

# SHIVAJI UNIVERSITY KOLHAPUR



Syllabus of M.Phil/ Ph.D in Education  
(Introduced from June 2011-12)

*(Subject to modifications that will be made from time to time.)*

**A) Ordinance / Rules / Regulations**  
**M. Phil. /Ph.D. Programme**

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**B)** Shivaji University, Kolhapur  
**New Syllabus for**  
**Course Work of M. Phil. Programme**

**1. TITLE: Subject ---Education**  
**Compulsory under the Faculty of Education**

**2. YEAR OF IMPLEMENTATION**  
**New Syllabus will be implemented from June 2011 onwards.**

**3. PREAMBLE**  
The M. Phil /Ph.D. course work shall involve Three Papers Viz. :

**TWO Compulsory Papers**

- I. Research Methodology ,Quantitative Techniques and Computer Applications**
- II. Recent Trends and Advances in Education**

Any **ONE** Optional Paper from the Following

- III A. Field of Specialization : Educational Management.**
- III B. Field of Specialization : Educational Psychology.**
- III C. Field of Specialization : Environmental Education.**
- III D. Field of Specialization : Information Technology and Educational Technology.**
- III E. Field of Specialization : Teacher Education.**

**4. DURATION**

The M. Phil. course will be a **Full time** regular course of **One year** duration followed by minimum one year period for submission of dissertation.

**5. PATTERN**

Pattern of Examination will be **Annual** in respect of **M.Phil Course** and **Semester** in respect of **Ph. D. Course**.

**6. FEE STRUCTURE**

As per the **Shivaji University Rules & Regulations**

## 7. A. (R. M.Phil. 3) **ELIGIBILITY FOR ADMISSION**

- i) For admission to the M.Phil. Programme in the subject **Education** in the **Faculty of Education**, the applicant should fulfill the following conditions :

Candidates should have minimum **55% marks** for **Open category** and **50% for SC/ST category** at the **M.Ed. Degree Examination**.

OR

Candidate should have the **M.Ed. Degree** with equivalent grade/grade points for Universities where there is no provision of Class.

AND

- ii) The students admitted to M.Phil. Course shall apply for Eligibility Certificate within **15 days** from the date of admission by paying the prescribed fees along with the Migration, Degree Certificates, and Statement of Marks in original with photo copy etc. Admission to the course is subject to the fulfillment of the Eligibility criteria.

## 8. B. (R. M.Phil. 4) **ADMISSION PROCEDURE:**

A candidate seeking admission to the M.Phil (Education) Course in the University Departments / M.Phil Centers of the affiliated colleges shall have to pass the **Entrance Test** in the subject **Education**. The Entrance Test will be conducted by the **Department of Education, Shivaji University, Kolhapur**.

## 9. (R. M. Phil. 7) **MEDIUM OF INSTRUCTION**

The medium of instruction and language of answer in examination shall be **English** except for the papers in Languages.

**Table No. 1**

## 10. **STRUCTURE OF THE COURSE WORK FOR M. Phil/Ph.D.**

<b>Paper No.</b>	<b>Subjects (Papers)</b>	<b>Marks</b>
I.	Research Methodology ,Quantitative Techniques and Computer Applications	100
II.	Recent Trends and Advances in Education.	100
III.	Optional Paper (Field of Specialization) 80 + 20	100
	Total	300

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|--|--------------|
| A. <b>Three</b> Theory Papers  | : 300 Marks  |
| B. <b>Two</b> Seminars(on Paper II)  | : 50 Marks   |
| i) One seminar on a topic in the Theory<br>Paper- II (25 Marks)                        |              |
| ii) One seminar on Review of Related Literature on a<br>Topic of Paper – II (25Marks). |              |
| C. Dissertation  | : 200 Marks. |
| D. Viva-Voce   | : 50 Marks.  |

**11.** (R. M. Phil 5 (iii)) The **DRC/ CRC** shall communicate the marks obtained by the candidates in **Seminars** to the University **within a month** after the closure of the term.

**12. (R. M. Phil. 7) Submission of Dissertation :**

- i. A student shall publish one research paper (first authored) in a referred journal before the submission of the final dissertation.
- ii. A candidate duly admitted to the M. Phil course shall prepare the proposal of research in the prescribed format before 15<sup>th</sup> October and submit it to the concerned DRC/CRC. In the case of centers, proposal may be sent through the Principal /Director of the Institute to the concerned H.O.D.
- iii. The DRC/CRC will scrutinize and finalize the proposals of research after the respective candidate's presentation prior to 31<sup>st</sup> October, in special circumstances CRC also will be allowed to scrutinize and finalize the proposals of research after receiving candidate's presentation prior to 31<sup>st</sup> October.
- iv. The students shall submit their dissertation on the same title which is approved by the University authorities. If the candidate wishes to change the title, he/she will have to apply through guide and forward it through the HOD/ Principal / Director with reasons for the change, six months prior to the submission of the Dissertation.
- v. Prior to submission of the dissertation, the students shall make a pre-M. Phil. presentation in the department/centre that may be open to all faculty members and research students for getting feedback and comments which may be suitably incorporated into the draft dissertation under the advise of the supervisor.
- vi. If a candidate fails to complete the theory examination and/ or the dissertation within a period of two years after the registration, he/ she will have to re-register without appearing for the Entrance Test by paying the Requisite Registration Fee (before completion of two years) otherwise, the candidate will seek fresh admission.

- vii. The language of dissertation will be English except for the dissertation in languages.
- viii. The candidates in the faculties of Social Sciences, Education & Fine Arts are allowed to write his / her dissertation in Marathi provided it is being certified by the guide that substantial part of the concerned literature is available in Marathi and forwarded through the HOD/ Principal / Director of the Institute. However, the candidate should submit the synopsis in English.
- ix. At the time of the submission of the dissertation, the candidate shall submit to the University office the following :
  - Four copies of the dissertation.
  - Ten copies of the abstract.
  - Two CD containing soft copy in PDF format should be submitted along with the dissertation.
  - Attested copy of Master's Degree Certificate.
  - No dues certificate from Department and Library / College.
  - Receipt of necessary fees paid.
  - Subject / Branch / Specialization Certificate to be given by the guide.
- x. The dissertation must be submitted in the following manner :
  - Size of the paper: A 4 (25 cm X 20 cm) except drawings, graphs and maps on which no restriction is placed. A margin of 3.5 cm be left on the left hand side and bound in standardized form.
  - The title, degree, faculty subject, year and name of student and guide should be printed neatly and legibly on the front cover.
  - Dissertation should be typed with one and half line space between two lines and on single / both sides of the paper.
  - Dissertation must be bound in a proper manner.

**Table No. 2**

**13) SCHEME OF TEACHING AND EXAMINATION**

Paper No.	Subjects/Papers (Hrs/Week)				Examination Schemes (Marks)		
	L	F/S	P	Total	Theory	Term Work	Total
I.	02	01	01	04	100	-	100
II.	02	01	01	04	100	-	100
III.	02	01	01	04	80	20	100

(R. M. Phil. 5(i)) Attendance

Candidates will not be allowed to appear for theory examination unless he/she fulfills **75%** attendance for all lectures

### 13. SCHEME OF EXAMINATION

- The examination shall be conducted at the **end of each academic year.**
- Each Theory paper shall carry **100 marks**
- The evaluation of the performance of the students in theory papers shall be on the basis of Annual Examination of **280 marks.**
- Question paper will be set in the view of the /in accordance with the **entire Syllabus** and preferably covering each unit of syllabi.

### 14. STANDARD OF PASSING

(R. M. Phil. 8) Evaluation of Theory papers, Dissertation and Viva-Voce

- i. The following Procedure and Tables shall be applied for allotting grades. Each theory paper shall be assessed by two examiners, one internal and one external.
- ii. R. M. Phil 5(iv) The dissertation shall be evaluated by the Guide as an Internal Referee and by one External Referee.
- iii. The external referee shall have to give his/her acceptance within 30 days from the date of receipt of letter otherwise, it will be treated as non-acceptance and the next referee will be approached. Both the examiners should send their reports within a month after receipt of dissertation.
- iv. After receiving the positive reports, open defense viva-voce should be conducted within one month's period.
- v. The open defense –cum- viva-voce will be conducted by a Committee consisting of three members, one of whom will be the guide and two members (of whom at least one will be from the University Department or from the CRC and he/she will be Chairman of open defense –cum- viva-voce ) suggested by the Research & Recognition Committee.
- vi. The viva-voce will be conducted in University Department only, normally wherever there is CRC viva- voce of the student will be conducted at the centre.
- vii. The student shall have to attend the viva-voce at his/her own cost.
- viii. The student shall collect a copy of his/her Dissertation immediately after the viva-voce from the University office. If the student fails to collect the same, it will be sent to the concerned Department for Departmental Library / University Library.

ix. **FOR FACULTY OF EDUCATION**

**Table No. 3**  
**Notation, Equivalent numerical scores and Grade Points**

<b>Notation</b>	<b>Equivalent numerical scores</b>	<b>Grade Points</b>
O	65-100	6
A	60-64	5
B	51-59	4
C	41-50	3
D	31-40	2
E	21-30	1
F	00-20	0

- x) Both the examiners shall submit the Marks and Grades on separate sheet supplied to them. They should not enter the Marks and Grade on the answer books.
- xi) If there is a difference of more than 2 grades between the assessment of two examiners, i. e. for example if one examiner allots “A” grade and the other “D” grade, the paper/Dissertation shall be referred to the second external examiner, appointed by the Vice-Chancellor from the panel already prepared.
- xii) In the cases where the answer books/dissertation are sent to the third examiner, the grades allotted by him/her and the grades closer to the third examiner’s grades shall be considered for working out average grade, even if, by chance, there remains the difference of two grades in their assessment.
- xiii)
  - a) The marks allotted by two examiners for each paper/dissertation shall be averaged and calculated up to two decimal places.
  - b) Seminars will be assessed in Marks (out of 50), which shall be added to the Marks of the viva-voce (out of 50) for calculating the grade.
  - c) At the time of the consolidation, the grade points allotted to each paper/dissertation, worked out according to (Table No. 4) will be added together up to two decimal places and shown on the result sheet. For giving the final grade, the grade point average shall be rounded off to the next digit if the fraction is  $\frac{1}{2}$  or more than half.

- xiv) The assessment of the candidate shall be in grades on the 7 point scale. The candidate should get at least C grade in every paper, in his dissertation and viva- voce separately. Overall aggregate grades should be minimum B for being eligible for the award of M. Phil. Degree. The candidate securing D and below D grade has to appear again for the next examination. If a candidate fails at the M. Phil. examination, he/ she will be allowed to reappear for that examination again , only in those heads of passing ( Papers/ Dissertation / Viva- voce ) in which he/she has obtained less than B grade. The exempted heads of passing (Papers/ Dissertation/ Viva-voce) shall be taken into account for the next evaluation.
- xv) The candidates availing of these concessions should go through the examination. Such candidate will be permitted to continue with their dissertation in the meanwhile and their result of the examination will be declared according to the standard of passing.

