

## Skill Based Course (SBC): 02 Credits

### SBC (1) (I.6.1) Foundational Literacy and Numeracy Skill Based Course

#### 1. Credit Distribution of the Course

Course title & Code  SBC (1) (I.6.1)	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Foundational Literacy and Numeracy	2	1	0	1	Undergraduate	-

#### 2. Learning Objectives

The course provides a comprehensive understanding of foundational literacy and numeracy and its critical role in future learning. It explores the cognitive processes involved in pre-number concepts, helping learners analyze how young children develop literacy and numeracy abilities in classroom context and outside the formal learning system.

#### 3. Learning Outcomes

- Explain pre-number concepts as key concepts in early numeracy development;
- Examine the cognitive processes involved in developing number sense and numeracy skills;
- Engage with the cognitive skills for language development and its role in literacy acquisition;
- Integrate foundational numeracy and literacy concepts into more advanced concepts.

#### 4. Syllabus

**Unit I Key concepts in Foundational Numeracy** - Pre-number concepts; Number and Cognitive Process; Working of number system; Developing number concept in young learners.

[8

hours]

**Unit II Key concepts in Foundational Literacy** - Language and Literacy; Construct of language; Determinants of literacy; Developing literacy in young learners. [7 hours]

**5. Practicum Details: School Pre-Immersion Program** - School visit to study the foundational numeracy and literacy development process among children as School Pre-Immersion Program. **[30 hours]**

**6. Essential Readings**

- Reys, R. E., Lindquist, M. M., Lambdin, D. V., & Smith, N. L. (2014). *Helping children learn mathematics* (11th ed.). Wiley.
- Anghileri, J. (2006). *Teaching number sense* (2nd ed.). Continuum.
- NCERT (2023). Jaadui Pitara.

**7. Suggestive Reading**

- Haylock, D., & Cockburn, A. (2017). *Understanding mathematics for young children: A guide for foundation stage and lower primary teachers* (5th ed.). Sage Publications.
- Clements, D. H., & Sarama, J. (2014). *Learning and teaching early math: The learning trajectories approach* (2nd ed.). Routledge.