and immunological techniques; Concept of bioinformatics, genomics and proteomics; General application of biotechnology; Metabolic pathways, glycolysis, TCA cycle, fatty acid oxidation and biosynthesis; Electron transport chain, ATP formation; Photosynthesis, non-cycle photophosphorylation, significance of C-3, C-4 and CAM pathways, photorespiration and its implication. Plant nutrients and their functions; Phyto-hormones and their physiological role. Colorimetric and chromatographic techniques.



vi) Bio-sciences (Medical) (Subject Code-06)

Chemistry

Inorganic Chemistry: Atomic structure, periodic properties, covalent bond, ionic solids, chemistry of noble gases, transition metal compounds, chemistry of Lanthanides and Actinides, co-ordination chemistry, acids and bases, metal-ligand bonding in transition metal complexes, magneto chemistry, thermodynamic and kinetic aspect of metal complexes, introductory analytical chemistry, organometallic compounds, bioinorganic chemistry, inorganic polymers and environmental pollution.

Organic Chemistry: Structure and bonding, basic concepts of organic reactions, stereochemistry of organic compounds, alkanes and cycloalkanes, alkenes and cycloalkenes, dienes and alkynes, Alk-I, Ary-I halides, Arenes and Aromaticity, polynuclear hydrocarbons, alcohols, phenols, ethers and epoxides, aldehydes and ketones, carboxylic acids and their derivatives, organic compounds of nitrogen, halonitroarenes, organomagnesium, organozinc, organolithium compounds, spectroscopy, NMR, photochemistry, heterochemistry, heterocyclic compounds, carbohydrates, amino-acids, peptides, proteins and nucleic acids.

Physical Chemistry: Gaseous state, critical phenomena, solid state, colloidal state, chemical kinetics and catalysis theories of chemical kinetics, catalysis, indication, thermodynamics, First, Second and Third Law of thermodynamics, thermochemistry, concept of entropy, free energy and work function, partial molar properties, solid solutions, fugacity and activity, the activity coefficient, ideal solutions and Raoult's Law, colligative properties, chemical equilibria, electrochemistry, applications of conductivity measurements, electrolytic and Galvanic cells, Elementary Quantum Mechanics, statistical thermodynamics, heat capacity of solids, spectroscopy, rotational, vibrational and electronic spectrum, photochemistry, molecular structure and physical properties.

Botany

Phycology and Microbiology: General characters, classification and economic importance, life history of *Volvox*, *Oedogonium*, *diatoms*, *Vaucheria*, *Ectocarpus* and *Olysiphonia*; Viruses and Bacteria- general account, structure, nutrition, reproduction and economic importance of Cyanobacteria: TMV, Citrus Canker, AIDS.

Mycology, Plant Pathology and Lichens: General characters, classification and economic importance and life history of *Albugo*, *Phytophthora*, *Rhizopus*, *Saccaromycetes*, *Eurotium*, *Neurospora*, *Peziza*, *Puccinia*, *Agaricus*, *Cercospora* and *Colletotrichum*. White rust, Early and Late Blight of Potato, Apple Scab, Loose smut and rust of Wheat, Red Rot of Sugarcane and general account of Lichens.

Bryophyta: Morphology, structure, reproduction and life history, distribution, classification and general account of Marchantiales, Jungermanniales, Anthocerotales, Sphagnales, Funariales and Polytrichales, economic and ecological importance.

Pteridophyta: Classification, morphology, anatomy and reproduction of Psilopsida, Lycopsidea, Sphanopsida and Pteropsida. Evolution of stele, heterospory and origin of seed habit, general account of fossil Pteridophytes

Reproductive biology, Gymnosperms and Angiosperms: Characteristics of seed plants, evolution of seed habit; fossil and living seed plants; General features, classification, evolution, diversity geological time scale, fossilization and fossil Gymnosperms; morphology of

vegetative and reproductive parts, anatomy of root, stem and leaf, secondary growth, reproduction and life cycle of *Pinus*, *Cycus* and *Ephedra*; Flower, significance of seed and vegetative reproduction; Origin, evolution taxonomy, , classification (Bentham and Hooker and Engler and Prantl), cytology, phytochemistry and taxometrics, families Ranunculaceae, Brassicaceae, Malvaceae, Rutaceae, Fabaceae, Apiaceae, Acanthaceae, Apocynaceae, Asclepiadaceae, Solanaceae, Lamiaceae, Chenopodiaceae, Euphorbiaceae, Liliaceae and Poaceae.

