

STATUTE NO. 27 (REVISED)*

Admission of Colleges/Institutions to the Privileges of the University and Withdrawal thereon

[Refer Section Refer clause (xii) of section 24 and clause (j) of Section 35 of the Madhya Pradesh Vishwavidyalaya Adhiniyam, 1973]

1. An application for admission of an educational institution, hereinafter referred to as 'college', to the privileges of the University shall be made :-
 - (a) in the case of a 'college' to be owned and maintained by Government; hereinafter referred to as 'Govt. College' by an Officer authorised by Government in writing for the purpose;
 - (b) in the case of a 'college' to be owned and maintained by an association, society or trust (hereinafter referred to as the 'Foundation Society'), by the Secretary of the Foundation Society, duly authorised by resolution to make the application;
 - (c) in the case of a college to be owned and maintained solely by a person (hereinafter referred to as 'Founder'), by the Founder; and
 - (d) in case of a new subject/faculty/degree class or post graduate class to be added in an existing college (i.e. the colleges referred to in sub-para (a) to (c) above) by the aforesaid person to the respective authority mentioned in Schedule (I) to (IV) of sub-clause (A) of clause (4) and not later than the dates mentioned therein.

Provided that an application presented before the Commissioner, Higher Education or the concerned University, as the case may be, after the dates mentioned in Schedule (I) to (IV), shall be considered for granting sanction or affiliation respectively for the academic year next to that applied for.
2. Following conditions must be fulfilled by the Foundation society for Founder or Governing Body, as the case may be while applying for permission:
 - (i) Founder/Foundation Society must be registered with the Registrar Firms & Societies for Educational purpose. In case of a charitable society or trust it must be registered under the Public Trust Act.
 - (ii) The Society should have adequate building and/or land for starting the Institution/College/Course of the Faculty, provided that it should have not less than 3 Acres land owned or leased for a period of 30 years for opening

* Amended as per decision of the Coordination Committee in its 75th meeting dated 24-9-2005

of College/Institution within Municipal Area of Bhopal, Jabalpur and Indore and 5 Acre and owned or leased for a period of 30 years for all other City/Town, which will be developed within 5 years as per requirement of the village etc. the said land shall be used for the course to be opened.

The Government may issue directions or issue standards about minimum requirements of building and accommodation for time to time keeping in view the course or faculty proposed to be opened.

- (iii) The Society shall have to deposit Fixed Deposit Receipt of Rs. Ten Lacs in the joint name of Commissioner, Higher Education and the Secretary/Chairman of the society for minimum period of five years in a Nationalised Bank or shall have to submit a Bank Guarantee valid for atleast five years of like amount of a Nationalised Bank.

Provided that if the society desires to start a college within the territorial limits of a Village Pachayat, the amount of Fixed Deposit Receipt or Bank Guarantee shall be Rs. Three lacs only for similar period.

- (iv) Society shall have to submit a certificate from the Collector of the district, certifying solvency of value not less than Rs. 15 lacs in the form of immovable property. Building or land in the name of the society are not borrowed on lease in the personal name of the members of the Society.
 - (v) Society shall have to submit their project report for the next five years indicating the approximate income and expenditure to run the proposed institution/college duly certified by the Chartered Accountant.
 - (vi) Society shall have its own land for playground if it is not, the agreement with other institution will have to be submitted.
 - (vii) Society will have to submit its previous background or experience of its members in the field of Education.
 - (viii) Requisite No objection from Town and Country Planning and local body for using that land for setting up of a College/Institution.
 - (ix) College will be permitted to start post graduate courses only after satisfactorily running the undergraduate course continuously for three years in the concerned subject/course.
 - (x) Society will have to deposit an amount of Rs. One lacs for permission of the Govt. through Challan from State Treasury under the prescribed Head.
3. Commissioner, Higher Education shall decide the case within three months. If sanction is refused by Commissioner, Higher Education an appeal may be filed before the State Govt. within ten days from the date of Order of Commissioner, Higher Education. The State Govt. shall decide the same within a period of 20 days.

If an appeal is decided in favour of the appellant, the last date for filing an application by him for granting affiliation for courses mentioned in Schedule II & III shall deemed to be extended by one month. Accordingly the last date for

granting affiliation by University shall also deemed to be extended by similar period.

- 3.A. The State Govt. shall examine the appeal within 20 days. After that the Chancellor of University may give permission to unaided private educational institution for justified reason, to be recorded investing and recommended by department
4. (A) The applicant institution shall apply for affiliation under Section 24(xii) of the Adhiniyam to start new college/class/subjects/courses/faculty, as the case may be, to the Registrar of the concerned University alongwith the copy of the sanction obtained from Commissioner, Higher Education & with a NOC/permission from the concerned State/Central Statutory body, if required; not later than the dates mentioned in the following schedules :-

SCHEDULE-I

For obtaining sanction of the Commissioner, Higher Education and affiliation from the University under Section 24(xii) of the Madhya Pradesh Vishwavidyalaya Adhiniyam, 1973 for Commerce/Arts/Science and other general courses:-

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| (a) Last date for filing application to obtain sanction of Commissioner, Higher Education under Section 24(xii) of the Act for Commerce/Arts/Science and other general courses. | 30, November |
| (b) Last date for filing application to Commissioner, Higher Education for Commerce/Arts/Science and other general courses after due date with late fee as decided by Commissioner, Higher Education | 31, December |
| (c) Last date for issuance of sanction or rejection by Commissioner, Higher Education | 28, February |
| (d) Last date for filing appeal before the State Govt. | 10, March |
| (e) Last date by which appeal be decided by the State Govt. | 30, March |
| (f) Last date for filing application for affiliation to the University. | 10, April |
| (g) Last date for granting affiliation or rejection by the University. | 30, June |

SCHEDULE-II

For obtaining sanction of the Commissioner, Higher Education and affiliation from the University under Section 24(xii) of the Madhya Pradesh Vishwavidyalaya Adhiniyam, 1973 for Education/Physical Education courses:-

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| (a) Last date for filing application to obtain sanction of Commissioner, Higher Education under Section 24(xii) of the Act, alongwith the letter of recognition issued by NCTE and NOC of School Education Deptt. of State Govt. | 30, April |
| (b) Last date for issuance of sanction or rejection by Commissioner, Higher Education | 30, May |
| (c) Last date for filing application to the University for affiliation | 10, June |
| (d) Last date for granting affiliation or rejection by the University. | 25, July |

