

Atul Gupta P.A.
S.V.B.P.U.A. & T., Meerut

Proceeding of xxii meeting of the Academic Council held on 12.12.2005



Sardar Vallabh Bhai Patel University
of Agriculture & Technology,
Meerut -250 110

Sardar Vallabh Bhai Patel University of Agriculture & Technology
Meerut – 250 110

PROCEEDING OF XXIIth MEETING OF ACADEMIC COUNCIL HELD ON DECEMBER 12, 2005

Following were Present

1	Dr. I.B. Singh	Vice-Chancellor/ Chairman
2	Dr. Narendra Sharma	Registrar/ Secretary
3	Dr. Y.P. Singh	Prof. & Head (Animal Science)/ DSW
4	Dr. S.C. Sirohi	Prof. & Head (Horticulture)/ Actg. Dean Ag.
5	Dr. Devi Singh	Prof. (Genetics & Plant Breeding)
6	Dr. O.P. Singh	Actg. Director Extension
7	Dr. Brijendra Singh	Prof. & Head (Agric. Economics & Mgt.)/ DAM
8	Prof. Samsher	Prof. & Head (Agric. Engg. & Food Technology)
9	Dr. N.S. Rana	Prof. & Head (Agronomy)
10	Dr. V.K. Yadav	Prof. & Head (Basic Science)/ OIC, College of Biotechnology
11	Dr. R.R.P. Chaudhary	C.T.O. / Jt. Director Extension
12	Dr. L.R. Singh	Prof. (Agronomy)
13	Dr. B. Ram	Prof. (Soil Science)/ CPO
14	Dr. R.D. Sharma	Prof. (Soil Science)
15	Dr. S.K. Tomar	Prof. (Plant Breeding)
16	Dr. Raghuvir Singh	Prof. (Agronomy)
17	Dr. Ashok kumar	Prof. (Soil Science)
18	Dr. P.L. Saroj	Prof. (Horticulture)
19	Dr. S.A. Kerkhi	Assoc. Prof. (Genetics & Plant Breeding)

The Hon'ble Vice-chancellor chaired the meeting, the following agenda were discussed and finalized.

Agenda 1 Confirmation of minutes of XXIth Academic Council meeting held on 29th August 2005

The minutes of XXIth Academic Council held on 29th August 2005 were confirmed.

Agenda 2 Refund of students fees (Registration/Re-registration fees) under Distance Education programme in compliance of the order of his excellency, the governor of U.P.

Proposal was discussed and most of the members agreed with the proposal and mode of the payment. Dr. B.S. Chaudhary was of the opinion that the proposal should be put up for information only, not for approval when Hon'ble Governor has already passed an order. The proposal approved by the Academic Council is as below.

- 1 Registration /re-registration fees of the students will be refunded by the university @25% of the share in M/s KCC programmes and @ 30% of the share in M/s CENITECH, programmes for only those students who registered during academic session 2004-05 and calendar session 2005 under distance education programmes where university has already paid share to the concerned collaborator. However, in case of student fees where university has not yet released any share to the concerned collaborator, in such cases, the full amount of fees shall be refunded by the university to the students.
- 2 Collaborator's share in students fees for the academic session 2004-05 and calendar session 2005 shall be refunded by the concerned collaborator @ 75% by M/s KCC. Software Ltd., New Delhi and @ 70% by M/s CENITECH, Hyderabad to the students.
- 3 Student's fees shall be refunded directly to the students on their correspondence address in the form of bank draft/pay order through registered post.
- 4 Authorization fees once received by the university will not be refunded to the study centers.

Agenda 3 Proposal for approval of format of certificates given by the university to the students.

Regarding the proposal, all members discussed and finalized the format of certificates given by the university. Dr. N.S. Rana further suggested that the students documents should be maintained at two levels one in the Registrar's office and other in the Dean's office of respective college. The council however, decided that the students documents and record be maintained only in the Registrar's office atleast for the time being since the university has shortage of staff for maintaining the record at more than one office.

**SARDAR VALLABH BHAI PATEL UNIVERSITY OF AGRICULTURE &
TECHNOLOGY, MEERUT - 250 110 (INDIA)
OFFICE OF THE REGISTRAR**

NAME: Ad. No.: Father's Name : Sri Mother's Name : Smt.	Degree Programme: B.Sc. Ag Admitted in : Degree Completed : Last Institution attended prior to admission to this University:
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COLLEGE OF AGRICULTURE

Course Number	Title of the Course	Cr. Hr.	Points	Course Number	Title of the Course	Cr. Hr.	Point
BCP-110	Elements of Physics	2		APA-220	Environmental Sci. & Agro-Ecology	3	
BP-110	Elements of Organic Chemistry	3		APA-370	Practical Crop Production	4	
APA-110	Elementary Agriculture	3		BHS-210	Rural Sociology & Edn. Psychology	2	
BE-110	Elementary Biology	4		APA-210	Elementary Crop Physiology	3	
BPM-110	Elementary Mathematics	3		APS-340	Cons. & Mgt. of Soil & Water Res.	3	
BH-210	Structural & Spoken English	2		APH-330	Ornamental Horticulture	3	
BFM-210	General Economics	2		APP-220	Mushroom Cultivation	1	
PA-320	Weed Management	2		AEM-330	Agri. Crop Finance & Business Management	3	
PS-320	Fundamental & Soil Science	3		ACD-320	Comm. & Diff. of Agril. Innovation	3	
ET-310	Farm Machinery & Power	3		APA-320	Irrigation Water Management	3	
PS-210	Elementary Statistics	2		APA-360	Silviculture & Agro-Forestry	3	
BC-110	Elementary Plant Biochemistry	3		AGP-340	Seed Production & Technology	3	
PS-210	Agril. Microbiology	3		AET-330	Elements of Food Technology	3	
GT-310	Elements of Genetics	3		AET-340	Post Harvest Management & Processing of Fruits & Vegetables	3	
PE-310	Introductory Entomology	3		APA-350	Rain-fed Agriculture	2	
PP-310	Introductory Plant Pathology	3		APA-380	Farming System & Sustainable Agriculture	2	
EM-310	Agril. Marketing & International Trade	3		AET-320	Post Harvest Engineering	2	
PA-310	Principle of Agronomy	3		ARE-390	Rural Agric. Work Exp. (RAWE)	20	
HE-110	Elementary English	2		NSS-210	NSS	2	
PO-310	Computer Application	2		AWP-110	Work Programme	1	
GP-320	Introduction to Plant Breeding	3					
PS-330	Soil Fertility, Fert. & INM	3			Group Restricted Course		
AH-310	Breeding & Improvement of Farm Animals	3					
PE-320	Economic Entomology	3					
EM-320	Farm Management & Natural Resources & Economics	3			Additional Course		
PA-310	Crop Production - I (Kharif)	3					
AH-320	Principles of Animal Nutrition	3					
GP-330	Breeding of Field Crops	3					
PH-310	Fundamentals of Horticulture	3					
PP-330	Crop Diseases & their Management	3					
PE-330	Insect-Pests & their Management	3					
PA-341	Crop Production II (Rabi)	3					
PS-310	Introductory Agro Meteorology	2					
BT-210	Introduction to Plant Biotechnology	2					
ET-350	Human Food & Nutrition	2					
PH-320	Fruit & Plantation Crops	3					
AH-330	Live Stock & Poultry Management	3					
PH-340	Vegetable Production	3					
CD-310	Fundamental of Ext. Edn. & Rural Development	3					



**Sardar Vallabh Bhai Patel University of Agriculture & Technology,
Meerut - 250 110 (INDIA)**

Office of the Registrar

Name: Mr./Miss Id. No. : Father's Name : Sri. Mother's Name : Smt.	Degree: M.Sc. Ag. Major: Minor: Month of Completion: Last Institution attended prior to admission to this University:
College of Post Graduate Studies	Thesis submitted on: (dd-mm-yyyy) Date of Viva-Voce: (dd-mm-yyyy)

Course Number	Title of Course	Cr. Hr.	Points	Course Number	Title of Course	Cr. Hr.	Points
	Ist Sem. (200...-200...)						
	IInd Sem (200...-200...)						
	Ist Sem. (200...-200...)						
	IInd Sem. (200...-200...)						
	Thesis Title -			Overall Grade Point Average out of 10.000 (Division -) % of Marks. CONDUCT: SATISFACTORY / UNSATISFACTORY			

Prepared by Checked by
 Date:

REGISTRAR

Book No. B.Sc. Ag

RECORD COPY

401 Sardar Vallabh Bhai Patel
University of Agriculture & Technology
Modipuram, Meerut - 250110



OFFICE OF THE REGISTRAR
PROVISIONAL DEGREE CERTIFICATE

This is to certify that Sri/Km./Smt. _____
Id. No. _____ has successfully completed the graduation
requirements for the degree of B. Sc. Ag. of this University in the month of _____
with an Overall Grade Point Average of _____ % of
Out of 10,000 (Division) _____ marks.

