

E-newspaper (Second Year) Chase Issue no 031 dated 25-Nov-2015  
(MATHEMATICS VALUES CHASE YEAR 01-10-2015 to 30-09-2016)

## **VEDIC MATHEMATICS**

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## **MODERN MATHEMATICS**

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### **COURSE 05 PART – 2**

### **CREATOR SPACE**

### **(5-SPACE)**

### **Fifth Week : Day 3**

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**Let us first revisit MA / M. Sc (mathematics courses) of  
California State University**

1st year 2nd year 3rd and 4th years

Mathematics topics Courses

#### **Compulsory 1st year**

includes:

- Algebra
- Analysis
- Probability and statistics
- Geometry and dynamics
- Multivariate calculus and mathematical models

Co2nd year courses

#### ••Compulsory core of

Algebra,  
Complex analysis,  
Metric spaces,  
Differential equations

#### ••Selection from topics

including

Algebra;  
Number theory;  
Analysis;  
Applied analysis;  
Geometry;

Topology;

Fluid dynamics;

Probability;

Statistics;

Numerical analysis;

Graph

theory;

Special relativity;

Quantum theory

Co3rd and 4th year

Courses

Large variety, which may vary from year to year, ranging across:

Algebra;

Analysis;

Applied analysis;

Geometry;

Topology;

Logic;

Number theory;

Applied probability;

Statistics;

Theoretical mechanics;

Mathematical physics;

Mathematical biology;  
Information theory;  
Mathematical finance;  
Actuarial mathematics;  
Undergraduate  
Ambassadors Scheme;  
Dissertation;  
Mathematical philosophy;  
Computer Science options;  
History of Mathematics

studying entirely mathematical and theoretical physics, completing the degree with an MMathPhys.

The course features research-level training in: Particle Physics, Condensed Matter Physics, Astrophysics, Plasma Physics and Continuous Media.

New MMathPhys 4th year

From 2015–16, the Physics and Mathematics Departments will jointly offer a new integrated masters level course in Mathematical and Theoretical Physics. Mathematics students will be able to apply for transfer to a fourth year

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