SCHEDULE-III

For obtaining sanction of the Commissioner, Higher Education and affiliation from the University under Section 24(xii) of the Madhya Pradesh Vishwavidyalaya Adhiniyam, 1973 for Paramedical/Nursing/Dental/Medical courses:-

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| (a) Last date for filing application to obtain sanction of Commissioner, Higher Education under Section 24(xii) of the Act, alongwith the permission/recognition from Medical Council of India/Paramedical Council/Nursing Council etc. and NOC from Medical Education Deptt. of the State Govt. | 15, June |
| (b) Last date for issuance of sanction or rejection by Commissioner, Higher Education | 21, July |
| (c) Last date for filing application to the University for affiliation | 31, July |
| (d) Last date for granting affiliation or rejection by the University. | 31, August |

SCHEDULE-IV

For obtaining sanction of the Commissioner, Higher Education and affiliation from the University under Section 24(xii) of the Madhya Pradesh Vishwavidyalaya Adhiniyam, 1973 for LL.B./LL.M./Five years Integrated course of Law or any other general courses related to Law :-

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| (a) | Last date for filing application to obtain sanction of Commissioner, Higher Education under Section 24(xii) of the Act for Law courses. | 01, January |
| (b) | Last date for issuance of sanction or rejection by Commissioner, Higher Education | 28, February |
| (c) | Last date for filing appeal before the State Govt. | 10, March |
| (d) | Last date by which appeal be decided by the State Govt. | 30, March |
| (e) | Last date for filing of application to the University for issuance of consent for granting affiliation. | 01, May |
| (f) | Last date for issuance of consent letter for granting affiliation by the University for next academic session. | 31, September |
| (g) | Last date for filing application alongwith the permission/ recognition of Bar Council of India for obtaining affiliation to the University. | 30, April
(Next year) |
| (h) | Last date for granting temporary/permanent affiliation by the University. | 30, June
(Next year) |

- (b) Admission fees per each additional faculty with not more than four subjects thereof Rs. 5000/-.
- (c) Admission fee for each additional subject Rs. 2000/-.

II- For Post Graduate Courses other than professional courses.

- (a) Admission fees for faculty with not more than four subjects thereof Rs. 15000/-.
- (b) Admission fee for additional subject Rs. 3000/-.

III- For undergraduate professional courses.

- (a) Admission fees for opening new college or additional courses for professional undergraduate courses Rs. 25000/- per course.
- (b) For P.G. professional courses : Rs. 50000/- per course.

Provided that the Executive Council of the concerning university may revise the above fees time to time.

5. The application for affiliation of new Institution shall be accompanied by Commissioner, Higher Education:-

- (a) Copy of the constitution of the Foundation Society.
- (b) Certified copies of Trust deeds and deeds of the property, if any.
- (c) A certificate from the Commissioner, Higher Education Department showing that the Department has permitted for the establishment of the Institution/college.
- (d) An undertaking that the Founder or the Foundation Society shall before the Institution is granted affiliation, it shall deposit the money with the University Endowment Fund as required by the Statute No. 28 i.e. College Code.
- (e) Copy of the detailed project report including details about proposed teachers, Books & journals and teaching aids & equipments for running the said course.
- (f) List of apparatus/equipment have been prescribed for the courses/subjects as given in appendix I.

Provided that looking to the requirements of the syllabus of the subject or course the University after approval from Academic council may provide for list of books & journals, teaching equipments and aids and such other

items as it may think fit in the interest of standard of instructions in the subject or course.

Provided further that (a), (b) and (d) above shall not be required in case of maintaining college or Institution managed by the Government.

6. In case of an Institution not maintained or managed by Government, the application shall also be accompanied by an undertaking that within three months of the admission of the Institution to the privileges of the University, the Institution or College shall be controlled by the Governing Body constituted in accordance with the provision of the Statute-28 and any change in the composition in respect of the Foundation Society or Founder or any change in the teaching staff shall be forth with to the University.
7. The application for affiliation in a new course/subject/faculty or post-graduate class shall be accompanied by a certificate from the Commissioner, Higher Education showing that the Commissioner, Higher Education has permitted the addition of new course or subject or opening of new faculty or post-graduate class sought by the Institution or College.
 - (a) The fee shall not be refunded unless the application is withdrawn before an inspection has taken place.
8. Alongwith the application as mentioned in para 7 above the authorized officer (viz. secretary) of the Foundation Society or the Founder or the Chairman of the Body as the case may be, shall supply information and undertaking in the application with respect to the following matters, namely:-
 - (a) That having regard to the educational facilities available in the neighbourhood, there is the genuine need of a new subject/faculty/post-graduate class.
 - (b) That the qualifications and adequacy of the teaching staff and the condition governing their employment shall be according to the provision made by the University from time to time;

Provided that every college shall have a full time salaried Principal, at least one full time salaried Asst. Professor in each subject and in case it teaches Commerce atleast three lecturers. Regular teachers shall have to be appointed gradually according to need of the courses, number of students etc. or as directed by the University.

Provided also that requirement of teachers in professional courses will be as per norms of the concerned state/central agencies regulating the instructions in that professional course.

- (c) That the financial resources of the college are such as to make due provisions for its continuous maintenance and efficient working.
- (d) That no student has been and shall be admitted to the college until the admission prayed for has been granted by the University.
- (e) That the buildings in which the college is to be located has a sufficient number of class-room, that the floor space and cubic space of class rooms is suitable and sufficient and that the buildings are otherwise properly located and where the building is not owned by the Foundation Society/Founder, it/he prepared to make an annual contribution as required by the Statutes till the college has its own building adequate for its purposes.
- (f) That adequate provision is made/shall be made for its Library and reading room.
- (g) That suitable provision shall be made for the general supervision and Physical welfare of the students under a duly qualified Physical Instructor on the staff of the college.
- (h) That, if admission is sought in any branch of experimental science or a subject which requires laboratory instruction:-
 - (i) Arrangements have been or shall be made, for which the college has necessary funds at its disposal, for imparting instruction in that branch of Science or subject in a properly equipped laboratory and where necessary, a museum; and
 - (ii) The gas and water supply the apparatus and the chemicals, and the design and general fittings of the laboratories, lecture rooms and museum shall conform to such requirements as may be prescribed from time to time.

With respect to the provision of Sub-para (e), (f), (g) & (h), the University after consultation with academic council may provide for minimum standards of quality and quantity, design required looking into the requirement of syllabus, number of students etc.

The University may also provide for the time period within which all those condition shall have to be complied with, by the applicant, after making the application as referred in para (5) above.