Prepared by: _____
Checked by: _____
Dated: _____

REGISTRAR

Book No. B. Sc. Ag

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Modipuram, Meerut - 250110



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Checked by: _____
Dated: _____

REGISTRAR

Book No. B. Sc. Ag

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Dated: _____

REGISTRAR

401 Sardar Vallabh Bhai Patel
University of Agriculture & Technology

Modipuram, Meerut - 250110



OFFICE OF THE REGISTRAR
PROVISIONAL DEGREE CERTIFICATE

This is to certify that Sri / Km. / Smt.....
I.D. No..... has successfully completed the graduation requirements
for the degree of B. Tech (Bio-Tech.).....
of this University in the month of with an Overall
Grade Point Average of out of 10.000 (..... Division
with Distinction)..... % of marks

Prepared by:.....
Checked by:.....
Dated:.....
REGISTRAR

401 Sardar Vallabh Bhai Patel
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of this University in the month of with an Overall
Grade Point Average of out of 10.000 (..... Division
with Distinction)..... % of marks

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Dated:.....
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Grade Point Average of out of 10.000 (..... Division
with Distinction)..... % of marks

Prepared by:.....
Checked by:.....
Dated:.....
REGISTRAR



OFFICE OF THE REGISTRAR
PROVISIONAL DEGREE CERTIFICATE

This is to certify that Sri/Km./Smt.
ID. No. has successfully completed the requirements of course
work and thesis for the degree of
with Major
Minor (s)
of this University in the month of with an Overall
Grade Point Average of out of 10.000. (Division
(..... % of marks)
Prepared by:
Checked by:
Dated:
REGISTRAR



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work and thesis for the degree of
with Major
Minor (s)
of this University in the month of with an Overall
Grade Point Average of out of 10.000. (Division
(..... % of marks)
Prepared by:
Checked by:
Dated:
REGISTRAR

Sardar Vallabh Bhai Patel
University of Agriculture & Technology
Modipuram, Meerut - 250110



OFFICE OF THE REGISTRAR
PROVISIONAL DEGREE CERTIFICATE

This is to certify that Sri/Km./Smt. I D No. has successfully completed the requirement for the degree of **Doctor of Philosophy** and Minor(s) of this University in the month of out of 10,000 (% of marks) with an Over-all Grade Point Average of % of marks

Prepared by:
Checked by:
Dated:

REGISTRAR

Sardar Vallabh Bhai Patel
University of Agriculture & Technology
Modipuram, Meerut - 250110



OFFICE OF THE REGISTRAR
PROVISIONAL DEGREE CERTIFICATE

This is to certify that Sri/Km./Smt. I D No. has successfully completed the requirement for the degree of **Doctor of Philosophy** and Minor(s) of this University in the month of out of 10,000 (% of marks) with an Over-all Grade Point Average of % of marks

Prepared by:
Checked by:
Dated:

REGISTRAR

Sardar Vallabh Bhai Patel
University of Agriculture & Technology
Modipuram, Meerut - 250110



OFFICE OF THE REGISTRAR
PROVISIONAL DEGREE CERTIFICATE

This is to certify that Sri/Km./Smt. I D No. has successfully completed the requirement for the degree of **Doctor of Philosophy** and Minor(s) of this University in the month of out of 10,000 (% of marks) with an Over-all Grade Point Average of % of marks

Prepared by:
Checked by:
Dated:

REGISTRAR

No.

**Sardar Vallabh Bhai Patel
University of Agriculture & Technology,
Modipuram, Meerut -250 110**



Migration Certificate

This is to certify that Sri./Ms.
..... ID. No. was a student of this
University from to
for degree programme.

2. He/She has completed the degree programme in
..... He/She has left the University
without completing the degree programme.
3. This University has no objection to his/her joining any other Institution.

Meerut
Dated:

Registrar

**Sardar Vallabh Bhai Patel
University of Agriculture & Technology,
Meerut (U.P.) – 250 110**



OFFICE OF THE REGISTRAR

No.SVBP/200..../R/.....

Dated:200...

To Whom It May Concern

This is to certify that Shri./Km.
Id No. was a student of this University fromto
..... 200.... for the degree of which he/she
successfully completed with an O.G.P.A. of out of 10.000

It is also certified that :-

- i) He/She has not taken part in any activity subversive of the rules, regulations and discipline of the Institution.
- ii) He/She has never used unfairmeans in any examination of the University.

During the above period of his/her study in this University his/her conduct has been good and to the best of my knowledge he/she bears a good moral character.

Registrar

Agenda 4 The Proposal for approval of information bulletin for the academic session 2006-07 along with notice for entrance examination for the year of 2006.

The proposal proposed by the Registrar was discussed and approved as per given below. Regarding addition of two centres for entrance examination of the university, the decision was taken to include two additional centres at Allahabad and Agra.

Regarding the paid seats, Dr. N.S. Rana proposed that there should not be paid seats in the university. He also cited the example of Pantnagar University where paid seats have been abolished. The house did not agree with Dr. N.S. Rana's proposal. However, this may be considered in future, in view of UGC/ICAR guidelines, if any.

Regarding the qualification for Ph.D. in Genetics and Plant Breeding, Dr. Devi Singh, HOD proposed that for the department of Genetics and Plant Breeding, the qualification should also be M.Sc. Ag. (Botany). But it was decided by the Council that a written proposal should come through the concerned Dean and put up in the next Academic Council for discussion.

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IMPORTANT INSTRUCTIONS FOR CANDIDATES

- 1 Candidates are advised to read and understand the instructions given in the INFORMATION BULLETIN very carefully before filling the Application Form. The Application Form must be completed in all respects. Incomplete application shall be out – rightly rejected and fee deposited will be forfeited.
- 2 Separate application is to be submitted for each degree programme.
- 3 Attested copies of all documents should be enclosed along with application form. All original documents will have to be produced at the time of counselling.
- 4 Concealing of any information will be treated as misconduct and action will be taken as per rules of the university.
- 5 All admissions shall be made provisionally and the Vice-Chancellor reserves the right to cancel any admission granted to a candidate without assigning any reason.
- 6 Application should be filled-up very neatly and clearly by the candidate in his/her own handwriting. Overwriting / cutting etc. on the application form shall not be allowed.
- 7 Last date for submitting the application form is 24-4-2006. Applications received after this date shall not be entertained.
- 8 The applicant should fully ensure before dispatching the application whether he fulfills the eligibility requirement for admission / appearing in the Entrance Examination as the fees once paid shall not be refunded in the event of rejection.
- 9 Applicant is advised to clearly mention his/her permanent as well as mailing address.
- 10 The decision of the Admission Committee in the Entrance Examination/Admission shall be final.
- 11 Using unfair means in the examination shall be dealt according to the University Rules.
- 12 Candidates seeking reservation must clearly mention their category / subcategory in Column No. 6 and 7 of the Application Form and Answer Sheet.
- 13 Candidates should deposit the fee through bank draft or by cash at the university counter.
- 14 After the examination is over, the candidate will be responsible to hand over his/her answer sheet to the invigilator otherwise his / her answer sheet / candidature shall be rejected.
- 15 The rough work will be done only on the question paper. For this purpose, neither he / she will be given any separate paper nor he / she will use any his/her own paper. Only Admit Card will be allowed in the examination hall.
- 16 The University will not be responsible for any postal delay.
- 17 The Application Form and recent photograph should be duly attested essentially by the Principal, Incharge of the Examination Centre.
- 18 Scrutiny / Re-evaluation of answer sheet of entrance examination will not be allowed.
- 19 Admit Card will be sent by post. In case, Admit Card is not received upto 08-5-2006, Duplicate Admit Card can be obtained from Registrar's Office by depositing Rs. 100.00 only.
- 20 A candidate who has been punished at any time in his / her earlier academic career for having taken part in activities of indiscipline or used unfair means during examination will be refused for admission. In case, he/she secures admission by concealing facts or by any mistake of office, the admission will be cancelled as and when detected.

Address of the University : Sardar Vallabh Bhai Patel University of Agriculture and Technology,
P.O. Modipuram, Meerut-250 110 (U.P.) India

Telephone Numbers : 0121-2411540 (Help line) 2411503 (V.C. Office), 2411502 (Registrar)

Fax : 0121-2411505

Visit Us : svbpuniversitymeerut.org

1.1 Establishment of the University

Sardar Vallabh Bhai Patel University of Agriculture & Technology, Meerut was established on 2nd October 2000, under Uttar Pradesh Agricultural University Act (Amended) 2000, vide Government Order No. 3204A/XII-8-2000-400(96)2000 dated September 27th, 2000. This University has the pride to be the first Agricultural University of 21st Century.

1.2 Geographical Situation and Climate

The University is situated, 10 kilometers away in the north of Meerut City at National Highway No. 58. Meerut City is well connected by rail and road with all major cities of Uttar Pradesh. One can reach the University campus located at Modipuram, by auto-rickshaw or by city bus from Meerut Bus Stand, Meerut City and Meerut Cantt Railway Station.

Geographically Meerut is situated between 29°01' latitude in the north and 77°45' longitude in the east. The climate is sub-tropical type with a maximum temperature of about 42°C during summer and a minimum temperature of 7–8°C and below, during winter. The average annual rainfall is about 800 mm.

