

## ORDINANCE FOR MASTER OF SCIENCE (Tech.) IN ENVIRONMENTAL MANAGEMENT

## I. General Regulations :

1. The degree will be a postgraduate and will be titled as Master of Science (Tech.) in Environmental Management.
2. Institution : The course will be conducted by Institute of Environment Management and Plant Sciences, Vikram University, Ujjain.
3. Course : The courses will be approved by separate Board of Studies in Environment Science.
4. Advisory Bodies : The programme of M.Sc. (Tech.) in Environmental Management will be regulated by Central Advisory Committee (CAC) or such body of the University constituted by Vice-Chancellor. The Departmental (Course) Advisory Committee (DAC) will also be constituted by Vice-Chancellor which will look after academic activities of M.Sc.(Tech.) in Environmental Management. Departmental Advisory Committee will consist of Head of the Department, Course Coordinator and two members of faculty.
5. Programme : M.Sc.(Tech.) in Environmental Management will be a full-time programme and will be completed in four semesters spread over two years. A student admitted to M.Sc. (Tech.) in Environmental Management cannot join any other full-term course neither can appear for any other degree examination privately.
6. Number of Seats : (i) Total number of seats will be 16 which can be revised by CAC for each academic session to a maximum of 20. Reservation will be according to existing rules of M.P. Govt. as adopted by the University. If candidates for reserved seats are not available, the seats will be filled from general category. (ii) of the total seats 25% seats will be high payment seats i.e. 4 out of 16.
7. Medium : Medium for entrance test and instructions will be English.

## II. Admission :

1. Eligibility : Minimum requirement to admission to M.Sc. (Tech.) in Environmental Management will be Bachelor degree with atleast 50% marks in Science, Agriculture, Veterinary, Engineering or any such course.
2. Selection : Admission to M.Sc.(Tech.) in Environmental Management will be on the basis of merit in entrance test on all India basis. The mechanism of conducting this test will be formulated by the Course Advisory Committee. The high pay seats will be allocated on the basis of the merit of the entrance test. (ii) In case two students get equal marks, the selection will be on the basis of age and if age is also same, percentage of marks in Bachelors degree.

## ORDINANCE NO. 66

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5. Programme : M.Sc. (Tech.) in Environmental Management will be a full-time programme and will be completed in four semesters spread over two years. A student admitted to M.Sc. (Tech.) in Environmental Management cannot join any other full-term course neither can appear for any other degree examination privately.
6. Number of Seats : (i) Total number of seats will be 16 which can be revised by CAC for each academic session to a maximum of 20. Reservation will be according to existing rules of M.P. Govt. as adopted by the University. If candidates for reserved seats are not available, the seats will be filled from general category. (ii) of the total seats 25% seats will be high payment seats i.e. 4 out of 16.
7. Medium : Medium for entrance test and instructions will be English.

## II. Admission :

1. Eligibility : Minimum requirement to admission to M.Sc. (Tech.) in Environmental Management will be Bachelor degree with atleast 50% marks in Science, Agriculture, Veterinary, Engineering or any such course.
2. Selection : Admission to M.Sc. (Tech.) in Environmental Management will be on the basis of merit in entrance test on all India basis. The mechanism of conducting this test will be formulated by the Course Advisory Committee. The high pay seats will be allocated on the basis of the merit of the entrance test. (ii) In case two students get equal marks, the selection will be on the basis of age and if age is also same, percentage of marks in Bachelors degree.

## III. Degree requirement :

1. Course contents : Course contents for M.Sc. (Tech.) in environmental Management programme will be suggested by DAC and approved by the Board of Studies in Environment Science :
  - (a) Theory papers and practicals.
  - (b) Seminars, library and computer assignments & tests.
  - ~~(c) Project work and visit to factory/industry/site of developmental project/laboratory/leading centres of research.~~
2. Attendance : Normally a student is expected to be present on all working days but a minimum 75% attendance will be compulsory for appearing in University examination.
3. Allotment of Marks : Total weightage of marks for four semesters will be 2000 and splitted with a provision of internal examination for a maximum of 25% marks.
4. Result : The student will be required to pass in each examination/tests/assessments separately by securing 40% marks. In theory the minimum marks to be secured in each paper will be 20% otherwise the candidate will be declared fail or will be given ATKT as the case may be. For passing in theory internal assessment marks of that paper will not be added but passing in internal assessment separately is compulsory. The divisions will be awarded as follows :