- (i) That the college, if not maintained by Government has sufficient Funds to deposit as Endowment Fund and the Foundation Society/Founder is prepared to deposit the same with the University in such a manner as may

be decided by the Executive Council as a condition precedent to the grant of admission and to authorize the University to utilize the amount at its discretion for payment of the money and the salaries of the college, if such salaries fall into arrears for a period of more than three months, or to pay/adjust toward any arrears that has due to the University.

- (j) That the fee, or any other amount by whatever name it may be called payable by the students shall be fixed in accordance with rates prescribed by the University/State Govt.

Provided that all fees, by whatever name called, paid by the students shall be accounted for in the books of account of the college and shall form part of the college.

- (k) That the rules regarding payment of fees by student in the college shall not be framed with a view to attract students away from an existing institution in the same neighbourhood.

9. (1) Where a college had been given admission for a limited period and desires to apply for extension for a further period permanently after running the course/subject continuously upto five years, the authorised officer or the Chairman of the Governing Body constituted in accordance with the Statutes shall apply in the form prescribed for the purpose and so far as may be necessary supply :-

- (i) Full factual information pertaining to the compliance of all the points, the assurances, and undertakings mentioned in paragraphs 2 and 3.
- (ii) Full factual information about compliance of any conditions, laid down by the Executive Council at the time of giving admission for a limited period, and
- (iii) Such other information as the Executive Council may call for.

- (2) A college shall not be eligible for permanent affiliation unless it has it fulfills the following conditions:-

- (i) The college is on undisputed of land.
- (ii) The college has constructed its own building as per blue print submitted.
- (iii) The college has deposited in full the endowment fund.
- (iv) The college has a duly constituted Managing Committee.
- (v) The staff has been appointed as per prescribed norms and qualifications under the provision of Statute-28 college code.

- (vi) The college fulfils all the conditions stipulated in Statutes & Ordinances of the University.
 - (vii) The staff is being paid full salaries and other allowances regularly and timely.
 - (viii) The college has a duly constituted College Council as per provision of the Statute-28 with proper representation of its teaching staff to advise the Principal on the functioning of the college.
 - (ix) College has sufficient number of books and Journals CD's, Cassettes etc. as required for the course/subject.
 - (x) The college has completed atleast 5 years of satisfactory performance and fulfilled all the conditions of affiliation and has attained the academic and administrative standards as prescribed by the university from time to time.
- (3) The Application for permanent affiliation shall be made to the Registrar on before the 31st December of the year preceding the academic year from which the extension is sought and shall be accompanied by a fee of Rs. 15000/- in each course/subject (Post-graduate) which shall not be refunded.

10. The application received under paragraph 4 or 9 of this Statute shall be submitted to the Registrar. He shall refer the application to the Standing Committee of the Academic Council for specifying the date on/or before which the report of the committee shall be made. In the Committee there shall be atleast one member who is an expert in the subject/course proposed to be started.

The Committee in its inspection shall visit the proposed site of the college, to inspect its facilities, interview its principal & teachers, founder/members of foundation society, neighbourhood. It may call for such information as it may think proper.

On receipt of the report of the Inspection Committee, the Academic Council shall make appropriate recommendations to the Executive Council for the acceptance or rejection of the application.

Provided that where the Academic Council is not likely to meet early, the Standing Committee of the Academic Council may make recommendation to the Executive Council and such recommendation shall be reported to the Academic Council at its meeting immediately following such recommendation by the Standing Committee.

11. (1) After considering the report of the Inspection Committee and the recommendations of the Academic Council/Standing Committee and

after making such further enquiry as it deems fit, the Executive Council may either :-

(a) Communicate to the Commissioner Higher Education and the applicant that it propose to grant the affiliation or any part there of permanently or for a limited period.

OR

(b) Reject the application mentioning therefor.

(c) Communicate to the applicant about the shortcoming found by the University before a final view on the issue of affiliation can be taken by it.

(2) Where the Executive Council proposes to grant the application for any or all the subjects/courses prayed for it shall specify:-

(a) The course or courses of Instruction in which and the standard up to which the college is to be admitted to the privileges of the University; and

(b) The conditions, if any, which the Executive Council considers it proper to impose and the time and manner of fulfilment of such conditions.

(3) Where a communication has been made under sub para 1(a) or (c) above, the compliances of the deadline mention in para 4(A) shall be deemed to be fulfilled.

(4) The orders passed under clause (b) of sub-para (1) above shall be communicated to the applicant by the Registrar.

(5) Where a communication under Para 11 (1)(c) had been made to the applicant, and the applicant after fulfilling the short coming indicated in such communication, informs Registrar about its readiness, the procedure as mentioned in para and 11(1) shall be followed by the University.

(6) Where a college is granted a conditional affiliation as mentioned in para 11(2)(b) the college shall submit the compliance report within the time frame prescribed in the communication. Such compliance report shall be presented before the Executive Council which shall take a final decision on that. Where compliance report is not submitted, Executive Council may withdraw the affiliation after giving an opportunity to state its case in writing to the college.

- (7) No college shall admit any student for instruction in any subject/course without first receiving a communication under para 11(2).
- (8) While granting admission to the students, it shall be the duty of the founder/foundation society/ governing body/Principal to inform and explain status of the affiliation of the college including conditions imposed, if any, under para 11(2)(b) with respect to the concerned subject/course.
- (9) Courses governed by other central statutory bodies normally require consent of affiliation by the concerned University. It must be mentioned in the consent of affiliation that no student should be admitted by the institution on the basis of consent of affiliation.
12. (1) Whenever, as a result of a prejudicial report or otherwise, the Executive Council considers it necessary to initiate action for the withdrawal of all or any of the privileges granted to a college, the Executive Council/Vice Chancellor shall issue a notice to the Founder/Foundation Society or the Governing Body of the college as per the case may be, apprising the said body of the intention of the Executive Council and requiring the said body to show cause why action as intended should not be taken.
- Provided that where a college is admitted to the privileges of the University for a definite period and the admission is not extended for a further period, it shall not amount to withdrawal of privileges.
- (2) The notice under Sub-para (1) shall state :-
- (a) The reasons for which the intended action is contemplated; and
 - (b) The period within which the reply to the show cause notice must reach the Registrar of the University.
 - (c) The Executive Council/Vice-Chancellor for reasons considered sufficient by it, may extend the period for reply from time to time but the total period shall not exceed three months.
- (3) On receipt of reply to show cause notice within the period allowed to the college under sub-paras (2)(b) and (c), the Executive Council may consider the matter in the light of the reply and representation made, if any, by the college concerned, and if no such reply is received, it may consider the matter on the expiration of the said period, and may after consulting the Academic Council/Standing Committee of the Academic Council, make such order as may appear to it proper, including the withdrawal of all or any of the privileges granted to the college, where a resolution withdrawing wholly or partially the privileges of a college is passed by the Executive Council, a copy of the same shall

be sent to the Commissioner, Higher Education and Chairman of the Governing Body or the college concerned.