1.3 Development Plan

Eleven colleges of different disciplines are to be established at the University Campus at Modipuram. These are enlisted below :

- 1 College of Agriculture
- 2 College of Agriculture Business Management
- 3 College of Information Technology
- 4 College of Post Harvest Technology and Food Processing
- 5 College of Horticulture and Agro-Forestry
- 6 College of Bio-Technology
- 7 College of Post Graduate Studies
- 8 College of Animal Husbandry and Veterinary Science
- 9 College of Engineering
- 10 College of Home Science
- 11 College of Basic Sciences
- 12 College of Human Resource Development

1.4 Mandate of the University

1.4.1 Education

To create human resources who can apply their acquired knowledge and skills to diversify and industrialize agriculture for socio-economic transformation of the rural society.

1.4.2 Research

- 1 To generate wealth and employment in the sector of agriculture and make Indian agriculture globally competitive.
- 2 To achieve economic and environmental sustainability through integrated management of productivity, production, marketing, and end-use of farm produce.
- 3 To develop separate strategies for maximizing income of farmers with large, medium, small and marginal farm holdings.

1.4.3 Extension

- 1 To establish partnership with farmers and other stake holders in agriculture.
- 2 To facilitate validation, demonstration and adoption of appropriate technologies.

1.5 Salient Features of the University

- 1 Transformation of Agriculture from being a production unit towards becoming a business unit of the global market.
- 2 Development of self-dependent graduates who can provide service to others.
- 3 Development of technical skills for co-ordinating agriculture with industry.
- 4 Encouragement for participation of farmers and industries in University activities.

1.6 Targets of University

The University aims at assured prosperity of farmers and rural community through diversification, intensification and linkage of agriculture to the market.

1.7 Responsibility and Jurisdiction area of University

University is conducting Agricultural Education, Agricultural Research and Agricultural Extension Programmes in 15 districts of 4 commissionaries, with 4 research centres, 12 Krishi Vigyan Kendras, and 3 Krishi Gyan Kendras.

1.7.1 Commissionaries

Saharanpur, Meerut, Moradabad, Bareilly

1.7.2 Districts

Saharanpur, Muzaffarnagar, Ghaziabad, Baghpat, Gautambudh Nagar, Bijnor, Jyotiba Phule Nagar, Moradabad, Rampur, Bareilly, Pilibhit, Shahjahanpur, Badaun and Meerut.

1.8 Research and Extension Centers of the University

1.8.1 Research Centers

- 1 Research Centre, Meerut
- 2 Crop Research Centre, Bulandshahr
- 3 Crop Research Centre, Nagina, Bijnor
- 4 Crop Research Centre, Ujhani, Badaun

1.8.2 Krishi Vigyan Kendras

1. Saharanpur, 2. Hastinapur, (Meerut), 3. Baghara, (Muzaffarnagar),
4. Ghaziabad, 5. Nagina, (Bijnor), 6. Rampur, 7. Ujhani, (Badaun),
8. Shahjahanpur, 9. Pilibhit, 10. Baghpat, 11. Moradabad, 12. Gautam Budh Nagar

1.8.3 Krishi Gyan Kendras

1. Bareilly, 2. Bulandshaher, 3. Jyotiba Phule Nagar.

1.9. Student Support Services

1.9.1 University Library

The development of library equipped with modern facilities, recent text books and other study material is under process. The students and other library users have to follow the rules and regulations of the library. They have to maintain peace and cleanliness in the library.

1.9.2 Medical Facilities

Health check-up of the students is performed by expert medical practioners. The university also provides van service to hospital under emergency.

1.9.3 Sports and Extracurricular Activities

Various extracurricular activities are encouraged for literary, physical and social life improvement of the students. Playgrounds are being developed in the vicinity of the hostels for playing Cricket, Football, Hockey, Volleyball, Tennis, Badminton, *Kabbaddi*, *Kho-Kho* and such other activities.

1.9.4 Placement

Though the university provides job-oriented professional education to its students, the duty of the university towards its students does not end here, but also includes finding suitable employment for its alumni, so that their training and abilities are used for

benefits of the nation. In order to achieve this objective, the Directorate of Placement has been established in the university.

1.9.5 Hostel

The university is supposed to be a residential university. However, the students will have to manage for lodging their own, till sufficient hostel facilities are developed by the University. Till now four hostels have been fully developed. Every hostel is equipped with a common room, indoor games, television and canteen. Students have to manage the mess on their own. Apart from this, there is a contract mess and cafeteria run by the contractor. Each hostel is supervised and managed by the hostel warden, who is a senior member of the faculty.

1.9.6 N.S.S. and N.C.C.

This is proposed to include National Service Scheme (N.S.S.) and National Cadet Corps (N.C.C.) as regular courses of all the disciplines to equip the graduates with normal values which have their immense significance in the present era. The N.S.S. activities will be supervised by the co-ordinator and programme officers. Three wings of N.C.C. namely Armoured, Infantry and Air Wing will be look after by trained officers.

1.9.7 Scholarships

Scholarships are provided to the students belonging to Scheduled Castes, Scheduled Tribes and Other Backward Class categories according to the Government rules. Merit-cum-means scholarship are also provided to the meritorious students of economically weak classes.

2.1 Application

Applications for admission are normally invited by advertisement in leading Hindi and English newspapers. Aspirants for admission have to apply on prescribed forms which will be made available from the Registrar's Office on payment of Rs. 800/- (Rs. 500/- for SC & ST) in person or by sending Bank Draft for Rs. 850/- (Rs. 550/- for SC & ST) in the name of Comptroller, Sardar Vallabh Bhai Patel University of Agriculture & Technology, Meerut payable at State Bank of India, Palhera, Meerut (Code 3067) or Meerut Branch of the concerned Bank.

Candidate should write his / her name and father's name in capital letters as given on the record of High School / Intermediate Board. Each letter should be filled in one box as shown below. One box should be left blank between each part of the name.

Name of the Student (IN CAPITAL LETTERS)

U	T	T	A	M		S	I	N	G	H		R	A	T	H	I						
---	---	---	---	---	--	---	---	---	---	---	--	---	---	---	---	---	--	--	--	--	--	--

Father's Name

D	H	A	R	A	M	V	E	E	R		S	I	N	G	H		R	A	T	H	I	
---	---	---	---	---	---	---	---	---	---	--	---	---	---	---	---	--	---	---	---	---	---	--

Application Form duly filled – in should be sent to **REGISTRAR, Sardar Vallabh Bhai Patel University of Agriculture & Technology, P.O. Modipuram, Meerut (U.P.) 250110.** The University shall not be responsible for non-receipt or late receipt of application form for any reason including loss or delay in postal transit.

All admissions shall be made strictly on the basis of merit of Entrance Examination result cum reservation as per U.P. Government / University rules. In the event of concealing any information, admission will be rejected. All admissions shall be provisional in the first instance and the Vice-Chancellor reserves the right to cancel, admission granted to a candidate without assigning any reason. No person shall be entitled to claim any compensation or concession if the admission granted is subsequently cancelled.

2.2 Last date for submission of Application Form

The last date for submission of completed forms at the university shall be 24-4-2006.

2.3 Age Limit

Maximum age limit for admission is 22 years (25 years for SC/ST/OBC) as on 01.07.2006.

2.4 Schedule of Examination

The examination shall be held on 14.5.2006 (Sunday) between 1000 AM – 100 PM for B.Sc. (Ag.) / M.Sc. (Ag.) / M.Tech. / Ph. D. and between 3.00 P.M.–6.00 P.M. for B.Tech. (Bio-Tech.)

2.5 Admit Card

Admit Cards will be dispatched to the candidates by the Registered / Speed Post. In case the Admit Card is not received before examination, Duplicate Admit Card can be obtained from the Registrar's Office after depositing two photographs and Rs. 100/- only.

2.6 Examination Centre

The Entrance Examination shall be conducted at following centres :

Meerut, Bareilly, Lucknow, Agra and Allahabad.

The university has right to add and cancel any centre for the examination.

2.7 Number of Seats

2.7.1 B. Tech. (Bio-Technology)

Normal : 45 (for U.P. domicile candidates). Paid : 27 (Rs. 50,000.00 per candidate per year, qualifying marks in entrance examination required, open to all, U.P. domicile certificate not required), NRI : 3 (U.S. Dollars 2500 or equivalent per candidate, per year, no entrance examination).

2.7.2 B.Sc. (Ag.)

Normal : 70 (62 for U.P. domicile candidates + 8 for ICAR nominee). Paid : 04 (Rs. 40,000.00 per candidate per year, qualifying marks in entrance examination required, open to all, U.P. domicile certificate not required). NRI : 01 (U.S. Dollars 2000 or equivalent per candidate per year, no entrance examination).

2.7.3 M.Sc. (Ag.) : Normal (For U.P. domicile candidates only)

Agriculture Communication and Rural Developments : 2, Agric. Economics and Management : 2, Agronomy : 3, Animal Husbandry : 2, Bio-Technology : 2; Entomology : 2, Genetics & Plant Breeding : 3, Horticulture : 3, Plant Pathology : 2, Soil Science : 2. Paid : One seat in each of above department (Rs. 50,000 per candidate per year, U.P. domicile certificate not required)

2.7.4 M.Tech. (Agric. Process and Food Engg.) : Normal: 2 (for U.P. domicile candidates only);

Paid : One (Rs. 50,000 per year; U.P. domicile certificate not required)

2.7.5 Ph.D. : Normal: 2 seats for U.P. domicile candidates only in each of the following :

Agric. Economics and Management, Agric. Process and Food Engg., Agronomy, Animal Husbandry, Entomology, Genetics and Plant Breeding, Horticulture, Plant Pathology, Soil Science.