Cell biology and genetics: Structure and function of nucleus; chromosome organization; DNA, cell-division; genetic inheritance; gene expression; genetic variations; extranuclear genome; structure and functions of other organelles, the cell envelopes.

Plant physiology, biochemistry and biotechnology: Basics of enzymology; plant-water relations; mineral nutrition; transport of organic substances; photosynthesis; respiration; nitrogen and lipid metabolism; growth and development; genetic engineering and basic aspects of biotechnology.

Ecology and utilization of plants: Plants and environment; morphological, anatomical and physiological responses of plants to water; population and community ecology, Ecosystems; bio-geographical regions and vegetation types of India; general account of food plants (rice, wheat, maize, potato, sugarcane); fibres (cotton and jute); vegetable oils (groundnut, mustard and coconut); spices; medicinal plants, beverages (tea and coffee) and rubber.

Zoology

Invertebrates: General characters and comparison with chordates; protozoa; porifera; cnidaria; ctenophora; platyhelminthes, nemathelminthes; annelida; arthropoda; mollusca and echinodermata.

Chordata: Origin, general characters and classification of chordates up to orders; detailed study of *Balanoglossus*, *Herdmania*, *Amphioxus*, *Patromyzon*, *Scoliodon*, Frog, *Uromastix*, Pigeon and Rat; Functional anatomy of integumentary, skeletal, digestive, circulatory, respiratory and urino-genital nervous systems and sense organs.

Cell biology: Cell theory, diversity of cell size and shape; structure of Pro- and Eukaryotic cells; cell adhesions and junctions; ultrastructure of a typical animal cell; cellular energy transactions- role of mitochondria; membrane transport of small molecules and ionic basis of membrane excitability; cell differentiation and biology of cancer cells.

Developmental biology: Types of eggs; fertilization; cleavage; development up to gastrulation in *Amphioxus*, frog and chick; metamorphosis in frog; embryonic and extra embryonic membranes in birds and mammals; implantation, placenta in mammals; parturition and lactation.

Evolution: Brief account of Zoo- geographical regions; fossil types and their formation; types of evolution- parallel, convergent and divergent; sources and nature of variations; natural selection; isolatory mechanisms and their role in evolution; adaptations and adaptive radiations.

Biochemistry: Elementary idea of analytical and separation techniques; chemical nature of protoplasm; enzymes and co-enzymes; nature and function of co-enzyme A, Q, NAD, NADP, FMN and FAD; high energy compounds; intermediary metabolism- carbohydrates, lipids and proteins; migration of fishes and birds; Mesozoic reptiles; origin and flight mechanism of birds; poison apparatus of snakes.

Mammalian physiology: Nutrition, digestion and absorption; blood; heart; respiration; excretion; muscles; nervous; endocrines and reproductive system.

Environmental biology: Medical zoology- Arthropods as vectors of human diseases (malaria, filariasis and plague); brief account of diseases caused by pathogenic protozoa and helminthes; epidemic diseases such as typhoid, cholera and small pox, their occurrence and eradication

programme; human defence mechanism, antigens and antibodies, lymphoid tissue, allergies and AIDS; genetics- cloning and genetic engineering; environmental biology- concept of ecosystem and introduction to laws of limiting factors, energy flow of ecosystem, food chain, environmental pollution and green house effect; toxicity-classification of toxicants, toxic agents and their mode of action; brief account of api-, seri-, lac-, and pisci- culture; important wild life sanctuaries, national parks and reserves.

vii) Non-medical (Subject Code-07)