Conditions governing continuance of admission to privileges of the University

13. (1) Every college admitted to the privileges of the University shall, during all time it continues to enjoy such privileges comply with all the provisions of the Adhiniyam, the Statutes, the Ordinances, the Regulations, and any order or direction of Academic Council/Standing Committee of the Academic Council in so far those apply to such college.
- (2) Without prejudice to the generality of the provision contained in sub-para (1) the college shall in particular comply with the following provisions, namely :-
- (a) All conditions imposed at the time of granting admission shall be duly fulfilled with due expediency;
 - (b) Where the college intends to suspend any course/subject of Instruction, the Governing body shall have to submit prior notice to the University and the State Govt. and after approval of the University and State Govt. College may suspend the course/subject from the next session.
 - (c) The Governing Body required to be constituted under the Statute shall be so constituted within three months from the date of admission and all matters assigned to it by the Statute shall be administered by it;
 - (d) Any transference of management shall be reported to the University forthwith;
 - (e) The qualification and adequacy of the teaching staff and the conditions governing their recruitment terms shall be strictly according to the provisions of the Statutes, State Govt. & Central Bodies regulating instructions in such course/subject;
 - (f) All changes in the teaching staff shall be reported to the University within one month of their taking place;
 - (g) No lecture shall be delivered to more than sixty students at a time unless the Academic Council considering the size, structure, seating arrangements and acoustic properties of each lecture room, and arrangement for tutorials and high standing of the lecturer in

academic excellence permits a larger number of students not exceeding eighty;

- (h) The maximum number of students in a batch for laboratory work under one teacher shall not exceed 20;
 - (i) Every vacancies in the teaching staff of the college that remains unfilled for a period of more than one month shall be reported to the University together with a statement of reasons therefore;
 - (j) It shall maintain records and books of accounts in accordance with directions issued by the University from time to time;
 - (k) It shall submit such annual and periodical returns and other information, in such form and in such manner, as may be required to be submitted by Registrar of the University;
 - (l) The University may lay down the procedure of admission of the students for instruction in any course/subject, which shall be binding on the college.
 - (m) The University may, for the purpose raising the standards of instruction in any course/subject and achieving academic excellence, issue guidelines, list of facilities equipment and teaching aids to be maintained in College, teaching methodology to be adopted, refresher courses to be imported to teachers and such other directions as may be considered necessary by the Academic Council or its standing committee.
- (3)
- (i) The College shall submit itself to the inspection by the University from time to time by one or more competent persons authorised in this behalf by the Executive Council/Vice Chancellor and a report of the inspection shall be presented to the Standing Committee of the Academic Council/Executive Council.
 - (ii) Every College or institution admitted to the privileges of the University shall pa to the University each year by the 31st July in continuation of annual affiliation fees at the rates mentioned below:-
 - (a) Rs.5000/- per Faculty for the Bachelor's degree other than Professional courses, Rs. 8000/- per faculty for Bachelor Degree/Diploma in Professional courses.

Where the affiliation of such colleges or institution is also in respect of Master's degree, fee in addition thereto shall be payable at the mentioned below:-

Rs. 5000/- per subject in any of the Faculties covered by item (a) above other than Professional courses Rs. 10000/- for P.G. Professional courses.

In the colleges/institutions located in sub district leve, 50% of the fee mentioned above will be charged.

- (iii) If the fee payable under Sub-para 3(ii) is not paid by the date specified therein, the affiliation of the College or institution, may be withdrawn.

Provided that the Kulpati may permit the requisite fee to be paid together with an additional amount equal to 25% of the requisite fee within a period of three months from the date mentioned in Sub-para (3)(ii). In the case of such disaffiliation, the University may take such necessary steps as are feasible in the interest of the students.

14. If, for any reason, a college is unable to impart instruction for two continuous years in any subject for which it is granted affiliation, such affiliation shall be regarded as having lapsed.
15. Accounts, registers, proceedings of meetings, and other records of a college shall be shown at the time to inspection by the persons appointed for the purpose under this statute by the Executive Council or the Academic Council/Standing Committee of the Academic Council/Vice Chancellor to conduct any inspection.
16. Every college shall provide adequate and suitable space for outdoor and indoor games, physical exercises, Cultural activities and such other activities as may be decided by the Executive Council of the University.
 - (i) College will have to deposit with the university the fees of Physical, cultural activities etc. as prescribed from time to time.
 - (ii) College shall not collect any capitation fee or donation from any of their students/Employee.
 - (iii) The rates of tuition fee for each course shall be charged from the students as approved by the University/State Govt. from time to time.
 - (iv) All facilities may be provided to SC/ST/OBC/handicapped/women students as per directives of the State Govt. from time to time.
17. (i) Every college shall arrange for medical check up of all its students and for medical aid for students residing in the hostels of the college.

- (ii) For the above purposes, the college shall be entitled to levy an annual fee from each student at the rate prescribed by the University.
- 18. Every college shall whenever called upon by the Registrar to do so, make available its college building, laboratories, furniture, equipments and staff for the conduct of University examination. Refusal or non-cooperation may entail loss of affiliation.
- 19. The Executive Council may, in consultation with the Academic Council require any college, either permanently or for a specified period, to participate in the system of centralized admission by the University or to restrict the number of students in any class or subject, or require the teaching in a college to be confined only to some particular branch. Any such direction or order of the Executive Council shall be given effect to from the beginning of the ensuing academic year after the direction or order is received.