2.8 Eligibility

2.8.1 B.Tech. (Bio-Technology) / B.Sc. (Ag.) :

Intermediate (10+2) in Agriculture or Science (Biology/Math/Bio-Math) with 45% marks.

2.8.2 M.Sc. (Ag.) : Agronomy / Soil Science / Animal Husbandry / Plant Pathology / Entomology / Genetics and Plant Breeding / Horticulture / Agric. Economics and Management / Agric. Communication and Rural Development

B.Sc. (Ag.) or B.Sc. (Ag. & A.H.) or B.Sc. (Ag.) Hons with 55% marks or equivalent O.G.P.A.

2.8.3 M.Sc. (Ag.) Bio-Tech :

B.Sc. (Ag.) or B.Sc. (Ag. & A.H.) or B.Sc. (Ag.) Hons. or B.Sc. (Biology) or B.Sc. (Bio-Math) or B.Tech. (Bio-Tech) with 55% marks or equivalent O.G.P.A.

2.8.4 M.Tech. (Agric. Process & Food Engg.) :

B.Sc. (Agric. Engg.)/ B.Tech. (Agric. Engg.) / B.E. (Food Tech.)/B.Tech. (Food Engg.) with 55% marks or equivalent O.G.P.A.

2.8.5 Ph.D. Agronomy / Soil Science/Animal Husbandry / Plant Pathology / Entomology / Genetics and Plant Breeding / Horticulture / Agric. Economics and Management.

M.Sc. (Ag.) in subject concerned with 55% marks or equivalent O.G.P.A.

2.8.6 Ph.D. (Agric. Process and Food Engg.) :

M.Tech. (Agric. Process and Food Engg.)/ M.Tech. (Process and Food Engg.) with 55% or equivalent O.G.P.A.

Candidates appearing in the qualifying certificate / degree programmes may also apply for the Entrance Examination.

2.9 Qualifying Marks in Entrance Examination

For undergraduate programme the minimum qualifying marks in aggregate shall be 40% for General and 30% for reserved categories, respectively. For admission to Master's and Ph.D. degree programmes the minimum qualifying marks would be 45% for all categories.

2.10 Reservation (against normal seats only).

2.10.1 Vertical (Main Category)

Horizontal (Sub Category)

1. Schedule Castes	21% (SC)	In each of the main categories, reservation to the following sub-categories is available as given below:		
2. Schedule Tribes	2% (ST)	1	Children of U.P. Freedom Fighters	2% (FF)
3. Other Backward Classes	27% (OBC)	2	Physically Handicapped	3% (PH)
4. Unreserved	50% (UR)	3	Children of Defence persons (Armed Forces)	1% (AF)
		4	Ward of University Employees	10% (UE)

Physically handicapped candidate with one eye or leg or hand defective shall be eligible for admission against reserved seats.

The candidates claiming for any of the above benefits should submit/related certificates issued by the competent authority.

2.10.2 Weightage for Sports

Two percent weightage in marks obtained in Entrance Examination will be given to the sports-men/women, who have played at the Inter-varsity/State level (Junior/Senior) as the case may be or above these levels, as evidenced by the certificates (Use only prescribed certificate given in Annexure 8).

2.11.1 Question Paper (Question Booklet)

Duration of entrance examination shall be three hours. Question paper shall consist 200 questions carrying 200 marks. Questions will be set in English and Hindi both for B.Sc. (Ag.) and B.Tech. (Bio-Tech) and in English only for M.Sc. (Ag.), M.Tech. and Ph.D. One mark will be awarded for each correct answer. There shall be **no negative marking**.

The questions shall be framed from all subjects. The weightage given to each subject will be as under

Programme	Subject & Number of Questions in Parenthesis
B.Tech. (BioTech.)	General Studies (50), Biology (30), Chemistry (30), Physics (30), Math (30), Agriculture (30)
B.Sc. (Ag.)	General Studies (50), Agronomy (30), Agri. Engineering (7), Animal Husbandry & Dairying (19), Horticulture (19), Agri. Zoology (25), Agri. Chemistry (25), Agri. Botany (25)
M.Sc. (Ag.)	General Studies (50), Agronomy (21), Agri. Engineering (9), Genetics & Plant Breeding (9), Bio-Chemistry (4), Plant Physiology (6), Seed Technology (4), Soil & Water Management (9), Soil Science & Agri. Chemistry (12), Animal Husbandry & Dairying (13), Agri. Extension (9), Entomology (12), Horticulture (15), Plant Pathology (9), Agri. Economics (9), Maths & Statistics (5) & English (4)
M.Tech. (Agric. Process and Food Engg.)	General Studies (50), Milling of Agricultural Produce (35), Storage Engg. (20), Engineering properties of bio-material (20), Heat and Mass Transfer (20), Dairy and Food Engg. (35), Farm Machinery and Power (10), Soil & Water conservation and irrigation Engg. (10).
Ph.D.	General Studies (50), Statistics (30), Concerning Subjects (120)

2.12.1 Answer Sheet

The Answer Sheet will be provided with the Question Booklet.

The specimen copy of the answer sheet, which will be provided with the Test Booklet, is given at Page No. 16. Candidates are advised to go through it carefully).

Each answer column corresponds to the serial number of questions given in the Test Booklet. With each question, there will be four answers a, b, c and d, one of which is correct or most appropriate. The correct answer is to be encircled. Cutting/Scratching/Rubbing etc. of the answer will not be allowed.

2.12.2 Writing of Answer or Response

There will be four alternative answers for each question. The candidates will indicate his/her response to the question by encircling the appropriate answer. For example—
SVBPUA&T is located at

- a Lucknow
- b Bareilly
- c Agra
- d Meerut

The answer is

- a Lucknow
- b Bareilly
- c Agra
- Ⓐ Meerut

} cutting / overwriting / scratching / rubbing etc.
will be treated as wrong answer.

2.12.3 Use Dark Ball Pen only

The candidate will use only dark ball pen of good quality. Writing on the answer sheet will not be permitted. The candidate will be allotted zero marks if he or she writes on the answer sheet.

2.12.4 Rough Work

The candidate will not do any rough work or writing work on the answer sheet. All rough work is to be done in Test Booklet itself.

2.13 Procedure to be followed in the Examination Hall

- (i) 15 minutes before the commencement of the Test, each candidate will be given the Test Booklet and Answer Sheet.
- (ii) Immediately on receipt of the Answer Sheet, the candidate will fill in the required particulars of the Answer Sheet with Ball Point Pen. Utmost precaution should be taken while filling the required circles.
- (iii) The test will start exactly at the time mentioned in the Admit Card and an announcement to this effect will be made by the Invigilator.
- (iv) After completing the test and before handing over the Test Booklet and the Answer Sheet, the candidate should check again that all the particulars required in the Answer Sheet have been correctly written or filled up. Ensure that the Roll Number and the Test Booklet series are correctly written in the Answer Sheet and the Answer Sheet is duly signed by the candidate at appropriate place.
- (v) A signal will be given at the beginning of the examination and at half time. A signal will also be given before the closing time when the candidate must stop marking the responses.

2.14 Caution for Removal of page(s) from Test Booklet

The candidate will check and ensure that the Test Booklet contains number of pages as are written on the top of the first page. The candidate shall not remove any page(s) from the Test Booklet and if any page(s) is / are found missing from his/her Test Booklet, he /she will be proceeded against and shall be liable for criminal action.

2.15 Method of Selection

The admission shall be made strictly in order of Merit cum Reservation based on the aggregate marks obtained by the candidate in the Entrance Examination.

In case of candidates obtaining equal marks in the Entrance Examination, their *Inter-se* ranking shall be determined on the basis of the following :

- (i) The aggregate percent marks obtained by the candidates at the qualifying examination.
- (ii) In case of the candidates who have obtained equal marks in the aggregate at the qualifying examination as well as other examinations up to High School Examination, the date of birth shall be the basis (i.e. the candidate senior in age would rank higher for selection).

B.Tech. (Bio-technology) GENERAL STUDIES

It will include questions on General Knowledge, current affairs, reasoning, aptitude etc.

MATHEMATICS

Modern algebra, elements of set theory, matrices, addition, multiplication, transpose, adjoint of matrix, inverse of matrix (2×2), group-definition, abelian group, uniqueness of identity and inverse elements.

Boolean algebra as an algebraic structure simple application to logic. Algebra-solution of simultaneous and quadratic equations.

Arithmetic, geometric and harmonic progression, binomial theorem for any index, logarithms, exponential and logarithms series.

Probability-definition, dependent and independent event, numerical problems on addition and multiplication theorems of probability.

Trigonometry-simple identities, trigonometric equation, properties of triangles, Use of mathematical tools, solution of triangles, heights and distances and inverse functions.

Coordinate Geometry-elements of coordinate geometry of straight lines, pair of straight lines circle, parabola (in cartesian coordinates only). Calculus-differentiation simple cases, functions of function, tangents and normals, simple maxima and minima, integration of simple functions by parts, by substitution and by partial function.