Mathematics

Number System, Complex Numbers, Set Theory, Matrices and Determinants & their applications, Solution of Quadratic, Cubic and Biquadratic Equations, Trigonometry, Functions, Limits and Continuity, Differential Calculus, Partial Differentiation, Applications of Derivatives, Ordinary Differential Equations, Partial Differential Equations, Power Series, Indefinite and Definite Integrals, Improper Integrals, Vectors, Plane and Solid Geometry, Convergence and Divergence of Sequences and Series, Metric Spaces, Riemann Integration, Groups, Rings, Fields, Vector Spaces, Linear Transformations, inner Product Spaces, Measures of Central Tendency and Dispersion, Elementary idea of Probability, Simple application of Numerical Analysis.

Physics

Basic ideas of statistical physics, Entropy and laws of thermodynamics, statistical interpretation of entropy. Maxwell's thermodynamics. Curl of a vector field. Electric potential, electric current and fields of moving charges. Magnetic field and electrostatic fields in matter. Introductory quantum mechanics, Quantum theory of hydrogen atom. Atom with one electron. Atom with many electrons. Molecules. Geometrical optics. Nature of Light. Interference of light. Diffraction. Polarization. Double diffraction and optical rotation. Laser. Spread sheet. Crystal structure. Crystal diffraction and reciprocal lattice. Crystal bonding. Lattice vibration. Free electron theory of metals. Band theory of solids. Nano-science. Super conductivity. Junction diodes. Crystal diode rectifiers and filters. Bipolar junction transistors and amplifiers and amplifiers. Feed back in amplifiers. Small signal amplifiers. Oscillators. Modulation and demodulation. Radio communication. Digital fundamentals. General properties of nuclei. Nuclear models. Radioactivity. Alpha, beta and gamma rays spectra. Nuclear reactions. Interaction of nuclear radiation with matter. Particle accelerators. Cosmic rays and elementary particles. Radiation detector.

Chemistry

Inorganic Chemistry: Atomic structure, periodic properties, covalent bond, ionic solids, chemistry of noble gases, transition metal compounds, chemistry of Lanthanides and Actinides, co-ordination chemistry, acids and bases, metal-ligand bonding in transition metal complexes, magneto chemistry, thermodynamic and kinetic aspect of metal complexes, introductory analytical chemistry, organometallic compounds, bioinorganic chemistry, inorganic polymers and environmental pollution.

Organic Chemistry: Structure and bonding, basic concepts of organic reactions, stereochemistry of organic compounds, alkanes and cycloalkanes, alkenes and cycloalkenes, dienes and alkynes, Alk-I, Ary-I halides, Arenes and Aromaticity, polynuclear hydrocarbons,

alcohols, phenols, ethers and epoxides, aldehydes and ketones, carboxylic acids and their derivatives, organic compounds of nitrogen, halonitroarenes, organomagnesium, organozinc, organolithium compounds, spectroscopy, NMR, photochemistry, heterochemistry, heterocyclic compounds, carbohydrates, amino-acids, peptides, proteins and nucleic acids.

Physical Chemistry: Gaseous state, critical phenomena, solid state, colloidal state, chemical kinetics and catalysis theories of chemical kinetics, catalysis, indication, thermodynamics, First, Second and Third Law of thermodynamics, thermochemistry, concept of entropy, free energy and work function, partial molar properties, solid solutions, fugacity and activity, the activity coefficient, ideal solutions and Raoult's Law, colligative properties, chemical equilibria, electrochemistry, applications of conductivity measurements, electrolytic and Galvanic cells, Elementary Quantum Mechanics, statistical thermodynamics, heat capacity of solids, spectroscopy, rotational, vibrational and electronic spectrum, photochemistry, molecular structure and physical properties.

viii) Microbiology (Subject Code-08)

