# Central University of Rajasthan School of Education



#### COURSE STRUCTURE AND SYLLABUS Ph.D Pre-Course Work

#### **School of Education**

The School of Education was established in the year 2014. The vision of the school is to prepare individuals who will bring change through teaching, leadership, research and services in their professions and communities. The mission of the school is to develop professionally equipped and humane teachers and quality practitioners in the field of Yogic Sciences.

The School of Education has two departments:

- > Department of Education and
- > Department of Yoga

#### DEPARTMENT OF EDUCATION

Department of Education offers three programmes:

- ➤ Integrated M.Sc.B.Ed in four disciplines (Physics, Chemistry, Mathematics & Economics)
- ➤ Masters of Arts in Education (M.A Education)
- ➤ PhD in Education

#### **Priority Areas of Research**

The department has faculty members having expertise in varied areas. Some of the areas are list as under.

Educational Administration and Management
Women and Gender studies
Pedagogical Sciences
Displacement discourse
Tribal Discourse
Educational Psychology
ICT and Education
Pedagogical Sciences
Teacher Education
Pedagogy of Science, social science, mathematics, physics, chemistry, commerce, life
sciences
Sociology of Education
Entrepreneurship in Education
Educational Technology
Inclusive Education, special education
Leadership in Education
Women Leadership
Early Childhood Education
Life Skills Education
Any Emerging Issues in Education
Recent Trends in Education & Pedagogy

#### ADMISSION PROCEDURE

The admission to this programme shall be through Central universities entrance test (CUET) to be conducted on all-India basis

#### **ELIGIBILITY FOR ADMISSION**

55 % MARKS (50 % for SC/ST/OBC/PWD/EWS Candidates) in the Masters of Arts (Education) or Masters of Education (M.Ed) of M.Ed (Special Education)

#### **PROGRAMME OUTCOMES:**

- 1. To make students aware of various issues, challenges and prospects in education
- 2. To make students identify the emerging research areas and trends
- 3. To acquaint the students to select the appropriate research methodology
- 4. To sensitize the students with publication ethics and research ethics
- 5. To develop an in-depth insight into the area of their research
- 6. To acquaint the students with skills of research writing and publication

## **COURSE STRUCTURE**

Sr No	Course	Course Name	Course Code	Credits
1	Core	Research Methodology in Education	EDU 701	4
2	Core	Research and Publication Ethics	EDU 702	2
3	Core	Pedagogy of Higher Education	EDU 705	3
		Practice Based Teaching Skills (non graded)	XXX	3
	<b>ELECTIVE</b>	ANY TWO OF THE FOLLOWING SPECIA	LISATION	
1		Innovative Reflections on Various	EDU 781	4
		Pedagogical Aspects		
2		Educational Management, Planning and	EDU 782	4
		Leadership		
3		Cognitive Learning	EDU 783	4
4		Trends in Entrepreneurship Education	EDU 784	4
5		Inclusive Education	EDU 785	4
6		Curriculum Development	EDU 786	4
7		Gender in Education	EDU 787	4
8		Educational Technology And ICT	EDU 788	4
		Total Credit		17

**COURSE TITLE:** Research Methodology in Education

Teaching Scheme	Examination Scheme	Credits Allotted
Theory: : 3 hours/week	ESE: 100 Marks	Theory: 03
Tutorial: 1 hour/week		Tutorial:01
		Total: 04

#### Pre-requisites:

The pre-requisite for this course is a master's degree in social sciences discipline.

#### **Learning Outcomes**

#### After completion of this course, the learners will be able to;

- 1. Understand the basic concepts and acquire the skills necessary for conducting quality research in education and its methodologies.
- 2. Decide research philosophies as per nature of their research work.
- 3. Formulate research proposal according to various research methodology.
- 4. Develop various type of tools/instruments used to collect data.
- 5. Analyze and interpret qualitative data.
- 6. Analyze and interpret quantitative data.
- 7. Identify the strength and limitations of various educational research designs
- 8. Evaluate a research report.

#### **Course Outcomes**

#### The instructor would fulfil the following objectives

- 1. To develop an understanding of the basics of educational Research.
- 2. To make them understand research paradigm and philosophies and its relation with other domains.
- 3. To develop an understanding of the basics of educational Research.
- 4. To train to collect data from both the sources.
- 5. To acquaint them with the procedure of standardization of research tools.
- 6. To develop a conceptual understanding of research methods i.e., qualitative and quantitative.
- 7. To practised data analysis with both types of data i.e., qualitative and quantitative

	Course Content	Hours Required
UNIT I	Over view of Research and Educational Research	10 Hours
	<ul> <li>i) The Nature of Research; Nature of Knowledge and Scientific Inquiry</li> <li>ii) Inter disciplinarily in Educational Research,</li> <li>iii) Generalisation in Educational research</li> <li>iv) Role of Assumptions, Paradigms and Approaches in Research</li> </ul>	
UNIT II	Understanding Research Philosophies and Paradigms	10 Hours
	<ol> <li>Research paradigms: Ontology, Epistemology,         Methodology and Axiology</li> <li>Research Philosophies: Positivism, Interpretivism, Critical         Realism, Empiricism, Symbolic interactionism, Pragmatism</li> </ol>	

UNIT III	Methodologies for Educational Research	10 Hours
	Naturalistic and Ethnographic research	
	2. Historical and documentary research	
	3. Survey: Longitudinal and cross-sectional and Trend studies	
	4. Case Studies	
	5. Experiments Studies	
	6. Biographical and Phenomenology	
	7. Grounded theory	
TINITED TY		10.11
UNIT IV	Method of Data Collection	10 Hours
	Questionnaire, Interview, Observation, Focus group	
	discussion, Field Notes	
	2. Tests & Inventories	
	3. Using Secondary Data in Educational Research	
	4. Personal construct	
UNIT V	Qualitative Analysis and Interpretation	10 Hours
	1. Approaches to qualitative data analysis	
	2. Organizing and presenting qualitative data	
	3. Coding and Content Analysis	
	4. Discourses: Conversation, narrative and autobiographies as	
	texts	
	5. Meta-analysis, systematic reviews and research syntheses	
UNIT VI	Quantitative Analysis and Interpretation	10 Hours
	Approaches to quantitative data analysis	
	2. Statistical Significance, effect size and statistical power	
	3. Descriptive statistics	
	4. Inferential Statistics	
Assessment		
ESE**	Written Examination of Complete Course - 100 Marks	
Mode of transa		
1.1000 OI LIMISE	Lecture-cum-discussions, Tutorials, and Workshop Sessions	
ASSIGNMENT		

#### **ASSIGNMENTS**

- Preparing a research proposal
- Conduct a review of related literature
- Construct and adaptation a tool and fellow the procedure of standardization
- Write a research article
- Use the various anti-plagiarism tools

#### **Books for Reference**

- ➤ Best, J.W.& Khan, J.V. (2010). Research in Education(Tenth Education). New Delhi, India: Prentice Hall of India.
- Nicholas, Walliaman. (2011).RESEARCH METHODS: THE BASICS. Routledge, Taylor and Francis
- Cohen, Louis ., Mauion, Lawrence & Morrison, Keith. (2017). Research Methods in Education (Eight editions). Routledge.
- Edwards, A. L. (1957). Techniques of Attitude Scale Construction. New York: Appleton-

- Century- Crafts
- ➤ Garrett, H. E.(1981). Statistics in Psychology and Education. New Delhi: Paragon International Publishers
- ➤ Gay, L. R., Airasian, P. (2003). Educational Research: Competencies for Analysis and Applications (seventh edition). Upper Saddlw River. NJ: Pearson Education
- ➤ Hinton, Perry R. (2014). Statistics Explained (Third edition). Routledge
- ➤ Kothari, C. R.(2004).Research Methodology: Methods and Techniques. New Delhi, New Age International(P) Limited,
- ➤ Mangal, S.K (2019). Statistics in Psychology and Education (Second University). New Delhi: P.H. Learning Private Limited

#### Web Links and Web source (Articles/Reading materials)

https://www.ox.ac.uk/students/academic/guidance/skills/plagiarism?wssl= 2.

https://student.unsw.edu.au/path-avoiding-plagiarising 3.

http://isites.harvard.edu/icb/icb.do?keyword=k70847&pageid=icb.page355322 4.

https://studentaffairs.duke.edu/conduct/z-policies/academic-dishonest

ALWD Guide to Legal Citation. http://www.alwd.org/publications/citation-manual/ 2. APA Style. http://www.apastyle.org/ 3. Blue Book: A Uniform System of Citation. https://www.legalbluebook.com/ 4. Chicago Manual of Style. http://www.chicagomanualofstyle.org/16/contents.html 5. MLA Style Manual. https://www.mla.org/MLA-Style 6. OSCOLA https://www.law.ox.ac.uk/research-subject-groups/publications/oscola

**COURSE TITLE:** Innovative Reflections on Various Pedagogical Aspects

Teaching Scheme	Examination Scheme	Credits Allotted
Theory: : 3 hours/week	ESE: 100 Marks	Theory: 03
Tutorial: 1 hour/week		Tutorial:01
		Total: 04

#### Prerequisite

Any research scholar who is enrolled in the Ph.D. Education Program can study this Course. The scholar must have some familiarity with general pedagogical operations. The research scholars must have the general understanding about the concept of teacher education and various pedagogical approaches.

#### **Learning Outcomes**

The research scholars will envisage to:

- 1. Explain the challenges, issues and aspects of teaching and learning through innovative research.
- 2. Critically analyze through research on the problems & challenges of learners and teachers.
- 3. Reflect innovative ideas through research on quality of teaching-learning practices in India.
- 4. Analysis, and implement in a better way what they have learned from the course and how they hope to apply it in their future classroom.
- 5. Exhibit certain professional skills useful for research on professional development of teachers.
- 6. Do independent research by preparing tools and adopting techniques for data collection on innovative pedagogical aspects

#### **Course Outcomes**

The research scholars will envisage to:

- 1. Explain the concepts of teaching, and learning.
- 2. Critically analyze the problems & challenges of learner and teachers.
- 3. Reflect on quality of teaching-learning practices in India.
- 4. Analysis, and implement in a better way what they have learned from the course and how they hope to apply it in their future classroom.
- 5. Exhibit certain professional skills useful for professional development of teachers.
- 6. Do independent research by preparing tools and adopting techniques for data collection on innovative pedagogical aspects.