Vector-position vector, addition and subtraction of vectors, scalar and vector products.

Dynamics-velocity, composition of velocity, relative velocity, acceleration, composition of acceleration, motion under gravity projectiles, laws of motion, Principles of conservation of momentum and energy, direct impact on smooth bodies.

Statics-composition of co-planar concurrent and parallel forces, moments and couple, resultant of set of coplanar forces and conditions of equilibrium, determination of centroids in simple cases and simple problems involving friction.

BIOLOGY BOTANY

1. External Morphology of plants-stem, root, leaf-their function and modifications
2. Structure of the flower and functions of its various parts, types of inflorescence.
3. Pollination : Elementary study of pollination, types and mechanism.
4. Structure and germination of seeds (germination of monocot and dicot seeds), types of seed, their functions and dispersal.
5. Types of fruit, their functions and dispersal.
6. Anatomy, structure of plant cell, cell organelles, cell division, organization of cells into tissues, functions of various tissues, anatomy of monocot and dicot root stem and leaf (secondary growth in dicot stem and root). Study of reproductive organs of angiosperm plants.
7. Study of plant physiology (elementary study only).
8.
 - (a) Water uptake by plants, structure of root hair.
 - (b) Transpiration, Root pressure, its functions and importance.
 - (c) Carbon assimilation - Structure and function of stomata, factors affecting carbon assimilation.
 - (d) Translocation and storage of food materials.
 - (e) Types and function of respiration.
9. Plant taxonomy and elementary introduction as far as possible from study of common plants of local gardens (study of their characters), Gramineae, Leguminosae, Cucurbitaceae, Solanaceae, Malvaceae.

10. Elementary study of following plants :
(a) Moss, (b) Fern, (c) Mucor, (d) Bateria

ZOOLOGY

- (a) Characteristic features of protoplasm, structure of animal cell, differences between living and non-livings.
(b) Study of life forms like amoeba and paramecium.
- Study of morphology, nature and the life history of the following :
(a) Invertebrate : tapeworm, earthworm, cockroaches, silkworm, bee and termite.
(b) Vertebrate : Frog, Pigeon (or any other bird), squirrel (or any other mammal).
- Anatomy of the following : Cockroach, Frog and a mammal.
- (a) Elementary knowledge of the histology of the stomach, lungs and kidneys in mammals
(b) Elementary knowledge of digestion, respiration and excretion processes.
- Elementary classification of specialized knowledge about animals listed under item 2.

PHYSICS

Simple Measurements : Vernier's screw and micro-meter scales; composition and resolution of forces : Parallelogram and forces; couples; movement of forces; equilibrium of forces.

Velocity and acceleration, momentum, law of motion under gravity, acceleration due to gravity, circular motion, centrifugal and centripetal forces, fluid's pressure, surface tension, capillarity, atmospheric pressure, barometer, Boyle's law.

Laws of friction, simple machines such as levers and pulleys; pumps, work force and energy, heat, conduction and radiation, specific heat, thermal conductivity, latent heat, relation between work and heat, dew point, relative humidity and its control, clouds, fog, frost, snow, etc.

Law of propagation of light, reflection from plain, curve surfaces, lenses, microscope, infrared, ultraviolet, visible radiation.

Primary and storage cells, current, voltage and resistance, electrical power, conservation of electrical power into mechanical power, measurements of electrical quantities, uses of electricity.

CHEMISTRY

Solid, liquid and chemical transformation.

Elements, mixture and compounds.

Laws of chemical combinations of mass, constant proportion, multiple proportion, reciprocal proportion, gases, modern concept of above mentioned laws.

Atomic theory of modern and old concept.

Definition, explanation and relationship between valency atomic weight, molecular weight and equivalent weight.

Structure of atom.

Avogadro's law and its uses.

Ionization – Principle, difference between ion and atom, electrolysis, acid, base & salts, hydrolysis and neutralization.

Oxidation and reduction.

Classification of elements.

Water : Temporary & permanent hardness, methods of removal of hardness and use of water in irrigation.

Special mention of properties, use of following elements and their compounds.

Study of – nitrogen, ammonia, nitric acid, carbon dioxide, phosphorus, phosphate and sodium nitrate, potassium, potassium nitrate, potassium sulphate, calcium, calcium oxide, calcium carbonate, calcium sulphate, calcium phosphate, nitrate, iron, iron sulphate and iron phosphate, aluminium, aluminium sulphate and aluminium phosphate.

Definition of organic compounds and importance, structure of organic molecules and sources, physical properties, classification and nomenclature

General knowledge of the following compounds :

Simple methods for general formula, general properties and important uses. Structural formula (except petroleum oil and fat, carbohydrate and protein).

Hydrocarbon-Saturated and unsaturated.

Alcohol-ethyl alcohol and glycerol.

Aldehyde and ketone- formaldehyde, acetaldehyde and acetone.

Amines and oxide-Methyl and ethyl amine, urea.

Acids-Acetic acid, butyric acid, lactic acid and oxalic acid. Oil and fat, soap and saponification.

Carbohydrate-Glucose, fructose, sucrose and starch,

Benzene and Phenol – General method of preparation and properties.

AGRICULTURE

Cultivation of common crops-wheat, paddy, cotton, jowar, bajra, maize, soybean, arhar, mustard, sunflower, pea, groundnut, gram, tobacco, potato and sugarcane under the following heads :

Recommended varieties and their main characteristics, suitable areas, seed rate, time and method of sowing, irrigation, fertilizer use, controls of weeds, insect pests and diseases, harvesting, processing and yield.

Soils-origin and classification of loam, silt, clay, sandy loam, etc. : physical and chemical properties : soil conservation. Use of fertilizers, essential nutrients-nitrogen, phosphorus and potassium uptake by different crops, organic and inorganic fertilizers and their effects on crops and soil, methods of using fertilizers, farmyard manure, composting, green manuring, study of organic and inorganic fertilizer manures. Pollution of soil, water and air in modern agriculture and remedial measures.

Irrigation and Drainage – water requirement of crops, measurement of water discharge, prevention of loss of water, quality of water, different methods of irrigation – flooding, basin method, border strip method, sprinkler and drip irrigation – their advantages and limitations. Necessity for drainage, damage to soil and crops due to excess moisture, prevention of formation of acidic and alkaline soils and their management; natural calamities-floods and drought and their management.

Study of following horticulture crops including recommended varieties and their main features, suitability for different regions, time and method of sowing, fertilizer use, irrigation, diseases and pests and their control.

Cabbage, cauliflower, onion, cucurbits, bittergourd, bottlegourd, muskmelon, squash, ridgegourd; root crops carrot, radish sweet potato, turnip, peas, tomato, brinjal, lady's finger, spices; fruit crops such as banana, apple, mango, litchi, citrus, guava, papaya, peach etc.

Types of iron and steel, wood, plastic and tin used in agricultural implements and their forms & properties. Study of different types of ploughs-their merits and demerits; mechanical devices such as cultivator, harrow, sprayer, seed drill, threshers etc. their management & cost, selection of prime movers, water lifting devices; discharge, command area, cost of different systems; soil preparation, methods of ploughing, need for tillage, kinds of tillage, interculture, equipment for interculture.

Power transmission through belts, pulleys and gears, questions relating to number of teeth in gears according to speed and size of pulleys, hand operated chaff cutters, cane crusher etc., draught and its measurement.

Introductory agricultural economics – meaning and scope, significance of agricultural economics in national planning. Production – meaning, factors of production such as

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

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

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

Principles of feeding of various classes of livestock and poultry, economic feeds for various classes of livestock and poultry; clean milk production and maintenance of hygiene.

Common medicines and vaccines used in treatment and prevention of animal diseases; handling of animals for treatment; castration.

B.Sc. (Ag.)

General Studies

It will include questions on General Knowledge, current affairs, reasoning aptitude etc.

Agronomy (General Field Crops, Soils & Manures)

General Fields Crops Study of Wheat, Paddy, Cotton, Sorghum, Pearl millet, Maize, Groundnut, Gram, Tobacco, Berseem, Potato and Sugarcane under the following heads – Recommended varieties, suitable area in state, sowing time, seed rate, methods of sowing, manuring techniques, irrigation, harvesting, threshing and yield

Soils Genesis of soils, Classification of soils i.e. Gravels, Sandy, Loam, Silt and Clay, Physical properties of soil, Effect of rainfall on soil structure, Preliminary knowledge of calcareous and laterite soils of Uttar Pradesh, Basic Principles of different methods of soil conservation.

Manures and Manuring Essential nutrients for plant growth, quantity of nitrogen, phosphorus and potash taken by principle field crops from the soil, need of manuring, organic and inorganic manures and fertilizers. Conservation of Farm Yard Manure and compost, green manure crops and their utility

Study of the following manures Farm yard manure (FYM), Compost, Urinated soils, Castor cake, Groundnut cake, Ammonium sulphate, Sodium Nitrate, Super Phosphate, Potassium Sulphate, Urea, Calcium Ammonium Nitrate, Ammonium Chloride and Mixed Fertilizer

Irrigation and Drainage

Irrigation requirement, Water requirement of the crops, water discharge and its relationship with soil texture, measure to reduce misuse of water, quality of irrigation water and its effects

System and Methods of Irrigation Flood Irrigation, Basin Methods, Furrow Methods, Sprinkler Irrigation, lift Irrigation – Merits and Limitations of each, Measurement of Irrigation Water, 'V' notch orifice cusec, Acre-inch, Metric System of Measurement.