First Division : 60% or above  
 Second Division : 50% or more but less than 60%  
 Pass Division : Below 50% and above 40%

## IV. Examination :

- (a) Internal Examination : Students performance will be evaluated throughout the semester by theory and practical tests, seminar, group discussion and library / field assignments.
- (b) University Examination and Results : (i) The course entitled theory , practical, project work etc. will be evaluated by university examiners at the end of each semester. (ii) In theory examination minimum marks to be obtained is 20% in each theory paper otherwise the candidate will be declared fail or given ATKT as the case may be. (iii) ATKT can be given in a maximum of two theory papers in one semester even if the candidate gets less than 20% marks. However, a candidate shall be declared fail if he/she fails to secure 40% marks in practicals, internal assessment, project work and other such assignments, separately. (iv) Only two attempts can also appear as ex-student and shall be given two attempts only. (v) In no case any student can be admitted to III & IV semesters if he/she is carrying ATKT load of more than three theory papers. (vi) There will be no supplementary or second examination and ATKT examination will be conducted in next semester.

new structure :

Course fee for each academic session will be decided by Central Advisory Committee or any such body of the University on recommendation of the Departmental Advisory Committee.

VI. Disputes and Provisions :

In all other matters not covered in this ordinance shall be governed by provisions of the relevant ordinances of other post graduate courses of the university, so far so as they are not inconsistent with the provision of the ordinance.

VII. Academic Misconduct :

Any act of academic misconduct will be dealt under the rules prevailing for other post graduate courses of University.

COURSE DETAIL WITH MARKS

SEM I		HRS	
A Theory	UE	IA	
1. Paper I	75	60	180
2. Paper II	75	T/S	60
3. Paper III	75		
4. Paper IV	75		
B. Other Assignments:			
(i) Practicals	100		100
(ii) Contact Programme & Library Assignments/ Field Work		20	50
(iii) Computer Applications		20	50
Total Marks	500 = 400	100	

SEM II			
A. Theory	UE	IA	
1. Paper V	75	60	
2. Paper VI	75	S&T	
3. Paper VII	75		
B. Other Assignments:			
(i) Practicals & Computer Applications	100	15	
(ii) Survey Report	100		
(a) Evaluation	50		
(b) Presentation & Discussion	(25+25)		
(iii) Viva Voce/6D		25 (10+15)	
Total Marks	500 = 400	100	

## SEM III

A. Theory	UE	IA
1. Paper VIII	75	45
2. Paper IX	75	100
3. Paper X	75	
B. Other Assignments:		
(i) Practicals	75	25
(ii) Project Work	100	30
Total Marks	500 = 400	100

## SEM IV

1. On Site / Summer Training	UE	IA
(i) Evaluation	100	50
(ii) Presentation & Discussion	100	
2. Overview Test & Seminar	100	25
3. Comprehensive viva	100	25
Total	500 = 400	100

Note: T = Tests, S = Seminar, UE = University Exam, IA = Internal Assessment.

## THEORY PAPERS

1. Ecology, Ecosystems and Environment Science.
2. Environment: Global and Regional Issues.
3. Environment Management : Issues & Concepts.
4. Ecological Statistics, Systems Analysis and Computer applications.
5. Ecomanagement of Resources.
6. Ecotechnology.
7. Environment - Monitoring and Analysis.
8. Environmental Engineering & Pollution Control Technology.
9. Energy and Waste management.
10. EMS System - EIA, EA, ISO.

## Faculty :

1. Dr. P.S. Dubey, M.Sc., Ph.D. Professor and Head
2. Dr. V.P. Singh, M.Sc., Ph.D. Professor
3. Dr. O.P. Mall, M.Sc., Ph.D. Professor
4. Dr. D. Amritphale, M.Sc., Ph.D. Professor
5. S.K. Billore, M.Sc., Ph.D., D.Sc. Professor
6. Dr. (Mrs.) S. Mall, M.Sc., Ph.D. Professor
7. Dr. R.C. Verma, M.Sc., Ph.D. Reader
8. Dr. D.M. Kumawat, M.Sc., Ph.D. Sr. Lecturer