- xiv) The final result will be declared after working out the overall Grades of
  - a) Written Examination
  - b) Dissertation
  - c) Seminars and
  - d) Open Defense cum-Viva-voce.

**Table No. 4**  
**For Final Grading**

Example	External	Internal
I	A 5 Paper Average 4.50	B 4
II	B 4 Paper Average 3.50	C 3
III	A 5 Paper Average 4.00	C 3
IV	Dissertation B - 4 x 2 = 8.00 Viva-voce A - 5	
	Total = $\frac{4.50+3.50+4+8+5}{6}$ = $\frac{25}{6}$ = 4.16 'B'	

Suppose, the total is 4.50 or more, then “A” grade shall be awarded

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## 15. NATURE OF THEORY QUESTION PAPER AND SCHEME OF MARKING

### Paper-I and Paper –II (External- Theory)

i) Long answers : 20 + 20 = 40

ii) Short answers :15 + 15 = 30

iii) Short notes :10 + 10+ 10 = 30

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**Total = 100 Marks.**

### Paper-III (External- Theory)

i) Long answers : 20 = 20

ii) Short answers :15 + 15 = 30

iii) Short notes :10 + 10+ 10 = 30

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**Total = 80Marks.**

### Paper-III (Internal - Theory)

Practicum as given in Optional Paper III = 20 Marks

## 16. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS-(FOR REVISED SYLLABUS)

M.Phil (Education) Old Syllabus of June 2008 cannot be equated with that of June 2012 syllabus hence equivalence is not given. Those admitted before June, 2011 have to appear as per the June 2008 syllabus.

**SPECIAL INSTRUCTIONS, IF ANY: Papers are common to M. Phil and Ph. D Courses**

**Ph.D. (Education) Syllabus from June 2011 onwards**

Course Work for Ph.D. Programme in Education

**Ordinance / Rules/ Regulations for admission to the  
Degree of Doctor of Philosophy in Education**

**17. TITLE: Subject ---Education**

**Compulsory** under the Faculty of **Education**

**18. YEAR OF IMPLEMENTATION**

**New Syllabus will be implemented from June 2011 onwards.**

**19. PREAMBLE**

The Ph.D. course work in Education shall involve Three Papers Viz. :

**TWO Compulsory Papers**

**I. Research Methodology ,Quantitative Techniques and Computer Applications**

**II. Recent Trends and Advances in Education**

Any **ONE** Optional Paper from the Following

**III A. Field of Specialization : Educational Management.**

**III B. Field of Specialization : Educational Psychology.**

**III C. Field of Specialization : Environmental Education.**

**III D. Field of Specialization : Information Technology and Educational Technology.**

**III E. Field of Specialization : Teacher Education.**

**20. DURATION**

**(R. Ph. D. 10) MAXIMUM PERIOD**

- i. The maximum period valid for the Ph. D. student shall be 6 (Six) years, after which the registration shall stand cancelled. If the thesis of the candidate is ready after the expiry of 6 (six) years, he/she may be allowed to submit his/her thesis by re-registering his/her name by paying the necessary fees and he/she may submit his/her thesis within six months from the date of re-registration.
- ii. M. Phil students(Education) who have converted their research work for Ph. D. (Education) with meaningful extension of the topic of research approved by the scrutiny committee and the R. R. Committee (Education). Student may submit the thesis after completion of minimum period of one year from the date of registration for Ph. D.

## **21. PATTERN**

Pattern of Examination will be **Semester** in respect of Ph. D. Course in Education.

## **22. FEE STRUCTURE**

As per the **Shivaji University Rules & Regulations**

## **23. (R.Ph.D.1.) DATE OF APPLICATION**

- i) A candidate seeking admission to the Ph.D. Degree course in the subject Education under the faculty of Education shall apply to the Registrar in the prescribed application form, from 1<sup>st</sup> May to 15<sup>th</sup> May of every academic year.

## **24. (R. Ph. D. 2 ELIGIBILITY). ELIGIBILITY FOR ADMISSION**

**For admission** to the Ph. D (Education) programme in the Education subject, **the applicant shall fulfill the following conditions:**

- i. Candidate who has secured minimum of 55% marks (50% for SC/ST category) at M.Ed. degree examination or its equivalent degree with equivalent grade points in the related subject.  
OR
- i. Approved teachers serving in the affiliated colleges with postgraduate degree (M.Ed.) with 50% marks.
- ii. Candidate who has obtained P.G. degree (M.Ed.) before 19th September, 1991 with minimum 50% of marks.
- iii. Persons working in National Laboratories/Institute/Government/Semi Government/Private Organization nominated/Sponsored by the respective employer and should have a Post Graduate Degree (M.Ed. degree )with 50% marks and 10 year experience in the relevant field.
- iv. Persons with exceptional abilities and passed post graduate degree examination (M.Ed.) with 50% of marks and with 10 years experience after graduation in related fields.
- v. A senior citizen of 65 years age and above, or eminent persons with proven Publications having Post Graduate Degree (M.Ed.) with 50% marks, in exceptional cases at the discretion of Vice-Chancellor. Such candidates may be exempted from entrance test.
- vi. Candidates appearing for the post graduate (M.Ed.) final year examination may appear for the entrance test. He / She should submit the result of qualifying examination at the time of interview. Failure to which his/her score in the merit will be calculated excluding his/her score in the P. G. degree course (M.Ed.) provided he/she fulfils all the eligibility criteria at the time of admission.
- vii. Candidates with M.Ed. degree , working in National Laboratories/Institutes/Government/Private Organizations fulfilling the above conditions and nominated/sponsored by the respective employer, will have to submit no objection certificate.

- viii. Final eligibility will be confirmed after the approval of R.R Committee (Education) for the synopsis, payment of requisite fees and submission of the relevant documents by the student.

## **25. (R. Ph.D.7) ADMISSION PROCEDURE**

### **R. Ph. D. 3 ENTRANCE TEST**

- i. There will be an entrance test for admission to Ph. D.(Education) Course. However, those candidates who have passed UGC NET JRF/NET/SLET/SET/ M. Phil. may be exempted (obtained the degree or passed only theory examination) / provided that they submit the proof of passing of these examinations. However, they have to appear for the interview. Foreign students are exempted from appearing for written test however they should appear for interview in person / telephonic / online.
- ii. If M. Phil. (Education) Student wants to take admission to Ph. D. (Education) course after passing M. Phil. theory examination in Education; he/she may be allowed to do so. He/she will be exempted from Entrance test and course work, but has to appear for the interview.
- iii. A candidate seeking admission to Ph. D. Course (Education) in University departments/centers at affiliated colleges/recognized institutes shall have to pass the Entrance Test in the subject Education. In the case of interdisciplinary subjects, the candidate should apply for the Entrance Test in the desired subject of Ph. D. The Entrance test will be conducted by Departmental Research Committee. In case of non-existence of the Department in the university, the test will be conducted by a committee constituted by the Vice Chancellor.
- iv. Foreign students can apply any time during the year.
- v. The Entrance Test will assess the depth of the candidate's knowledge in the subject Education. The syllabus for the Entrance Test will be based on the compulsory papers at the Master's Degree Level (M.Ed.) and introduction of research methodology the subject Education.
- vi. **Nature of the Question Paper:**
  - a) The entrance test will be of three hours durationQuestion: 1 Descriptive Type 20 x 1 = 20 Marks  
Question: 2 Short Answer Type (Any 2 Out of 3) 10 x 2 = 20 Marks  
Question: 3 Answer in Brief (6 Out of 8) 05 x 6 = 30 Marks  
Question: 4 Short Notes Type (6 Out of 8) 05 x 6 = 30 Marks

**Note :** *Qualifying in the Entrance test does not essentially mean the guarantee for admission.*

- vii. **The answer scripts of the entrance tests are to be evaluated by at least two examiners in the subject Education.**

**26. R.Ph.D. 4 DEPARTMENTAL RESEARCH COMMITTEE (DRC)  
/ COLLEGE RESEARCH COMMITTEE (CRC)**

i. The constitution of DRC /CRC :

- a. Head of the Department/Principal - Chairman
- b. One Senior Professor, (by rotation) - Member
- c. One Senior Associate Professor, (by rotation) - Member
- d. Chairman of concerned BOS - Member
- e Two P.G. teachers from the recognized Ph. D. centers/Affiliated Colleges

(Nominated by HOD/Principal) - Member

All the above members necessarily be research guides for Ph. D. and one of them should be from the reserved categories and one must be women member. If DRC cannot be constituted as above, due to the small size of the Department or due to reservations, then the members from the affiliated colleges/recognized institutes who are recognized as research guides may be appointed by the HOD/Principal for the given appropriate portions necessary for the formation of the committee.

ii. The committee for conducting Entrance Test in the subject where University Departments does not exist will be constituted by the Vice Chancellor:

- a. Senior Professor as Chairman
- b. Chairman, Board of Studies in the concerned subject.
- c. Two subject experts to be nominated by the Vice Chancellor (who shall be research guides for Ph.D. and one of them should be from the reserved categories.)
- d. One subject expert from centre (by rotation) who shall be a research guide.

iii. Quorum of DRC/CRC will be of three members. The tenure of the DRC/CRC will be for two academic years.

**27. (R.Ph.D. 5) MERIT LIST**

The Written Test will consist of 100 marks and interview will consist of 50 marks. Merit list will be prepared as under,

- a. The weightage of the candidates appearing for the Entrance Examination will be as under:
  - i. Total percentage of marks secured in the Post Graduate degree Examination will be converted out of 50.
  - ii. Total marks secured in the Entrance Examination will be converted out of 50.
  - iii. The marks secured in the Interview out of 50.
  - iv. Total of i, ii and iii will be out of 150.
- b. For the students who are exempted from the entrance test, the merit list will be prepared on the basis of percentage of total marks secured in the post graduate degree examination and the marks secured in the interview. (Total marks will be out of 150).
- c. If the post graduate degree is not defining the percentage of marks then his/her merit will be decided on the basis of the merit of written test and interview.

- d. The interview will be applicable to all the candidates. At the time of interview, candidates are expected to discuss their research interest/area and the research methodology.
- e. Admission will be given on the basis of the combined merit list prepared on the basis of (a) and (b) above.
- f. Candidates will have to secure minimum 40% of marks in written examination as well as interview separately.
- g. There is no provision of supply of photocopy or revaluation of the answer books.
- h. The DRC/CRC will prepare the general Merit List.
- i. All admissions will be processed through the DRC and CRC.
- j. The reservation policy of Government of Maharashtra will be followed for admission quotas and reservations.
- k. The BUTR section of the University will intimate the allotment of candidates to the supervisors of the Department/Colleges/Centres. While doing so the student's interest in research areas and the specialisation of the guide will be considered. Student must indicate his/her interest in broad research areas at the time of interview. Same should be reported by the DRC/CRC to the BUTR section.