	Course Content	Hours
		Required
UNIT I	Pedagogy: Meaning, nature and concept	10 hours
	Meaning, Nature, and Origin of the concept of Pedagogy. Scope of Pedagogy at different level of education (Pre-Primary, Primary, Secondary, Senior Secondary, Higher Education).	
UNIT II	Pedagogical Analysis and its operations	10 hours
	Meaning of Pedagogical Analysis, Various Operations of Pedagogical analysis; Content Analysis, Formulations of learning objectives (General objectives, Specific objectives	

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	and Instructional Objectives), Teaching- Learning	
	Experiences ( planning and selection of teaching strategies,	
	teaching methods, teaching-learning material, and teaching	
	aids), Assessment and Evaluation.	
UNIT III	Aspects of Pedagogy: Related to Learners	10 hours
	Learners and various characteristics of Learners;	
	psychological (Personality, intelligence, learning capacity,	
	motivation, attitude, aptitude, interest, level of aspiration,	
	mental health, life skills etc.). Influence of Home and	
	Family Environment, and society on learners development.	
	Psycho-somatic disorders in students and its measures.	
	Review and reflections on the researches on all learners	
	related aspects and thrust areas for future researches.	
UNIT III	Aspects of Pedagogy: Related to Teachers	10 hours
CIVII III	Teachers and Teacher Educators. Philosophical,	10 Hours
	Psychological and Sociological basis of Teaching,	
	• •	
	Characteristics of teachers (Satisfaction, level of aspiration,	
	motivation, and professional growth etc.), Teacher's	
	accountability, obligations towards students, parents,	
	organization, community and nation. Psycho-somatic issues	
	of teachers, and its measures. Review and reflections on the	
	researches on all teachers related aspects and thrust areas for	
TINITED TY	future researches.	10.1
UNIT IV	1 88 81	10 hours
	Types and Need of various modern pedagogical approaches,	
	Information and Communication Technology in Teacher	
	Education. Reflections on Computer supported collaborative	
	Learning (CSCL) - Technology Enhanced Learning (TEL),	
	M-Learning, Blended learning. Effective Management	
	Techniques. Inclusive pedagogy and its challenges for	
	revamping Teacher Education. Review and reflections on	
	the researches related with various approaches and thrust	
	areas for future researches.	
UNIT V	Quality Assurance of Education	10 hours
	Quality Assurance and Accreditation in Education	
	Institutions. Reflections on the Issues related to	
	Globalization and Privatization of Education, Issues,	
	problems and remedial measures of Quality Education in	
	India. Review and reflections on the researches related with	
	various quality related aspects and thrust areas for future	
	researches.	
UNIT VI	Assessment Practices	10 hours
	Meaning, Nature and Forms of Assessment, Aspects of	
	Holistic Assessment; Cognitive and Non cognitive.	
	Effective Innovative Assessment Processes, Accountability,	
	Skills and Behavior. Current practices of assessment and	
	evaluation. Review and reflections on the researches related	
	with assessment related aspects and thrust areas for future	
	researches.	
Assessment		
ESE**	Written Examination of Complete	
	Course - 100 Marks	
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#### Mode of transaction

Lecture-cum-discussions, Tutorials, and Workshop Sessions

#### ASSIGNMENTS

- Reflections on various issues related to pedagogical aspects.
- Preparation of research proposals on the issues on various issues of teaching-learning.
- Review of earlier research studies in the area of pedagogical aspects.

Presentations by the scholars on recent research in the area of pedagogical aspects

#### **SUGGESTED READINGS:**

#### Books:

- Anderson, L.W. (Ed.), Krathwohl, D.R. (Ed.), Airasian, P.W., Cruikshank, K.A., Mayer, R.E., Pintrich, P.R., Raths, J., & Wittrock, M.C. (2001). A taxonomy for learning, teaching, and assessing: A revision of Bloom's Taxonomy of Educational Objectives. White Plains, NY: Longman.
- Batis, A. and Pook, G (2003). Effective Teaching with Technology in Higher Education. San Francisco: Jossey Bass/ John Wiley.
- Beck, C. & Clark K. (2006).Innovations in Teacher Education: A Social Constructivist Approach. Ney York: State University of York.
- Guskey, T.R., & Bailey, J.M. (2001). Developing grading and reporting systems for student learning.
   Thousand Oaks, CA. Corwin.
- Mangal S.K. & Mangal Shubhra (2019). Assessment for Learning, PHI Learning Pvt. Ltd., New Delhi.
- Jangira. NK & Ajit Singh (1982). Core Teaching Skills, The Micro-teaching Approach, New Delhi: NCERT.
- John W. Best & James V. Kahn (2007). Research in Education. New Delhi: Prentice Hall of India Private Limited.
- Judith Bennett (2003) Teaching and Learning Science: A guide to recent research andits applications, Continuum, London.
- Herne S., Jessel J. & Griffith, J. (2000). Study to Teach: A Guide to Studying in Teacher Education.
   London and New: York. Rout ledge Falmer.
- Kochhar, SK (2003). Methods and Techniques of Teaching. New Delhi: Publishers Pvt.Ltd.
- Loughran, J. (2006). Developing a Pedagogy of Teacher Education: Understanding Teaching and Learning about Teaching. New York: Routledge:
- Mohammad Miyan (2004). Professionalization of Teacher Education. Mittal Publication. New Delhi.
- NCFTE-2009-NCTE Publication, New Delhi.
- NEP-2020, Ministry of Human Resource Development, Government of India
- Yadav, M.S. & Lakshmi, T.K.S. (2003). Conceptual Inputs for Secondary Teacher Education: The Instructional Role. India: NCTE.

#### Web Links:

- https://jonasmuthoni.com/blog/role-of-ict-education/
- <a href="https://tyonote.com/quality\_management">https://tyonote.com/quality\_management\_issues\_and\_challenges/</a>
- https://www.researchgate.net/publication/345224426 Theories of Pedagogy
- https://www.researchgate.net/post/Why-is-Heutagogy-considered-a-theory-of-learning

#### Journal Articles/ Papers:

- Carr, A., Balasubramanian, K., Atieno, R., & Onyango, J. (2018). Lifelong learning to empowerment: Beyond formal education. Distance Education 39(1), 69-86. doi: https://doi.org/10.1080/01587919.2017.1419819
- Chacko, T. V. (2018). Emerging pedagogies for effective adult learning: From andragogy to heutagogy. Archives of Medicine and Health Sciences, 6(2), 278.
- Cobern, W.W., Schuster, D., Adams, B., Skjold, B.A., Muğaloğlu, E. Z., Bentz, A. & Sparks, A. (2014). Pedagogy of Science Teaching Tests: Formative assessments of science teaching orientations, International Journal of Science Education, 36:13,2265-2288, DOI: 10.1080/09500693.2014.918672
- Darling-Hammond, L. (2006). Constructing 21st-century teacher education. Journal of teacher

- education, 57(3), 300-314.
- Elliott, J. (Ed.). (2011). Reconstructing teacher education (Vol. 221). Routledge.
- Gupta, A. & Sharma, S. (2016). The Role of ICT In Teacher Education.BBSSES, 7(10), ISSN 2321 9726(online).
- Hodgkinson, H. (2002). Demographics and teacher education: An overview. Journal of teacher education, 53(2), 102-105.
- Loewenberg Ball, D., & Forzani, F. M. (2009). The work of teaching and the challenge for teacher education. Journal of teacher education, 60(5), 497-511.
- Munck, M. (2007). Science Pedagogy, Teacher Attitudes, & Student Success. Journal of Elementary Science Education, Department of Curriculum & Instruction, College of Education, Western Illinois University, 19(2), pp. 13-24.
- Osborne, J. (2007). Science Education for Twenty-First Century. Eurasia Journal of Mathematics, Science & Technology Education, 3(3), 173-184, <a href="https://doi.org/10.12973/ejmste/75396">https://doi.org/10.12973/ejmste/75396</a>
- Sikula, J. (1996). Handbook of research on teacher education. Macmillan Library Reference USA, Simon & Schuster Macmillan, 1633 Broadway, New York, NY 10019.
- Sukumar, K. S. & Kumar, S. S. (2015). Problems faced in the implementation of Total Quality Management in higher secondary schools in Kerala, India. <u>Journal of Social and Economic Development</u>, 17, pp. 275–297

#### COURSE TITLE: EDUCATIONAL MANAGEMENT, PLANNING AND LEADERSHIP

<b>Teaching Scheme</b>	Examination Scheme	Credits Allotted
Theory: : 3	ESE: 100 Marks	Theory:03
hours/week		
Tutorial:		Tutorial:01
1hours/week		
		Total:04

#### Pre-requisite

Any Post graduate student who enrolled in the Ph.D. (Education) programme can study this Course

#### **Course Outcomes**

#### After completion of this course, the students will be able to

- 1. Understand the concept pf Educational Management
- 2. Acquire the knowledge of Various theories of Management
- 3. Develop understanding of the concept of leadership
- 4. Critically analyze the various leadership theories
- 5. Develop an understanding of concept of Educational Planning
- 6. Critically analyze the various approaches to Educational Planning
- 7. Understand the status of women in educational leadership
- 8. Identify the research trends in the field of Educational Leadership

#### COURSE CONTENT UNIT I **Concept of Educational Management** 8 hours Concept of Educational management and Educational Administration Principles of Management- Henri Fayol Functions of Management: POSDCORB Theories of Management UNIT II 8 hours **Educational leadership** Meaning and Definition of leadership. Leadership qualities or attributes Leading vs. Managing: Some Crucial distinctions Theories of Leadership UNIT III a) Trait theories of Leadership 8 hours b) Situational theories of Leadership c) Fiedler"s Contingency model of Leadership, Path – Goal Leadership theory **UNIT IV Educational Planning** 11 hours Concept of Educational Planning Need and Importance of Educational planning Approaches to educational planning. Social demand approach •Man-power approach •Return of Return approach Types of educational planning

UNIT V	Women In Educational Leadership	10 hours
	<ul> <li>Status of women in educational leadership,</li> <li>Need and importance of women in Leadership positions</li> <li>Feminine and Masculine leadership</li> <li>Research Trends in the area of Women leadership</li> </ul>	
UNIT VI	Related Concepts of Leadership in Educational Management	15 hours
	<ul> <li>Leadership and Organizational Climate</li> <li>Leadership and Staff Morale</li> <li>Leadership and Organizational Development</li> <li>Leadership and Faculty Development</li> <li>Power and Authority</li> <li>Research Trends in Educational Management and Leadership</li> </ul>	
ESE	Written Examination of Complete Course - 100 Marks	

#### **Mode of transaction**

Lecture –cum- discussions, Group activities, Case Studies, Role play, assignments, presentation by students