Approved. Both. CC Meeting held on 25 June 1999. \* \* \*

## Ordinance No.57

## ORDINANCE FOR MASTER OF SCIENCE IN MICROBIOLOGY

## I. General Regulations :

1. The degree will be a postgraduate and will be titled as Master of Science in Microbiology ( M.Sc. Microbiology ).
2. Institution : The course will be self-financing programme of Vikram University, conducted by Institute of Environment Management and Plant Sciences, Vikram University, Ujjain.
3. Courses : The courses will be approved by separate Board of Studies in Microbiology.
4. Advisory Bodies : The programme of M.Sc. Microbiology will be established by Central Advisory Committee ( CAC ) of the University constituted by Vice-Chancellor. The Departmental ( Courses ) Advisory Committee ( DAC ) also constituted by Vice-Chancellor will look after academic activities of M.Sc. Microbiology. Departmental Advisory Committee will consist of Head of the Department, Course Coordinator and two members of faculty.
5. Programme : M.Sc. Microbiology will be a full-time programme and will complete in four semester spread over two years. A student admitted to M.Sc. Microbiology cannot join any other full-term course neither can appear for any other degree examination privately. Further, a student of M.Sc. Microbiology cannot undertake any employment.
6. Number of Seats : Total number of seats will be 12 which can be revised by CAC for each academic session to a maximum of 20. Reservation will be according to existing rules of M.P. Govt. as adopted by the University. If candidates for reserved seats are not available, the seats will be filled from general category.
7. Medium : Medium for entrance test and instructions will be English.

## II. Admission :

1. Eligibility : Minimum requirement to admission to M.Sc. Microbiology will be B.Sc. degree with atleast 50% marks and with Chemistry as one subject and two other subjects of life science (Botany, Zoology, Microbiology and allied subjects).
2. Selection : Admission to M.Sc. Microbiology will be on the basis of merit in entrance test on all India basis. The mechanism of conducting this test will be formulated by the Central Advisory Committee.

If two students get equal marks, the selection will be on the basis of age and if age is also same, percentage of marks in B.Sc. degree.

### III. Degree requirement :

1. Course Contents : Course contents for M.Sc. Microbiology programme will be suggested by DAC and approved by the Board of Studies in Microbiology :

- (a) Theory papers and practicals.
- (b) Seminars, library and computer assignments.
- (c) Project work and factory/industry visit.

A student has to work out a project under a supervisor. The project can be worked out in any recognised institution/industry /factory/laboratory.

2. Attendance : Normally a student is expected to be present on all working days but a minimum 75% attendance will be compulsory for appearing in University examination.

3. Allotment of Marks : Total weightage of marks for four semesters will be 1600 and splitted as :

Internal Examination : 300  
University Examination : 1300

The student will be required to pass in each examination/tests/assessments separately by securing 40% marks. In theory the minimum marks to be secured in each paper will be 20% otherwise the candidate will be declared fail. The divisions will be awarded as :

First Division : 60% or above  
Second Division : 50% or more but less than 60%

### IV. Examination :

(a) Internal Examination : Students performance will be evaluated throughout the semester by theory and practical tests, seminar and library assignments. Evaluation will be done by board of internal examiners approved by DAC. A student will be allowed to appear in University examination after securing 45% marks in internal examination.

(b) University Examination : The courses entitled theory, practical and project will be evaluated by University examination at the end of each semester.

The student has to submit the project report before the examination of the IV semester. Final evaluation of the project will be done by board of internal and external examiners appointed by Vice-Chancellor.

A student failing in two theory papers ( but securing 20% marks in one semester and secured 40% marks in paper cleared off but failing in aggregate will be allowed to keep the term examination and will be promoted to next semester. But in no case he/she will be admitted to III and IV semester if carrying a load of more than three papers.

There will be no supplementary or second examination. ATKY examination will be conducted in next semester. Only two attempts will be given to clear ATKY papers. If declared fail, then also two attempts will be given as ex-student.

V. Fee Structure :

~~Course fee for each academic session will be decided by Central Advisory Committee on recommendation of Departmental Advisory Committee.~~

VI. Academic Misconduct :

Any act of academic misconduct will be dealt under the rules prevailing for other post graduate courses of University.

VII. Disputes and Provisions :

In all matters of disputes and provisions not covered in the ordinance, the decision of Vice-Chancellor will be final.

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Approved by 60th. C. C. Meeting held on 25th June/99



## VIKRAM UNIVERSITY UJJAIN (M.P.)

ORDINANCE NO. 58

Ordinance and Regulations relating to the Degree of Ayurveda Vachaspati-M.D.  
(Doctor of Medicine-Ayurveda)

## 1. AIM AND OBJECT

The aim of the Post-graduate degree course shall be the orientation in specialities and super specialities and to produce experts and specialists who can be competent and efficient teachers, clinicians, surgeons, pharmacists, research workers and profound scholars in the respective field of specialisation of Ayurveda.