#### **28.(R. Ph. D. 6) ALLOCATION OF THE RESEARCH GUIDE**

- a. Allocation of the Research Guides shall be decided by the DRC /CRC in a formal manner depending on the number of students per research guide, and the available specialization among the research guides, the research interest of the student as indicated during interview. The allotment/ allocation of research guide shall not be left to the individual student or the guide.
- b. The recognized guides should individually submit the subject-wise details about the availability of seats to the Head of the University Department along with their specialisation (BUTR wherever University Departments do not exist) by 30th October/ 28th February. A guide shall not supervise at any given point of time, more than 8 Ph. D. scholars. The list of the candidates and guides (with specializations) will be displayed on the notice board of the Departments/website of the University in case of non-existence of the Department.
- c) In case of vacancies available the candidate may be filled up from the waiting list for registration to the Ph. D course from January 1.

#### **29. ( R. Ph. D. 8) RESEARCH GUIDE**

A candidate will work under recognized research guide of the University allotted by BUTR section provided that he/she is not relatives such as husband/wife/daughter/ son/brother/sister etc.

##### **i. Guidance by Two Guides:**

A candidate may be allowed to register his/her name under the guidance of

two recognized guides one of which will be the main guide and the other will be the co-guide belonging to the same Department or different Departments of the University/ recognized Institutions/affiliated Colleges provided that:

- a. The subject matter of the research is concerned with two different specializations of the same subject and the same Department.
- b. The subject matter of the research is of interdisciplinary nature concerning two different subjects in the University/Recognized institutions/Affiliated Colleges/other Universities.
- c. The subject matter of the research is of interdisciplinary nature or is concerned with the use of research facilities and equipments in the University Departments or the recognized research institute or affiliated college.
- d. The candidate can pursue the research in the interdisciplinary subject under two guides but he/she will get his/her degree in the subject in which he/she has secured his/her post graduate degree. The DRC/ CRC of the subject in which he/she secured post graduate degree will scrutinize the synopsis and other related issues. In such circumstances the matter may be referred to the Ad hoc Board of Multi Faculty Interdisciplinary Studies or Interdisciplinary Studies in the faculty and its decision will be final.
- e. A guide shall supervise 8 candidates. He/ She can also supervise 4 more students as a co-guide.

**ii. Guidance by Co-Guide/New Guide:**

- a. In case of demise or ineligibility of the guide on any grounds the BUTR section will allocate new guide to candidate according to his/her specialization.
- b. If 50% or more work has been completed by the candidate under the deceased guide the recognized co-guide may be appointed by BUTR section to supervise the work of the candidate. The name of the deceased guide be printed on the thesis along with the name of co-guide.

**iii. Independent Research (Without Guide)**

The candidate may work independently if his/her specialisation is not available in the Department on recommendation of RR Committee and subject to the approval of Vice-Chancellor on fulfilment of the following conditions:

- a. He/she should satisfy the eligibility conditions and should have a fulltime teaching/or research experience of 10 years. He/She should have at least 3 research publications with ISBN/ISSN number and with impact factor above 2.
- b. He/She should submit his 6 monthly progress report through the Head of University department. In case the University Department does not exist, then it should be submitted BUTR section of the University.
- c. All other conditions for Ph.D. course are applicable.
- d. At the time of allocation of the supervisor / guides, the candidate should intimate the concerned Department or the BUTR section as the case may be.

#### **iv. Transfer of Guide**

In the case of transfer of guide from the institution, where the candidate is registered and the candidate has worked for minimum 3 terms with him/her shall continue to work under the same guide. A candidate who has worked for less than 3 terms will be transferred to a new guide by BUTR on the recommendation of the Research and Recognition Committee. However, the candidate should submit no objection certificate from the previous guide for continuation of the same topic as well as the acceptance from the new guide.

#### **v. Change of the Guide**

All the cases related to change of guide will be finalized by BUTR on the recommendations of RR Committee subject to the fulfillment of following conditions.

- a) No objection certificate from the previous guide for change of guide as well as continuation of the topic.
- b) Acceptance from the new guide. In case of dispute, the Vice-Chancellor's decision will be final.

### **30.(R.PH.D. 9.) SUBMISSION OF A RESEARCH PROPOSAL/SYNOPSIS**

1. After submission of a research proposal/synopsis by a student for registration to the Ph. D. degree course, the student along with his guide should be called before a Scrutiny Committee for PPT (power point presentation) presentation.
2. The Scrutiny Committee shall consist of the Head, two experts nominated by the Head, guide of the research student and the Chairman - Board of Studies of the concerned subject. The Head of the Department will act as the Chairman of the Scrutiny Committee. The Scrutiny Committee will go through the details of the proposal and will instruct the student to submit the proposal or modify the proposal or to submit new proposal for the consideration of the Research and Recognition Committee. The quorum for the Scrutiny Committee shall be three members.
3. In the case of the resubmission of the modified proposal, specific written instructions to be given to the concerned candidate. The resubmitted proposal will be forwarded by the Chairman of the Scrutiny Committee along with his remarks to the University office.
4. Where University Department does not exist, a Scrutiny Committee will be constituted by the Vice Chancellor consisting of the Chairman, guide, two experts, and the Chairman of the Board of Studies of the concerned subjects will scrutinize the proposals as above
5. All applications scrutinized by the Scrutiny Committee with its recommendations shall be placed before Research and Recognition Committee for its final approval.
6. The procedure and processing of applications at the RR Committee level will be as follows:
  - a. All applications will be placed before the Research and Recognition Committee for provisional approval of title/synopsis of proposed research work.



- b. After the approval of the title and synopsis by the Research and Recognition Committee, the candidate will be in the first instance asked to pay the necessary fee within one month and on the receipt of fees a provisional admission letter will be issued and the admission will be confirmed on fulfillment of eligibility conditions.
- c. In the case of non confirmation of the title/synopsis by the Research and Recognition Committee leading to rejection, the fees except registration fee and eligibility fees will be refunded. After final registration, the title of the topic with details of the student, guide and institute shall be displayed on the University website to avoid duplication.

A candidate can apply for admission to the Ph.D.(Education) programme in the prescribed application form and shall submit it to the University;

- i. Twelve copies of proposal/synopsis as indicated in Annexure - I
- ii. A copy of the statement of marks/certificates (S.S.C, H.S.C, Graduation, Post Graduation degree, M. Phil./NET/SET/JRF etc.)
- iii. Migration and Transfer Certificate whichever in necessary.
- iv. The registration form duly filled in and signed along with registration fees as Prescribed by the university from time to time will be forwarded to the Registrar through the Head of the University Department/Principal/Director of Recognized Institution.
- v. Authenticated copy of professional experience along with copies of the published research work in the proposed area wherever necessary.
- vi. Sponsorship letter from the Institution or Company wherever necessary.
- vii. Fee structure will be as per Annexure - VI.

### **31.MEDIUM OF INSTRUCTION**

The medium of instruction and language of answer in examination shall be **English** except for the papers in Languages.

### **32. STRUCTURE OF THE COURSE WORK FOR Ph.D. (Education)**

**Table No. 1**  
**STRUCTURE OF THE COURSE WORK M. Phil / Ph.D. (Education)**

<b>Paper No.</b>	<b>Subjects/Papers)</b>	<b>Marks</b>
I.	Research Methodology ,Quantitative Techniques and Computer Applications	100
II.	Recent Trends and Advances in Education.	100
III.	Optional Paper(Field of Specialization) 80 + 20	100
	Total	300

- C. **Three** Theory Papers : 300 Marks
- D. **Two** Seminars(on Paper II) : 50 Marks
- iii) One seminar on a topic in the Theory  
Paper- II (25 Marks)
- iv) One seminar on Review of Related Literature on a  
Topic of Paper –II (25Marks).
- C. Dissertation : 200 Marks.
- D. Viva-voce : 50 Marks.

### 33. (R. Ph. D. 11) COURSE WORK

#### A) DURATION:

Candidates who have registered for Ph. D. will have to complete the course work of one year duration within two years after registration.

B) EXEMPTION: A candidate who has obtained M. Phil degree or has completed his/her theory course as per new UGC Rules and Regulation shall be exempted from Ph. D. course work.

C) EXEMPTION: A Candidate who has passed M. Phil degree after 2009 and who has completed prerequisite course on Research Methodology, quantitative methods and computer applications conducted by Shivaji University will be exempted from Ph.D. course work

**Table No. 2**  
**Chart for Exemptions**

Sr. No.	Candidates taking admission to Ph.D with following qualifications	Exemption availed in	Entrance examination	Ph.D course work
1.	Masters Degree	No exemption in Entrance Test Ph.D Course work	Compulsory	i) In the following cases, Ph.D course work shall be compulsory. a) A candidate has registered directly for Ph.D OR b) M.Phil registration of a candidate is converted into Ph.D. registration ii) In the case of candidate seeking admission after completing M.Phil Course work/M.Phil Degree (Old i.e. prior to UGC norms,) then the part of Ph.D course work in respect of ‘Computer Applications & Quantative Techniques” shall be compulsory.

2.	Master Degree with SET/NET/GATE/JRF/GET	Exemption in Ph.D Entrance Test (i.e. Written test only)	Ph.D Entrance Exam interview is Compulsory	<p>i) In the following cases, Ph.D course work shall be compulsory.</p> <p>a) A candidate has registered directly for Ph.D</p> <p>OR</p> <p>b) M.Phil registration of a candidate is converted into Ph.D. registration</p> <p>ii) In the case of candidate seeking admission after completing M.Phil Course work/M.Phil Degree (Old i.e. prior to UGC norms,) then the part of Ph.D course work in respect of ‘Computer Applications &amp; Quantative Techniques” shall be Compulsory.</p>
3.	Successful Completion of M.Phil Theory Course work	Exemption in Ph.D Entrance Test (i.e. Written test only)	Ph.D Entrance Exam interview is Compulsory	<p>i) In the following cases, Ph.D course work shall be compulsory.</p> <p>a) A candidate has registered directly for Ph.D</p> <p>OR</p> <p>b) M.Phil registration of a candidate is converted into Ph.D. registration)</p> <p>In the case of candidate seeking admission after completing M.Phil Course work/M.Phil Degree (Old i.e. prior to UGC norms,) then the part of Ph.D course work in respect of ‘Computer Applications &amp; Quantative Techniques” shall be compulsory.</p>
4.	M.Phil Degree obtained prior to 2011	Exemption in Ph.D Entrance Test (i.e. Written test only)	Ph.D Entrance Exam interview is Compulsory	<p>i) In the following cases, Ph.D course work shall be compulsory.</p> <p>a) A candidate has registered directly for Ph.D</p> <p>OR</p> <p>b) M.Phil registration of a candidate is converted into Ph.D. registration)</p> <p>In the case of candidate seeking admission after completing M.Phil Course work/M.Phil Degree (Old i.e. prior to UGC norms,) then the part of Ph.D course work in respect of ‘Computer Applications &amp; Quantative Techniques” shall be compulsory.</p>

### 34. SCHEME OF TEACHING AND EXAMINATION

**Table No. 3**  
**SCHEME OF TEACHING AND EXAMINATION**

Paper No.	Subjects/Papers (Hrs/Week)				Examination Schemes(Marks)		
	L	F/S	P	Total	Theor y	Term Work	Total
I.	02	01	01	04	100	-	100
II.	02	01	01	04	100	-	100
III.	02	01	01	04	80	20	100

### 35. SCHEME OF EXAMINATION

I

- i)The examination shall be conducted at the **end of each academic year.**
- ii)Each Theory paper shall carry **100 marks**
- iii)The evaluation of the performance of the students in theory papers shall be on the basis of Annual Examination of **280 marks.**

Question paper will be set in the view of the /in accordance with the **entire Syllabus** and preferably covering each unit of syllabi.