Appendix-I

Minimum Norms for affiliation of New Colleges prepared for the following subjects:-

	<u>Page No.</u>
(A) <u>Arts Faculty</u>	
(1) Drawing & Painting	2
(B) <u>Social Science Faculty</u>	
(2) Geography	2
(3) Psychology	3
(4) Ancient Indian History Culture & Arch.	4
(5) History	4
(C) <u>Faculty of Science</u>	
(6) Geology	5
(7) Chemistry	6
(8) Physics (B.Sc.I,II, III & M.Sc.)	8
(9) Computer Science (B.Sc. I (Comp.Sc. & Application) B.C.A. PG DCA, M.Sc., MCM)	10
(D) <u>Faculty of Life Science</u>	
(10) Botany	13
(11) Microbiology	15
(12) Zoology	18
(13) Biotechnology (B.Sc. I, II, III & M.Sc.)	20
(E) <u>Faculty of Commerce</u>	
(14) Commerce – B.Com. & M.Com.	21
(F) <u>Faculty of Home Science</u>	
(15) B.Sc. (Home Science) & M.Sc.(Home Science)	22
(G) Minimum Norms for other subjects other than science and without practical will be as per syllabus for the course/subject.	

1. चित्रकला एवं उद्रेखण

चित्रकला विषय के लिये कला विभाग में निम्न व्यवस्थाएं अपेक्षित हैं :-

1. कला विभाग में पर्याप्त स्टूडियो, उपकरण प्राकृतिक और कृत्रिम वांछित प्रकाशमय पर्याप्त प्रयोगशाला हो। जिसमें नल, वाश-बेसिन सिंक आदि की सुविधा के साथ व्यावहारिक प्रयोगशाला अपेक्षित है।
2. कला विभाग क विशेषज्ञों/प्राध्यापकों/प्रशिक्षित स्टूडियो सहायक और स्टूडियो परिचारक होना आवश्यक है।
3. चित्रकला विभाग में समस्त स्तरीय कला पुस्तकों कला पत्रिकाओं, पारदर्शियों श्रेष्ठ कलाकृतियों के छापों, रेप्लिकाओं का पर्याप्त संग्रह तथा उसमें प्रोजेक्शन सुविधा, प्रदर्शनी सुविधा, विभिन्न स्टूडियो उपकरण आदि आवश्यक हैं।
4. आदतन कला संग्रहालय, कला दीर्घाएं, कला प्रदर्शनिया आदि देखने और कला गतिविधियों में सकीय भागीदारी और कलाकेन्द्रों की अध्ययन यात्राएं कला छात्रों के वार्षिक प्रशिक्षण कार्यक्रम का अभिन्न अंग हो।
5. पाठ्यक्रम रोजगारोन्मुखी हो।

2. Geography B.A. Part-I, II and III

Requirement for opening and continuing course in geography: Laboratory and theory

- | | |
|----------------|------------------------|
| 1. Class Rooms | at least three 20'x40' |
| 2. Laboratory | at least three 20'x40' |

Requirements:

Maps	World, India, Continents, M.P. Physical and Political weather and other types.
------	--

Glob	2
------	---

Tracing/Drawing Tables	2
------------------------	---

Drawing instruments-Scales, Pens, Set square one set on each group of 5 students.

Survey-	Plane Table and related instruments Chain-Tape and related survey instruments. Prismatic compass and related instruments.
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M.A. I & II Part:

All above plus 1 set on 5 students.

- Sextant
- Dumpy level
- Theodolite
- Maps on different projections
- Cartographic instruments

Sufficient Number of text Books for each papers for Practical and theory plus Atlases
Aircal photographs-Sufficient number Digital emages of remote sensing Toposheets of
Survey of India on all the scales I:250000, I: 50000 etc.

3. Psychology (For Practicals) B.A.

Laboratory- A-Separate hall

1. Tests & equipments as per syllabus of B.A. I year, II year, III year

Staff:

One teacher for	B.A. Ist year
One for	IInd year
One for	IIIrd year
Lab. Astt.	One

4. बी.ए. प्राचीन भारतीय इतिहास एवं संस्कृति

1. प्रत्येक कक्षा की 5 रिफरेंस बुक्स जो वि.वि. के प्रोस्पेक्टस में निर्धारित की गई हो। (प्रत्येक पेपर की 5-5 रिफरेंस बुक्स)
2. नक्शे-वृहत्तर भारत, मौर्य साम्राज्य, अशोक का साम्राज्य, गुप्त साम्राज्य, हर्ष का साम्राज्य, दक्षिण भारतीय शासकों के नक्शे तथा पूर्व मध्यकाल के राजवंशों के नक्शे। प्रदेश व देश में स्थित पुरातात्विक व ऐतिहासिक स्थलों को दिखाने वाले नक्शे/एटलस आदि। (सभी उपलब्ध नक्शे की प्रतियाँ)
3. मंदिर सतूप मूर्तियों व मुद्राओं के P.O.P. के माडल/ (5 मंदिर जिनमें सतूप भी शामिल हो, 5 मूर्तियाँ 10 सिक्के)
4. बी.ए. हेतु छात्र संख्या कम से कम 10 तथा अधिक से अधिक 40 छात्र।
5. यू.जी.सी. के मापदंडों के आधार पर नियुक्त प्राध्यापक।

5. (अ) बी.ए. इतिहास

1. प्रत्येक कक्षा की प्रत्येक पेपर की 5-5 रिफरेंस बुक्स जो वि.वि. के प्रोस्पेक्टस में वर्णित हों।
2. प्राचीन, पूर्व मध्यकाल, मध्यकाल तथा आधुनिक काल, यूरोप, विश्व तथा भारत के समीपस्थ स्थित राष्ट्रों के नक्शे एक-एक प्रतियों में (लगभग दस नक्शे होना चाहिए)
3. न्यूनतम 10 छात्र व अधिकतम 40 छात्र हों।

(ब) एम.ए. इतिहास

1. प्रत्येक पेपर की 5-5 रिफरेंस बुक्स जो सिलेबस में वर्णित हों।
2. प्राचीन भारत के 1200 ई. तक के 5 नक्शे, 5 मध्यकालीन इतिहास, 4 आधुनिक काल के, 1 विश्व इतिहास का, 2 यूरोप के इतिहास का तथा 5 नक्शे समीपस्थ राष्ट्रों के हों।
3. विभागका एक कक्ष होना चाहिए।
4. छात्र संख्या कम से कम 5 तथा अधिकतम 20 होना चाहिए।
5. यू.जी.सी. मापदंडों को पूर्ण करने वाले प्राध्यापक।

6. Geology

Requirement for opening B.Sc. I Geology Laboratory

Room Size : 30'x20' to accommodate 30 students in Batch

No. of Experiments : 10
 Furniture : 6'x3'x3' Table – 4 nos.
 Stools- 15 nos.

Almiras with Glass : 2 Nos.
 Chairs : 2 Nos.