## 2. SPECIALITY IN WHICH POST-GRADUATE DEGREE IS CONDUCTED

Kayachikitsa

## 3. THE NOMENCLATURE OF POST-GRADUATE DEGREE

Ayurved Vachaspati MD Ayurveda (Kayachikitsa)

## 4. ELIGIBILITY

- 1- The degree in Ayurveda of this University or of those University/Statutory Which recognised as equivalent there to.
- 2- Only those who have passed all the examinations at degree level in first attempt shall be eligible for admission

## 5. MODE OF ADMISSION

- (1) There shall be an admission committee consisting of following :

(i)	Dean	
(ii)	One principal of upgraded PG College or Centre by rotation if more than one in the Faculty	Chairman Members
(iii)	Two Senior Heads of PG department by rotation.	Members
(iv)	One expert of the subject concerned nominated by the University.	Members

- (2) The selection shall be made strictly on the basis of one common final merit index based on written test and interview on the tests of the following index :-

- (a) Written Test Index (to be calculated out of 90 marks)
- (b) Interview Index (to be calculated out of 10 marks ) Final Index ( 100 Marks)

- (3) The minimum marks in the final index for eligibility for admission shall be 50% (40% in the case of reserved categories).

- (4) The written test shall consist of one common written paper comprising of objective type of question covering all the subjects of Ayurveda. The details of which shall be decided by the Selection Committee constituted for the purpose or laid down in the rules of the prospectus of studies.

- (5) The number of the candidates to be called for interview (on the basis of the marks obtained in the written test) shall not exceed three times the number of seats advertised The same rule will apply to SC/ST quota also

- (6) The name of the candidates for interview will be intimated to the interview committee without indicating the marks obtained in the written test

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## 5. PERIOD OF STUDY AND ATTENDANCE

- (1) The candidates have to undergo a period of study for three years after admission, out of which one year shall be devoted to Preliminary course and next two years devoted to Speciality Course.
- (2) The students will be required to attend atleast 75% of total lectures, practicals and clinicals separately to become eligible to appear in the examination.
- (3) The students will be required to attend the hospital and other duties as may be allotted to them during the course of study. ~~All the students will be required to do House Job duties and clinical Registrar's duties in their respective departments during preliminary and final courses respectively.~~
- (4) The students will also be required to attend special lectures, demonstrations, seminars, study tours and such other activities. Which may be arranged by the teaching departments.
- (5) No relaxation in period of study shall be given to a candidate who have already obtained Post-graduate degree in one speciality and thereafter desires to undergo post-graduate course in other speciality.
- (6) The teachers having a three years teaching experience can be allowed to undertake Post-graduate training as regular candidate. No relaxation in the duration of study will be made to inservice Physician/teachers.

## 7. METHOD OF TRAINING

- (1) Intensive training will be given in classical knowledge alongwith comparative and critical study in the respective speciality
- (2) The emphasis should be given on in-service training and not in didactic lectures.
- (3) The candidates are required to know about the method and technique of research work done in the respective fields.
- (4) The training requires in such a pattern so as to be given graded responsibility in management and treatment of patients entrusted to his care and to deal emergencies.
- (5) The candidate should be required to participate in the teaching and training programmes of Under-graduate students or interns in their subjects.
- (6) In the first year period the emphasis should be given to give adequate knowledge in the applied aspects of the fundamental of all the subjects of Ayurveda and adequate training in the basic science of medicine in all its applied and comparative aspects relevant to the speciality concerned with special reference to the fundamentals of Ayurveda.
- (7) The Clinical training should aim to extend the knowledge of the candidate to undertake independent work as a specialist.
- (8) The thorough and intensive training on a planned programme should be given to the students during all stages of the course and such programme should be available for the inspection and scrutiny of the Central Council of Indian Medicine.
- (9) Adequate training in teaching technology and research methods should be undertaken during the course of studies.

## 8. THESIS

- (1) Before a candidate is allowed to undertake the work of thesis, the title of the thesis should be registered with the University within the six months of admission and the synopsis should be approved at the end of preliminary year.
- (2) The application of registration of the title of the thesis should clearly mention the full title of the thesis with a synopsis of the proposed scheme of work indicating the familiarity of the candidate with the proposed theme of work and the name of the department and the name and designation of the guide/supervisor and co-guide.
- (3) Once the title for thesis is approved, the candidate will not be allowed to change the title or the proposed theme of work.
- (4) The registration of the candidate will be cancelled if the candidate fails to submit the title of thesis alongwith synopsis within the specified period as mentioned above.

