

Sri Ramakrishna Mission Vidyalaya College of Education

(An Autonomous College affiliated to the Tamil Nadu Teachers Education University and Re-accredited with A++ Grade by NAAC with CGPA 3.82)

Sri Ramakrishna Vidyalaya Post, Periyanaickenpalayam, Coimbatore - 641 020. Phone: 80125 33915 | E-mail: srkvcoen@yahoo.co.in | Website: www.srkvcoe.org

NAAC 3rd Cycle

Criterion I Metric 1.2.4

CRITERION I - CURRICULAR ASPECTS

1.2 ACADEMIC FLEXIBILITY

1.2.4 Students are encouraged and facilitated to undergo self-study courses online/offline in several ways through

Any other relevant information

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Self-Study Course

INFORMATION AND COMMUNICATION TECHNOLOGY (FSICT) (B.Ed., I Year)

Objectives:

After completion of the course, student teacher shall:

- Appreciate the multiple use of ICT in education
- Effectively use appropriate ICT tools, software applications and digital resources in educational practices
- Create own digital resources
- Search and find required digital resources, organize and integrate in teaching-learning process.
- Use ICT for making classroom processes more interactive, inclusive to address multiple learning abilities
- Participate in various digital learning space (what are these spaces?) for capacity building Practice safe, ethical and legal ways of using ICT

Unit 1: Understanding ICT in Education

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- Concept, meaning and nature of Information and Communication Technology: Digital revolution, Digital divide and its impact on education
- Need of Information and Communication Technology in Education
- Scope of ICT in Education: Teaching learning process, assessment, dissemination, communication, research, educational management and capacity building.

Unit 2: Opportunities and challenges ICT in Education

 Model shifts in education due to ICT based learning process with special reference to curriculum, role of teacher, role of student, methods of teaching, classroom environment(infrastructure and resources) and assessment.

• Opportunities and challenges in using ICT in education.

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Unit 3: Use of ICT in teaching learning process in classroom

- ICT for designing instruction analyzing context (classroom physical & human resource; student sociological, psychological, physical perspective and for ICT integration, unit planning & lesson planning
- ?ICT for identifying and developing e-resources e resources: Meaning and nature, types; concept of Open Educational Resources; Searching and identification of OERs based on licenses and copyrights; process of developing e resources; use of e resources for effective classroom transaction.

Unit 4: Use of ICT in teaching learning process in assessment

- ICT for presentation and participation Modes of presentation, interactive modes for enhancing students' participation, collaborative mode for enhancing learning process.
- ICT for assessment Innovative assessment strategies and scope of ICT.

Unit 5: ICT Ecosystem in the school

- Creating ICT Ecosystem in the school for inclusive education– hardware, software - Free and Open Source Software (FOSS), connectivity; Assistive and adaptive technologies.
- ICT for Continuing professional development: MOOCs, e groups, forums etc for sustainable use of ICT.
- Social, ethical and legal issues of ICT: security threats and measures, Cyber privacy and Netiquette; ethical practices in cyber space; cyber laws and child safety.

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- Apoorvanand. 2018. "MOOcs: virtual but not virtuous", In: *The Place of Humanities in Our Universities*, Mrinal Miri, ed., New York: Routledge, South Asia Edition.
- Chauhan, Jyoti. 2017. "An Overview of MOOc in India", *International Journal of Computer Trends and Technology*, Volume 49 (2). Downes, Stephen. 2013. *Connectivism*, *Online Learning MOOCs*, June 15, 2013, downloaded on 20.08.2019.
- Fundamentals of Computers by V Raja Raman. Prentice Hall of India Pvt. Ltd., New Delhi.

Computer Fundamentals by P K Sinha. BPB Publications., New De

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Self-Study Course

MATHEMATICAL REASONING AND APTITUDE (SSMRA)

(B.Ed., II Year)

Course objectives:

- 1. To know the types of series and analogies.
- 2. To understand the analytical type of reasoning.
- 3. To acquire the skill of non-verbal reasoning.
- 4. To develop the skill of verbal reasoning.
- 5. To apply the problem solving ability through mathematical aptitude.

Unit 1: Series and Analogies

- 1.1 Difference series
- 1.2 Product series
- 1.3 Square and cube series
- 1.4 Combination series and letter series
- 1.5 Number analogies and verbal analogies.

Unit 2: Analytical Reasoning

- 2.1 Directions
- 2.2 Blood relations
- 2.3 Linear and circular arrangement
- 2.4 Group formation, cube and dice
- 2.5 Classifications, Coding and decoding.

Unit 3: Non-verbal reasoning

- 3.1 Image formation
- 3.2 Paper cutting and paper folding
- 3.3 Dot situation
- 3.4 Embedded figures: mirror image, water image

3.5 Venn diagrams,

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Principal II

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Unit 4: Verbal reasoning

- 4.1 Statement and arguments
- 4.2 Statement and assumptions
- 4.3 Course of action
- 4.4 Theme detection
- 4.5 Verbal Communication

Unit 5: Mathematical Aptitude

- 5.1 Number system
- 5.2 Time and distance
- 5.3 Profit and loss, Percentage and interest
- 5.4 Ratio and proportion
- 5.5 Area and perimeter.

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- 2. Harkishan Tulsiani(2016), Mathematics Aptitude, APH Publishing Corporation, New Delhi.
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