#### **SUGGESTED READINGS**

- 1. Choudhary R (2011) Case studies of women Administrators in higher education system of India. Germany: Lambert Academic publishing
- 2. Craigs, M.W. (1995). Dynamics of Leadership. Bombay: Jaico Publishing House, Bombay.
- 3. Hersey.P & Blanchard.K (1986). Management of Organisational Behaviour: UtilizingHuman
- 4. Resources. New Delhi: Prentice Hall of India
- 5. Luthans, Fred (1981). Organizational behaviour. Tokyo: McGraw-Hill InternationalBook Co.
- 6. Sandra Gupton (1996) Highly successful women administrators. California: Corwinpress, Inc, sage publication company.
- 7. Stephen P. Robbins (2009). Organizational Behaviour. India: Pearson Prentice Hall

**COURSE TITLE: COGNITIVE LEARNING** 

<b>Teaching Scheme</b>	Examination Scheme	Credits Allotted
Theory: : 3 hours/week	ESE: 100 Marks	Theory:03
Tutorial: 1hours/week		Tutorial:01
		Total: 04

#### **Pre-requisite**

Any post graduate student who enrolled in the Ph.D. (Education) programme can study this Course

#### **Course Outcomes**

After completing this course, the students will be able to

- 1. Develop understanding about cognition and cognitive development
- 2. Develop understanding about cognitive learning and strategies of Cognitive Learning
- 3. Appreciate the process of cognitive learning
- 4. Recognise different cognitive learning theories and learn how to incorporate these theories in their research
- 5. Pursue an understanding of cognitive neuroscience and its implication in education
- 6. Analyse how cognitive neuroscience can be a tool to educational research
- 7. Apply metacognitive knowledge and strategies in learning and research
- 8. Critically analyse the thrust areas of researches done in cognitive learning
- 9. Equip with the knowledge of doing research in areas related to cognitive learning

COURSE CONTE NT			
UNIT I	Introduction to Cognitive Learning	9 hours	
	Cognition – Introduction and Perceptual process- memory, imagery, reasoning, reflection, Cognitive development, Cognitive Learning- Definition, benefits of Cognitive Learning, Process of Cognitive Learning, Strategies of Cognitive Learning, Motivated and Self-Regulated learning, Situated Cognition, Embodied Cognition		
UNIT II	Cognitive Learning Theories	15 hours	
	Cognitive Information Processing, Models of Information Processing Theory- Atkinson and Shiffrin Model, Baddeley and Hitch Model, Meaningful Learning and Schema Theory, Interactional theories of Cognitive Development- Vygotsky and Bruner, Social cognitive Theory, Educational Implications		
UNIT III	Cognitive Neuroscience and Education	15 hours	
	Cognitive neuroscience- Definition, Characteristics, basic		

	principles, cognitive foundation of learning theories- whole	
	brain model, Brain Compatible Curriculum and Brain Based	
	Learning Strategies, Bridging gap between brain functioning	
	and learning, Cognitive neuroscience- Implications in	
	Education, Cognitive neuroscience methods as tools in	
	Educational Research	
	Educational Research	
UNIT IV	Metacognition and Learning	11 hours
	Metacognition- Concept, Definition and Types of	
	Metacognition- Metacognitive Knowledge and Regulation,	
	Metacognitive Process, Theories of metacognition-	
	Characteristics, Types of Theories, models of	
	metacognition, Metacognitive strategies in Learning	
	metaeogmiton, nietaeogmitive strategies in Bearining	
UNIT V	Cognitive Research	10 hours
	Meaning and importance of cognitive Research, Cognitive	
	Research Trust, Thrust areas of Cognitive Research-	
	Interdisciplinary research field like Mind, Brain and	
	Education, Educational neuroscience, Neuro- education,	
	Recent Trends in Cognitive Research	
UNIT VI	Cognitive Learning Technology	8 hours
	Cognitive Learning Technology- concept, Use of technology	,
	in Cognitive Learning, Impact of Digital Technology in	
	Cognitive Learning, Cognitive tools, Different types of	
	Cognitive Tools, Use of cognitive tools in Research.	
Internal Assessm	nent	l
ESE**	Written Examination of Complete	
	Course - 100 Marks	
Mode of transact		
Lecture group disc	russion seminar workshon	

Lecture, group discussion, seminar, workshop

#### ASSIGNMENT

- 1. Analyze how the models of Cognitive Information Processing can be integrated in our teaching learning process
- 2. Identify some metacognitive Strategies that can be effectively used in our classroom teaching
- 3. Write review of five Cognitive Research articles in Education
- 4. Identify some research areas in Cognitive Research

#### SUGGESTED READINGS

#### REFERENCES

Bermudez, Jose Luis(2020). Cognitive Science: An introduction to the Science of the Mind(Third edition). UK: Cambridge University Press

Collins, Stella(2019). Neuroscience for learning and Development: How to Apply Neuroscience and Psychology for Improved Learning and Training (2<sup>nd</sup> edition). US: Kogan Page

Driscoll, M. (2005). Psychology of Learning for Instruction, 3rd Edition. New York: Allyn & Bacon.

Dunlosky, John & Rawson, Rawson Katherin, A.(2019). The Cambridge Handbook of Cognition and Education(Cambridge Handbooks in Psychology). UK: Cambridge University Press

Goswami, Usha(2007). Cognitive Development: The Learning Brain. Psychology Press.

Hulse, S. H., Egeth, H., & Deese, J. (1987). The psychology of learning. (5th Ed.). Boston: McGraw Hill

Hunter, Ella (2016). Current Research in Cognitive Learning and Education. Wilford Press.

Kirshner, David & Whitson, James A.(1997). Situated Cognition: Social, Semiotic and

Psychological Perspectives. New Jersey. Lawrence Erlbaum Associates, Publishers.

Marescha, Denis; Butterworth, Brian & Tolmie, Andy (2013). Educational Neuroscience. Wiley Blackwell.

Matlin, Margaret W.(2009). Cognition(7<sup>th</sup> edition). Wiley.

Murphy, Robin A. & Honey, Robert C.(2016). The Wiely Handbook on the Cognitive Neuroscience of Learning. Wiley Blackwell.

Roger H. Bruning. Gregory J. Schraw, Monica M. Norby, Royce R. Ronning (2003). Cognitive Psychology and Instruction (4<sup>th</sup> Edition). Prentice Hall.

Silverman, Gordon & Friedenberg, Jay (2006). Cognitive Science: A Introduction to the Study of Mind: USA. Sage Publications Ltd.

#### COURSE TITLE: TRENDS IN ENTREPRENEURSHIP EDUCATION

Teaching Scheme	Examination Scheme	Credits Allotted
Theory: : 4 hours/week	EoSE: 100 Marks	Theory: 04
Tutorial:0 hours/week		Tutorial: 0

#### **Prerequisite**

• Any post graduate student who enrolled in the Ph.D. (Education) programme can study this Course. Students presuppose familiarity with basics of education and teaching learning process.

**Learning Outcomes:** After completion of this course the researcher will be able to:

After completion of this course the researcher will be able to:

- critical understanding on various perspectives of entrepreneurship in education and get sensitisation for doing research in this filed.
- inculcate critically evaluation of the role of researchers in the field of entrepreneurship in education.
- appreciate the challenges and future perspectives related to entrepreneurship in education.
- orient about entrepreneurship in education and also about the short coming related with the contemporary concerns of education policy and practices.
- identify new & suitable research areas of field of entrepreneurship in education.

#### Course Outcomes The scholars would be acquainted;

- 1. to explain perspectives of entrepreneurship education.
- 2. to understand the pedagogical concerns of entrepreneurship education.
- 3. to appreciate of the role of researchers in the field of entrepreneurship education.
- 4. to analysis the challenges and future perspectives related to entrepreneurship & entrepreneurial education.
- 5. to appreciate educational entrepreneurship ethics, issues & challenges in entrepreneurship, researches in entrepreneurship education.
- 6. to familiarize about entrepreneurship in education, entrepreneurial pedagogy, and also about the short coming related with the contemporary concerns of education policy and practices.
- 7. to find out a new & suitable research areas of field of entrepreneurship education.

UNIT I	Introduction to Entrepreneurship	08Hours
	Introduction to Entrepreneurship, Characteristics, Qualities and Pre     requisites of entrepreneur, Roles of Successful Entrepreneurs, Significance of Entrepreneurship, Economic, Social and psychological needs	