### 36. STANDARD OF PASSING

(R. M. Phil. 8) Evaluation of Theory papers, Dissertation and Viva-Voce

- xvi) The following Procedure and Tables shall be applied for allotting grades. Each theory paper shall be assessed by two examiners, one internal and one external.
- xvii) R.M. Phil 5(iv) The dissertation shall be evaluated by the Guide as an Internal Referee and by one External Referee.
- xviii) The external referee shall have to give his/her acceptance within 30 days from the date of receipt of letter otherwise, it will be treated as non-acceptance and the next referee will be approached. Both the examiners should send their reports within a month after receipt of dissertation.
- xix) After receiving the positive reports , open defense viva-voce should be conducted within one month's period.
- xx) The open defense –cum- viva-voce will be conducted by a Committee consisting of three members, one of whom will be the guide and two members (of whom at least one will be from the University Department

- or from the CRC and he/she will be Chairman of open defense –cum- viva-voce ) suggested by the Research & Recognition Committee.
- xxi) The viva-voce will be conducted in University Department only, normally wherever there is CRC viva- voce of the student will be conducted at the centre.
  - xxii) The student shall have to attend the viva-voce at his/her own cost.
  - xxiii) The student shall collect a copy of his/her Dissertation immediately after the viva-voce from the University office. If the student fails to collect the same, it will be sent to the concerned Department for Departmental Library / University Library.

### **37. (R. Ph. D. 12) PROGRESS REPORT**

- i. Each candidate shall submit to the Director Board of College and University Development through his/her guide six monthly progress report, in pro-forma as per the Annexure-V ending June 30th and December 31st every year.
- ii. If a candidate fails to submit two consecutive progress reports for consecutive terms as stated above he/she shall be asked to give the reasons, within a period of one month. After one month, all such cases will be placed before the Research and Recognition Committee for its recommendations.

### **38. (R.Ph.D. 13) CHANGE IN TITLE**

- i. A candidate may be allowed to make minor changes in the title of his/her research work, subject to the approval by the Research and Recognition Committee and provided that he/she applies for the change at least six months before the anticipated date of submission of his/her thesis or earlier. The candidate shall submit his/her application duly recommended by the guide, sent through the concerned H.O.D. of University Department (BUTR section if the University department does not exist).
- ii. If the change in the title involves major change in the content of the work, matter may be referred to DRC/CRC and on their recommendations the Research and Recognition Committee will take the decision.

### **39. (R.Ph.D. 14) SIZE, STYLE AND BINDING**

A candidate submitting Ph. D. thesis for the award of Ph.D degree is required to follow the rules given below regarding the size, style and binding of the thesis, except in special case in which the Guide or Head of Institute recommends that it will not be possible to comply with the requirements of these rules giving reasons. The copies shall be bound in accordance with the following specifications:

- i. Size of the paper should be A-4, (25 cm. X 20 cm.) except for drawings, graphs, photographs and maps on which no restriction is placed. A margin of 3.5 cms be left on the left hand side and bound in a standardized form. 1.5 line spacing be followed and printed on both sides of the paper.
- ii. The title, degree, year, subject, faculty, name of the student and the guide should be printed neatly and legibly on the front cover as indicated in Annexure -II

- iii. A thesis which consists of a collection of pamphlets or excerpts/published papers or a single pamphlet must be bound in a similar manner as said above.
- iv. The candidate should submit four hard bound copies of thesis along with CD enclosed in the socket.
- v. The Ph.D. thesis should contain:
  - a. Results of the research stating whether the work is based on the discovery of new facts by the candidate or of new relations of facts observed by others and how the work contributes to the general advancement of knowledge.
  - b. The candidate shall indicate the sources from which his/her information has been derived and the extent to which his/her work is based on the work of others and shall indicate which portion or portions of his/her thesis he/she claims to be original.
  - c. The candidate's Declaration (As prescribed in Annexure - III).
  - d. Guide's Certificate (As prescribed in Annexure - IV).
  - e. The language of Ph.D. thesis shall be English except in modern European and Indian languages.
  - f. A candidate submitting his/her thesis in the subject relating to social sciences, education, physical education, arts and fine arts may write his/her thesis in Marathi provided the same is recommended by the Guide and is approved by the Research and Recognition Committee; however, a candidate has to submit an abstract of the thesis in English.
  - g. The language used in the thesis should be grammatically correct and of appropriate standard with no typographical mistakes.

#### **40. (R. Ph. D. 15) RULES OF SUBMISSION**

- i. The candidate shall not be allowed to submit his/her thesis unless he/she works for four terms.
- ii. A student shall publish one research paper in a refereed Journal before the declaration of the final thesis.
- iii. A candidate may submit one copy of draft thesis spiral binding any time during the year, after the completion of minimum prescribed period of two years and the passing of course work to the HOD for the scrutiny.
- iv. The research student shall make a presentation of his/her thesis before the Scrutiny Committee at least two months prior to final submission of the thesis. He/She shall incorporate suggestions made by the committee and then the thesis shall be submitted to the office through HOD. In case of non-existence of the Department a student can submit the thesis directly to BUTR section.
- v. A candidate shall submit twenty copies of abstract and four copies of the thesis with necessary fees along with soft and hard copy (CD read only). In the case of a Ph. D. candidate of Interdisciplinary faculty he/she has to submit 30 copies of the abstract. A candidate may be permitted to submit the abstract and final thesis separately. However, the candidate shall have to pay the term fee till he/she submits his/her final thesis.

#### **41. (R.Ph.D.16) APPOINTMENT OF REFEREES**

- i. The Research and Recognition Committee in the subject concerned shall suggest the names of eight experts to the Board of University Teaching and Research. Out of which four shall be from the state and remaining four shall be out of the state. The teacher, who has guided the candidate's work, shall be the internal referee. A student admitted for Ph. D. in an interdisciplinary subject, the Research and Recognition Committee will suggest four names from each discipline of interdisciplinary subject to the B.U.T.R. A candidate who is working independently, the Research and Recognition Committee will suggest four names of University recognized guides to the Board of University Teaching and Research for appointment of one of them as internal referee.
- ii. Thesis submitted by Ph.D. student shall be evaluated by the guide as an internal referee and by at least two external experts, out of which at least one will be from outside the state.
- iii. The external referees should communicate their willingness or otherwise to evaluate the Ph. D. thesis within one month of the receipt of University letter. The internal and external referees should submit their evaluation reports within one month of the receipt of the thesis in a prescribed proforma along with a detailed report.
- iv. In the event of rejection of the thesis by one external referee next external referee shall be appointed by the Vice Chancellor.
- v. Unanimous final recommendation of the external referees shall be accepted by the Vice Chancellor.
- vi. If revision of the thesis is suggested by one of the external referees, the thesis should be revised by the candidate for resubmission as suggested by the referee. The revised thesis shall be sent to the same referee (who has suggested the revision) for evaluation.
- vii. If revision of the thesis is suggested by both the external referees, the thesis is considered for resubmission provided that the following conditions are fulfilled.
  - a. Half the tuition fee is to be paid by the candidate for resubmitting the thesis after revision along with examination fee.
  - b. Laboratory and examination fees are to be paid fully by the candidate for carrying of research in the University Departments.
  - c. The revised thesis will be submitted by the candidate within the maximum period of two years.
  - d. The revised thesis shall be sent to the same referees for evaluation along with both the previous reports.
- viii. The thesis rejected by both the external referees will not be considered for resubmission.

#### **42. (R. Ph. D. 17) OPEN DEFENCE**

There shall be a viva-voce with open defence. The open defence shall be conducted only after receiving the positive reports from the referees. One of the external referees nominated by the Vice Chancellor and the internal referee shall conduct the open defense of the candidate within one month. The Head of the

Department or the Dean of the concerned faculty or the senior teacher in the subject concerned nominated by the Vice Chancellor shall act as Chairperson for the open defence. The other external referee may send questions in writing to the referees attending the viva voce to seek clarification on any point in the thesis. The queries raised by the external referees in their reports be placed before the open defence committee. The open defence of the candidate shall be conducted as follows.

- i. After the receipt of positive report from external referees, date for open defence shall be arranged in consultation with one external referee by the Chairman, who is to conduct the open defence along with the internal referee (guide).
- ii. The Chairman, external referee and the guide shall prepare a joint report of the open defence and forward it to the Director, B.C.U.D. They shall recommend either the award of the degree to the candidate or a fresh open defence within six months if the performance of the candidate is unsatisfactory.

#### **43. (R. Ph. D. 18) DECLARATION OF RESULT**

- i. The viva-voce will be held only after fulfillment of the conditions.
- ii. The date of viva-voce would be considered to be the date of declaration of result.
- iii. On the final approval of the Vice Chancellor, the Controller of Examination shall declare the result after fulfillment of all conditions.
- iv. Along-with the degree, the BUTR shall certify to the effect that the degree has been awarded in accordance with the provisions of the UGC regulation as published in the Gazette of India dated 11-07, 2009
- v. Certificate of appreciation will be given “as one of the best selected thesis of Shivaji University by the Controller of Examination provided;
  - (a) Thesis having published research papers of cumulative impact factors more than five.
  - (b) Research papers published should be on the data included in the thesis.
  - (c) Only first authored research papers will be considered.
  - (d) Impact factor of the journals will be considered on the date of submission of draft thesis.

#### **44. (R. Ph. D. 19) DEPOSITORY OF UGC**

Following the successful completion of the evaluation process and announcement of the award of Ph. D. the university shall submit a soft copy of the Ph. D. thesis to the U.G.C. within the period of thirty days, for hosting the same in INFLIBNET, accessible to all institutions/ universities.



**45. (R. Ph. D. 20) ADDITIONAL Ph. D. DEGREE**

- i. A candidate seeking admission for the additional Ph. D. degree of different topic within the same subject will be exempted from written test but he/she will have to appear for interview.
- ii. A candidate seeking admission for the additional Ph. D. degree other than the subject in which the candidate has been previously awarded the degree, the candidate will have to complete admission process in the subject for which the candidate wishes to register for Ph.D.

