



### Department of Mathematics

#### Courses focus on Employability, Entrepreneurship and Skill development

Particulars	Regulation 2015 - 2018	Regulation 2018 - 2021	Regulation 2021 - 2024
Courses Focusing Employability	11	12	16
Courses Focusing Skill Development	18	25	26
Courses Focusing Entrepreneurship	2	5	3
<b>Total</b>	<b>31</b>	<b>42</b>	<b>45</b>



### Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2015 - 2018

S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
1.	III	15UMAC31	Sequences and Series		YES		
2.	III	15UMAC32	Numerical Methods		YES		YES
3.	III	15UMAA31	Programming in C	YES			
4.	III	15UMAA3P	Programming in C Lab	YES			
5.	III	15UMAS31	Theory of Numbers		YES		
6.	III	15UMAV31	Data Interpretation		YES		
7.	IV	15UMAC41	Mechanics	YES			
8.	IV	15UMAC42	Graph Theory	YES			
9.	IV	15UMAA41	Object Oriented Programming With C++ and Visual Basic	YES			
10.	IV	15UMAA4P	Object Oriented Programming With C++ and Visual Basic Lab	YES			
11.	IV	15UMAO41	Trigonometry		YES		
12.	IV	15UMAO42	Fourier Series and Laplace Transform		YES		
13.	IV	15UMAO43	Mathematical Modelling		YES		



# SRI KALISWARI COLLEGE (AUTONOMOUS)

Affiliated to Madurai Kamaraj University, Madurai  
Re-accredited with 'A' grade (3<sup>rd</sup> cycle) by NAAC with CGPA 3.11

A.Meenakshipuram, Anaikuttam Post, SIVAKASI - 626 130. Tamilnadu

## NAAC IV CYCLE

S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
14.	V	15UMAC51	Modern Algebra		YES		
15.	V	15UMAC52	Real Analysis		YES		
16.	V	15UMAC53	Operations Research			YES	YES
17.	V	15UMAC54	Mathematical Statistics - I	YES			YES
18.	V	15UMA051	History of Mathematics		YES		
19.	V	15UMA052	Vector Calculus		YES		
20.	V	15UMA053	Mathematical Methods in Social Sciences		YES		
21.	V	15UMAS51	Lattices and Boolean Algebra		YES		
22.	V	15UMAS52	Quantitative Aptitude I	YES			
23.	VI	15UMAC61	Linear Algebra		YES		
24.	VI	15UMAC62	Complex Analysis	YES			
25.	VI	15UMAC63	Differential Equations and its Applications		YES		YES
26.	VI	15UMAC64	Mathematical Statistics - Ii	YES			
27.	VI	15UMA061	Fuzzy Sets and Logics		YES		
28.	VI	15UMA062	Stochastic Processes		YES		
29.	VI	15UMA063	Optimization Techniques			YES	
30.	VI	15UMAS61	Quantitative Aptitude Ii	YES			

### CRITERION - I



# SRI KALISWARI COLLEGE (AUTONOMOUS)

Affiliated to Madurai Kamaraj University, Madurai  
Re-accredited with 'A' grade (3<sup>rd</sup> cycle) by NAAC with CGPA 3.11

A.Meenakshipuram, Anaikuttam Post, SIVAKASI - 626 130. Tamilnadu

## NAAC IV CYCLE

S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
31.	VI	15UMAV61	Astronomy		YES		
<b>Total No of courses</b>				<b>11</b>	<b>18</b>	<b>2</b>	
<b>Percentage</b>				<b>35.48%</b>	<b>58.06%</b>	<b>6.46%</b>	