Entrepreneurs are born or made, Multidisciplinary approach to entrepreneurship, the foundations of entrepreneurship as a scholarly field, Needs, significance & scope of entrepreneurship as a scholarly field, Needs, significance & scope of entrepreneurship education, Enterprises Education, Issues, Challenges and future perspectives of entrepreneurship education in India.  UNIT III  Educational Entrepreneurship & Pedagogy  • Educational entrepreneurship, Educational entrepreneurs, Educational entrepreneurship Opportunities & Ideas, Entrepreneurial Pedagogy, Pedagogical entrepreneurship in teacher education, Researches in Pedagogical entrepreneurship, Educational entrepreneurship Opportunities & Ideas, Entrepreneurs, Educational entrepreneurship Opportunities & Ideas, Entrepreneurship Pedagogy, Pedagogical entrepreneurship in teacher education, Researches in Pedagogical entrepreneurship in teacher education, Researches in Pedagogical entrepreneurship in teacher education, Researches in Pedagogical entrepreneurship.  Ethics, Issues & Challenges in Entrepreneurship  UNIT V  • Role of various institutions in developing entrepreneurship, Ethics in entrepreneurship, Issues & Challenges to entrepreneurship as a career option, Entrepreneurial Planning, Basics of Business Plan Development, Resource Mobilization, Methods and procedures to start and expand one's own business.  UNIT VI  Researches in Entrepreneurship Education  • Factors affecting success of a new Enterprises, Reasons for the failure and visible problems for Enterprises, Role of Supportive System for Entrepreneurship like CED, EDC, TBI, SIDBI, etc., Basics of Business		entrepreneurship, Entrepreneurship Process, Types of Entrepreneurship.	
entrepreneurship, the foundations of entrepreneurship as a scholarly field, Needs, significance & scope of entrepreneurship education, Enterprises Education, Issues, Challenges and future perspectives of entrepreneurship education in India.  UNIT III	IT II H	Basics of Entrepreneurship Education	08 Hours
Educational entrepreneurship, Educational entrepreneurs, Educational entrepreneurship Opportunities & Ideas, Entrepreneurial Pedagogy, Pedagogical entrepreneurship in teacher education, Researches in Pedagogical entrepreneurship.  UNIT IV  Educational Entrepreneurship & Pedagogy  • Educational entrepreneurship, Educational entrepreneurs, Educational entrepreneurship Opportunities & Ideas, Entrepreneurial Pedagogy, Pedagogical entrepreneurship in teacher education, Researches in Pedagogical entrepreneurship.  Ethics, Issues & Challenges in Entrepreneurship  UNIT V  • Role of various institutions in developing entrepreneurship in India, National policies for skill development & entrepreneurship, Ethics in entrepreneurship, Issues & Challenges to entrepreneurship as a career option, Entrepreneurial Planning, Basics of Business Plan Development, Resource Mobilization, Methods and procedures to start and expand one's own business.  UNIT VI  Researches in Entrepreneurship Education  • Factors affecting success of a new Enterprises, Reasons for the failure and visible problems for Enterprises, Role of Supportive System for Entrepreneurship like CED, EDC, TBI, SIDBI, etc., Basics of Business		entrepreneurship, the foundations of entrepreneurship as a scholarly field, Needs, significance & scope of entrepreneurship education, Enterprises Education, Issues, Challenges and future perspectives of entrepreneurship	
entrepreneurship Opportunities & Ideas, Entrepreneurial Pedagogy, Pedagogical entrepreneurship in teacher education, Researches in Pedagogical entrepreneurship.  UNIT IV  Educational Entrepreneurship & Pedagogy  • Educational entrepreneurship, Educational entrepreneurs, Educational entrepreneurship Opportunities & Ideas, Entrepreneurial Pedagogy, Pedagogical entrepreneurship in teacher education, Researches in Pedagogical entrepreneurship.  Ethics, Issues & Challenges in Entrepreneurship  • Role of various institutions in developing entrepreneurship in India, National policies for skill development & entrepreneurship, Ethics in entrepreneurship, Issues & Challenges to entrepreneurship as a career option, Entrepreneurial Planning, Basics of Business Plan Development, Resource Mobilization, Methods and procedures to start and expand one's own business.  UNIT VI  Researches in Entrepreneurship Education  • Factors affecting success of a new Enterprises, Reasons for the failure and visible problems for Enterprises, Role of Supportive System for Entrepreneurship like CED, EDC, TBI, SIDBI, etc., Basics of Business	IT III I	Educational Entrepreneurship & Pedagogy	10 Hours
Educational entrepreneurship, Educational entrepreneurs, Educational entrepreneurship Opportunities & Ideas, Entrepreneurial Pedagogy, Pedagogical entrepreneurship in teacher education, Researches in Pedagogical entrepreneurship.  Ethics, Issues & Challenges in Entrepreneurship  • Role of various institutions in developing entrepreneurship in India, National policies for skill development & entrepreneurship, Ethics in entrepreneurship, Issues & Challenges to entrepreneurship as a career option, Entrepreneurial Planning, Basics of Business Plan Development, Resource Mobilization, Methods and procedures to start and expand one's own business.  UNIT VI  Researches in Entrepreneurship Education  • Factors affecting success of a new Enterprises, Reasons for the failure and visible problems for Enterprises, Role of Supportive System for Entrepreneurship like CED, EDC, TBI, SIDBI, etc., Basics of Business	•	entrepreneurship Opportunities & Ideas, Entrepreneurial Pedagogy, Pedagogical entrepreneurship in teacher education, Researches in	
entrepreneurship Opportunities & Ideas, Entrepreneurial Pedagogy, Pedagogical entrepreneurship in teacher education, Researches in Pedagogical entrepreneurship.  Ethics, Issues & Challenges in Entrepreneurship  • Role of various institutions in developing entrepreneurship in India, National policies for skill development & entrepreneurship, Ethics in entrepreneurship, Issues & Challenges to entrepreneurship as a career option, Entrepreneurial Planning, Basics of Business Plan Development, Resource Mobilization, Methods and procedures to start and expand one's own business.  UNIT VI  Researches in Entrepreneurship Education  • Factors affecting success of a new Enterprises, Reasons for the failure and visible problems for Enterprises, Role of Supportive System for Entrepreneurship like CED, EDC, TBI, SIDBI, etc., Basics of Business	IT IV I	Educational Entrepreneurship & Pedagogy	10 Hours
UNIT V  • Role of various institutions in developing entrepreneurship in India, National policies for skill development & entrepreneurship, Ethics in entrepreneurship, Issues & Challenges to entrepreneurship as a career option, Entrepreneurial Planning, Basics of Business Plan Development, Resource Mobilization, Methods and procedures to start and expand one's own business.  UNIT VI  Researches in Entrepreneurship Education  • Factors affecting success of a new Enterprises, Reasons for the failure and visible problems for Enterprises, Role of Supportive System for Entrepreneurship like CED, EDC, TBI, SIDBI, etc., Basics of Business		entrepreneurship Opportunities & Ideas, Entrepreneurial Pedagogy, Pedagogical entrepreneurship in teacher education, Researches in	
National policies for skill development & entrepreneurship, Ethics in entrepreneurship, Issues & Challenges to entrepreneurship as a career option, Entrepreneurial Planning, Basics of Business Plan Development, Resource Mobilization, Methods and procedures to start and expand one's own business.  UNIT VI  Researches in Entrepreneurship Education  1:  • Factors affecting success of a new Enterprises, Reasons for the failure and visible problems for Enterprises, Role of Supportive System for Entrepreneurship like CED, EDC, TBI, SIDBI, etc., Basics of Business	I	Ethics, Issues & Challenges in Entrepreneurship	12Hours
• Factors affecting success of a new Enterprises, Reasons for the failure and visible problems for Enterprises, Role of Supportive System for Entrepreneurship like CED, EDC, TBI, SIDBI, etc., Basics of Business	IT V	National policies for skill development & entrepreneurship, Ethics in entrepreneurship, Issues & Challenges to entrepreneurship as a career option, Entrepreneurial Planning, Basics of Business Plan Development, Resource Mobilization, Methods and procedures to start and expand	
visible problems for Enterprises, Role of Supportive System for Entrepreneurship like CED, EDC, TBI, SIDBI, etc., Basics of Business	IT VI	Researches in Entrepreneurship Education	12Hours
schools, Emerging trends of researches in the field of entrepreneurship education.		visible problems for Enterprises, Role of Supportive System for Entrepreneurship like CED, EDC, TBI, SIDBI, etc., Basics of Business Plan Development, the failure and success of entrepreneurship education in schools, Emerging trends of researches in the field of entrepreneurship	
ASSESSMENT	ESSMENT		
Written Examination of Complete Course - 100 Marks	E**	•	

Learning by Expositions, presentations, projects, seminars, collaborative & cooperative strategies, critical pedagogy, field visits, paraphrasing, reflection and brainstorming session on educational studies related concepts, presentations by students, dialogue and open discussion, and blended learning approach, project work.

#### ASSIGNMENT

- Group discussions, debates and dialogue on the emerging trends & related themes in education.
- Individual and group presentations & open discussion on education related concerns.
- Analysing of the documentaries, movies, literature and texts from the
  perspective of educational aims, philosophical, sociological and cultural
  concerns and to prepare presentations and reports.
- Comparative study of curriculum and practices of education in different

countries of the world. ·

- Case study of any educational entrepreneurs/ educational entrepreneurship/ social entrepreneurship related concerns.
- Writing reflective papers, assignments and project work on the emerging trends in education.

#### SUGGESTED READINGS

- **Bornstein, David & Davis, Susan (2010).** Social Entrepreneurship: What Everyone Needs to Know, New York: Oxford University Press.
- Catherall, Richard & Richardson Mark (2017). Social entrepreneurship in education, Manchester: Britsh Council.
- Chakrabarti, Mohit (2005). Education in the 21st Century, Delhi, Kalpar publication.
- **Delmar, F., & Shane, S. (2003).** Does Business Planning Facilitate the Development of New Ventures? Strategic Management Journal, 24(12): 1165-1185.
- Frese, M., & Gielnik, M. 2014. The Psychology of Entrepreneurship. Annual Review of Organizational Psychology and Organizational Behavior, 1: 413-438.
- **Hisrich, Robert D., Peters, Michael P. and Shepherd, Dean A.** (2018). Entrepreneurship, New York: McGraw Hill Education.
- **Kirzner, I.M.** (1973) Competition and entrepreneurship. Chicago, Ill.: The University of Chicago Press.
- Lackeus, Martin (2015). Entrepreneurship in Education, What, Why, When & How, European Commission, LEED (Local Economic and Employment Development), Paris: OECD.
- Neck, Heidi M.; Greene, Patricia G.; Brush, Candida G. (2014). Teaching Entrepreneurship: A Practice-Based Approach, Cheltenham: Edward Elgar Publishing Ltd.
- Raj Shankar (2012). Entrepreneurship Theory & Practice, Noida: McGraw Hill Education.
- **Schumpeter**, **J.A.** (1934). The theory of economic development. An inquiry into profits, capital, credit, interest, and the business cycle. New Brunswick: Transaction Publishers
- Short, J.C., Ketchen, D. J., Shook, C.L., & Ireland, R. D. (2010. The concept of "opportunity" in entrepreneurship research: Past accomplishments and future challenges. *Journal of Management*, 36: 40-65.

#### **WEB-LINKS:**

- <u>https://www.taxmann.com/post/blog/entrepreneurship-concept-functions-need-and-its-relevance-in-indian-society</u>
- https://pdfs.semanticscholar.org/6575/6ce7c178cd410059de1da839ef0687ac3a6a.pdf
- http://sim.edu.in/wp-content/uploads/2018/11/Entrepreneurship.pdf
- <a href="https://cbseacademic.nic.in/web\_material/Curriculum20/publication/srsec/Entrepreneurial\_Skills\_XII.pdf">https://cbseacademic.nic.in/web\_material/Curriculum20/publication/srsec/Entrepreneurial\_Skills\_XII.pdf</a>
- <a href="https://www.oecd.org/cfe/leed/BGP">https://www.oecd.org/cfe/leed/BGP</a> Entrepreneurship-in-Education.pdf
- <a href="https://www.researchgate.net/publication/327906269">https://www.researchgate.net/publication/327906269</a> Entrepreneurship Education in Ind <a href="mailto:ia-Scope">ia-Scope</a> challenges and Role of B-schools in Promoting Entrepreneurship Education/link/5bb08a1345851574f7f15c7d/do