History and development of Microbiology, Broad Classification of microorganisms and their place in living world, Distinguishing feature of major groups of microorganisms: bacteria, fungi and virus. Microscope: Light microscope, Electron microscope, Microscopy: bright field microscopy, dark field microscopy, fluorescent microscopy, phase contrast microscopy, Electron microscopy. Prokaryotic cell structure and function, size, shape, capsule, cell wall, cell membrane, cell organelles. Cultivation of bacteria. Growth of bacteria, different type of media and nutrition, estimation. Pure culture technique and cultural characteristics. Reproduction of microorganisms. General properties of virus and bacteriophages. General principles of bacterial genetics, DNA as genetic material, Transformation, Transduction, Conjugation, General concept of mutation and mutagens, Mendel's law of inheritance, Intermicrobial and intramicrobial association: Symbiosis and antibiosis.

ix) Biochemistry (Subject Code-09)

Definition, importance in agriculture. **Acid Base Concept-** buffer, pH

Carbohydrates- Definition, Classification, Structures, function, physical and chemical properties.

Lipids- Definition, Classification, Structures of important fatty acids and triglycerides, Physical properties, Acid Value, saponification value, iodine value. Phospholipids- Types and importance. Structure of Cholesterol. **Amino Acids-** Classification, Structure of essential amino acids. Properties and reactions of amino acids, acid base behavior, reaction with Ninhydrin, Sanger's reaction, peptides. **Proteins-** Classification on basis of solubility of function, Structure of proteins- primary, secondary, tertiary and quaternary. **Enzymes-** Definition, cofactor, Classification, specificity. Mechanism of action, factors effecting rate of enzyme catalyzed reaction, isoenzymes. **Vitamins-** their biochemical role. **Carbohydrate Metabolism-** Glycolysis under aerobic and anaerobic conditions, ATP yield. TCA Cycle- Reactions and ATP yield. **Lipid Metabolism-** Oxidation and Biosynthesis of fatty acids. **Protein Metabolism-** Proteolytic enzymes, Transamination and deamination reaction. **Respiration:** Electron Transport chain and oxidative phosphorylation, Bioenergetics of glucose and fatty acids. **Photosynthesis-** Structure and function of chlorophyll and carotenoids, Noncyclic-Photophosphorylation, Cyclic Photophosphorylation, Calvin cycle, Photorespiration and its implication. **Biological Nitrogen Fixation,** Nitrogenase, ammonia assimilation and transport in ureides and amide plants, role of leghaemoglobin. **Nucleic acids-** Components,

Differences between DNA and RNA, Types of RNAs, DNA structure Watson and Crick model, A and Z-DNA, DNA Replication, Transcription, Genetic Code, Translation. **Recombinant DNA Technology**- Definition, Restriction endo-nucleases, gene amplification through PCR, Vectors, Integration of DNA insert into vector and expression.

x) Environmental Science (Subject Code-10)

History and scope of environmental science, importance of environmental science, global environmental problems, environmental issues in India, environmental ethics; Man-environment relationships; Principles of ecology, ecosystem concept, biotic and abiotic components of ecosystem, ecological pyramids, food chain, food web, and trophic levels, ecological niches, flow of energy in an ecosystem; Major ecosystems of the world; Biogeochemical cycles; Natural resources: concepts, types and conservation; Environmental components: structure and composition of the atmosphere, hydrosphere, biosphere and lithosphere; Biodiversity: concept, origin, values, measurement, threats and conservation; Wildlife and forest management; Agroforestry and social forestry; Environmental pollution-sources, types, effects, control, sampling, measurements, and quality standards; Human population dynamics; Environmental Impact Assessment (EIA) and environmental economics; Waste: types, sources and management; Disaster and their management; Survey, photography, mapping and interpretation, principles of remote sensing and GIS; Collection, tabulation, classification and statistical analysis of data; Environmental legislations; Agencies, conventions, declarations and peoples' movement related to environment and climate change.



Proforma For Refund Of the Fees

Date of submission of application for fee refund

Degree Programme (Undergraduate or Master's).....

Roll No allotted by the University.....

Name of the Candidate.....Contact No.....

Father's Name.....

College allottedStream allotted-.....

Fee deposited in Rs.

Date of Transaction.....

Transaction No.....

Account Number in which fee refund is required.....

Name of Account HolderIFSC Code.....

Branch.....