**46. (R. Ph. D. 21) CANCELLATION OF Ph. D. DEGREE**

**(R. Ph. D. 21) CANCELLATION OF Ph. D. DEGREE REGISTRATION:**

- i. A student can cancel his/her registration through his/her guide by paying the necessary fees.

**47. NATURE OF THEORY QUESTION PAPER AND SCHEME OF MARKING**

**Paper-I and Paper –II (*External- Theory*)**

iv) Long answers :	20 + 20	= 40
v) Short answers :	15 + 15	= 30
vi) Short notes	:10 + 10+ 10	= 30
<hr/>		
<b>Total</b>		<b>= 100 Marks.</b>

**Paper-III (*External- Theory*)**

iv) Long answers :	20	= 20
v) Short answers :	15 + 15	= 30
vi) Short notes	:10 + 10+ 10	= 30
<hr/>		
<b>Total</b>		<b>= 80Marks.</b>

**Paper-III (*Internal - Theory*)**

Practicum as given in Optional Paper III = 20 Marks

**48. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS-(FOR REVISED SYLLABUS)**

M.Phil./ Pre Ph.D. (Education) Old Syllabus of June 2008 cannot be equated with that of M.Phil./ Pre Ph.D./Ph.D (Education) June 2011 syllabus hence equivalence is not given. Those admitted before June, 2011 have to appear as per the June 2008 syllabus.

## **ANNEXURE – I**

### **BROAD GUIDELINES FOR PREPARATION OF SYNOPSIS**

While preparing the synopsis for the Ph. D. work, following points shall be noted and followed carefully:

- A. The proposed synopsis for research should be self contained and should cover the rationale for carrying out research.
- B. There should not be repetition of the work or topic or theme
- C. The synopsis of the proposed research shall contain the following points:
  1. Title of the Research Proposal
  2. Choice of the topic with reasoning or significance
  3. Statement of the problem
  4. Review of the relevant literature (noted works should be considered not the text book reviews)
  5. Objectives of the study
  6. Hypotheses of the study
  7. The methodology comprising
    - a. Methods of research
    - b. Sampling design and assumptions
    - c. Conceptual framework if any
    - d. Research design (explanation of how research is being conducted and the tools used for the same)
    - e. Methods of data collection,
    - f. Methods of data analysis (use of parametric and non-parametric tools and techniques as the case may be)
  9. The chapter scheme: (objectives must be reflected in the scheme)
  10. Select Bibliography/Weblography/Netography.

**ANNEXURE – II**  
**FORMAT OF THE FRONT PAGE AND COVER OF THE THESIS**

Title in block letters

A thesis submitted to  
Shivaji University, Kolhapur

For the Degree of Doctor of Philosophy  
in  
Subject:  
Under the Faculty of  
By

Name of the Candidate:

Under the Guidance of

Name of the Department/College/Institution

Name of the Co-Guide: (If required)

Name of the Department/College/Institution

SHIVAJI UNIVERSITY

Year

**ANNEXURE – III**

**DECLARATION BY THE STUDENT**

I hereby declare that the thesis entitled .....

.....

.....

completed and written by me has not formed earlier the basis for the award of any degree or similar title of this or any other university or examining body. Further, I declare that I have not violated any of the provisions under Copyright and Piracy / Cyber / IPR Act amended from time to time.

Place:

Date:

Research Student

(Signature with Name)

**ANNEXURE – IV**

**DECLARATION BY GUIDE**

This is to certify that the thesis entitled .....

.....

.....

being submitted herewith for the award of the Degree of Doctor of Philosophy in..(Subject)... .  
under the Faculty of... . of Shivaji University, Kolhapur is the result of the original research work  
completed by Shri./Smt.... under my/our supervision and guidance and to the best of my/our  
knowledge and belief, the work embodied in this thesis has not formed earlier the basis for the  
award of any degree or similar title of this or any other University or examining body.

Place:

Date:

Co-Guide

Research Guide

(Signature with name & Designation)

(Signature with name & Designation)

**ANNEXURE – V**

**PROGRESS REPORT**

- 1. Name of the student:
- 2. Date of Registration:
- 3. Whether the candidate is regular student/  
Independent student/JRF/SRF/DRF/ UGC  
Teacher Fellow/Teacher/Employed person
- 4. Whether the candidate is  
Attending pre-Ph.D. course regularly  
If not, give reason
- 5. Name of the guide:
- 6. Title of the work:
- 7. Period of report:
- 8. Details of the work done:

Signature of the student

Signature of the Guide

Signature of the Co-Guide (If required)

Date:

Place:

**Shivaji University, Kolhapur**  
**M. Phil. /Ph. D. Course Syllabus**

Year of Implementation: from June, 2011

Paper –I (Compulsory)

**RESEARCH METHODOLOGY, QUANTITATIVE TECHNIQUES AND  
COMPUTER APPLICATION**

**Marks: 100**

**Duration: 60 hrs**

***NOTE: COMMON SYLLABUS FOR SOCIAL SCIENCES (ECONOMICS, SOCIOLOGY, POLITICAL SCIENCE, HISTORY, JOURNALISM, MASS COMMUNICATION, COMMERCE AND MANAGEMENT, EDUCATION, LAW, AND WOMEN STUDIES)***

**Preamble and Transaction mode :**

Research at M. Phil. / Ph. D course is essential for the subjects (i.e. History, Economics Commerce, Women studies and Journalism etc.). It finds selection to the problems in the field as well as equip the students with research theory and skills for conduct of research at doctoral, post doctoral levels and undertake need based research projects and for the development of the society as a whole. The Transaction Tools like; discussion, group work, power point presentations ,seminar, use of web resources, web-2 technology, library resources can be used for teaching the paper.

The course work of this paper will be taught in total 60 contact hours/days. Each unit will be taught in 15 contact hours/days. The contact hours allotted to each unit are adjustable to the total contact hours.

The course work for M. Phil./Ph. D is categorized into four components;

- (a) Research Methodology with 30 marks' weight age
- (b) Quantitative Techniques with 30 marks' weight age and
- (c) Computer Application with 20 marks' weight age
- (d) Practical on QTs and Software application with 20 marks' weight age.

***(Important Note: Teaching can be shared by couple of Departments; means the Department, which is unable to teach this paper, can send their students to other Departments with request to a particular Department and a copy sent to the University office. While doing so the number of students in the combine class should not go more than 50.)***

**Objectives –**

1. To familiarize the students with the nature of research in general and educational research in particular.
2. To train the students to design and conduct a scientific inquiry.
3. To train students to use Web tools for conduct of Research

4. To enable the students to analyze the data quantitatively and qualitatively and draw valid conclusions.
5. To train the students to write the research report.
6. To enable the students to contribute research papers for educational journals, conferences and seminars.
7. To train students to evaluate Educational Research

#### **Unit- 1: Fundamentals of Research (15 hrs)**

- (a) Basic principles of research
- (b) Theory building, facts, concepts, constructs and definitions
- (c) Variable and its attributes
- (d) Ethics in research
- (e) Preparation of proposal
- (f) Review of literature, types of hypothesis, formulation and testing of the hypothesis
- (g) Research designs, sampling designs, methods, techniques and tools of research
- (h) Creativity, innovation, originality and advancement of knowledge and application to the society

#### **Unit- 2 Communication and Evaluation of Research (15 hrs)**

- (a) Report writing and the writing of research papers
- (b) Presentation of research proposals
- (c) Evaluation of research report
- (d) Presentation of research : Oral and Written (abstracts/synopsis)

#### **Unit- 3 Quantitative Method (15 hrs)**

- (a) Use of quantitative method in research
- (b) Types and sources of data
- (c) Data analysis for specific type of data
- (d) Tabulation and graphical representation
- (e) Central tendency
- (f) Dispersion
- (g) Correlation
- (h) Regression
- (i) Use of chi square
- (j) Steps involved in applying chi—square test
- (k) Non parametric or free distribution tests
- (l) Testing of hypothesis for non parametric data



#### **Unit- 4 Computer Application for Research (15 hrs)**

- (a) Word processing
- (b) Data processing
- (c) Graphical processing
- (d) Use of web-2 tools for research
- (e) Use of excel
- (f) Use of SPSS
- (g) Use of graphical software
- (h) Use of multimedia tools

##### **1) Basic Readings:**

- Best, J. W. and James V. Kahn( 1986) *Research in Education*. New Delhi : Prentice Hall of India
- Coburn, Peter at. al. (1982) *Practical guide to computers in Education*. California :Wesley Publishing Co.
- Engalhart, Max D. (1972) *Methods of Educational Research* Chicago : Rand McNally and Company
- Entwistle, N. J. (1974) *The Nature of Educational Research, Educational Studies A third level course, Methods of Educational enquiry- Block I* , Milton Kenya: The Open University Press
- Kothari, C. R.( )*Research Methodology – methods and techniques*. New Delhi :Wiley Eastern Ltd

##### **2) Additional Readings:**

- Black Thomas (2001) *Understanding Social science Research*, New Delhi : Sage Publications
- Fern. Edward F. (2001) *Advanced Focus Group Research*, New Delhi : Sage Publications
- Galtung, Johan(1967) *Theory and Methods of social research*. London: George Allen and Unwin Ltd.
- Mariampolski, H. (2001) *Qualitative Market Research – A Comprehensive Guide*, New Delhi: Sage Publications India
- Mason, Emanuel J. and William J. Bramble. (1978) *Understanding and Conducting research.. Applications in Education and Behavioral Sciences*. New York: McGraw Hill Book Co.
- Mouly, George, J. (1964) *The Science of Educational Research* New Delhi : Eurasia Publishing House
- Walizer, Michael H. and Paul L. Wiener( 1978) *Research methods and Analysis* –

*searching for relationships* New York :Harper and Row Publishers

William, Phillip et al. (1973) *Evaluation and Assessment of Educational Research – Educational Studies : A third level course methods of educational enquiry.*

Buckinghamshire :The Open University Press

### **3) References**

Borg, W.R. and Gall, M.D. (1983). *Educational Research – An Introduction*. New York: Longman Inc.

Christensen, L. (2007). *Experimental Methodology*. Boston: Allyn & Bacon.

Clive Opie (2004). *Doing Educational Research- A Guide for First time researchers*. New Delhi: Vistar Publications.

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Kerlinger, F.N. (1986). *Foundations of Behavioural Research*. Fort Worth, TX: Harcourt Brace Jovanovich.

Kirkpatrick, D.L. (2005). *Evaluating training Programmes: The four Levels*. San Francisco: Berrett-Koehler.

Jill Porter & Penny Lacey (2005). *Researching Learning Difficulties- A Guide for Practitioners*. Paul Chapman Publishing.

Pamela Maykut & Richard Morehouse (1994). *Beginning Qualitative Research- A Philosophic and Practical Guide*. London: The Falmer Press

Patton. M.Q. (2002). *Qualitative Research and Evaluation Methods*. Thousand Oaks C.A: Sage.