- wnload
- <a href="https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.1045.7375&rep=rep1&type=pdf">https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.1045.7375&rep=rep1&type=pdf</a>
- <a href="http://www.social-capital.net/docs/What\_is\_Educational\_Entrepreneurship.pdf">http://www.social-capital.net/docs/What\_is\_Educational\_Entrepreneurship.pdf</a>
- http://www.spijebhu.in/SPIJ-Jan15%2021-35.pdf
- <u>https://www.profweb.ca/en/publications/featured-reports/entrepreneurial-pedagogy-an-approach-for-the-development-of-transversal-competencies</u>
- <a href="https://www.researchgate.net/publication/303314591">https://www.researchgate.net/publication/303314591</a> Expanding the Focus of Entrepreneurship Education A Pedagogy for Teaching the Entrepreneurial Method/link/5ca14f 7c92851cf0aea56805/download
- <a href="https://www.effectuation.org/wp-content/uploads/2017/06/Ethics-and-entrepreneurship-%E2%98%86.pdf">https://www.effectuation.org/wp-content/uploads/2017/06/Ethics-and-entrepreneurship-%E2%98%86.pdf</a>
- https://old.amu.ac.in/emp/studym/100009696.pdf
- https://www.learncbse.in/entrepreneurial-planning-cbse-notes-class-12-entrepreneurship/
- https://studyresearch.in/2022/02/26/unit2entclassxii/
- <u>https://www.eajournals.org/wp-content/uploads/Factors-Affecting-the-Performance-Business-Success-of-Small-Medium-Enterprises-in-Sudan.pdf</u>
- <a href="http://gecnilokheri.ac.in/GPContent/BIE%20unit%204.pdf">http://gecnilokheri.ac.in/GPContent/BIE%20unit%204.pdf</a>
- <u>https://www.gemconsortium.org/news/the-failure-of-entrepreneurship-education-in-schools</u>
- https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.511.1631&rep=rep1&type=pdf

#### **Periodicals**

- International journal of entrepreneurship Education
- Entrepreneurship Education
- Journal of Entrepreneurship Education
- Journal of Entrepreneurship in Emerging Economies
- Journal of Arts Entrepreneurship Education
- Journal of Entrepreneurship
- Journal of Innovation and Entrepreneurship

#### COURSE TITLE: INCLUSIVE EDUCATION

<b>Teaching Scheme</b>	Examination Scheme	Credits Allotted
Theory: : 3 hours/week	ESE: 100 Marks	Theory:03
Tutorial: 1hours/week		Tutorial:01
		Total:04

#### **Prerequisite**

Any post graduate student who enrolled in the Ph.D. (Education) programme can study this Course.

#### **Learning Outcomes**

- 1. UnderstandInclusive,IntegratedandSpecialEducationanddifferentper spectives of inclusive education
- 2. Know about the key legislations and policies for inclusive education
- 3. Know the need for Inclusive Education and its practice in Higher Education
- 4. Understand diverse learner's needs and challenges related to diverse learners
- 5. Understand the inclusive instructional design and collaborative instruction to promote inclusion

#### **Course Outcomes**

- 1. To develop understanding on the history of inclusive education
- 2. To acquaint knowledge to Compare integration, special education and inclusive education
- 3. To develop a conceptual understanding on the social model of disability
- 4. To conduct research related to Socio-Economically disadvantaged groups
- 5. To implement Individual Educational Plan

UNIT I	Overview of Inclusion for Diverse Learners	08 Hours
	<ul> <li>a) Inclusive Education for 21<sup>st</sup> century, Fundamental concepts of inclusive education, Inclusion a worldwide movement.</li> <li>b) Understanding diversities; concept, types and disability as a dimension of diversity</li> <li>c) Philosophy of Inclusion with special reference to children with disabilities</li> <li>d) Traditional Approach vs Inclusive Approach.</li> </ul>	
UNIT II	Classification of Disability	12 Hours
	a) Classification of disability: Sensory impairment,	
	cognitive disabilities, Physical disabilities	
	b) Disability as a social construct, disabilities and its	
	educational implications	
	c) Inclusion related to SEDGs categorized based on gender	
	identities, socio-cultural identities, geographical	

	identities and socio-economic conditions.	
UNIT III	Curriculum and Instruction	9 Hours
	<ul> <li>a) Curriculum: Individualized educational plan, Universal design for teaching learning process</li> <li>b) The era of integrated setting-special classes, the era of inclusive setting –regular classes. Role of Teachers (both regular and special), Role of school Administration.</li> <li>c) Instruction: Concept, Design and instructional media.</li> <li>d) Developing Instructional Plans for diverse learners, Planning for Inclusive Teaching and modification of curriculum including assessments</li> <li>e) Utilization of records/ case profiles for identification, assessment, and intervention for inclusive classrooms.</li> <li>f) Physical education and Co-curricular activities</li> </ul>	
UNIT III	Teaching Strategies and Approaches	10 Hours
	<ul> <li>a) Pedagogical strategies: cooperative learning, reflective teaching, Peer mediated instructions.</li> <li>b) Multisensory and multidisciplinary approaches, Full Inclusion approach, partial inclusion approach, Individualized to small group/ large group Approaches.</li> <li>c) Three dimensional model of Inclusive Education.</li> <li>d) Universal design in physical environment</li> <li>e) Learning styles in Inclusive classrooms</li> <li>f) Reasonable accommodations</li> <li>Instructional adaptations</li> </ul>	
UNIT IV	Paradigm and Policy perspectives	10 Hours
	<ul> <li>a) Historical perspective and contemporary trends in Indian and Global scenario</li> <li>b) Succession from segregation, integration and inclusion</li> <li>c) Constitutional provisions: PwD Act (1995), RPWD Act 2016, RTE (2006), NPE of Students with Disabilities (1986), and NPE (2006), NEP 2020.</li> <li>d) Salamanca Statement (1994) and UNCRPD (2006), IEDSS (2000).</li> <li>e) Special role of Organizations for education of Children with Disabilities: RCI (2000), National Institutes of different disabilities (India), Composite Regional Centers (CRCs), District Disability Rehabilitation Centers (DDRCs), National Trust (1999) and Voluntary NGOs.</li> </ul>	
UNIT V	Classroom Challenges and Barriers in Achieving Inclusion	10 Hours

- a. Access, Enrolment, participation and learning achievements
- b. Establishment of inclusive schools, teacher preparation programmes (Human Resource)
- c. Providing infrastructure facilities, development of instructional materials –
   Quality of Schooling
- d. Factors determining school effectiveness
- e. Community mobilization and participation
- f. Positive Behavior for Inclusion Developing Action Plan.
- g. Resource centers in conjunction with special educators for CWSN or Divyang

#### Mode of transaction

The content will be transacted through Interactive lectures, Activities, Web lectures, Assignments, Discussions, Seminars and Field visits.

ASSESSMENT		
ESE**	Written Examination of Complete Course - 100 Marks	

#### **ASSIGNMENT**

- 1. Assignment on Inclusive Classrooms
- 2. Survey on the availability of Inclusive settings in Main stream setting
- 3. Identify and prepare a report based on discriminatory practices followed in school.
- 4. Write an analytical review on educational policies and Implementation of NEP2020 with regard to Inclusive Education
- 5. Case study on any one disability

#### SUGGESTED READINGS

- Agarwal, R& Rao, BVLN. (2010). Learning disabilities teaching learning Strategies. Shipra Publications, New Delhi.
- Ainscow, M. (1999) Understanding the Development of Inclusive Schools, London: FalmerPress
- Ainscow, M. and Booth, T (2002) Index for Inclusion: Developing Learning and Participation in Schools. Bristol: CSIE.38
- Ainscow, M., Dyson, A. and Booth, T. (2006) Improving Schools, Developing Inclusion, London:Routledge.
- Booth, T., Nes,K., Stromstab, M. (2003) Developing Inclusive Teacher Education, London: Routledge Falmer.
- ChintamaniKar (2003): Exceptional Children. Their Psychology and Education Sterling
- Clough, P. and Corbet, J. (2002) Theories of Inclusive Education A Students' Guide, Paul Chapman Publishing Ltd.
- Cohen, L Manion, L and Morrison, K (2000) Research Methods in Education London:
- Deshprabhu, S. (2013) Early Childhood Special Education. Kanishka Publishers, Distributors, New Delhi.
- Dhawan.M.L. (2005).Learners with Special Needs. Mehta offset press, New Delhi.

- Julie Alan, (2010). The sociology of disability and the struggle for inclusive education. British Journal of Sociology of Education, Vol. 31, No. 5, The Sociology of Disability And Education, pp. 603-619
- Leslie C. Soodak (2003). Classroom Management in Inclusive Settings. Theory into Practice Vol. 42, No. 4, Classroom Management in a Diverse Society, pp. 327-333
- Mishra and Ruchika Gupta (2006). Disability Index: A Measure of Deprivation among Disabled. Economic and Political Weekly.Vol. 41, No. 38, pp. 4026-4029
- Nidhi Singal, (2006). An ecosystemic approach for understanding inclusive education: An Indian case study. European Journal of Psychology of Education. Vol. 21, No. 3, pp. 239-252
- Paul Chapman Publishing Collard, J and Reynolds, C (eds) (2005) Leadership, Gender and Culture in Education, Maidenhead: Open University Press
- Publishers.
- Rebecca Bond and Elizabeth Castagnera, (2006). Peer Supports and Inclusive Education: An Underutilized Resource. Theory into Practice. Vol. 45, No. 3, Inclusive Schooling Practices: From Why to How, pp. 224-229
- Roger Slee (1998).Inclusive Education? This Must Signify 'New Times' in Educational Research British Journal of Educational Studies Vol. 46, No. 4, pp. 440-454
- Routledge Coleman, M and Briggs, A (2002) Research Methods in Educational Leadership and Management, London.
- Srikala Naraian, (2013). Disability, Agency, and Context: A Differential Consciousness for Doing Inclusive Education. Curriculum Inquiry, Vol. 43, No. 3, pp. 360-387

COURSE TITLE: GENDER IN EDUCATION

Teaching Scheme	Examination Scheme	Credits Allotted
Theory: : 3 hours/week	ESE: 100 Marks	Theory: 03
Tutorial: 1 hour/week		Tutorial:01
		Total: 04

#### **Learning Outcomes**

The students will be able to:

- 1. Clarify the concept of gender and LGBTQ.
- 2. Critically compare different waves of feminisms in India and Abroad.
- 3. Analysed the process of gender construction through various agencies of socialization.
- 4. Identify the gender issues in educational setup in relation to socio-cultural contexts.
- 5. Aware themselves about the different remedies to address the issues of gender inequality in education.
- 6. Critically analyse policies and programmes for their gendered basis and outcomes.
- 7. Critically examine the status of women in higher education and related occupation.
- 8. Train themselves and other for gender sensitization and gender sensitivity at educational institute and workplace.
- 9. Apply feminist epistemology and build the capacity of researcher to use feminist method of research and analysis.

#### **Course Outcomes**

After completion of the course, students will be able to:

- 1. Understand the concept of gender, LGBTQ, and various gender-related notions prevail in society.
- 2. Comparatively analysed different waves of feminism in India and abroad.
- 3. Investigate the socialization process for framing gender identities and gender roles through various formal and informal agencies.
- 4. Analysed the gender based discriminatory practices in education in relation to class, caste, religion, and region.
- 5. Identify and address the gender issues in educational contexts in reference to curriculum, pedagogical practices, school and community.
- 6. Review the policies and programme from gender lenses.
- 7. Explore the complex inter-relationship of gender and education and gendering of subjects.
- 8. Create awareness about the gender sensitization and gender sensitivity and their role to create gender equality.
- 9. Use feminist epistemology and feminist approach for research work.