Lab Equipments:

- | | | | |
|-----|---------------------------------------|---|---------|
| 1. | Geological Map of India and M.P. | | |
| 2. | Physiographical Map of India and M.P. | | |
| 3. | Geomorphological Models | - | 10 Nos. |
| 4. | Hand specimens of Minerals | - | 20 Nos. |
| 5. | Hand specimens of Rocks | - | 20 Nos. |
| 6. | Contact Goniometers | - | 6 Nos. |
| 7. | Walker Steel yard | - | 6 Nos. |
| 8. | Crystal Models | - | 10 Nos. |
| 9. | Microscopes (Petrological) | - | 2 Nos. |
| 10. | Thin Sections of Minerals | - | 10 Nos. |
| 11. | Handness Box | - | 2 Nos. |
| 12. | Streak plates | - | 12 Nos. |
| 13. | Pen kneif | - | 2 Nos. |
| 14. | Lens (Magnification 10x) | - | 5 Nos. |
| 15. | Clinometers | - | 5 Nos. |

Requirement for opening B.Sc. II Geology Laboratory

Lab Equipments:

- | | | | |
|----|----------------------------|---|---------|
| 1. | Structural Models | - | 10 Nos. |
| 2. | Structural Maps | - | 10 Nos. |
| 3. | Stratigraphic column chart | - | 1 Nos. |
| 4. | Plant Fossils | - | 10 Nos. |
| 5. | Invertibrate Fossils | - | 20 Nos. |

Requirement for opening B.Sc. III Geology Laboratory

Equipments:

- | | | | |
|----|--|---|------------------|
| 1. | Petrological Microscopes | - | 2 Nos. |
| 2. | Hand specimens of Rocks | - | 5 Nos. – Igneous |
| 3. | Hand specimens of Metamorphic Rocks | - | 10 Nos. |
| 4. | Hand specimens of Sedimentary Rocks | - | 10 Nos. |
| 5. | Thin Sections of representative Igneous, Metomorphic & Sedimentary Rocks | - | 20 Nos. |
| 6. | Hand specimens of ore Minerals | - | 20 Nos. |
| 7. | Chart showing different textures and structures | - | 10 Nos. |

7. Chemistry

Building, Staff & Infra-structure required for opening a new, science college with special reference to CHEMISTRY

Requirements	For B.Sc. I, II & III	For M.Sc. Prev. & Final
(A) Building, Class rooms	Class rooms 01+01+01 = 03 size (15x25)	01+01=02 (size 15x25)
Hall & Library	One hall+ one Library	Some hall+ Additional Library+ Journals
Computer lab+ Laboratory (Chemistry)	Computer Lab 30'x20' Lab 01 (one each for) I, II, III yr.	+Lab 30x40 Prev. Final 01 +01
Hostel for Girls & Garden	Hostel 01, Garden 01	same
(B) STAFF Principal	Qualified confirmed Principal	Room (20x20) Office (20x20) Urinals etc, toilets, 20x20 Girls, (20x20) Separate
Teachers Sports Officer	B.Sc. I II III 02 02 02 Sport Officer one only	M.Sc. Prev. 42m, M.Sc. Final 02, Girls Common Room (20x30) + Staff (20x30)
Lab Assistant & Lab Attendent (CHEM)	B.Sc. I II III 2+2	M.Sc.Prev. 01, M.Sc.(F):01 (Sports, Stores-20x20)
(C) CHEMISTRY LAB	One Chemistry Lab (20x30)	One Lab (30x40) One Lab (30x40)
Instrument Lab	One Lab only (20x20)	One Lab only (20x20)

Balance Room+Store	01+01 (15x20)	01+01 (15x20)
Instruments required	Chromatography kit, pH meter, colorimeter, conductivity meter	+ Polarimeter, Potentiometer, Spectrophotometer, Flames, photometer
Apparatus etc.	Refragirator, oven, Deioniser, exhaust, Gas system, First aid box	+ Fumming chamber, distillation unit, Balances, Fire extinguisher, kipp's apparatus, suction pump
Glass ware etc.	List is attached herewith	" " "
Chemical Inorganic	List is attached herewith	" " "
Organic chemicals & solvents	List is attached herewith	" " "

Inorganic Chemicals:

Chlorides, bromides, iodides, carbonates, sulphates oxides, nitrates, acetates, sulphides and sulphites of NH_4^+ , Cu^{++} , Ag^+ , Hg^+ , Pb^{+4} , Bi^{+3} , Cd^{+2} , Fe^{+3} , Cr^{+3} , Zn^{+2} , Mn^{+2} , Ni^{+2} , Co^{+2} , Ca^{+2} , Sr^{+2} , Ba^{+2} and Mg^{+2} and reagents, acids like-HCL, HNO_3 , H_2SO_4 , Cone & dilute NaOH, NH_4OH , H_2S etc.

Organic compounds

Acids viz. oxalic, succinic, Tartaric, Benzoic, citric, Phthalic, Cinnamic, Salicylic, Phenol, α -Naphols, ovals, Aldehydes, Ketones, nitrocompounds, Amines, amides, urea, esters, sugars, amino, acids, dyes, indicators etc, Acetanilide, Fehling's solution, Ninhydrin, HClO_4 , EDTA, m-phenylene di amine.

Solvents: Benzene, toluene, xylene, acetone, methyl alcohol, ethyl alcohol, dioxane, ether, DMF, DMSO chloroform, CCl_4 , esters, Pyridine, Acid, nitrobenzene CS_2 etc.

8. (A) B.Sc. II (Physics), B.Sc. III

Lab Area 30x20 for 30 students

Total practicals (minimum) 15 from the prescribed syllabus with at least 2 from group A, B, D, E, F and at least one from group C, G & H.

Books: As per prescribed text book 60 text books from the syllabus of B.Sc. II & 50 books from syllabus of B.Sc. III for each paper.

Other Infrastructure-

CRO -	1
Function Generator-	2
Regulated Power Supply- (0-30 V, 1 Amp.)	3
Multimeters -	6

(B) Physics B.Sc. 1 for 30 Students

Lab:

As given in the check list.

Books- 60 books per paper as prescribed in the syllabus of B.Sc. 1

**(C) M.Sc. Physics, Prev.
(for 20 students)**

Lab:

Dark Room	20'x20'
General Lab	20'x20'

List of Experiments: Minimum 10

1. Michelson interferometer and measurement of thickness of thin film
2. Zeeman effect study uses constant deviation spectrometer
3. Study of diffraction by a straight edge and slit using a laser source
4. Velocity of ultrasonic waves in liquids
5. Characteristics of a GM counter
6. Resistivity of a semiconductor by four probe
7. Determination of type and carrier concentration in a semiconductor using Hall Effect.
8. Millikons' oil drop experiment.
9. Frequency resonance of a RC compled amplifier with & without feedback.
10. Study of a sine, square and ramp-generator using 741.
11. Study of a Differentiating and integrating circuit uses 741.
12. Study of a series regulated power supply.