Reason, P. & Bradbury, H. (Eds) (2006). *Handbook of Action Research*. Thousand Oaks, CA: Sage.

Scott, David & Usher, Robin (1996). *Understanding Educational Research*. New York: Routledge.

Shank, G.D. (2002). *Qualitative Research*. Columbus Ohio: Merrill: Prentice Hall.

Sharma, Bharti (2004). *Methodology of Educational Research*. New Delhi: Vohra Publishers.

Sharma, S.R. (2003). *Problems of Educational Research*. New Delhi: Anmol Publications

Stake, Robert E. (1995). *The Art of Case Study Research*. Thousand Oaks: C.A: Sage.

Travers, Robert M.W. (1978). *An Introduction to Educational research* (4th edition). London: MacMillan.

Van Dalen, Debonald, B. and Meyer, William J. (1979) *Understanding Educational Research: An Introduction*. New York: McGraw Hill.

### **Paper –II (Compulsory)**

#### **RECENT TRENDS AND ADVANCES IN EDUCATION**

**Marks:100**

**Duration: 60 hrs**

#### **Objectives:**

To enable the student to -

- 1) Be aware of the recent trends and advances in the field of Educations.
- 2) Apply the knowledge of recent trends for teaching, research and administration.

#### **Unit: 1 Learning Society (15 hrs)**

- a) Concept of Learning Society
- b) Lifelong learning
- c) Pillars of Education and Tensions in Education according to Dellar's Commission
- d) National Knowledge Commission

#### **Unit: 2 Neuropsychology of Learning (15 hrs)**

- a) Multiple Intelligence
- b) Neuroscience of learning and teaching
- c) Critical thinking and Human emotions
- d) Counseling for Psychological problems in the Educational context

#### **Unit: 3 Process of Teaching and Teacher Education (15 hrs)**

- a) Levels of learning
- b) Measurement of teaching
- c) Constructivist approach to teaching
- d) Resourceful and innovative teaching
- e) Classroom processes: social, emotional, logical, substantive, pedagogical and managerial
- f) Presage and contextual variables of a teacher

#### **Unit : 4 Trends in Education ( 15 hrs)**

- a) e- Teaching, e-Learning and e-Evaluation
- b) Inclusive Education
- c) Education for Peace
- d) Global Education
- e) TQM in Education

**Transaction Tools :** Discussion, Group work, Power point presentation, Seminar,  
Use of web resources, web- 2 tools, Library resources.

**1) Basic Readings:**

- Agarwal J. C. (1995) *Educational, Vocational Guidance and Counseling*.  
Delhi : Doapa House
- Brennan W. K. (1982) *Changing Special Education*. Milton : The Open University Press
- Dunkin. M. J. (Editor) (1987) *The International Encyclopedia of Teaching and Teacher Education*. New York: Pergman Press
- Gudykunst, W. B. and Bella Mody (2001) (2<sup>nd</sup> Ed.) *Handbook of International and Intercultural Communication*. New Delhi : Sage Publications
- Hatlon, Sharon Crawford and Pam Coneave Ladd (2001) *Teaching Idea Development*.  
New Delhi : Sage Publications
- UNESCO(1996) *Learning : The Treasure Within*

**2) Additional Readings:**

- Choudhary, Namita (2002). *Management in Education*. New Delhi : APH Publishing Corporation.
- Kour, B. N. Bakshish Singh and M. M. Ansari (1988) *Studies in Distance Education*.  
New Delhi : Association of Indian Universities and Indira Gandhi National Open University
- Mitzel (Ed.) (1982) *Encyclopedia of Educational Research* Free Press
- Rai, Amar Nath (2000) *Distance Education: Open Learning Vs Virtual University Concepts*.  
New Delhi : Authors Press.
- Relan, Ghadiaty E. *Women in Changing Society* New Delhi : Sage Publications
- Tanaja, V. R. (1987) *Socio - Philosophical Approach to Education*. New Delhi : Atlantic Publishers and Distributions
- Thomas R. M ,Kobayashi V. N. (1987) *Educational Technology* New York : Pergman Press
- Torstein, H.T. (Ed-in-Chief)( 1985) *The International Encyclopedia of Education* Vol. 19 T. Neville Post Letwarte: Pergman Press
- Wittrock M. (1986) *Handbook of Research on Teaching*. New York : Macmillan and Co.

**3) References :**

- Dharma, O.P .and Bhatnagar O.O *Educational and Communication for Development*  
New Delhi : Oxford and IBG
- Khanna S.D et.al (1984) *Technology of Teaching and Teacher Behavior* New  
Delhli : Doaba House
- Kiranmayi, Y. S. *Management of Higher Education in India*. New Delhi: Crown Publications
- Linda Darling. Harmmond & John Bransford (2005) *Preparing Teachers for a changing World*.  
John Wiley & Son Francisco.
- Martin, D.J.& Kimberly S. Loomis (2006) *Building Teachers: A constructivist approach to Introducing Education*. USA : Wadsworth publishing
- Mongenson, G. J. (1977) *The Neurobiology of Behavior* New Jersey :Lawrence Erlbaum Associates Inc.

### **Paper III Optional**

#### **A - Special Field in Education: Educational Management**

**Marks: 100 (80+20 Marks)**  
**(40+20 hrs)**

**Duration: 60 hrs**

#### **Objectives:**

To enable students to –

1. understand concept, theories and applications of management in Education.
2. understand contributions of different schools of management to education.
3. apply theories of management to education.
4. acquaint with objectives and functions of Educational Management.
5. evaluate Educational Planning in India.
6. conduct scientific inquiry in educational management.

#### **Unit-I Performance Management and Resource Management in Educational Institutions (10 hrs)**

- a) Monitoring of school performance
- b) Performance appraisal of teachers
- c) Scientific principles of management PERT, CPM, PPBS
- d) Nature and characteristics of resources in education
- e) Need of resource management in education- Material resources, Human resources, Financial resources
- f) Role of State, Central and local governments in resource mobilization

#### **Unit-II Educational Finance Need Significance and Principles (10hrs)**

- a) Concept need and significance of Educational finance
- b) Demand for and supply of education
- c) Constitutional responsibility for providing education
- d) Principles of educational finance
- e) Allocation of resources- economic and social bases for allocation of resources in education
- f) Financing Education for equality of Education – Social justice
- g) Educational financing in India: Historical perspective

#### **Unit-III Finance and Educational Expenditure (10hrs)**

- a) Sources of finance : Government Grant, Tution Fees, Taxes, Endoroment , Donation and gifts , foreign
- b) Grant-in-aid policy in India and state for primary, Secondary and Higher Education
- c) Monitoring of expenditure control and utilization of funds, accounting and auditing.
- d) Problem and issues in finance
- e) Cost- Analysis of Education

#### **Unit-IV Information System in Educational Management (10 hrs)**

- a) Concept of management information system.
- b) Development of management information system in Education
- c) Role of Management information system in Education.
- d) Use of ICT for Educational Management.

**PRACTICUM : 20 hrs (10+10 Marks for M.Phil.)**

1. Conduct Field work and submit a written report/Participate in Group discussion and submit a written report and prepare a Seminar paper and present orally **(10 Marks)**
2. Review Related Research Literature Published in National & International Journals and Prepare a Seminar paper and present orally **(10 Marks)**

**PRACICUM : 40 hrs (20 Marks for Ph.D)**

**In case of Ph.D. there shall be 40 contact hours for preparation and presentation of a review of published research papers. (20 Marks)**

**1) Basic Readings**

- Agarwal, J. C. (1995). *Developmental Planning of Modern Education*. New Delhi : Vikas Publishing House.
- Choudhary, Namita (2002). *Management in Education*, New Delhi : APH Publishing Corporation.
- Five Year Plan documents* (1951-56, 1956- 61, 1961-66, 1968-74, 1974- 78, 1978-83, 1983-88, 1988-93).
- Griffin, Willis and Pareek Lidal. *The Process and Planned Social Change in Education*. Bombay : Somaiya Publication.
- Psacharopoulos, George (1991). (Ed.) *Economics of Education Research and Studies USA* : Pergamon Press.
- Tilak, Jandhyala B. G. (Ed.) (2003). *Education society and Development National and International Perspectives*. New Delhi : APH Publishing Corporation.

**2) Additional Readings**

- Kiranmayi, Y. S. *Management of Higher Education in India*. New Delhi : Crown Publications.
- Misra. A (1977). *Educational Finance in India*. Bombay : Asia Publishing House.
- Mohanty, J. (1990). *Educational Administration Supervision and School Management*. New Delhi : Deep and Deep Publication.
- Mukerji, S. N. (1976). *Administration of Education Planning Finance*. Baroda : Acharya Book Dept.
- Rao, Digumarti B. (1996). *Encyclopedia of Education for all*. New Delhi : APH Publishing Corporation.

**3) References**

- Bhat, K. S. S. Ravishankar (1985). *Administration of Education*. New Delhi : Seema Publications.
- Bowers Tony (Ed. 1967). *Special Educational Needs and Human Resource Management*.
- Semasekhara. N. (1985). *State's Planning in India. Techniques, Procedure and Management*. New Delhi : Himalaya Publishing House
- Sharma, S. R. (1994). *Research in Educational Planning*. New Delhi : Anmol Publications Pvt. Ltd.
- Sreekumar, S. S. *Programme Planning in Higher Education*. Allahabad : Vohra Publishers.
- Thomas, Hywel (2001). *Education Costs and Performance : A Cost Effectiveness Analysis*. Underwood : Jean D. M. Compellers and Learning.
- Vashist, S. R. (1993). *Encyclopedia of Educational Administration*. Vol. 2.

**Paper III Optional**

**B - Special Field in Education: Educational Psychology**

**Marks: 100 (80+20 Marks)  
(40+20 hrs)**

**Duration: 60 hrs**

**Objectives:**

1. to familiarize the students with the nature of Applied Psychology in general and Educational Psychology in particular.
2. to develop appreciation of the Psychological basis of Education among the students.
3. to train the students into the design and conduct of a scientific inquiry in Educational Psychology.

**Unit- I Experimental and Applied Psychology (10 hrs)**

- a) Meaning and scope of Applied psychology
- b) The evolution of experimental psychology
- c) Psychophysical methods
- d) Experimental Research on Human learning Principles and Research in Information processing : Reaction time and visual masking

**Unit-II Developmental Psychology (10 hrs)**

- a) Methods and Approaches of Developmental psychology
- b) Theories of Development – Organismic theory: Werner ; Klaus Riegel; Language Development: Chomsky's Theory
- c) Neurobiology of human behavior
- d) Researches on Human brain: Memory, Emotion, Cognition and Learning

**Unit-III Social and Environmental Psychology (10 hrs)**

- a) Meaning and scope of Social Psychology and Environmental psychology.
- b) Theories in social psychology : Self Theories; Mead, Rogers and Maslow, Interpersonal theories ; Sullivan and Carson
- c) Resolution of social conflict
- d) Research methods and practical skills for Applied social psychology
- e) Environmental theories related to man: psychoanalytic theory, Behaviorism, Gestalt theory, Levin's field theory and Barker's Ecological psychology
- f) Research methods in Environmental Psychology.