	Course Content	Hours Required
UNIT I	Understanding of Gender	15 hours
	Basic concepts of gender, sex and LGBTQ; Sex-Gender	
	difference as a new Feminist discourse, Feminism- Basic	
	Ideas, Waves of feminism and its implications, Different	
	phases of feminism in India, Comparative and critical	
	analysis of different waves of feminisms in India and	

	abroad. Femininity and Masculinity, Gender Hierarchy and Masculinity in Indian context, Patriarchy- Concept, Origin and its bases, Gender bias and Gender Parity.	
UNIT II	Social construction of Gender	10 Hour
	Socialization as process of learning of gender roles in cross-cultural perspectives, Theories Socialization: Sexrole theory, Cognitive development theory, Social Constructivist Perspective, Construction of Gender Identities and gender roles through various agencies: Family, Schools, Other formal and informal organization, Contribution of mass media in the process of gendering. Gender inequality in Indian society.	
UNIT III	Gender and Education: challenges and solutions	15 hours
	Analysis of background of Women's Education in India. Gender gap in education- global and Indian context. Critical analysis of equity and equality Issues of girls education in India: access, retention and exclusion of girls in education in relation to caste, tribe, religion and region. Issues of Gender Inequality in Curriculum and School: Structure of knowledge; Pedagogical practices, curriculum and text books development, Gender and the hidden curriculum. Constitutional provisions and policies for promoting girls' education, Role of media and Teachers as agents of change.	
UNIT IV	Gender gap in higher education and Vocation	10 Hours
	Status of Women in higher and vocational education. Gender role in the subject and career choice. Recent Trends in Women's Education, Women teacher training-committees and Commissions on Education, Critically examine on status of women in STEM education and related Vocations. Glass ceiling at educational institutes and workplace, Training for Gender sensitization and sensitivity at higher institutes and work place and its role to bring gender equality	
UNIT V	Feminist Epistemology and approaches to Research	10
	Androcentrism, Critique for positivism, Feminist Empiricism and Standpoint Epistemology: Double Consciousness, Strong Objectivity. Feminist Pedagogy. Feminist Approaches to Research Methodology: Feminist In-Depth Interviewing, Feminist Practice of Content Analysis, Feminist Practice of Oral History, Feminist Practice of Ethnography, Feminist Survey Research.	Hours

ASSESSMENT

ESE\*\* Written Examination of Complete
Course - 100 Marks

documentaries, movies, advertisements, literature, various articles, texts.

#### ASSIGNMENTS

- 6. Analysed and prepare a report on the documentaries, movies, advertisements or video clips for the portrayal of masculinity and femininity.
- 7. Write a reflective paper on learning of gender roles in school and through peer groups.
- 8. Community survey on families of their locality for sexual division of labour and resources.
- 9. Identify and prepare a report on the gender based discriminatory practices followed in school.
- 10. Write an analytical review on educational policies through gender perspectives.
- 11. Analysis of textbook/s of any educational board from the perspective of gender bias and stereotypes.
- 12. Critically analysed gender gap in various educational data (ASER Report, MHRD report, Educational statistics at a glance by MHRD etc).

#### SUGGESTED READINGS

- 1. Bhasin, K. (2000). *Understanding Gender*. New Delhi: Kali for Women.
- 2. Bhasin, K.(2004). *Exploring Masculinity*. New Delhi: Women Unlimited.
- 3. Bhasin, K. (2009). What is patriarchy. New Delhi: Women Unlimited
- 4. Chanana, K. (ed.). (1988). *Socialization, Education and Women: Explorations in Gender Identity*. New Delhi: Orient Longman.
- 5. Friedan, B.(1963). The Feminine Mystique. New York: Nortan.
- 6. Govinda, R. (2002). *India Education Report: A Profile of Basic Education*. New Delhi: Oxford University Press.
- 7. Harding, S. (1991). Whose Science? Whose Knowledge? Ithaca, NY: Cornell University Press.
- 8. Oakley A. (2015) *Sex, Gender and Society,* Ashgate publishing limited, England wey court east
- 9. Kushwaha, M. (2014). Gender and Education. Varanasi: Gangasaran & Grand Sons.
- 10. Menon, N. (2012). Seeing like a feminist. India: Penguin
- 11. NCERT (2006). 3.2 *Position paper, National Focus Group on Gender Issues in Education.* New Delhi: NCERT.
- 12. Ramachandran, V. (2004). *Gender and Social Equity in Education: Hierarchies of Access*. New Delhi: Sage Publications.

**COURSE TITLE: Curriculum Development** 

<b>Teaching Scheme</b>	Examination Scheme	Credits Allotted
Theory: : 3 hours/week	ESE: 100 Marks	Theory:03
Tutorial: 1 hours/week		Tutorial:01
		Total:04

#### **Course Outcomes**

- 1. Comprehend the process of curriculum development
- 2. Develop insights into models of curriculum development
- 3. Develop the ability for evaluating the curriculum
- 4. Probe into the research in curriculum.
- 5. Formulating principles of Curriculum organization

UNIT I	Designing and planning curriculums	Hours Required		
	<ul> <li>Sources and Formulation are the two curriculum objectives.</li> <li>A Framework for Curriculum Planning: Needs and Relevance.</li> <li>Brief overview of Curriculum Planning Frameworks in India with reference to NCFSE-2000, NCF-2005, and NCFTE 2009.</li> <li>Learning approaches that are student-centred, learner-centred, and community-centred.</li> <li>Developing curriculum in accordance with curriculum principles.</li> </ul>	10 Hours		
UNIT II	Curriculum Development Trends in the Current Era			
	<ul> <li>Developing curriculum and autonomy.</li> <li>The institutionalization of the curriculum development process.</li> <li>Inclusion Curriculum in the Curriculum for Excellence.</li> <li>The Curriculum for International and Multicultural Education.</li> <li>Development of e-learning programs and curriculums.</li> </ul>			
UNIT III	Process of curriculum designing	12 Hours		
	<ul> <li>Curriculum approaches, patterns, and approaches.</li> <li>Developing a curriculum - subject-oriented</li> <li>Core curriculum, curriculum for the broad field of education, curriculum for the learners, humanistic curriculum, and radical curriculum.</li> <li>Reflecting on the cognitive and affective domains of curriculum design.</li> </ul>			

	<ul> <li>Curriculum and learning experiences selection and</li> </ul>	
	organization	
	Principles of Curriculum organization	
UNIT IV	Curriculum evaluation and research	12 Hours
	<ul> <li>Approaches to curriculum evaluation.</li> </ul>	
	A comprehensive view on models of curriculum	
	evaluation - Quantitative models and Qualitative	
	models (Eisner's)	
	<ul> <li>Understanding the scope of curriculum research.</li> </ul>	
	Areas of curriculum research	
	Types of research in the curriculum	
UNIT V	Assessment of curriculum	6 Hours
CIVIII	Curriculum Evaluation: Concept and Purpose	o Hours
	<ul> <li>Types: Formative and Summative</li> </ul>	
	Norm-referenced and Criterion-referenced.	
	<ul> <li>Continuous Comprehensive Evaluation</li> </ul>	
UNIT VI	Evaluation of curriculum	8 Hours
CIVII VI	Transparency and Objectivity in Evaluation	o Hours
	Techniques of Curriculum Assessment and	
	Evaluation	
	Portfolios	
	Rubrics	
	• Self-Assessment	
	Peer Assessment	
	• Content analysis	
	Content untry on	
Assessment		1
ESE**	Written Examination of Complete	
	Course - 100 Marks	
7.5 7 0		
Mode of transact		
-	ons, lectures cum demonstrations, panel discussions, surveys, crit	ical reviews,
	presentations, and seminars.	
ASSIGNMENT	A Framework for Curriculum Planning, Needs and	
	Relevance.	
	Development of e-learning programs and curriculums.	
	The Curriculum for International and Multicultural	
	Education.	
SUGGESTED RE		
	004): Key Concepts for understanding Curriculum, Routledge Fu	ıller,London
Denial Tanner, La	awel N.Tannor (1975): Curriculum Development Theory into Pra	actice, Mac
Milan publishing	Co.Inc. New York.	
Lawell Keith, Pauschool.	al Blare, Sidney Tied (1968): Contemporary curriculum in the ele	ementary
	and Hunkins Francis (1993): Curriculum Foundations, Principles	s and Issues,
Allyn & Bacon, B	Boston.	
	evis Arthur J., Alexander Millian, M. (1981): Curriculum Plannin	g for better
future teaching an		
	): Curriculum Development, Theory and Practice, Harcourt Brac	e and World
Inc. New York		

Inc. New York.

COURSE TITLE: EDUCATIONAL TECHNOLOGY AND ICT

Teaching Scheme	Examination Scheme	Credits Allotted
Theory: : 3 hours/week	ESE: 100 Marks	Theory: 03
Tutorial: 1 hour/week		Tutorial:01
		Total: 04

#### **Course Outcomes**

#### After completion of this course, the students will be able to

- 1. understand the concept of Educational Technology and ICT
- 2. understand the need and importance of Educational Technology and ICT
- 3. understand the concept of Instructional Design
- 4. acquire the knowledge of various models for development of instructional design
- 5. acquire practical teaching skills and gain criticalinsight by using effective technology in education
- 6. appreciate recent developments in educational technology and apply them in teaching learning process
- 7. acquaint the students with the challenges and opportunities emerging in integrating new technology in educational process
- 8. apply technology in evaluation and research
- 9. Identify the research trends in the field of Educational Technology and ICT

	Course Content	Hours Required
UNIT I	Concept of Educational Technology and ICT	8 Hours
	Meaning, Concept, Origin, Types, Need and Importance of Educational Technology	
	Meaning, Concept, Origin, Need and Importance of ICT in Education	
UNIT II	Orientation to ICT	8 Hours
	MS Word	
	<ul><li>MS Power Point</li><li>MS Excel</li></ul>	
UNIT III	Concept and Models of Development of Instructional Design	10 hours
	Concept of Instructional Design, Models of Development of Instructional Design:	
	ADDIE Model	
	ASSURE Model Dick and Carey Model	
UNIT IV	Recent Developments in Educational Technology	12 Hours
	Open Education Resources: Meaning, Concept and Applications, Social Learning: Concept and use of social	
	networking sites, blogs, Discussion forums and videoconferencing, Massive Open Online Courses: Concept and applications	
UNIT V	Innovations in Teaching-Learning	10 Hours
	Virtual learning Environment: Learning Management System, Google Classroom and Moodle	

