



**VIRUDHUNAGAR M.S.P.NADAR COLLEGE OF EDUCATION**

Run by VHNSN College Paripalana Sabai

Affiliated to Tamil Nadu Teachers' Education University, Chennai.

VIRUDHUNAGAR - 626001



### **Certificate course on Origami Techniques :**

**Total Marks : 50**

**Total Hours:30**

#### **Course Co-ordinator :**

**M. Karthik** M.Sc.,M.Phil(Maths).,M.Ed.,M.Phil (Edn).PGDCA.,SET.,NET(Edn).,

**Assistant Professor in Mathematicss**

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#### **Objectives:**

At the end of this course, the student –Teacher will acquire the skills :

- ✓ *This Course is Developed to understand the origami activity at various level .*
- ✓ *Origami strategy enables the student -Teachers to work on different kinds of mathematics topics and theorems along with art*
- ✓ *It encourages the students psychologically*
- ✓ *It develops the confidence on students*
- ✓ *It aims to spread the origami method of instruction and application in mathematics subjects.*

*To enrich the skill in teaching of mathematics, all the teachers can add this paper –folding strategy as one of the qualification in curriculum \_vita for the benefit of the students. It ensures student and teachers participation.*

### **Unit : 1 Introduce the concept of Origami:**

Introduction to origami - origin of origami ( Paper –Folding ) – Meaning and Definition of Origami – Types of Origami – Importance of Origami – Uses of Folding Symbol in origami - Advantages and Disadvantages of origami.

#### **Activity: 1**

Prepare the report about the history of origami and applications

#### **Activity: 2**

Poster presentation on origami techniques in mathematics

### **Unit:2 Concept of Designing the Paper Folding Model:**

**How to make Simple Paper –Folding Models :** Animals , Birds , Decoration things , Real life things, Basic geometric models etc. – Some Intermediate Model Making–Video Illustrations – Reveal the work of some Origamist : Paul Jackson , smith ,peter, David Brill , Mick Guy and Nick Robinson etc.

#### **Activity: 1**

Collect the details of origami foundation society around the world.

#### Activity :2

Assign the project to compare the study report based on the origamist contribution in mathematics

### **Unit: 3 Application of Origami Strategy on Geometry:**

Line and parallel line in geometry – some basic Theorems on geometry – working on theorems through paper –folding activity – Procedures to develop the origami method of instructions on theorems – Definition of matrix – Origami usage on Matrix.

Activity 1 :

Prepare the project based on theorems at school level

Activity: 2

Conduct the model Exhibition for showing the paper folding work on theorems.

Reference :

1. <https://britishorigami.info/society/british-creators/>.
2. www.tntextbook. <http://tnschools.gov.in/textbooks>
3. www,John Smith origami,org
4. <http://www.britishorigami.info/academic/johnsmith/measuring.php>
5. www.Jermi jaffer youtube channel.com
6. M.Karthik,Assistant Professor in Mathematics at Virudhunagar M S P Nadar College of Education- Paper Folding Strategy on theorems, Unpublished Work Collection in the year 2017.