**Unit-IV Research in Educational Psychology (10 hrs)**

- a) Methodology, Communicating Research in Educational psychology : off- line : Dissertation; Thesis ; Conference & Seminar and On-line: Internet.
- b) Evaluation of Research in Educational psychology
- c) Role of Information Technology for Conducting and Reporting Researches in Educational Psychology.

**PRACTICUM : 20 hrs (10+10 Marks for M.Phil.)**

1. Conduct Field work and submit a written report/Participate in Group discussion and submit a written report and prepare a Seminar paper and present orally **(10 Marks)**
2. Review Related Research Literature Published in National & International Journals and Prepare a Seminar paper and present orally **(10 Marks)**

**PRACICUM : 40 hrs (20 Marks for Ph.D)**

**In case of Ph.D. there shall be 40 contact hours for preparation and presentation of a review of published research papers. (20 Marks)**

### **1) Basic Readings**

- Carroll, F. Izard Jerome Kagan and Rohert R. Zajone (1984)*Emotions ,Cognition and Behavior*. USA:Press Syndicate of University of Cambridge.
- Collins, Mary and James Drever (1968)*Experimental Psychology* Ludhiana :Lyallbool Depot
- Dececco, John. (1970)*The Psychology of Learning and Instruction :Educational Psychology*. New Delhi: Prentice Hall
- Goldstein. Arnold P. and Leonaro Krasner (1987). *Modern Applied Psychology*. Pergamon Press. New York.
- Fisher, R. J. (1982) *Social Psychology Today – An Applied Approach*. New York: St. Martins Press
- Hall, Elizabeth et. al. (1983). *Psychology toady – An Introduction* (5<sup>th</sup> Ed.) New York :Random House Inc.,.
- Hulse, Stewart H. Howard Egeth and James Dase (1985). *The Psychology of Learning*.( 5th Ed) New York: McGraw Hill Book Company.
- Husen, Torstan (Ed. )(1965). *The International Encyclopedia of Education and Studies*. Vol. 3. New York :Pergamon Press
- Ittelson, W. R. : I. G. Rivilin, H. M. Proshansky and Gn. Winkel (1974).*An Introduction to Environmental Psychology*. New York : Holt. Rinehart and Winston Inc.

### **2) Additional Readings**

- Lawson, R. B., Steven, G. G. and Richard, F. M. (1975). *Principles and Methods of Psychology* U. S. A :*Oxford University Press*
- Mongenson, G. J. (1977). *The Neurobiology of Behavior* .New Jersey: Lawrence Erlbaum Associates Inc.
- Posnnan, Leo and James P. Fagen (1974). *Experimental Psychology :An Introduction*. Ludhiana :Kalyani Publishers
- Schell, Robert E. and Elizabeth Hall (1983). *Developmental Psychology today (4th Ed.)* New York :Random House Inc.
- Shaver, K. G. (1977). *Principles of Social Psychology*. Massachusetts :Winthrop Publishers Inc.,.
- Wolman, Benjamin B. (Ed.)(1985). *Handbook of Intelligence – Theories Measurements and Applications*. New York : John Wiley and Sons.

### **3) References**

- Ambron, S.R (1981) *Child development*, New York :Holt, Rincehart and Winston
- Anderson, J.R. (1983). *The architecture of cognition*. CambridgeMA:HarvardUniversity Press.
- Anderson, J.R. (1983). *Rules of the mind*. Hillsdale, NJ: Erlbaum
- Barry and Johnson (1964) *Classroom Group Behaviour*. New York: Macmillan.
- Bower, G.H. and Hilgard, E.R. (1981) *Theories of learning*. New Jersey:Prentice Hall
- Englewood Cliffs, Dececo, J.P. (1977). *The Psychology of learning and instruction*, Delhi:Prentice Hall,
- Grammage, P. (1990) *Teacher and pupil: some socio-psychological principles and applications* (3rd Edition) Illinois: Scott. Pressman
- Guilford, J.P. (1967). *Nature of Human Intelligence*, New York: McGraw Hill.
- Newell, A. & Simon, H.A. (1972). *Human problem solving*. Englewood Cliffs, NJ: Prentice Hall.
- Segal, J.W. Chipman, S.F., & Glaser, R. (1985). *Thinking and learning skills: Relating Instruction to Basic Research*. (Vol. I). Hillsdale, NJ: Erlbaum.



- Synder, C.R. & Shane J. Lopez (2007). *Positive psychology*. SAGE Publications. U.K.
- Lieber, C.M. (2002) *Partners in learning: from conflict to collaboration*. Cambridge: M.A.
- Pintrich, P.R.; and Schunk, D.H. (1996). *Motivation in education: theory, research and applications*. N.J: Englewood Cliffs Merrill.

### **Paper III Optional**

#### **C- Special Field in Education : Environmental Education**

**Marks: 100 (80+20 Marks)**  
**(40+20 hrs)**

**Duration: 60 hrs**

#### **Objectives: To enable the students to**

1. understand the Process of Environmental Education.
2. understand the role of Environmental Education in sustainable Development
3. apply the knowledge of Environmental Ethics in inculcating Environmental values.

#### **Unit-1 Man & Environment (10 hrs)**

- a) Approaches to the study of Man-Environment Relationship  
Deterministic Approach, Teleological Approach, Possibilistic Approach, Economic- Deterministic Approach and Ecological Approach.
- b) Environmental Health- Meaning and scope
- c) Occupational Health and Environmental Education
- d) Pollution as a manmade disaster
- e) Disaster Management: Role of Environmental Education.

#### **Unit-2 Environmental Education & Related Branches (10 hrs)**

- a) Environmental Education- meaning & Scope.
- b) Environmental Education at various levels of Education (with special reference to the curriculum implemented in Maharashtra )  
Primary Education, Secondary Education, Higher Education and Teacher Education Programs: objective, content areas, teaching-learning process & evaluation.
- c) Environmental Education and Related Branches-
  - i) Environmental Science.
  - ii) Environmental Economics.
  - iii) Environmental Sociology.
  - iv) Environmental Biotechnology.
  - v) Environmental Engineering.
- d) Use of ICT in Environmental Education.

#### **Unit-3 Environmental Ethics (10 hrs)**

- a) Environmental Ethics: concept, need, scope, nature of values related to environmental conservation.
- b) Learning from Nature
- c) Indian culture and Environmental conservation.
- d) Strategies for inculcating Environmental values among the students at various levels of Education.
- e) Environmental Auditing- concept, scope, need, principles.

#### **Unit- 4. Sustainable Development (10 hrs)**

- a) Sustainable Development- concept, dimensions & principles
- b) International Institutions and programmes affecting the process of sustainable Development- World Bank, IUCN (International Union for conservation of Nature and Natural Resources) and UNEP (United Nations Environmental Programme)
- c) Education for sustainable Development- concept, scope, Need of an Interdisciplinary Approach.
- d) Environmental Management: concept, need, scope and Role in sustainable Development.
- e) Environmental Impact Assessment- Meaning, steps and Role in sustainable Development.
- f) Role of Environmental Education in Sustainable Development.

#### **PRACTICUM : 20 hrs (10+10 Marks for M.Phil.)**

1. Conduct Field work and submit a written report/Participate in Group discussion and submit a written report and prepare a Seminar paper and present orally **(10 Marks)**
2. Review Related Research Literature Published in National & International Journals and Prepare a Seminar paper and present orally **(10 Marks)**

#### **PRACICUM : 40 hrs (20 Marks for Ph.D)**

**In case of Ph.D. there shall be 40 contact hours for preparation and presentation of a review of published research papers. (20 Marks)**

##### **1) Basic Readings**

- Centre for Environment Education & National council of Teacher Education (2007)  
*Environmental Education- A Resource Book for Teacher Educators (Level 1,2 and 3)*
- Iyer Gopal(1996) *sustainable Development: Ecological and Socio-Cultural Dimensions* New Delhi : Vikas publishing House
- Hilgenkamp Kathryn (2006). *Environmental Health –Ecological Perspectives* London : Jones & Bartlett Publishers.
- Srivastava D. C. (Education) (2005) *Readings in Environmental Ethics- Multidisciplinary Perspectives*. New Delhi: Rawat Publications
- Shrivastva K.K. (2004) *Environmental Education: Principles, Concepts and Management* New Delhi: Karishka publishers

##### **2)Additional Readings**

- Datta Amol K. (2000). *Introduction to Environmental Science & Engineering*, New Delhi: IBH Publishing Co.,
- Dhaliwal, G. S. & Ralhan, P. K. (1995). *Fundamentals of Environmental Science*. New Delhi : Kalyani Publishers,
- Dayani, S. N. (1993). *Management of Environmental Hazards*. New Delhi : Vikas Publishing House
- Iyer, Gopal (1996). *Sustainable Development Ecological & Socio-cultural Dimension*. New Delhi : Vikas Publishing House
- James, George (1999). *Ethical Perspectives on Environmental Issues in India*. New Delhi. APH Publishing Corporation.

Karpagam, M. (1999). *Environmental Economics*, Sterling Publisher Pvt. Ltd.

Kumar, Arun (1999). *Environmental Problems Protection & Control*. (Vol. 1 & 2). New Delhi : Anmol Publication ltd

Mehta, Chetan Singh (1997). *Environmental Protection & the Law*. New Delhi. Ashish Publishing House

Mukherjee, Biswarp (1996). *Environmental Biology*, New Delhi.: McGraw Publishing Co.

### 3) REFERENCES

Asthana Vandanna, (1992). *The Politics of Environment*. New Delhi : Ashish Publishing House,

Brown Valerie and others (1995). *Risks and Opportunities*, London : Earthscan Publications.

Nanda, V. K. (1997). *Environmental Education*. New Delhi Anmol Publications Pvt.

NCERT (2000). *National Curriculum Framework 2000*. New Delhi : NCERT Press.

NCTE (2005). *Environmental Education Curriculum Framework for Teachers & Teacher Education*. New Delhi : NCERT press.

Nasrin (1999). *Environmental Education*. New Delhi APH Publishing Co.

Rao, Digamurti Bhaskar (1998). *Earth Summit*, New Delhi: Discovery Publishing House,

Rasthanaswamy, P. Forwarded By Hans (Van Sponeck) (1998). *International Environment Management*. New Delhi : Manoj Publication,

Saxesena, K. D. (1993). *Environmental Planning. Policies & Programmes in India*. New Delhi : Shipra Publication,

Singh, Uttamkumar & Nayak, A. K. (1997). *Health Education*. New Delhi Commonwealth Publisher,

### Paper-III Optional

#### D - Special Field in Education : Information Technology and Educational Technology

**Marks : 100 (80+20 Marks)**  
(40+20 hrs)

**Duration : 60 hrs**

#### Objectives :

To enable the students to:

- 1) understand and apply ICT Application in Research.
- 2) understand about e- learning
- 3) understand about Courseware Design.
- 4) understand technical aspects of Courseware Design.