UNIT VI	Application of Educational Technology in Evaluation and Research	12 Hours
	Use of ICT in Evaluation and Research- Computer	
	Assisted Assessment (CAA), E-portfolio,	
	ICT for Research-Online Repositories and Libraries	
Assessment		
ESE**	Written Examination of Complete	
	Course - 100 Marks	
Mode of trans	action	
	Lecture –cum- discussions, Group activities, Workshop	
	sessions, Role Play, assignments, Presentation by students	

### SUGGESTED READINGS

#### SUGGESTED READINGS

- 1. Boni Hamilton, Integrating Technology in the classroom.
- 2. Madan Lal, Essentials of Educational Technology, Anmol Publications.
- 3. Ronghuai Huang, J. Michael Spector, Junfeng Yang, (2019). Educational Technology: A Primer for the 21<sup>st</sup> Centuary. Springer.
- 4. Bates A.W (Tony). Teaching in a Digital Age: Guidelines for designing teaching and learning, Creative Commons Attribution Non Commercial 4.0 International License. ISBN: 978-0-9952692-0-0.
- 5. Amy Van Looy., (2016). Social Media Management Technologies and Strategies for Creating Business Value. *Springer International Publishing AG Switzerland*. ISBN 978-3-319-21989-9.
- 6. Eric, Frick.(2017). Information Technologies Essentials- Basic Foundations for Information Technology Professionals. Amazon Digital Service
- 7. Law, Nancy., Pelgrum, Willem, J. & Plomp, Tjreed (2008). Pedagogy and ICT uses in Schools around the World: Findings from the IEA SITES 2006study (CERC studies in Comparative Education)
- 8. Moursund, David (2005). Introduction to Information and Communication TechnologyNureni, Yekin.(2014). Information Communication Technology(ICT).
- 9. Concept and Application-Self Directed and Collaborative learning Approach.vol 1.Nigeria: Yekuna ICT & Educational Research Publication Centre
  - **10.** Pelgrum, Willem J., Law, Nancy(2003). ICT in education around the world-trends, problems and prospects. UNESCO, International Institute for

## **COURSE WISE PO - CO MAPPING**

This section presents Mapping of Programme Objective with Course Outcomes of PhD Course work

Note: 3= High level mapping, 2= Medium level mapping, 1=Low level mapping

**COURSE TITLE:** Research Methodology in Education

Sr. No.	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3				2	2
CO2	3	2			2	3
CO3	3	2	3		2	3
CO4	3	3	3	3	2	3
CO5	3	3		3	2	3
CO6	3		3		2	3
CO7	3	·	·		2	3
CO8	3				2	3

**COURSE TITLE: Innovative Reflections on Various Pedagogical Aspects** 

Sr. No.	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3				1	
CO2	3	3				
CO3	2	2	3		2	
CO4		2				
CO5		2			2	2
CO6	1	1			1	1

**COURSE TITLE:** Educational Management, Planning and Leadership

Sr. No.	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3					
CO2	3				3	
CO3	3				3	
CO4					3	
CO5	3				3	
CO6					3	
CO7	3					
CO8		3				

**COURSE TITLE:** Cognitive Learning

Sr. No.	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3					
CO2	3					
CO3					3	
CO4	3				3	
CO5	3					
CO6						
CO7		3				
CO8		3				
CO9		3				

**COURSE TITLE:** Trends in Entrepreneurship Education

Sr. No.	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	3			3	
CO2	3			2	3	
CO3	3	3	3	2	3	3
CO4	3	3		3	3	
CO5	3	3			3	
CO6	3	3			3	
CO7	3	3	2	1	3	2

**COURSE TITLE:** Inclusive Education

Sr. No.	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	2			1	
CO2		3				
CO3	3		1			
CO4			3	3	3	3
CO5	1				1	1

**COURSE TITLE:** Gender in Education

Sr. No.	PO1	PO2	PO3	PO4	PO5	PO6
CO1					2	
CO2					3	
CO3					3	
CO4	3					
CO5	2					
CO6					3	
CO7					3	
CO8					3	
CO9		3				

**COURSE TITLE:** Curriculum Development

Sr. No.	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3		3			
CO2	2	3	2	3	3	2
CO3					2	
CO4	3	3	3	3	3	3
CO5		2		3		1

COURSE TITLE: Educational Technology And ICT

Sr. No.	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3					
CO2	3				3	
CO3	3				3	
CO4	3				3	
CO5					3	
CO6	3				3	
CO7						
CO8		3				
CO9		3				





विश्वविद्यालय अनुदान आयोग University Grants Commission

(মানত সন্ধান বিষয়ের দ্বান্ত বাংল প্রস্কার) (Ministry of Ruman Resource Development, Govt. of India)

वहादुरशाह जफर मार्ग, नई दिल्ली-110002 Bahadur Shah Zafar Marg, New Delhi-110002

> Ph :: 011-23236288/23239337 Fax : 011-2323 8858 E-mail : secy.ugc@nic.in

प्रो. रजनीश जैन सचिव Prof. Rajnish Jain

Secretary

D.O.No.F.1-1/2018(Journal/CARE)

December, 2019

# Respected Sir/Madam,

University Grants Commission in its 543<sup>rd</sup> meeting held on 9<sup>th</sup> August, 2019 approved two Credit Courses for awareness about publication ethics and publication misconducts entitled "Research and Publication Ethics (RPE)" to be made compulsory for all Ph.D. students for pre-registration course work (attached as Annexure).

In view of the above, you are requested to ensure that the above two Credit courses may be made compulsory for all Ph.D. students for pre-registration course work undertaken in your University from the forthcoming academic session.

With regards,

Yours sincerely,

(Rajnish Jain)

TO THE VICE-CHANCELLORS OF ALL UNIVERSITIES

#### Course Title:

• Research and Publication Ethics (RPE)-Course for awareness about the publication ethics and publication misconducts.

#### Course Level:

• 2 Credit course (30 hrs.)

# Eligibility:

• M.Phil., Ph.D. students and interested faculty members (It will be made available to post graduate students at later date)

### Fees:

• As per University Rules

# Faculty:

Interdisciplinary Studies

# Qualifications of faculty members of the course:

• Ph.D. in relevant subject areas having more than 10 years' of teaching experience

## About the course

#### Course Code: CPE- RPE

### Overview

This course has total 6 units focusing on basics of philosophy of science and ethics, research integrity, publication ethics. Hands-on-sessions are designed to identify research misconduct and predatory publications. Indexing and citation databases, open access publications, research metrics (citations, h-index, Impact Factor, etc.) and plagiarism tools will be introduced in this course.

# Pedagogy:

Class room teaching, guest lectures, group discussions, and practical sessions.

# Evaluation

 Continuous assessment will be done through tutorials, assignments, quizzes, and group discussions. Weightage will be given for active participation. Final written examination will be conducted at the end of the course.

#### Course structure

• The course comprises of six modules listed in table below. Each module has 4-5 units.

Modules	Unit title	Teaching hours
Theory		
RPE 01	Philosophy and Ethics	4
RPE 02	Scientific Conduct	4
RPE 03	Publication Ethics	7
Practice		
RPE 04	Open Access Publishing	4
RPE 05	Publication Misconduct	4
RPE 06	Databases and Research Metrics	7
	Total	30

## Syllabus in detail

#### THEORY

- RPE 01: PHILOSOPHY AND ETHICS (3 hrs.)
  - 1. Introduction to philosophy: definition, nature and scope, concept, branches
  - 2. Ethics: definition, moral philosophy, nature of moral judgements and reactions
- RPE 02: SCIENTIFICCONDUCT (5hrs.)
  - 1. Ethics with respect to science and research
  - 2. Intellectual honesty and research integrity
  - 3. Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)
  - 4. Redundant publications: duplicate and overlapping publications, salami slicing
  - 5. Selective reporting and misrepresentation of data
- RPE 03: PUBLICATION ETHICS (7 hrs.)
  - 1. Publication ethics: definition, introduction and importance
  - 2. Best practices / standards setting initiatives and guidelines: COPE, WAME, etc.
  - 3. Conflicts of interest
  - 4. Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types
  - 5. Violation of publication ethics, authorship and contributorship
  - 6. Identification of publication misconduct, complaints and appeals
  - 7. Predatory publishers and journals

### **PRACTICE**

• RPE 04: OPEN ACCESS PUBLISHING(4 hrs.)

- 1. Open access publications and initiatives
- 2. SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies
- 3. Software tool to identify predatory publications developed by SPPU
- 4. Journal finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

# • RPE 05: PUBLICATION MISCONDUCT (4hrs.)

# A. Group Discussions (2 hrs.)

- 1. Subject specific ethical issues, FFP, authorship
- 2. Conflicts of interest
- 3. Complaints and appeals: examples and fraud from India and abroad

## B. Software tools (2 hrs.)

Use of plagiarism software like Turnitin, Urkund and other open source software tools

# RPE 06: DATABASES AND RESEARCH METRICS (7hrs.)

## A. Databases (4 hrs.)

- 1. Indexing databases
- 2. Citation databases: Web of Science, Scopus, etc.

## B. Research Metrics (3 hrs.)

- 1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
- 2. Metrics: h-index, g index, i10 index, altmetrics

#### References

Bird, A. (2006). Philosophy of Science. Routledge.

MacIntyre, Alasdair (1967) A Short History of Ethics. London.

P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN:978-9387480865

National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition. National Academies Press.

Resnik, D. B. (2011). What is ethics in research & why is it important. National Institute of Environmental Health Sciences, 1–10. Retrieved from <a href="https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm">https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm</a> Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179–179. <a href="https://doi.org/10.1038/489179a">https://doi.org/10.1038/489179a</a>

Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance(2019), ISBN:978-81-939482-1-7. <a href="http://www.insaindia.res.in/pdf/Ethics\_Book.pdf">http://www.insaindia.res.in/pdf/Ethics\_Book.pdf</a>

### Central University of Rajasthan

#### **Implementing NEP 2020**

## New Proposed Framework for PhD Coursework

#### **Extract from NEP 2020**

https://www.education.gov.in/sites/upload\_files/mhrd/files/NEP\_Final\_English\_0.pdf

"15.9. All fresh PhD entrants, irrespective of discipline, will be required to take credit-based courses in teaching/education/pedagogy/writing related to their chosen PhD subject during their doctoral training period. Exposure to pedagogical practices, designing curriculum, credible evaluation systems, communication, and so on will be ensured since many research scholars will go on to become faculty or public representatives/communicators of their chosen disciplines. PhD students will also have a minimum number of hours of actual teaching experience gathered through teaching assistantships and other means. PhD programmes at universities around the country will be reoriented for this purpose."