Agricultural Engineering

Iron used in the construction of agricultural implements such as cast - iron liquid chilled cast - iron and properties of different grades of the carbon steel

Ploughs Types of ploughs, trouble in operation, precautions in adjustments, comparative study of the ploughs used in the state such as indigenous plough, Meston Plough, Kare Plough, Shabash Plough, U.P. No. 2 Plough, Victory plough and Praja Plough

Other Implements Cultivators, hoes, plank, scraper and seed drill, their care, adjustment cost and comparative study

Drafts implements Measurement, factors affecting the drafts, importance of the effect of the drafts in selecting power

Water lifts Discharge of water, lifts per hour, area irrigated per day and study of cost of irrigation per hectare, water lifts including swing basket, counterpoise lifts, don, Persian Wheel, low lift pump and rope and bucket lifts

Plough and tillage methods Types, Chemical and Physical effect, effects of ploughing, clod crushing, harrowing and effect of interculture on soil structure, Tillage requirements of different crops

Power Transmission by belt, pulleys and gears, calculation of simple numerical on speed and size of pulleys and numbers of teeth on gears (neglecting belt slippage)

Study of hand chaff cutter, cane - crusher, winnowing fans and Olpad thresher

Animal Husbandry & Dairying

Study of the description of main Indian breeds of animal viz., cattle, buffalo, goat and sheep, external anatomy of cows and bullocks and its relation with body function; judging of age of cattle, characters of good milch cows and buffaloes, characters of bullocks, calves, heifers and bulls and their judging by score method, general principles of care and management of pregnant cows, downcalves, newly born calves, recently calved cows and milch cows, general principles involved in feeding of different classes e.g. calves, heifers, bullcalves, pregnant cows, milch cow, bulls and bullocks general idea about cheap availability of fooder and grains for animals throughout the year, cleaning and preparation of cows for milking, general idea about cleaning and sanitation of milking sheds, principles and methods of milking and clean milk production, milk recording simple medicines used for treatment of animals and method of their use, control, casting and securing of animals for treatment/castration of calves

Horticulture

Importance of horticulture, study of the following vegetable and fruit crops

Cole Crops (Cauliflower, Cabbage and knoll-khol) Bulb Crops (Onion) Cucurbits (Bitter gourd, Bottle Gourd, Sponge Gourd, Musk - Melon) Root Crops (Carrot, Radish, Sweet Potato, Turnip), Legume (Pea), Spices (Chilli), other vegetable crops (Brinjal, Okra, Tomato) and Fruits (Mango, Guava, Banana, Apple, Lichi, Ber)

Agricultural Botany

External morphology of plant organs stem, root, leaf and flowers, function of different plant parts and their modifications,

Structure of flower, types, functions of its different parts; inflorescence, different types of inflorescence,

Pollination, type of pollination and study of its mechanism,

Seed structure and seed germination (typical germination of monocot and dicot seeds) type of seed, functions and dissemination of seeds,

Types of fruit, their functions and dissemination,

Internal Morphology - Structure of a typical cell, inclusion of a cell, cell division (somatic and meiotic), organisation of cells in the form of tissue, internal morphology of monocot and dicot root, stem and leaf, secondary growth and structure of dicot stem and root, structure of reproductive organs in Angiosperms,

Plant Physiology (Only elementary study)

- (a) Absorption of water by a plant structure of root hair
- (b) Transpiration and root pressure, their functions and significance
- (c) Carbon assimilation, structure and function of leaf stomata, factors influencing efficient carbon assimilation
- (d) Respiration, kind and function,

Systematic Botany and elementary introduction of plant kingdom as far as possible the study of botanical (distinguishing characteristics of general plants found in locality and garden) description of plants belonging to families gramineae, cruciferae, leguminosae, cucurbitaceae and malvaceae,

Elementary study of following plants

- (a) Moss, (b) Fern, (c) Mucor, (d) Bacteria

Agriculture Zoology

(a) General properties of protoplasm, structure of and animal cell, difference between living and non-living cell.

(b) Study of living beings through Amoeba and Paramecium like animals

External morphology, habit and study of the life history of :

- (a) Non-chordates (Tapeworm, Earthworm, Cockroach, Silkworm, Honeybee and Termite),
- (b) Vertebrates – Frog, Pigeon (or any other bird) and squirrel (or any other Mammal)

Internal structure of Cockroach, Frog and Mammal

(a) Elementary knowledge of Anatomy, Histology and Physiology of stomach, lungs and kidney of a mammal,

(b) General knowledge and physiology of digestion, respiration and excretion.

An elementary knowledge of animal kingdom – classification with characteristics of main phyla including reference to main classes of animals mentioned in para 2

Agriculture Chemistry

A Physical Chemistry

Matter (Solids, Liquids, Physical and Chemical Changes), elements, mixture and compounds, laws of chemical combination (numerical questions), atomic theory, modern and ancient theories (popular elementary ideas), definition, explanation and relationship of valency, atomic weight, molecular weight and equivalent weight, atomic structure, Avogadro's hypothesis and its applications, theory of ionization, oxidation and reduction, periodic classification of elements

B Inorganic Chemistry

Water (temporary and permanent hardness, processing of making soft water from hard water, quality of water for irrigation purposes), study of elements and their compounds with special reference to their occurrence, properties and uses (nitrogen, ammonia, nitric acid, carbon dioxide, phosphorus, phosphoric acid, sulphur dioxide, sulphuric acid, chloride and hydrochloric acid, sodium, sodium chloride, sodium hydroxide, sodium carbonate, sodium bicarbonate, sodium phosphate and sodium nitrate, aluminium, aluminium sulphate and aluminium phosphate)

C Organic Chemistry

Formation of organic compounds, physical properties, general knowledge of classification and their nomenclature, simple method for general formula, general properties, important used and structural formula of hydrocarbons, alcohols, aldehydes and ketones, acids, fats and oils, carbohydrates, general method of preparation & general properties of benzene and phenol.

M.Sc. (Ag.)

General Studies

It will include General knowledge, current affairs, reasoning, aptitude etc.

Subject Studies

It will include all the compulsory courses as prescribed by I.C.A.R. for B.Sc. (Ag.) or B.Sc. (Ag. & A.H.) or B.Sc. (Ag.) Hons, (Four year Course) as described on page 14 for MAG.

M.Tech. (Agric. Process & Food Engg.)

General Studies

It will include General knowledge, current affairs, reasoning, aptitude etc.

Subject Studies

Unit operations : cleaning, grading, milling, dehusking and decorticating, parboiling; Dryers and drying methods, equilibrium moisture content, psychrometry; Storage of food products, storage structures; Dehydration; Engineering properties of biological materials : aerodynamic, hydrodynamic properties, rheological properties, viscometry, thermal properties, thermodynamic properties; Fluid flow; Heat and Mass Transfer; Milk and its properties, evaporation, sterilization, pasteurization, homogenization; Refrigeration; Solvent extraction; Byproducts utilization; Material handling and transportation. Farm machinery and Power, Soil and water conservation Engg., Irrigation and Drainage Engg.

Ph.D.

There will be 50 questions of General Studies, 30 questions of Statistics and 120 questions of concerned subject as prescribed by Indian Agril. University of their master's degree courses. The detail syllabus for statistics is given as below :

Syllabus for Statistics

Measures of central tendency and dispersion, Skewness and kurtosis, Probability, Normal distribution (properties only); Test of significance (t, Z, f and X^2 - test), Regression and correlation (including partial and multiple correlations with their test of significance). Sampling theory with reference to crop estimation survey (random, stratified and multistage sampling). Analysis of variance, Principles of experimental designs. Completely Randomized Design, Randomized Block Design, Latin Square Design, Factorial Experiments (2^3 factorial experiments), Split plot Design, Analysis of Covariance; Missing plot Technique (in R.B.D. and L.S.D. with one value missing)

DETAILS OF FEE /CHARGES

Admission Charges	B.Sc. (Ag.) / B.Tech. (Bio-Tech)	M.Sc. (Ag.)/ M.Tech./Ph.D.
Once at the time of admission		
Admission Fee	200.00	500.00
Security Money	500.00	1000.00
Medical Examination Charges	50.00	50.00
Hostel Security / Food Advance	3000.00	3000.00
Total	3750.00	4550.00
Annual Charges		
Magazine	25.00	25.00
I.D. Card (Passport Size Photo of Student is needed)	25.00	25.00
Student Support	50.00	50.00
Examination Fee	500.0	500.00
Total	600.00	600.00
Semester Charges		
Registration	50.00	50.00
Tution	4500.00	8000.00
Sports	200.00	200.00
Entertainment and Literature	100.00	100.00
Laboratory	300.00	1000.00
Miscellaneous Activities	50.00	50.00
Transcript	50.00	50.00
Library	100.00	100.00
Medical	100.00	100.00
Education tour and visit	50.00	50.00
Total	5500.00	9700.00
Hostel Charges		
Hostel Common Room (Per Semester)	100.00	100.00
Hostel Room Charge (Per Semester) (including electricity charges)	700.00	700.00
Total	800.00	800.00
Grand Total of Security Advance	3500.00	4000.00
Grand Total of Fee and Other Charges	7150.00	11650.00
Total money to be paid at the time of admission	10650.00	15650.00

FORMATS FOR CERTIFICATES

उत्तर प्रदेश स्थायी निवासी के पुत्र /पुत्री

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

यह प्रमाणित किया जाता है कि श्री/कु०.....पुत्र/पुत्री श्री/श्रीमती

.....उत्तर प्रदेश के गांव/शहर.....तहसील जिला

.....के स्थायी निवासी हैं तथा श्री/कुअपने पिता/माता पर पूर्णतया आश्रित हैं।

अभ्यर्थी के पिता/माता के हस्ताक्षर

हस्ताक्षर जिला मजिस्ट्रेट

दिनांक :

नाम

स्थान :

मोहर

उत्तर प्रदेश के स्वतंत्रता सेनानी (Sub Category FF)

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

प्रमाणित किया जाता है कि श्री/कुमारी.....पुत्र/पुत्री श्री/श्रीमती

.....निवासी.....के पुत्र/पुत्री/पुत्र के पुत्र/पुत्र की पुत्री (अविवाहित) हैं। श्री/श्रीमती.....