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- (5) No candidate shall be allowed to submit the thesis before the expiry of one calendar year registration of the title of the thesis and before six months of the final year.
- (6) The subject of the thesis must be related with the subject matter of the speciality offered by the candidate.
- (7) The thesis should place on record the methods and potentiality of the research carried out by the candidate on the problem selected by him and completed under the guidance of the teacher approved by the University.
- ~~(8) The thesis should consist of critical survey of relevant literature, research, results of the research discussion on the basis of existing literature on the subject, conclusion, summary of thesis and references cited in the thesis.~~
- (9) There will be Scrutiny Committee constituted by the University, which will scrutinise and approve the title of the thesis and proposed scheme of work submitted as per rules. The subject of every thesis should be practical oriented, devoid of unpromising specialities and should be helpful in the development of service of Ayurveda.
- (10) The thesis ordinarily consist of exceeding 200 typed pages. The thesis should contain at the end a summary of not more than 1500 words covering the conclusion drawn by the candidate.
- (11) The guide/supervisor shall be a person of status of a Professor/Reader/Lecturer possessing at least five years Post-graduate teaching experience in the subject. A Professor, a Reader and a lecturer can guide in maximum three, two and one students respectively in each academic year.
- (12) The thesis must be satisfactory as regards literary presentation and suitable for publication either as such as in an abridged form.
- (13) Four copies of the bound thesis together with one certificate from the guide must reach the office of the Registrar three months before the final examination.
- (14) The thesis shall be assessed by four examiners appointed by the University, two of them will be external and two internal. One of the internal examiners of the thesis should be the guide under whom the candidate has worked the thesis.
- (15) The thesis shall only be accepted after unanimous approval by the examiner appointed to examine it.
- (16) If the thesis is not accepted it will be referred back to the candidate with the remarks of the examiners and the candidate can resubmit the thesis, after making necessary improvements in the light of the examiners' report to the University but not beyond a further period of six months.
- (17) The candidate shall be permitted to appear at Final Examination post-graduate degree in Ayurved consisting of theory, oral and practicals including clinical only after the thesis has been approved by the examiners appointed for the purpose.
- (18) One copy of the Synopsis of the title of thesis shall be submitted to the Registrar, Central Council of Indian Medicine as soon as the title is approved, One copy of the accepted thesis will be lodged in the library of the Central Council of Indian Medicine, New Delhi.

#### EXAMINATION AND ASSESSMENT

The post-graduate degree shall have two examinations as follows :-

- 1- The preliminary examination, at the end of one academic year after admission conducted by the University
- 2- The final Examination at the end of two academic years, after the First examination.
- 3- The Final examination will be held after completing two calendar years after passing preliminary examination and the candidates can avail of a maximum of two chances. The Final examination will be held twice at an interval of six months.
- 4- No marks will be allotted in any part of the examinations. Results will be announced as passed or failed after the consideration of the results committee consisting of all the Examiners concerned in unanimously.
- 5- Examination will ordinarily be held in the month of May-June and October-November every year.

- 6- not being declared successful in the examination, the candidate shall have to pass all the subjects separately.
- 7- If a candidate fails in one subject only, he shall have to pass in the subject before he is allowed to appear in the Final Examination.
- 8- If the candidate fails in the theory and practical of Final examination, the candidate can appear at the subsequent examination without requiring to submit a fresh thesis.
- 9- The Post-graduate degree shall be conferred on the candidate after the acceptance of the thesis and after the candidate has passed the final examination in the speciality by the candidate.

## 10. SUBJECTS

(A) Preliminary Examination- The Preliminary Examination at the end of one academic year after admission shall be in the following subjects :

- 1- Medical Statistics and Research Methodology
- 2- Fundamentals of Non-clinical subjects of Ayurveda with an emphasis on Applied aspects alongwith relevant studies of fundamental of basic Sciences of Medicine.
- 3- Fundamentals of Clinical subjects of Ayurveda, with emphasis on applied aspects alongwith relevant studies of Fundamentals or Basic Sciences of Medicine.
- 4- The candidate shall have to go the training in the department concerned for the speciality opted by the candidate as under :-
  - (a) Regular clinical training in the Hospital.
  - (b) Practical training of research work carried out in the department.
  - (c) Study of literature related to speciality.
  - (d) Active participation in various Seminars, Symposiums and Discussions.
  - (e) Finalisation of Topic of thesis and synopsis thereof. The assessment of the work done during the first year on the above points shall be done at the time of Preliminary examination.