Signature

Note: Kindly attach

1. **The Selection letter issued during the counselling.**
2. **A clear screenshot of the transaction showing the amount, transaction number, and the date of the transaction. Candidates are advised to send an email with the following details to the Deans of the concerned College with the subject titled 'Refund for Admission Fee for Undergraduate/Master's Degree Programme.' Please use the respective email ID**

Following are the email IDs

S.N	College	Email ID
1.	Dean College of Horticulture, Nauni (Solan)	deancoh@yspuniversity.ac.in
2.	Dean College of Forestry, Nauni (Solan)	deancof@yspuniversity.ac.in
3.	Dean College of Horticulture & Forestry, Neri (Hamirpur)	deancohf@yspuniversity.ac.in
4.	Dean College of Horticulture & Forestry, Thunag (Mandi)	deancohthunag@yspuniversity.ac.in



Specimen Of Certificates To Be Supplied By The Candidate For Claiming Reservation

Form-I

CERTIFICATE OF SCHEDULED CASTE

Tehsildar _____

District _____

SEAL

It is certified that _____ son/ daughter of Shri _____ resident of village/ town _____ Post office _____ Tehsil _____ District _____ of Himachal Pradesh State belongs to _____ caste which is recognized as Schedule Caste.

Shri _____ and his/ her family ordinarily reside in village/ town _____ Post office _____ Tehsil _____ District _____ of Himachal Pradesh.

Date _____

Executive Magistrate

FORM-II

CERTIFICATE OF SCHEDULED TRIBE

Tehsildar _____

District _____

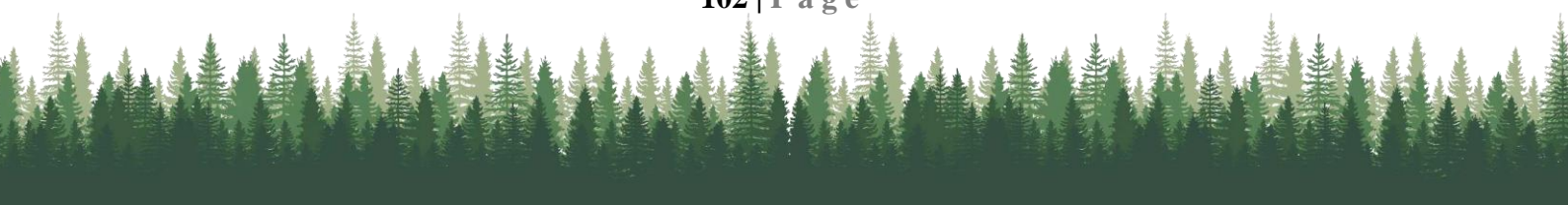
SEAL

It is certified that _____ son/ daughter of Shri _____ resident of village/ town _____ Post office _____ Tehsil _____ District _____ of Himachal Pradesh State belongs to _____ which is recognized as Schedule Tribe.

Shri _____ and his/ her family ordinarily reside in Village/ town _____ Post office _____ Tehsil _____ District _____ of Himachal Pradesh.

Date _____

Executive Magistrate



Form-III

Tehsildar _____

District: _____

SEAL

CERTIFICATE OF OTHER BACKWARD CLASSES

It is certified that Sh./Ms. _____ Son/Daughter of
Sh. _____ resident of _____ Post
Office _____ Tehsil _____ District _____ belongs
to _____ community which is recognized as Other Backward Caste in
Himachal Pradesh by Government.

Shri/Ms. _____ and her/his family ordinarily reside in
Village _____ P.O. _____ Tehsil _____
District _____ of Himachal Pradesh.