Equipments-	CRO- 2	Soldering station	-1
	Function Generator- 3	Multimeter-	5
	Bread board - 10		

(D) M.Sc. Physics (F)

Minimum of 10 experiments from the prescribed syllabus

Books- Minimum 100 books from the prescribed syllabus.

9. Computer Science M.Sc. (CS) and MCM

Area of Lab : 20'x20'

Additional Hardware : One server PIV or higher

(other than that being used for B.Sc./BCA/PGDCA): 20 Nodes (one node per student)

P III or higher with 40 GB hard disk-under LAN

UPS- One on line for server.

The nodes must have an on/off line UPS power back up.

Modem with internet.

Printer – Dot matrix 132- 2

Inkjet/laser - 1

Softwares-

1. Network operating system

2. Language compilers for C++
Cobol, Java, Visual Basic.

3. Packages- M.S. Office, Oracle

4. Windows 98 or Fox Pro/dBase, Later version.

For the computer lab, there must be one qualified computer professional having PG degree in Comp. Sc./Information Technology/Comp. Application with preferably having passed a Microsoft international certification or M.Sc. (Math) or (Physics) with PGDCA with 5 years teaching experience.

Books: Five copies of the books, recommended in the syllabus of the course
Annual subscription of at least three computer magazines.

Practicals- Minimum 15 experiments out of the list prescribed in the syllabus for each year of the course.

(B) B.Sc. (CS)/B.Com., B.Sc. Computer Application

B.Com. for 30 student

Lab Area-	30'x20'= 600 Sq-feet.
Hardware-	15 M. of PC required. P.III Processor with 15" Colour Monitor atleast 20 GB Hard disk.
Printer-	One DMP (Dotmatrix Printer) Lazer or Inkjet 132 9 pin.
Software-	Windows & DOS/C/C++ Compiler Fox Pro/dBase/Oracle
UPS-	Offline to support 15 No. PC
Faculty-	PG Degree in Computer Science/Computer Application/M.Sc. (IT), M.Sc.(Maths), M.Sc.(Physics) with PGDCA with three year teaching experience
Books-	Recommended as per syllabus. All necessary requirements for Experiment.
Experment:	(all the Experiment listed in the syllabus).

(C) B.C.A./P.G.D.C.A.

Lab Requirement for opening for 30 student

Lab Area-	30'x20' Lab Equipped with furniture
Hardware-	
Server	P-IV or higher with 17" Colour Monitor, Hard disk 2x40 GB
Nodes	15 nos. of P-III or higher with 15' colour monitor. All nodes with 20 GB hard disk under LAN
Printer	Showed inkjet or high 2 number/Dotmatrix
Modem with internet connection.	
UPS	For server on line. For nodes offline
Software	Networking software for 15 terminals Language compiler for C/C++
List of Experiments-	Atleast 15 experments from the list prescribed in the syllabus.

(D) B.Sc. II/III Computer Science/Computer Application**For 30 student in each year****Lab area – 30x20**

Additional Nodes- ISI P-III or higher with hard
Software- Disk under LAN
Fox Pro, and statistical package.

Lab-I- Experiments for B.Sc. IInd

1. Frequency distribution and its graphical representation.
2. Measures of dispersion.
3. Measures of central tendency.
4. Computation of moments (ungrouped and grouped data).
5. Measures of skewness & kurtosis.
6. Computation of coefficient of correelation scatter diagram (ungrouped data)
7. Fitting of binomial and poisson distribution.
8. Fitting of lines of regression (ungrouped data).
9. Fitting of degree and exponential curves.
10. Fitting of multiple regression plane and computation of multiple and partial correlation coefficient.
11. Sitting normal distribution.
12. Large sample tests for means & proportion.

Lab-II Excercises on :

1. Creating data base.
2. Using commands to list files, selection criteria etc.
3. Using Fox & pro master file
transation file, forms, design, using multiple file in reports.

For B.Sc. III : 15 experiments prescribed in the syllabus.

(10) Botany**Minimum requirement (For 30 students)
to grant affiliation in BOTANY**

	Glass-wares	
	B.Sc.	M.Sc.
Plain Slides Box	5	10
18 mm Cover slips (10 grams boxes) Watch glass	10	25
Peri dishes	12 doz.	25 doz.
Dropping Bottles	6 doz.	10 doz.
Conical Flask 500 ml	6 doz.	10 doz.
Measuring Cylinders		
10 ml	2 nos.	2 nos.
50 ml	2 nos.	2 nos.
100 ml	2 nos.	2 nos.
Beakers 500 ml	1 doz.	2 doz.
Burette	3 nos.	3 nos.
Pipette	3 nos.	3 nos.
test tubes	6 doz.	10 doz.
Specimen Jars	10 doz.	15 doz.
Physiology apparatus	20 nos.	30 nos.
Spirit lamps	5 nos.	10 nos.

Minimum requirement (For 30 students)to grant affiliation in BOTANY

	B.Sc.	M.Sc.
Saffranin	50 gr.	50x3
light green	50 gr.	50x3
Carmin	25 gr.	25x3
Formalin 500 ml	3 bottles	5 bottles
HCL 500 ml	2 bottles	3 bottles
Glycerine 500 ml	5 bottles	10 bottles
Chloroform 500 ml	1 bottles	3 bottles
Absolute alcohol 500 ml	3 bottles	10 bottles
Lactic Acid	100 gr.	100x3
Lactic Acid 500 ml	3 bottles	5 bottles
Phenol	50 gr.	500 gr.
Cotton Blue	50 gr.	100 gr.

Minimum requirement (For 30 students) to grant affiliation in BOTANY

Permanent articles	B.Sc.	M.Sc.
Compound Microscope	5	10
Dissecting Microscope	5	10
Chemical/Physical Balance	2	2
Digital Balance	1	1
Electric oven	1	1
Incubator	1	1
Hot plate	1	1
Water Distillation Plant	1	1
Centrifuge	1	1
Spectrophotometer	1	1

Minimum requirement (For 30 students) to grant affiliation in BOTANY

Botany Laboratory -	20'x30'
Class room -	15'x20'
Teachers -	Minimum 2 Teachers for B.Sc. & additional 2 teachers for M.Sc.