In order to implement the NEP2020 and the UGC circular to incorporate a two credits course Research and Publication Ethics (RPE) a framework for the compulsory courses for the PhD programmes of all disciplines is proposed as under:

S. No.	Compulsory Courses	Credits	Norms	Remarks				
	Knowledge Domain, Research Aptitude and Publication Ethics							
1.	Research Methodology (Compulsory Course to be offered through SWAYAM/NPTEL or by respective Schools) may be Common to All	4	Ordinance 09	Courses to be completed as per the provisions of the ordinance 9 clause 2.iii				
2.	Discipline Specific Course(s) as may be recommended by the DRC and approved by the BoS/SB and AC	6-8	Ordinance 09					
3.	Research and Publication Ethics (RPE).  (The detailed curriculum is given by the UGC vide circular in August 2019 and and also accepted by the Univ)	2	Ordinance 09 and UGC directives	This course may be completed with the PhD coursework preferably in the first two semester but not later than the maximum of 4 semesters as per provisions of the ordinance 9 clause 2.iii				
Te	Teaching / Pedagogy Domain for Professional development*							
1.	Pedagogy for Higher Education (The School of Education will facilitate this course with the help of internal faculty and a few external	3	NEP2020 (15.9)	Scholar may take this course anytime during his/her PhD programme.				

man of AAAA printing and AAAA printing and AAAA	experts. A similar course if available on SWAYAM could also be approved by the Dean SoE and offered to the scholars)			However, it is recommended that the RS registers for this course any time between second and third semester of the PhD programme.
2.	Practice Based Teaching Skills (Respective Department will facilitate this course. The Research Scholar will facilitate teaching / practical sessions for part of one or more courses course as may be approved by the HoD on recommendation of the DRC. The RS will prepare detailed lesson plans, design learning events, develop contents and facilitate the lecture / practical sessions under supervision of the guide / course instructor.)	3	NEP2020 (15.9)	This course can be taken after successful completion of the basic course 'Pedagogy for higher Education'. This course would be a non-graded course.  There is no fixed time/ duration for completion of this course. It may be done anytime during the period of stay of the scholar preferably from the second to six semesters of the PhD programme in the extended period of time.

Course code: EDU 705

Pedagogy for Higher Education (prepared by Dr Anjali Sharma)

Credits:03 (About 45 hours of interactive learning events that will include lectures, discussions with practice sessions and additional off the class self-learning activities)

#### Aim and Outline of the course:

The course is designed for the research scholars (may call the prospective teacher of higher education or PhD Entrants) to join higher education institutes as professionals. A researcher generally engages in the teaching-learning process after completing their research and sometimes participates in teaching-learning during their research period as a teacher assistant. Therefore, it is required to give them exposure to the teaching-learning process for conceptual understanding and skill development.

This course will help them understand the teaching-learning process basics, curriculum and assessment, and classroom management. This course will also help scholars be more effective while presenting in seminars and conferences.

Besides developing conceptual knowledge of pedagogy skills this course covers contemporary higher education issues like choice-based credit system, online learning, open-book examination, web-based and research-based pedagogical tools and MOOCs etc.

The scholars would develop insight into the significance of pedagogical knowledge and its implication in their professional life on completing the course. Thus the scholars who complete this course will be fully equipped to teach well immediately as they join any educational institute.

#### Learning Outcomes

On successful completion of this course the participants will be able to:

- Describe teaching-learning processes especially in context of higher education
- Develop an instructional plan as per the teaching strategy needed.
- Design learning events using different teaching methods
- Use activities and exercises as per the required teaching approach
- Develop web based and research-based pedagogical tool
- Explore the ways to handle diverse group of learners in the classroom
- Use technology effectively to facilitate and support e-learning
- Prepare assessment rubric for achievement testing of students and portfolio
- Demonstrate enhanced competency in communication with students
- Use visual aids and technology in offline and online classes.
- Make effective presentations in seminars and conferences.
- Deliver lectures and facilitate discussions and other activities in the classroom situation.

#### **Target Audiences**

The course is designed as a compulsory course for the research scholars of all disciplines. However it may be useful for students of the masters programmes who may be taking this course as an elective to enhance their employability.

# Prerequisite

The prerequisite for the course is a bachelor's degree in any discipline.

#### Course Content

#### 1. Overview of Teaching and Learning (6 hours)

- a. Concept of Pedagogy, Andragogy and Heutagogy
- b. Understanding Teaching and related terms, the relationship with learning
- c. Understanding learner and learning cycle
- d. Taxonomy of teaching objectives (Revised Bloom's taxonomy),
- e. Writing learning outcomes

#### 2. Curriculum and Instruction (8 hours)

- a. Curriculum: Concept and Facets,
- b. Credit Framework and Choice-based Credit System
- c. Instruction: Concept, Design and instructional media
- d. Developing Instructional Plans

#### 3. Teaching Strategies and Approaches (9 hours)

- a. Expository vs Inquiry Strategy (shifting from behaviourism to constructivism)
- b. Individualized to small group/large group Approaches,
- c. Scenario-Based, Online and Blended Approach, Introduction of MOOCs
- d. Designing Learning Events and Activities for Student Engagement
- e. Component of effective lectures delivery

## 4. Pedagogical skills and tools (8 hours)

- a. Concept of TPACK
- b. Pedagogical Skills Scanning the class, starting a session, skill of achieving closure skills, skills to lead session, Skill to secure attention (switch over), scaffolding skills, time management, skill to handle challenging situations.
- c. Technological Skills- Using different apps and platforms for teaching, Use of Open Educational resources (OER), developing assignments and learning material using different apps and software
- d. Communication skills Presenting in Public, Participating in Discussions and Formal Meetings

#### 5. Assessment and Evaluation (8 hours)

- a. Concept of Assessment, Assessment for learning, of learning, as learning,
- b. Receiving and Giving Feedback
- c. Assessment rubrics, Assessment Portfolio, Reflective journal

- d. Designing an Achievement test Objective and Descriptive / Open book question paper
- e. Grading System (Absolute, Relative, CGPA, Conversion of grades to percentage etc)
- f. Conducting Examination, Face to Face, Online Exams (Proctored and non-Proctored Exams)
- g. Project Reviews and Viva-Voce Examinations

## 6. Classroom Management (6 hours)

- a. Organizing the Physical environment
- b. Managing learner's behaviour through action research
- c. Counselling, Guidance and Mentoring
- d. Effective Academic leadership
- e. Resource Management

#### **Mode of Transaction**

The content will transact through interactive lectures, activities, web lectures, assignments, discussions and seminars and practice sessions (video recorded to provide feedback).

Assessment: CIA and EoSE as per provisions of the university ordinances

NEW COURSE on Pedagogy for Higher Education DESIGNED by Dr Anjali Sharma and reviewed by following five experts from Education Domain:

Prof Saroj Sharma Professor, School of Education, Chairperson National Institute of Open School,new Delhi Guru Govind Singh Indraprasth University, New Delhi

Prof. Gopal Krishna Thakur Professor & Head Department of Education Department of Psychology Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya (A Central University), Wardha – 442001, Maharashtra

Prof Amruth G Kumar School of Education Central University of Kerela

Prof. B. N. Panda Professor of Education and Dean of Research Dept. of Education Regional Institute of Education (NCERT) ( A Govt. of India Autonomous Organization) Bhubaneswar-751022,Odisha,India Course Title: Practice-Based Teaching (original draft prepared by Dr Anjali Sharma)

Course code: (to be confirmed as per the department)

Credits:03 (About 60 hours of practical teaching sessions and additional preparatory work to support the teaching)

#### Aim and Outline of the course:

The course is designed for the research scholars in the continuation of the foundation course of Pedagogy for higher education. As per the expectation of National Education Policy 2020, researchers need to be professionally equipped along with conceptual knowledge and understanding of Pedagogy. Developing teaching skills during the PhD will be a good value addition to a scholar's profile and will help them develop essential pedagogical /teaching skills required for their professional life.

This course is a practice-based course where a scholar is expected to be formally involved in various aspects of delivering a course and will include formal teaching sessions under the guidance of a supervisor.

Learning Outcomes: On completion of the course the participants will be able to:

- Prepare the Instructional plans for the given course
- Write Learning Outcomes for the planned learning event
- Design Learning Events as per the LO
- Deliver Lectures
- Formally speak in Public and make formal presentations
- Support the course instructors / teachers in various aspects of teaching, learning and
- Give effective feedback and provide support to students

Pre-requisites: Successful completion of the course 'Pedagogy for Higher Education'

#### Contents:

The course contents will depend on the teaching requirement of subject specific discipline. The participant expected to be involved in the whole cycle of delivery of a course for which the following is suggested.

- 1. Developing Instructional Plans,
- 2. Writing Learning Outcomes for each session
- 3. Designing learning activities as per the Instructional Plan and LO
- 4. Design Cooperative and Collaborative Activities for the students.
- 5. Delivering Lectures and organizing Seminars,
- 6. Preparing Handouts / Learning Course Readers
- 7. Moderating Panel Discussions, Facilitating Group Discussions
- 8. Facilitating Practicals / Field Visits / Project work / Studio (as per the need)
- 9. Assessment developing rubrics, preparing question papers of different types, and assessing answer scripts with written feedback, preparing results etc (for one formative and one summative Assessment)

- 10. Giving written and verbal feedback on presentations, assessment, reports etc (one-time only)
- 11. Writing Project Review Report (2 Reports)
- 12. Develop Open Educational Resources pool in the specific discipline
- 13. Conduct Seminar /conference and group discussions for the students. (3 Seminars/conference and 2 group discussions)
- 14. Writing and delivering formal public speeches like welcome notes, introducing speakers, vote of thanks etc. (2 in number from the mentioned activities)
- 15. Mentoring and Counselling students (5 students only)

Assessment: This will be a non-graded course. The participant will be awarded 'S' for satisfactory performance and 'NS' for non-satisfactory performance on completion of around 60 hours of practical teaching which may be a mix of classroom lectures, formal seminars, facilitating laboratory/studio/field sessions.

#### Note:

- 1. The 60 hours of practical teaching and the work on associated activities should ideally be done in one semester. However, these may be spread over two semesters also.
- 2. The contents listed above are representative in nature and will be balanced by the supervisor in a manner that the scholar is able to accomplish the tasks without feeling overburdened. It is suggested that the department and guide/instructor may take 60% of those activities (specifically designing learning course/hangouts, Instructional plan and Assessment) and may decide about the remaining 40 % of activities on their own. The teaching practice sessions may be spread over one or more courses.
- 3. The teaching practice should cover theoretical as well practical/studio classes. The allocation of the courses should be connected with the area of research being undertaken by the scholar and must be only a small part of a given course. It is not meant to replace the 'teaching load' of the supervisor.