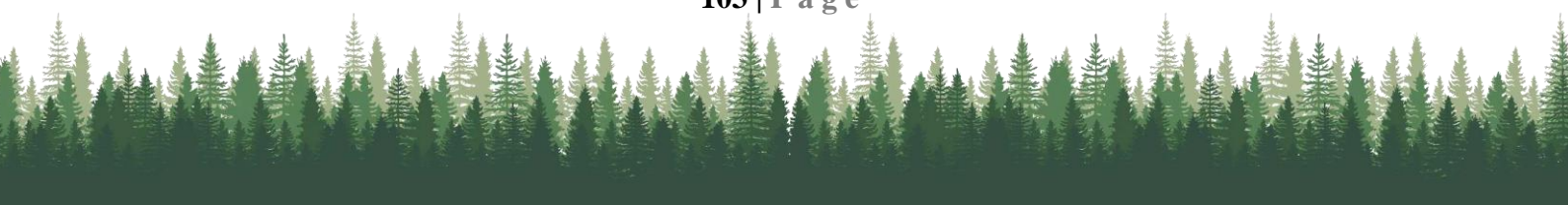
This also to certify that he/she does not belong to the persons/Section (Creamy Layer)
mentioned in the schedule.

Date: _____

District Magistrate/
Executive Magistrate

NB:

- a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the Peoples Act, 1950.
- b) Where the Certificates are issued by Gazetted Officers of the Union Government or State Governments, they should be in the same form but **counter-signed** by the District Magistrate or Deputy Commissioner (Certificates issued by Gazetted Officers and not attested by District Magistrate/Deputy Commissioner are not sufficient)



Form-IV

Certificate to be produced by the ward of Economically Weaker Section

Government of Himachal Pradesh

(Name and Address of the authority issuing the certificate)

INCOME & ASSET CERTIFICATE TO BE PRODUCED BY ECONOMICALLY WEAKER SECTIONS

Certificate No. _____

Dated: _____

VALID FOR THE YEAR _____

1. This is to certify that Shri/Smt./Kumari _____ son/daughter/wife
_____ permanent resident of village/town _____
Post Office _____ District _____ in the State of Himachal
Pradesh, Pin Code _____ whose photograph is attested below belongs to Economically
Weaker Sections, since the gross annual income* of his/her family** is below Rs. 4.00 Lakh
(Rupees Four Lakh only) for the financial year. His/her family does not own or possess any of the
following assets***.

I. More than 1 hectare of Agricultural Land in rural areas and 500 M2 land in urban areas;

II. Residential flat/ house of more than 2500 square feet in rural/ urban areas

III. Family of income tax payee,

IV. Family of Regular/ Contract employees of the Central Government, State Government,
Board, Corporations and autonomous bodies and Public Sector Undertakings etc;

2. Shri/Smt./Kumari _____ belongs to the _____ caste which is not recognized
as a Scheduled Caste, Scheduled
Tribe and Other Backward Classes.

Recent Passport size
attested photograph
of the applicant

Signature with seal of Office

Name

Designation

*Note 1: Income covered all sources i.e. salary, agriculture, business, profession etc.

**Note 2: The term "Family" for this purpose will include the person who seeks benefit of reservation, his/her parents and siblings below the age of 18 years as also his/her spouse and children below the age of 18 years.

***Note 3: The property held by a "Family" in different locations or different places/cities have been clubbed while applying the land or property holding test to determine EWS status.

Form-V
Government of Himachal Pradesh
(Name & Address of the authority issuing the certificate)

NON-SC/ST/OBC CERTIFICATE TO BE PRODUCED BY THE CANDIDATE BELONGING TO B.P.L. CATEGORY

Certificate No.....

Dated.....

This is to certify that Shri /Smt./Kumari _____son/ daughter/wife
of _____ permanent resident of Village/town _____ Post Office
_____ District _____ in the State of Himachal Pradesh, Pin
Code _____ whose photograph is attested below belongs to the _____ caste which is not
recognized as a Scheduled Caste, Scheduled Tribe and Others Backward Classes in the State.