Class work materials-

Model
Museum specimens
Charts
Soil testing kit
Herbarium.

(11) MICROBIOLOGY

Requirement for opening B.Sc. I Microbiology Laboratory

Room size 30'x20' to accommodate 30 students batch. No. of experiments 20.

Furniture-	Table (size 6'x4'x3')	-	8 nos.
	Stools	-	15 nos.
	Almirahs	-	3 nos.
	Chairs	-	4 nos.

Lab Equipments-

1. Laminar air flow	01
2. Incubator	01
3. Autoclave	01
4. Colorimeter/spectrophotometer	01
5. pH meter	01

6. Refrigerator	01
7. Water baths	02
8. Heating mantles	03
or Heating Assembly	01
9. Soxhlet apparatus	03
10. Centrifuge (10000-16000 rpm)	01
11. Mecchanical shaker	01
12. Single pan digital balance	01
13. Chemical balance (Analytical)	02
14. Weight boxes	02
15. Burettes	12
16. Pipettes	12
17. Separating funnels	04

Glass wares-

1. Boiling test tubes	3 doz.
2. Ordinary test tubes	10 doz.
3. Watch Glasses	30 nos.
4. Petri plates (10 cm diameter)	30 pairs
5. Beakers 500 ml	6 nos.
6. Beakers 250 ml	6 nos.
7. Beakers 100 ml	12 nos.
8. Conical flasks 500 ml	6 nos.
9. Conical flasks 250 ml	6 nos.
10. Conical flasks 100 ml	12 nos.
11. Durham's tubes	2 gross
12. Glass slides	3 packets
13. Cover slips	6 small pecks
14. Dropping bottles	20 nos.
15. Distillation assembly	01

Culture Media:

Nutrient Agar	500 g
Nutrient broth	500 g
Mycological broth	500 g
Lectose broth	500 g
EMB Agar	500 g
Compound microscopes	6 nos.
Dissecting microscopes	6 nos.

Miscellaneous items :

1. Burette stands	15 nos.
2. Wire gauge	12 nos.
3. Spirit lamps	06 nos.
4. Tripod stands	12 nos.

5. Large & medium size forceps	1 each
6. Small forceps	6 nos.
7. Scissor	2 nos.
8. Scalpel	3 nos.
9. Cork borer	2 nos.
10. Sprayers for chromatography	2 nos.
11. Rubber tubing	30 ft.
12. Bottle brushes	6 nos.
13. Drawing brush 0 & 1 no.	3 each
14. Specimen tubes	20 nos
15. Specimen jars (8")	20 nos
16. Staining Racks	6 nos

STAINS and dyes:

1. Crystal violet
2. Methylene blue
3. Crystal red
4. Gram's Iodine
5. Safranin
6. Cong. red
7. Cotton blue
8. Suden-III
9. Methyl range
10. Carmine
11. Eosin
12. Gention violet

(12) (Minimum requirements for 30 students)
to grant affiliation in Zoology

	B.Sc.	M.Sc.
Laboratory	20'x30'	20'x30'
Class room	15'x30'	15'x30'
Teachers	2 (Two)	2 (Two)
Lab Assistant	One	One
Compound Microscope	5 nos	10 nos
Dissecting Microscope	5 nos	10 nos
Binocular	3 nos	5 nos
Permanent Slides	50 nos	100 nos
Models	25 nos	100 nos
Animal Cage	1 No.	1 No
Museum specimens	25 nos	50 nos
Charts	15 nos	50 nos
Acquarium	1 No.	1 No.

Glass wares:

Plain slides	10 boxes	20 boxes
18 mm Cover slips	20 (15 mgs)	30 (mgs)
Watch glass	10 pkts	25 pkts
Petri dishes	5 doz.	10 doz.
Specimen jars	50 Nos.	100 Nos.
Conical flask	2 doz.	5 doz.
Spirit lamps	3 nos.	5 nos.

Permanent articles:

Spectrophotometer	1 nos.	1 nos.
Electric oven	1 nos.	1 nos.
Digital Balance	1 nos.	1 nos.
Physical/Chemical Balance	2 nos.	3 nos.
Incubator	1 nos.	1 nos.
Microtome	1 nos.	1 nos.
Centrifuge	1 nos.	1 nos.

Chemicals:

1. Acetic Acid	2 bottle 500 ml	3x500 ml
2. Abs. Alcohol	3 bottle 500 ml	5x500 ml
3. Glycerine	5x 500 ml	10x500 ml
4. Formalin	5x 500 ml	10x500 ml
5. Carnoy's Fixative	2x 125 ml	5x125 ml
6. Carmin	2x 25 gr.	5x 25 gr.
7. Alzarine Red	3x 125 ml	5x125 ml
8. Aniline Blue	3x 125 ml	5x125 ml
9. Orcin	3x 25 gr.	5x 25 gr.
10. Leishmans' stain	5x 100 ml	5x100 ml
11. Light green	3x 10 grams	5x10 gr.
12. Safranin	3x 25 grams	5x25 gr.
13. Sudan III	3x 10 gr.	5x10 gr.
14. Pycric Acid	3x 500 ml	5x500 ml
15. Fuchsin acid	2x 100 gr.	10x gr.
16. Borax powder	3x 500 grams	5x500 gr.
17. Mercuric chloride	3x 500 grams	5x500 gr.

(13) Biotechnology Laboratory Requirements for opening B.Sc.I

Class room size - 15'x25'

Room size for Lab - 30'x20' for accommodation of 30 students

No. of experiments – 15

Furniture-	Table size 6'x4'x3'	-	8 nos
	Stools	-	30 nos
	Almirah	-	3 nos
	Glass	-	4 nos

Computer room 20'x30' computer 05 nos.

B.Sc. I, II year Bio-technology Practical

Instruments

1. Centrifuge
2. Colorimeter
3. pH meter
4. Water bath
5. Chromatography chamber
6. Electrophoresis instrument
7. Balance
8. Incubator
9. Distillation plant
10. Refrigerator
11. Microscope
12. Dissection Box
13. Mortar Pastele

Glass ware

1. Test tube small size
2. Boiling T.T.

Chemicals

1. Amino Acids
2. HCL
3. H₂SO₄
4. HNO₃
5. NaOH
6. KOH
7. CaCl₂
8. Nutrient medium
9. KMnO₄
10. Leishmans stain
11. Eosin
12. Haematoxylin
13. Lactose
14. Methylene Blue
15. Acetone
16. Absolute alcohol