(B) Final Examination - The Final Examination shall consist of (i) Thesis (ii) Written papers (iii) Clinical, (iv) Oral and (v) Practical examination as the case may be.

There shall be four theory papers in the speciality and one practical/clinical and viva-voce in the speciality or selected by the candidate.

## 11. SYLLABUS

Syllabus for the course shall be as follows

## A. PRELIMINARY EXAMINATION

1-First Paper

RESEARCH METHODOLOGY AND MEDICAL STATISTICS  
(A) METHODS OF RESEARCH

- 1- Aims and objects of reasearch in Ayurveda, Ancient modern methods of Research. Setting up of a basic research laboratory including Animal House
- 2- Principles and methods of fundamental, clinical, drug and literary research. Manuscriptology principles and methods of survey of medical plants.
- 3- Radio-isotopes and their role in medical research. Radiation and their biological effects.
- 4- Introduction of specific research instruments like Chromatography, Spectrometer, Calorimeter, Electro phoreses apparatus and other latest research instruments.

## (A) MEDICAL STATISTICS

- 1- Application of statistical methods to Ayurvedic research, collection, compilation and tabulation of medical statistics, methods of presentation of data, calculation of mean, median and mode, measurment of variability, standard deviation, standard error, normal probability curve.

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- 2 Concepts of regression and correlation and their interpretation
- 3 Tests of significance:  $t$  and  $F$  test and their simple applications
- 4 Principle of medical experimentation on variation in experimental design
- 5 Vital statistics

## References

- 1- Ayurvediye Anusandhan padhdhali - P.V. Sharma
- 2- Research Methodology - Prof. V.J. Thakar
- 3- Drug Survey - Mayaram Uniyal
- 4- Methods in Biostatistics for Medical Students - B.K. Mahajan
- 5- Introduction to Biostatistics - Huldali Bancroft
- 6- Practical Problem in Statistics - D.N. Elhance
- 7- Health Statistics - N.S.N. Rao
- 8- A short text book of Medical Statistics by Sir A.B. Hill
- 9- Introduction to Clinical Research by William C. Scheffer
- 10- A short text book of Medical Statistics by Sir Austin Brodftord Hill Indian Addition

## 2. द्वितीय पत्रम् भौतिक सिद्धान्ताः

- (क) निदानचिकित्सयोः भौतिकसिद्धान्ताः
- (ख) शल्य-शल्यचिकित्सयोः भौतिकसिद्धान्ताः
- (ग) प्रसूति तंत्र-स्त्रीरोग-कोष्णरोग-भूत्ययोः भौतिकसिद्धान्ताः
- (घ) चिकित्साविज्ञानरसाधारणतः प्रायोगिकसिद्धान्ताः

## आलोच्यग्रन्थाः :-

1. चरक संहिता चक्रपाणि टीका संहिता
2. सुश्रुत संहिता डल्हण टीका घाणेकर व्याख्या संहिता
3. अष्टांग हृदय
4. अष्टांग संग्रह
5. अश्वक्य संहिता
6. माधव निदान
7. आयुर्वेद दर्शन
8. आयुर्वेदीय क्रिया शरीर-रणजीत राय देसाई
9. कार्याचिकित्सा- रामरक्ष पाठक
10. दस्यगुण विज्ञान- यादव जी त्रिकम जी आचार्य
11. सौश्रुति

## B. FINAL EXAMINATION- --कायचिकित्सा

## प्रश्नपत्रम्

## निदानम्

व्याधिनिदानोपायः निदानपंचकस्य सांगोपागविवेचनम् । आयुर्वेदीय निदान पद्धते वैशिष्ट्यं वेदान्तिकता च । प्राचीननव्यनैदानिकविधिनां तुलनात्मकः परिचयः । आधुनिक प्रचलितानां रोगनिदानविधीनां प्रयुक्तसाधनविधि यंत्राणानामुपकरणानां च परिचयः प्रयोगविधि, परिकोश संहिता । हृत्परीक्षण-क्षतिकणादिकिरीनां सम्यक्संज्ञानम् ।