Recent Passport
size attested
photograph of the
applicant

Signature with seal of Office

Name

Designation

Form-VI

Certificate for the Ward of Displaced family

PROFORMA OF THE CERTIFICATE FOR THE WARDS OF DISPLACED FAMILY

Certified that _____ son/ daughter of
Shri _____ son/ legal heir of
Shri _____ resident of Village _____ Post
Office _____ Tehsil _____ District
_____ whose land comprised of Khata No./Khatauni No. _____
Khasra No. _____ area _____ was acquired for the establishment
of the Dr Yashwant Singh Parmar University of Horticulture & Forestry, Nauni, Solan (HP)

Tehsildar, Solan

PROFORMA OF THE AFFIDAVIT/ UNDERTAKING TO BE FURNISHED FOR ADMISSION AGAINST SEAT RESERVED FOR WARDS OF DISPLACED FAMILY

Affidavit by Parent

I _____ son/ daughter of Shri _____
resident of Village _____, Post Office _____ Tehsil _____
District _____ Himachal Pradesh do hereby undertake that my son/ daughter
_____ has applied for admission to Undergraduate Programme in the Dr
Yashwant Singh Parmar University of Horticulture & Forestry for the Academic Session 2025-
26 and that the benefit of reservation available for the wards of displaced families has never
been extended to any member of my family. I also affirm that in case the declaration is found
to be untrue, I am aware that the admission of my son/ daughter is liable to be cancelled.

Declared, this _____ day of _____ month of _____ year.

Signature of the deponent
Name _____

Form-VII

CERTIFICATE FOR ORPHAN CANDIDATE

This is to certify that Mr./Ms. _____, born on _____, and residing at _____, is an orphan. His/Her parents, Sh. _____, passed away on _____, and Smt. _____, passed away on _____.

Date: _____

Place: _____

(Signature of SDM / Tehsildar)

Rubber Stamp & Seal of Signing Authority

Name: _____

Designation: _____

Office Address: _____

Form-VIII

CERTIFICATE TO BE PRODUCED BY THE SINGLE GIRL CHILD BELONGING TO HP

Certified that Ms./Kumari _____ Daughter of Shri _____ and Smt. _____, Resident of Village _____ Post Office _____ Tehsil _____, District _____ (Himachal Pradesh) is single girl child of her parent.

Date:

Signature

Designation with seal of the Certificate issuing authority

NOTE

This certificate should be signed by the Sub-Divisional Magistrate/ Executive Magistrate/ Tehsildar/Block Development Officer of the area concerned to which the parents of the candidate belong. It should be signed and not countersigned.

Doubtful certificate will be got verified through the intelligence source and if found wrong will render the student liable to expulsion and suitable legal action.

Form-IX

Certificate to be produced by the Ward of Freedom Fighter

The form of certificate to be produced by the children/grandchildren of the Freedom Fighter to be issued by the Deputy Commissioner/S.D.O. (Civil).

Certified that Shri/ Kumari _____ Son /Daughter of
Sh. _____ Village _____ Panchayat _____
Tehsil _____ District _____ Himachal Pradesh is a Child /Grand Child of
Shri _____ who is/was a freedom fighter in terms of the Government of
India OR Himachal Pradesh Government Letter
No. _____ Dated _____ and has been
granted Pension under Government of India Freedom Fighter Pension Scheme-1972/1980
or
Himachal Pradesh Freedom Fighters Financial Assistance Scheme -1985,
or
Declared as Freedom Fighter after death.

Deputy Commissioner /
SDO(Civil) _____
Dated _____
District _____
H.P.



FORM-X

WARDS OF SERVING/ EX-DEFENCE PERSONNEL

Certified that _____ son/daughter of Shri
_____ who is serving/ ex-defence personnel belongs to Village/ town
_____ Post office _____ Tehsil _____ District _____ and his rank is/ was
_____ .

Signature with Stamp
**Commanding Officer/
Deputy Director, Zila Sainik Board**

FORM-XI

WARDS OF SERVING/ RETIRED CAPFs PERSONNEL

Certified that _____ son/daughter of Shri
_____ who is serving/ retired personnel of _____
(Name of Central Armed Police Forces) belongs to village/ town _____ Post
office _____ Tehsil _____ District _____ and his/ her rank
is/ was _____ .