ने स्वतंत्रता संग्राम में भाग लेने के कारण – (जो लागू न हो उसे काटने का कष्ट करें)

1. कम से कम दो माह की वास्तविक अवधि के लिए कारावास का दण्ड भोगा है
2. नजरबंदी या अण्डर ट्रायल कैदी के रूप में जेल में कम से कम तीन मास रहे है
3. कम से कम 10 बेटों की सजा पायी है
4. फरार घोषित हुआ है
5. गोली से घायल हुआ है
6. वीरगति प्राप्त की है
7. ऐसे व्यक्ति भी है जो पेशावर काण्ड के रहे है
8. भूतपूर्व आजाद हिन्द फौज के प्रमाणित सैनिक है
9. भूतपूर्व इंडिया इंडिपेंडेन्स लीग के प्रमाणित सदस्य है।

(टिप्पणी : ऐसे व्यक्ति जिन्होंने माफी मांगी हो, उक्त परिभाषा में सम्मिलित नहीं माने जायेंगे)

यह भी प्रमाणित किया जाता है कि श्री/कुमारी.....उपरोक्त स्वतंत्रता संग्राम

सेनानी श्री/श्रीमती.....के पुत्र/पुत्री हैं अथवा उनके पौत्र/पौत्री हैं तथा वह उन पर वास्तव में

आश्रित हैं।

अभ्यर्थी के पिता/माता के हस्ताक्षर

हस्ताक्षर जिला मजिस्ट्रेट

दिनांक :

नाम

स्थान :

मोहर

उत्तर प्रदेश सेना दल (Sub Category AF)
(अन्तिम यूनिट के आफिसर कमान्डिंग द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कुमारी.....पुत्र/पुत्री श्री/श्रीमती ..
.....निवासी गाँव/शहर.....तहसील.....जिला.....प्रदेश...
.....दिनांक.....को सेवानिवृत्त (Superannuated) हुए/युद्ध में मारे गये/अपंग हो गये। वे उस समय
भारतीय थलसेना/जलसेना/वायुसेना.....के.....पर कार्यरत थे।

यूनिट कमान्डिंग आफिसर के हस्ताक्षर

दिनांक :

नाम

स्थान :

मोहर

जिला मजिस्ट्रेट द्वारा प्रमाणित

यह प्रमाणित किया जाता है कि श्री/कु0.....निवासी.....
गाँव/शहर.....तहसील.....जिला.....उपरोक्त सेना दल के सेवानिवृत्त
(Superannuated) हुए/युद्ध में मारे गये/अपंग हो गये कर्मचारी जो उत्तर प्रदेश के स्थायी निवासी हैं/थे, के पुत्र/पुत्री हैं।

हस्ताक्षर

दिनांक :

नाम

स्थान :

मोहर

शारीरिक विकलांग के अधिमान के लिए प्रमाण पत्र — PH

(मुख्य चिकित्सा अधिकारी द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0.....पुत्र/पुत्री श्री.....
.....नीचे लिखे कारणों से शारीरिक रूप से विकलांग हैं।

(केवल मुख्य चिकित्सा अधिकारी ही कारण लिखें)

1. एक हाथ से विकलांग.....
2. एक पैर से विकलांग.....
3. एक आँख से दोषपूर्ण.....

हस्ताक्षर

दिनांक :

नाम

स्थान :

मोहर

उत्तर प्रदेश के अन्य पिछड़े वर्ग के लिये जाति प्रमाण-पत्र का प्रपत्र

यह प्रमाणित किया जाता है कि श्री/कुमारी..... पुत्र/पुत्री
श्री..... निवासी ग्राम..... तहसील.....
नगर..... जिला..... उत्तर प्रदेश राज्य की..... पिछड़ी जाति
के व्यक्ति हैं। यह जाति उत्तर प्रदेश लोक सेवा अनुसूचित जातियों, अनुसूचित जनजातियों तथा अन्य पिछड़े वर्गों के लिए आरक्षण
अधिनियम 1994 की अनुसूची-एक के अन्तर्गत मान्यता प्राप्त है।

यह भी प्रमाणित किया जाता है कि श्री/कुमारी..... उत्तर प्रदेश राज्य अधिसूचना संख्या
22-16-92 का 2-95 दिनांक 8.12.95 में उल्लिखित अनुसूची-दो से आच्छादित नहीं है।

श्री/कुमारी तथा/अथवा उनका परिवार उत्तर प्रदेश के
ग्राम..... तहसील..... नगर..... जिला..... में सामान्यतया रहता है।

दिनांक :2006

स्थान :

मोहर :

हस्ताक्षर.....

पूरा नाम.....

पद नाम.....

जिलाधिकारी/अतिरिक्त जिलाधिकारी/

सिटी मजिस्ट्रेट/परगना मजिस्ट्रेट/तहसीलदार

This Certificate will be accepted only if it is issued AFTER MARCH 31, 2006.

अनुसूचित जाति/जनजाति (SC/ST)

(अभ्यर्थी के जन्म जिले के जिला मजिस्ट्रेट/प्रथम क्लास मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु पुत्र/पुत्री श्री..... निवासी गाँव/शहर.....
..... तहसील..... जिला..... प्रदेश..... का जन्म..... जाति में हुआ
था और यह जाति अनुसूचित जाति/जनजाति आदेश (संशोधन) एक्ट, 1956 के अन्तर्गत भारत सरकार/उत्तर प्रदेश शासन/
..... सरकार द्वारा मान्यता अनुसूचित जाति/जनजाति है।

अभ्यर्थी के हस्ताक्षर :

दिनांक :

स्थान :

हस्ताक्षर

नाम

मोहर

जिलाधिकारी/अतिरिक्त जिलाधिकारी/

सिटी मजिस्ट्रेट/परगना मजिस्ट्रेट/तहसीलदार

**CERTIFICATE IN RESPECT OF SON/DAUGHTER/SPOUSE OF THE
EMPLOYEE OF SVBP UNIVERSITY OF AGRIC. & TECH., MEERUT**

I _____ hereby certify that Sri _____
father/husband of Sri/Km./Smt. _____ who has applied for the
admission to an Undergraduate programme through Entrance Examination 2006 holds the
regular post of _____ under me in the S.V.B.P. University of Agri. &
Tech., Meerut.

(Signature of Father/Husband)

(Signature of Sectional Head)

Date _____ 2006

(Designation Stamp)

CERTIFICATE REGARDING WEIGHTAGE FOR SPORTS

For under – Graduate Candidates :

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

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

Date _____ 2006

(Signature of Principal)
Office Seal

COUNTERSIGNED

Date _____ 2006

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



Form No.

Cost Rs. 800/- (Rs. 850/- by Post)

(Rs. 500/- for SC/ST (Rs. 550/- by Post))

APPLICATION FORM

Entrance Examination 2006

SARDAR VALLABH BHAI PATEL UNIVERSITY OF AGRICULTURE & TECHNOLOGY, MEERUT-250110 (U.P.)

Roll No.

Please read the Information Bulletin carefully before filling up the Application Form. Last date for receipt of Application Form is 24.04.2006. Incomplete application shall be rejected.

1. Name of Programme	B.Tech.	B.Sc.	M.Sc.
In which candidate wishes	(Biotech)	(Ag.)	(Ag.)
To appear (Please Tick√)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	M.Tech.	Ph.D.	
	(Ag. Pr & FE)		
	<input type="checkbox"/>	<input type="checkbox"/>	

Affix recent Passport size photograph attested by the principal of School/ College or Head of the last Institution attended

(Mention subject in case of Ph.D.....)

2. Application to be considered	Normal	Paid	Normal & Paid	NRI
for (Please Tick √)	Seat	Seat	Both	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Name of Candidate (CAPITAL LETTERS)

4. Father's Name

5. Date of Birth Birth Place State

Year Month Day

Age on 01.07.2006

6. Tick (✓) whether you
Belong to OBC / SC / ST

OBC	SC	ST

7. Tick (✓) whether you
belong to Ff/AF/UE/PH/SP)

FF	AF	UE	PH	SP

8. Full Mailing Address

.....