रोगी-रोगपरिक्षाविधिः त्रिविधपंचविधषडविधाष्टविधदशविधातुरपरीक्षा विधिः । सारथानिकाद्यविकरगोलागुसारपरीक्षाः आयुर्वेदोक्त नाडोपरीक्षा, रक्त-मूत्र-शुक्रच्छीवन-ब्रह्मवारीत्येतासां परीक्षाज्ञानं, रोगमार्गपरिज्ञानम् । प्रचलितरुप्रसिद्धरोगाणां निदानमूलप्रणति लक्षणभेदसाध्यासाध्यज्ञानपुरस्सरं सापेक्षरोगविनिश्चयविवेकः ।

## द्वितीय प्रश्नपत्रम्

## सामान्यचिकित्सा

समस्तरोगाणां चिकित्सासूत्राणि, क्रियाक्रमः, चिकित्सा सिद्धन्तविवेकश्च प्राच्यनव्यमार्गयोः आत्ययिक रोगाणां च चिकित्साक्रमः ।

## तृतीय प्रश्नपत्रम्

चरकसंहिता (निदान-फल्य चिकित्सा-सिद्धि-स्थान)  
विशेषाध्ययनम् कार्याचिकित्सा वाड्यभ्यस्य परिचयः सतिहासः ।

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## VIKRAM UNIVERSITY, UJJAIN

ORDINANCE NO. 59

(TO BE APPROVED BY CO-ORDINATION COMMITTEE)

**ORDINANCE RELATING TO ADMISSIONS AND EXAMINATIONS FOR BACHELOR OF  
MEDICINE AND BACHELOR OF SURGERY (M.B.B.S.) COURSE IN THE FACULTY OF  
MEDICINE**

1. The first degree in the Faculty of Medicine shall be designated as "Bachelor of Medicine and Bachelor of Surgery" and shall be abbreviated as "M.B.B.S."

2. This ordinance is based on "Regulations on Graduate Medical Education, 1997" of Medical Council of India (M.C.I.), New Delhi and the present rules of admission to Medical College framed by Director, Medical Education, M.P. Govt., Bhopal. As and when these regulations and rules are changed by M.C.I. and D.M.E. respectively, the changes shall become applicable.

3. **ADMISSION TO MEDICAL COLLEGES:-**

The rules for admission to Medical College framed by the Director, Medical Education, M.P. Govt., Bhopal shall be applicable. These rules are generally published in the booklet of Pre-Medical Test (P.M.T.) conducted by Professional examination Board, Madhya Pradesh, Bhopal.

The admission timings and admission process may be organised in such a way that teaching in first semester starts by 1st of August each year.

4. **DURATION OF COURSE, TRAINING PERIOD AND TIME DISTRIBUTION.**

(1) Every student shall undergo a period of certified study extending over 4½ academic years divided into 9 semesters, (i.e., of 6 months each) from the date of commencement of his study for the subjects comprising the medical curriculum to the date of completion of examination and followed by one year compulsory rotating internship. Each semester will consist of approximately 120 teaching days of 8 hours each college working time, including one hour of lunch.

(2) The period of 4½ years is divided into three phases as follows:-

(a) Phase-1 (two semesters) - consisting of Pre-clinical subjects (Human Anatomy, Physiology including Bio-Physics, Bio-Chemistry and introduction to Community Medicine including Humanities).

Besides 60 hours for introduction to Community Medicine including Humanities, rest of the time shall be somewhat equally divided between Anatomy and Physiology plus Biochemistry combined (Physiology 2/3 and Biochemistry 1/3)

(b) Phase-II (3 semesters) - consisting of para - clinical/clinical subjects.

During this phase teaching of para-clinical and clinical subjects shall be done concurrently.

The para-clinical subjects shall consist of Pathology, Pharmacology, Microbiology, Forensic Medicine including Toxicology and part of Community Medicine.

The clinical subjects shall consist of all those detailed below in Phase-III

Out of the time for Para-clinical teaching approximately equal time be allotted to Pathology, Pharmacology, Microbiology and Forensic Medicine and Community Medicine combined (1/3 Forensic Medicine and 2/3 Community Medicine) (See Appendix C of 1997 Regulations of M.C.I.)

(c) Phase-III - (Continuation of study of clinical subjects for seven semesters after passing Phase-I)

The clinical subjects to be taught during Phase II and III are Medicine and its allied specialities, Surgery and its allied specialities, Obstetrics and Gynaecology and Community Medicine.

Besides clinical posting as per schedule mentioned herewith, rest of the teaching hours be divided for didactic lectures, demonstrations, seminars, group discussion, etc. in various subjects. (See Appendix C of 1997 Regulations of M.C.I.)