Signature with Stamp
Commanding Officer



FORM-XII

SPECIMEN OF CERTIFICATE TO BE SUPPLIED BY THE CANDIDATES FOR CLAIMING RESERVATION FOR RURAL AREA SEATS

CERTIFICATE OF RURAL AREA

It is certified that _____ son/ daughter of Shri _____ has passed his/ her (i) 8th Class from Middle/High/ Senior Secondary School, _____ (Name of the place) (ii) 10th Class from High/ Senior Secondary School, _____ (Name of the place) (iii) 10+2 class from Senior Secondary School, _____ (Name of the place) which is located outside the limits of Municipal Corporation/ Municipal Council/ Nagar Panchayat/ Cantonment Board/ Notified Area Committee. This school is affiliated to Himachal Pradesh Board of School Education, Dharamsala.

Signature with stamp
Executive Magistrate/ Principal/ Head Master of the School

Note: Candidates must submit the original certificate, duly signed and with the original seal of the issuing authority. The certificate must be presented at the time of counselling; photocopies or unsigned documents will not be accepted.



Declaration To Be Filled By The Candidates After Admission

I _____ aged _____ years son/daughter of Sh./Smt.

_____ R/o _____

hereby declare that :

1. I shall not make any form of abuse of narcotic drugs or psychotropic substances while being a student of this University.
2. I shall bring into the notice of authorities designated by the University for this purpose, the incidence of any illicit drug or substance abuse occurring within the University campus which might have come to his /her knowledge and also about any drug dealer/peddler who according to his/her information is carrying out or is trying to carry out his activities related to supply of illicit drugs within the University Campus.
3. If I am found with illegal drugs in the University campus, I will have no objections to expelling me from the University at any time.

Declaration: I _____ aged _____ years, Son/Daughter of
Sh. _____, R/o _____
hereby declare that the contents of the above declaration have been issued
by me at my own will and I have concealed nothing therefrom.

Signed on this _____ day of _____ (Month/Year).

Signature

Countersigned

Parents/Guardian



Academic Calendar for the Academic Session 2025-26

Sr. No.	Particulars	1 st Semester	2 nd Semester
1.	Registration of fresh admitted students in 1 st and 2 nd counselling	04.08.2025 & 05.08.2025	-
2.	Registration of continuing students in person (without late fee)	04.08.2025 & 05.08.2025	16.01.2026 & 17.01.2026
3.	Registration of continuing students in person (With late fee)	06.08.2025 & 07.08.2025	19.01.2026 & 20.01.2026
4.	Registration of Inservice/NEC Quota/ Foreign Nationals candidates in person (without late fee)	04.08.2025 & 05.08.2025	-
5.	Registration of Inservice/NEC Quota/ Foreign Nationals candidates in person (with late fee)	06.08.2025 & 07.08.2025	-
6.	Commencement of classes	07.08.2025	20.01.2026
7.	Registration of fresh students admitted in the 3 rd counselling	13.08.2025 to 14.08.2025	-
8.	Addition of courses	18.08.2025	02.02.2026
9.	Withdrawal of courses without charges	18.08.2025	02.02.2026
10.	Mid-semester examination	06.10.2025 to 18.10.2025	23.03.2026 to 01.04.2026
11.	Withdrawal of courses with charges	27.10.2025	08.04.2026
12.	Cultural activities	18.10.2025 to 20.10.2025	-
13.	Sports Meet	-	28.04.2026 to 30.04.2026
14.	Diwali holidays	19.10.2025 to 23.10.2025	-
15.	End-semester examination	19.12.2025 to 31.12.2025	18.06.2026 to 30.06.2026
16.	Semester break	01.01.2026 to 15.01.2026	01.07.2026 to 02.08.2026
17.	Last date for submission of results through AMS		
	i) Instructor of Dean/ HoD	07.01.2026	06.07.2026

	ii) Dean to Registrar	13.01.2026	13.07.2026
18.	Compilation of result	15.01.2026 to 18.01.2026	15.07.2026 to 18.07.2026

NOTE:

- (i) If the date fixed happens to be a holiday, the next working day will be considered as the date fixed for a particular purpose.
- (ii) The classes will remain suspended during the Mid-term Examinations and End-term Examinations.