 Pin Code.....

9. Permanent Address

.....

 Pin Code.....

10. Phone / Mobile No.

.....

11. Educational Qualification

(All columns should be filled in very carefully)

Examination	Name of the Institute/ College	Examination Body (Board University)	Year of Passing	Subjects Offered	% marks / OGPA obtained	Division
High School						
Intermediate Bio/Math Bio/Math/(Ag)						
B. Sc. (Ag) / BE/ B.Tech. <input style="width: 50px; height: 20px;" type="text"/>						
M. Sc. (Ag) M.Tech. <input style="width: 50px; height: 20px;" type="text"/>						
Other <input style="width: 50px; height: 20px;" type="text"/>						

DECLARATION OF THE CANDIDATE/GUARDIAN

We hereby solemnly and sincerely affirm that the statement made and information furnished by us on the application form are true and correct. We have not kept any information secret. Should it however, be found that any information furnished herein is fraudulent, incorrect or untrue in material particulars, we realize that we are liable to criminal prosecution and we also agree to forego the seat in the University. Further, the selection and admission to the University is liable to be cancelled. We agree to abide by the Rules and Regulations governing the examination and as contained in the Information Bulletin. We shall put up all original documents at the time of counseling.

Signature of Father/Guardian

Date:

Signature of the Candidate

Date:

APPLICATION FORWARDING AUTHORITY'S CERTIFICATE

This is to certify that Sri/Km./Smt.....
Son/Daughter/Wife of Sri.....was a student of this
College/university fromto.....

It is also certified that :

1. he/she has never used unfair means in any examination of the College/Institute.
2. During the above period of his/her stay in the college/university, his/her conduct has been good and to the best of my knowledge/record of the college, he/she bears a good moral character.

Date :

Signature of the Principal

With seal

DIRECTIONS FOR CANDIDATES

1. The Candidate shall be present at the center 30 minutes before the commencement of the Examination.
2. No candidate will be allowed to enter in the Examination Hall after 30 minutes from the commencement of the Examination.
3. No candidate who does not produce the Admit Card shall be allowed to sit in the examination by the Center Superintendent.
4. Candidate must preserve the Admit Card till allotment of seal in College/Institution.
5. Candidate is not allowed to leave the Examination Hall before expiry of the time and handling over the Answer Sheet and Question paper (Question Booklet) to the Invigilator concerned.
6. The candidates shall not remove any page (s) from the Test Booklet and if any page (s) is/are found missing from his/her booklet, he/she will be proceeded against and shall be liable for criminal action.
7. The candidate must bring Ball Point Pen of good quality.
8. Do not bring any book, notes, cell phone or calculator in the Examination Hall.
9. Candidate must follow instructions strictly as mentioned in the information Bulletin.

DIRECTIONS FOR CANDIDATES

1. The Candidate shall be present at the center 30 minutes before the commencement of the , Examination.
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**SARDAR VALLABH BHAI PATEL UNIVERSITY
OF AGRICULTURE & TECHNOLOGY
Meerut-250110 (U.P.) – INDIA**

ENTRANCE EXAMINATION 2006

IMPORTANT DATES

Availability of Application Forms		01-3-2006
Last Date of Receipt of Duly Filled Application Form in University		24-4-2006
Date of receipt of Admit Card by Candidate		08-5-2006
Date and Time of Entrance Examination	B.Sc. Ag./M.Sc. Ag./M.Tech./Ph.D.	14-5-2006 (10.00 A.M.-1.00 P.M.)
	B.Tech. (Bio-Tech.)	14-5-2006 (3.00 P.M.-6.00 P.M.)
Declaration of Result of Entrance Examination		14-6-2006
Counseling	B.Tech. Selected	30-6-2006
	B.Tech. Waiting	01-7-2006
	B.Sc. Ag. Selected	03-7-2006
	B.Sc. Ag. Waiting	04-7-2006
	M.Sc. Ag. Selected	05-7-2006
	M.Sc. Ag. Waiting	06-7-2006
	Ph.D. Selected	Last week of Dec. 2006
	Ph.D. Waiting	Last week of Dec. 2006
Registration	B.Tech/B.Sc. Ag./M.Sc. Ag.	18-7-2006
	Ph.D.	2-1-2007



**SARDAR VALLABH BHAI PATEL UNIVERSITY OF AGRICULTURE &
TECHNOLOGY MEERUT – 250 110 (U.P.)**

“The first agriculture university of the third millennium and 21st century”

**ENTRANCE EXAMINATION 2006
ADMISSION**

B. TECH. (BIOTECHNOLOGY) B. Sc. (Ag.) M. Sc. (Ag.)
M. TECH. (AGRIL. PROCESS & FOOD ENGG.) Ph.D.

ACADEMIC QUALIFICATIONS

B. Tech. (Biotechnology) / B.Sc. (Ag.): Intermediate (10+2) in Agriculture or Science (Biology/ Math/ Bio-Math) with 45% marks.

M.Sc. (Ag.): Agric. Communication and Rural Development / Agric. Economics and Management/ Agronomy /Animal Husbandary/ Entomology/ Genetics and Plant Breeding/ Horticulture/ Plant Pathology/ Soil Science : B.Sc. (Ag.) or B. Sc. (Ag. & A.H.) or B. Sc. (Ag.) Hons with 55% marks or equivalent O.G.P.A.

M. Sc. (Ag.) Biotech.: B. Sc. (Ag.) or B. Sc.(Ag. & A.H.) or B.Sc. (Ag.) Hons. Or B.Sc. (Bio/Bio-Math) or B.Tech. (Biotech.) with 55% marks or equivalent O.G.P.A.

M. Tech. (Agril. Process & Food Engg.): B.Sc. (Agril. Engg.)/ B.Tech. (Agril. Engg.)/ B.E. (Food Tech)/ B. Tech. (Food Engg.) with 55% marks or equivalent O.G.P.A.

Ph.D. Agric. Economics and Management/ Agronomy/ Animal Husbandary/ Entomology/ Genetics and Plant Breeding/ Horticulture/ Plant Pathology/ Soil Science: M.Sc. (Ag.) in subject concerned with 55% marks or equivalent O.G.P.A.

Ph.D. (Agril. Process and Food Engg.): M. Tech. (Agril. Process and Food Engg.)/ M. Tech. (Process and Food Engg.) with 55% or equivalent O.G.P.A.

NUMBER OF SEATS

B.Tech. (Biotech.): NORMAL: 45 (for U.P. domicile candidates only), **PAID:** 27 Rs. 50,000.00 per candidates per year, qualifying marks in entrance Examination required, open to all, U.P. domicile certificate not required). **NRI:** 3 (U.S. Dollars 2500 or equivalent per candidate, per year no entrance examination required)

B.Sc. (Ag.): NORMAL: 70 (62 for U.P. domicile candidates + 8 for ICAR nominee), **PAID:** 4 (Rs. 40,000.00 per candidate per year, qualifying marks in entrance examination required, open to all. U.P. domicile certificate not required) **NRI:** 1 (U.S. Dollars 2000 or equivalent per candidate, per year **no entrance examination required**)

M. Sc. (Ag.)/ M. Tech. (Agril. Process and Food Engg.): NORMAL (for U. P. Domicile candidates only) : **2 Seats** in each department except in Agronomy, Horticulture and Genetics and Plant Breeding where 3 seats shall be in each department, **PAID:** One seat in each department Rs. 50,000/- per candidates per year. Open to all. (U.P. domicile certificate not required) **Ph.D. :** **2 NORMAL** Seats in each department for U.P. domicile candidates only.

AGE LIMIT : Maximum 22 years on 01.07.2006 (25 years for SC/ST/OBC) for B. Tech. (Bio-Tech.)/ B.Sc. (Ag.). No age limit for M. Sc. (Ag.), M. Tech. (Agril. Process and Food Engg.) & Ph.D.

DATE AND TIME OF ENTRANCE EXAMINATION : **B.Sc. (Ag.) / M.Sc. Ag./ M.Tech. (Agril. Process and Food Engg.)/ Ph.D.** May 14, 2006 (10.00 AM to 1.00 PM) **B.Tech. (Biotech):** May 14,2006 (3.00 PM to 6.00 PM)

EXAMINATION CENTRE: Meerut , Bareilly, Lucknow, Allahabad and Agra.

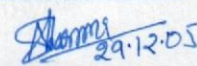
AVAILABILITY OF INFORMATION BROCHURES AND APPLICATION FORMS: Available from March 01, 2006 to April 15, 2006 from the office of the Registrar in person on payment of Rs. 800.00 (Rs. 500.00 for SC/ST) in cash or by post on payment of Rs. 850.00 (Rs. 550.00 for SC/ST) in cash or in form of Demand Draft in the name of Comptroller SVBPUA&T, Meerut payable at SBI, Palhera Meerut (Code 0067) or Meerut branch of concerned bank.

LAST DATE FOR RECEIPT OF APPLICATION FORMS April 24, 2006

Note: University will not be responsible for the postal delay. Reservation will be as per the UP Govt. rules.

Visit us: www.svbpuniversitymeerut.org

(Narendra Sharma)
Registrar


29.12.05
**Registrar/Secretary
Academic Council**