The Medicine and its allied specialities training will include General Medicine, Paediatrics, Tuberculosis and Chest, Skin and Sexually Transmitted Diseases, Psychiatry, Radio-diagnosis, Infectious diseases etc. The Surgery and its allied specialities training will include General Surgery, Orthopaedic Surgery including Physio-therapy and Rehabilitation, Ophthalmology, Otorhinolaryngology, Anaesthesia, Dentistry, Radio-therapy etc. The Obstetrics & Gynaecology training will include family medicine, family welfare planning etc.

(3) The first 2 semester (approximately 240 teaching days) shall be occupied in the Phase-I (Pre-clinical) subjects and introduction to a broader understanding of the perspectives of medical education leading to delivery of health care.



No student shall be permitted to join the Phase-II (Para-clinical/clinical) group of subjects until he has passed in all Phase-I (Pre-clinical) subjects for which he will be permitted not more than four chances (actual examination), provided four chances are completed in three years from the date of enrollment.

- (4) After passing pre-clinical subject, 1½ year (3 semesters) shall be devoted to para-clinical subjects.

Phase-II will be devoted to para-clinical and clinical subjects, alongwith clinical postings. During clinical phase (Phase-III) pre-clinical and para-clinical teaching will be integrated into the teaching of clinical subjects where relevant.

- (5) Didactic lectures should not exceed one third of the time schedule; two third schedule should include practicals, clinicals or/and group discussions. Learning process should include living experiences, problem oriented approach, case studies and community health care activities.

- (6) During third to ninth semesters clinical postings of three hours duration daily as specified in the 1997 regulation of M.C.I. is suggested for various departments, after Introductory Course in Clinical Methods in Medicine and Surgery of two weeks each for the whole class.

- (7) The vacation period to students in one calendar year should not exceed one month, during the 4½ years Bachelor of Medicine and Bachelor of Surgery (M.B.B.S.) Course.

## 5. EXAMINATIONS

- (1) Attendance:-

75% of attendance in a subject for appearing in the examination is compulsory provided he/she has 80% attendance in non lecture teaching, i.e., seminars, group discussions, tutorials, demonstrations, practicals, Hospital (Tertiary, Secondary, Primary) postings and bed side clinics, etc.

- (2) Internal Assessment

- (i) it shall be based on day to day assessment (see note) evaluation of student assignment, preparation for seminar, clinical case presentation etc;
- (ii) regular periodical examinations shall be conducted throughout the course. The question of number of examinations shall be decided by the Board of Studies.
- (iii) day to day records should be given importance during internal assessment;

- (iv) weightage for the internal assessment shall be 20% of the total marks in each subject;
- (v) student must secure at least 50% marks of the total marks fixed for internal assessment in a particular subject in order to be eligible to appear in final university examination of the subject.

**Note:** -Internal assessment shall relate to different ways in which students participation in learning process during semesters is evaluated Some examples are as follows;

- (i) Preparation of subject for students seminar.
- (ii) Preparation of clinical case for discussion.
- (iii) Clinical case study/problem solving exercise.
- (iv) Participation in Project for health care in the community (planning stage to evaluation).
- (v) Proficiency in carrying out a practical or a skill in small research project.
- (vi) Multiple choice questions (MCQ) test after completion of a system/teaching.

Each item tested shall be objectively assessed and recorded. Some of the items can be assigned as Home work/Vacation work.

### (3) UNIVERSITY EXAMINATIONS

- (a) Theory papers will be set by the examiners as prescribed in the curriculum.

Practicals/clinicals will be conducted in the laboratories or hospital wards. Objective will be to assess proficiency in skills, conduct of experiment, interpretation of data and logical conclusion. Clinical cases should preferably include common diseases not esoteric syndromes or rare disorders. Emphasis should be on candidate's capability in eliciting physical signs and their interpretation.

Viva/oral includes evaluation of management approach and handling of emergencies. Candidate's skill in interpretation of common investigative data, x-rays, identification of specimens, ECG, etc. also is to be evaluated.

Clinical cases/practicals shall take into account common diseases which the student is likely to come in contact in practice. Rare cases/obscure syndromes, long cases of neurology shall not be put for final examination.

During evaluation (both Internal and External) it shall be ascertained if the candidate has acquired the skills as detailed in Appendix B of 1997 regulations of M.C.I.

- (b) There shall be one Main University Examination for a Professional Examination and a Supplementary Examination to be held in the 6th month after the publication of its results. There shall not be more than two examinations in a year. Main University Examinations shall be held as under:-