#### Unit-I ICT Application in Research (10 hrs)

- a) Use of ICT in Research, including on-Line research.
- b) Use of ICT for reporting in the form of theses, journal articles and presentations in seminars and conferences.
- c) Downloading of international standards for writing a research report, references and bibliography new books/ journals from internet.
- d) Data analysis and interpretation by using database software: Spread sheet/ Access/ SPSS or other similar software.
- e) Creating graphs and charts, creating a table by using wizard.
- f) Web Resources for research : Blog and Professional Forum.
- g) Study of research trends in Informational Technology and Educational Technology.

**Unit-II e- Learning (10 hrs)**

- a) Introduction to Learning management systems.
- b) Introduction to LMS and LCMS: Course Management using LMS and LCMS.
- c) Standards for e-learning and future possibilities
- d) Use of Wikipedia, wiki educator and other web-based technologies for online learning and training.
- e) e- Learners and e-educator interaction using web tools e-mail, chat, conferencing discussion forum.

**Unit-III Courseware Design (10 hrs)**

- a) Courseware- Design patterns, procedure of development and validation of Courseware :  
i) Need assessment, ii) stating the objectives.
- b) Identification of Resources, Limitations , Selection of Learning activities and criteria for learning organization. Alternative methods of attaining the objectives, field testing feedback and evaluation.
- c) Introducing the Interactivity and making a courseware outline, Barriers in the preparation of courseware.

**Unit- IV Technical Aspects of Courseware Design (10 hrs)**

- a) Courseware management system: Introduction to Courseware Management Systems LMS and LCMS software for Courseware Management, Standards for ICT enabled Courseware, Use of Wikipedia, Wiki educator and other web based technologies for online Courseware .
- b) Course ware Evaluation Different methods of Courseware Evaluation.
- c) Designing a rubric for evaluating the Course ware criteria for Courseware evaluation. Designing of Evolution criteria for assessment of online and off-line Courseware.

**PRACTICUM : 20 hrs (10+10 Marks for M.Phil.)**

- 1. Conduct Field work and submit a written report/Participate in Group discussion and submit a written report and prepare a Seminar paper and present orally (**10 Marks**)
- 2. Review Related Research Literature Published in National & International Journals and Prepare a Seminar paper and present orally (**10 Marks**)

**PRACICUM : 40 hrs (20 Marks for Ph.D)**

**In case of Ph.D. there shall be 40 contact hours for preparation and presentation of a review of published research papers. (20 Marks)**

**1) Basic Readings**

- Brown J. Watal (1983). *A. V. Instruction Technology Media andMethods*.
- Dale E. (1961). *Audiovisual Methods in Teaching*. New York: Holt Rinchart and Winston,
- Holmbero, B. (1980). *Status and Trends of Distance Education* New York: Nichols Publishing,
- Kobayashi, V. N. (1987). *Educational Technology. Vol. 4*, New York :Pergmon Press..
- Mukhopadyaya M. (1989). *Year Book : Educational Technology*.New Delhi : AIAET..
- Rasik, Taher Lestar J. (1985). *Systems Approach to Theory in Education, Its Applications to Instructional Development*. Bombay: Himalaya Publishing House
- Sharma M. (1985). *Systems Approach its Application in Education*. Bombay :Himalaya Publishing House

## 2)Additional Readings

Wittich & Schaller (1973). *Instructional Technology*. New York: Harper & Brothers.  
National Policy on Education 1986.  
Hussain T. & Postlewarle. T. N. (1985).*The Instructional Encyclopedia of Education Vol. No. 6*.  
New York :Pergamon Press  
IGNOU. *Growth and Development of Distance Education –Distance Education Course I. Book-2*.  
Buch, M. B.. Surveys of Educational Research –Vol. I to VI Reviews on Educational Technology.

## 3)References:

Anand Rao B. and Ravishankar: *Readings in EducationalTechnology*.  
Bombay:Himalaya Publishing House  
.Dharma, O.P .and Bhatnagar O.O. *Education and Communication for Development*.  
Oxford and IBG, New Delhi.  
Khanna S.D(1984 )*Technology of Teaching and Teacher Behavior* New  
Delhi: Doaba House  
Patel I.J and others *A Hand Book of Programmed Learning* Baroda: CASE,.  
Ronald H Anderson *Selecting and Developing Media for Instruction*. New York :Van  
Nostrand Reinhold,.  
Sharma R A *Programmed Instruction – An Instructional Technology*. , Meerut:Loyal  
Bank Depot  
Walter A Written and Charles F Schuller *Instructional Technology - its nature of A.V. Materials*  
(5th Ed, New York:Harper and Row Publishers

## Paper III Optional E - Special Fields in Education : Teacher Education

**Marks: 100 (80+20 Marks)**  
**(40+20 hrs)**

**Duration: 60 hrs**

### Objectives:

To enable the students to –

1. Gain insight and reflect on the concept of teaching and the status of teaching as a profession.
2. Understand the roles and responsibilities of teachers and teacher educators,
3. Prepare teachers for reflective teaching,
4. Critically examine the role and contribution of various regulating bodies and support institutions for improving quality of teacher education,
5. Critically examine the growth and development of teacher education in the country
6. Appraise the existing teacher education curriculum from the standpoint of its relevance to the demands of present day school curriculum
7. Develop understanding of various strategies of teachers professional development
8. Gain insight into the status of teachers in-service education in the country
9. Develop understanding of the process of in-service teacher education.

### Unit-I Teaching as profession (10 hrs)

- a) Changing roles and responsibilities of teacher.
- b) Concept of profession, teaching as profession Professional Ethics for teachers.
- c) Role and responsibilities of Teacher Educator

- d) Continuous education of Teacher educator

**Unit-II Pre Service Teacher Education(10 hrs)**

- a) Pre service Teacher Education: Nature, concept and objectives at different levels of Teacher Education
- b) Components of Teacher Education curriculum at different stages
- c) Models of pre service Teacher Education- one year, 2 year, 4 year integrated and distance mode.
- d) Issues and problems of pre service Teacher Education.

**Unit-III Professional Development: In service Teacher Education: (10 hrs)**

- a) Concept, need and importance of professional development
- b) Modes, Planning, organization of in-service training
- c) Need analysis formulation of training curriculum, preparation of course material.
- d) Strategies of professional development.
- e) Linkage between pre and in-service Teacher Education.

**Unit-IV: Quality Management of teacher Education: (10 hrs)**

- a) Parameters of Quality of Teacher Education
- b) TQM of Teacher Education
- c) Quality assurance of Teacher Education.
- d) State and central institutions working for Quality management.

**PRACTICUM : 20 hrs (10+10 Marks for M.Phil.)**

- 3. Conduct Field work and submit a written report/Participate in Group discussion and submit a written report and prepare a Seminar paper and present orally **(10 Marks)**
- 4. Review Related Research Literature Published in National & International Journals and Prepare a Seminar paper and present orally **(10 Marks)**

**PRACTICUM : 40 hrs (20 Marks for Ph.D)**

**In case of Ph.D. there shall be 40 contact hours for preparation and presentation of a review of published research papers. (20 Marks)**

**1) Basic Readings**

- 1. *Report of the Education Commission (1964-66)*
- 2. *Report of the National Commission on Teachers (1983-85)*
- 3. *National Curriculum Framework for Teacher education, 2009*
- 4. *Report of the Delors Commission, UNESCO, 1996*
- 5. *National Policy of Education 1986/1992*
- 6. *National Curriculum Framework on school education, 2005.*

**2) Additional Readings**

UNESCO (2006) *Teachers and Educational Quality*. Montreal : UNESCO  
NCTE (2009) *National Curriculum Framework of Teacher Education*  
NCTE (2005) *National Curriculum framework*.  
NCERT (2006) *Teacher Education for Curriculum renewal*.  
NCTE (1998) *Perspectives in Teacher Education*  
NCERT (2006) *The Reflective Teacher Organization of In-service Training of the Teachers of*

### 3) References

- Beck, Clive & Clark Kosnik Albany (2006) *Innovations in Teacher Education: A social Constructivist approach*. New York: State University
- Caggart, G.L.(2005) *Promoting Reflective Thinking in Teachers*. New York :Crowin Press.
- Cohen Louis, Minion Lawrence & Morrison, Keith (2004). *A Guide to Teaching Practice*(5<sup>th</sup> ed.)  
New York: Rout ledge falmer
- Day. C.& J. Sachs, J. (Ed) (2004) *International Handbook on the Continuing professional Development of Teachers*. Maidenhead Brinks :open University press.
- Herne Steve, Jessel John & Griffith, Jenny (2000). *Study to Teach: A Guide to studying in Teacher Education*. New York: Rout ledge falmer
- Irvine, J.J.(2003) *Educating teachers for diversity: Seeing with a cultural eye*. New York: Teachers College press.
- Joyce, B., and Weil, M.(2003). *Models of Teaching* (7<sup>th</sup> Ed.) Boston: Allyn & Bacon.
- Korthagen, Fred A.J.et al: (2001) *Linking Practice and Theory : The pedagogy of Realistic Teacher Education*. Lawrence Erlbaum Associates.
- Lampert, M.(2001). *Teaching problems and the problems of teaching*. New Haven: Yale University press.
- Linda Darling. Harmmond & John Bransford (2005)*Preparing Teachers for a changing World*. John Wiley & Son Francisco
- Martin, D.J.& Kimberly S. Loomis (2006)*Building Teachers: A constructivist approach to introducing education. USA* :Wadsworth publishing
- Mohammad Miyan (2004) *Professionalisation of Teacher Education*. New Delhi: Mittal Publications
- NCTE (1998) *Policy perspectives in Teacher Education*. New Delhi.
- NCTE (1998). *Competency Based and Commitment Oriented Teacher Education for Quality School education*. New Delhi.
- NCTE (1998)*Policy perspective in Teacher Education- Critique and Documentation* New Delhi
- Ram, S.(1999) *Current Issues in Teacher Education*. New Delhi: Sarup & Sons Publication
- Rao, Digumarti Bhaskara (1998). *Teacher Education in India*. New Delhi:. Discovery Publishing House
- Reimers, Eleonora Villegas (2003)*Teacher professional development: an international review of the literature*. UNESCO: IIEP, Paris
- Schon, D. (1987) *Educating the Reflective practitioner: Towards a New Design for Teaching and Learning in the Professions*. NewYork: Basic Books.
- Siddiqui, M.A. (1993) *In-Service Education of Teachers*. New Delhi : NCERT
- Yadav, M.S. & Lakshmi, T.K.S. (2003) *Conceptual inputs for secondary Teacher Education: The instructional Role* New Dehli : NCTE