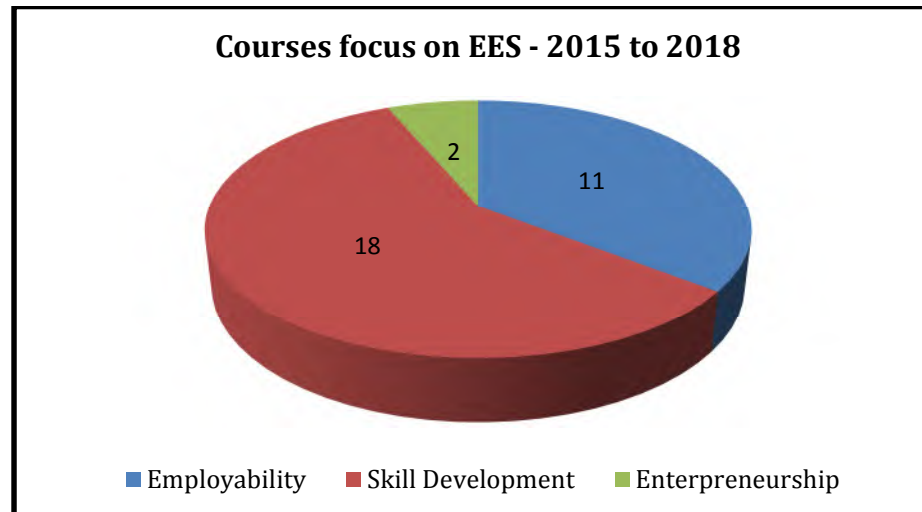
### CRITERION - I



### Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2015 - 2018

Graphical Representation





### Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2018 - 2021

S. No.	Semester	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
1.	I	18UMAC11	Basic Mathematics		YES		YES
2.	I	18UMAC12	Differential Calculus and its Applications	YES			YES
3.	I	18UMAA11	Physics-I Theory		YES		
4.	I	18UMAN11	Fundamentals of Mathematics		YES		YES
5.	I	18UMAE1P	PC Software Lab			YES	YES
6.	II	18UMAC21	Classical Algebra		YES		YES
7.	II	18UMAC22	Analytical Geometry - 3D		YES		
8.	II	18UMAA21	Physics-II Theory		YES		YES
9.	II	18UMAA21	Allied Course - II:Physics-II Practical		YES		YES
10.	II	18UMAN21	Statistical Methods	YES			YES
11.	II	18UMAE21	Astronomy		YES		
12.	III	18UMAC31	Sequences and Series		YES		





# SRI KALISWARI COLLEGE (AUTONOMOUS)

Affiliated to Madurai Kamaraj University, Madurai  
Re-accredited with 'A' grade (3<sup>rd</sup> cycle) by NAAC with CGPA 3.11

A.Meenakshipuram, Anaikuttam Post, SIVAKASI - 626 130. Tamilnadu

## NAAC IV CYCLE

S. No.	Semester	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
13.	III	18UMAC32	Numerical Methods		YES		YES
14.	III	18UMAA31	Programming in C and C++	YES			YES
15.	III	18UMAA3P	Programming in C and C++ Lab	YES			YES
16.	III	18UMAS31	Trigonometry		YES		
17.	III	18UMAV31	Data Interpretation		YES		
18.	IV	18UMAC41	Mechanics	YES			
19.	IV	18UMAC42	Differential Equations and its Applications		YES		YES
20.	IV	18UMAA41	Multimedia and its Applications			YES	YES
21.	IV	18UMAA4P	Multimedia Lab			YES	YES
22.	IV	18UMAO41	Vector Calculus		YES		
23.	IV	18UMAO42	Major Elective Course - I: Consumer Affairs	YES			YES
24.	IV	18UMAO43	Discrete Mathematics		YES		YES
25.	IV	18UMAC51	Modern Algebra		YES		YES
26.	V	18UMAC52	Real Analysis		YES		
27.	V	18UMAC53	Operations Research			YES	

### CRITERION - I



# SRI KALISWARI COLLEGE (AUTONOMOUS)

Affiliated to Madurai Kamaraj University, Madurai  
Re-accredited with 'A' grade (3<sup>rd</sup> cycle) by NAAC with CGPA 3.11

A.Meenakshipuram, Anaikuttam Post, SIVAKASI - 626 130. Tamilnadu

## NAAC IV CYCLE

S. No.	Semester	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
28.	V	18UMAC54	Mathematical Statistics – I	YES			YES
29.	V	18UMA051	Laplace Transforms and Fourier Series		YES		
30.	V	18UMA052	Introduction to Fractals		YES		YES
31.	V	18UMA053	Fuzzy Sets and Logic		YES		YES
32.	V	18UMAS51	Transform Techniques		YES		YES
33.	V	18UMAS52	Quantitative Aptitude	YES			
34.	VI	18UMAC61	Linear Algebra		YES		
	VI	18UMAC62	Complex Analysis	YES			
35.	VI	18UMAC63	Graph Theory	YES			
36.	VI	18UMAC64	Mathematical Statistics – II	YES			YES
37.	VI	18UMA061	Mathematical Modeling		YES		YES
38.	VI	18UMA062	Stochastic Processes	YES			YES
39.	VI	18UMA063	Optimization Techniques			YES	YES

### CRITERION - I





# SRI KALISWARI COLLEGE (AUTONOMOUS)

Affiliated to Madurai Kamaraj University, Madurai  
Re-accredited with 'A' grade (3<sup>rd</sup> cycle) by NAAC with CGPA 3.11

A.Meenakshipuram, Anaikuttam Post, SIVAKASI - 626 130. Tamilnadu

## NAAC IV CYCLE

S. No.	Semester	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
40.	VI	18UMAS61	Lattices and Boolean Algebra		YES		
41.	VI	18UMAV6P	HTML Lab		YES		YES
			<b>Total No of courses</b>	<b>12</b>	<b>25</b>	<b>5</b>	
			<b>Percentage</b>	<b>28.57%</b>	<b>59.52%</b>	<b>11.91%</b>	

### CRITERION - I

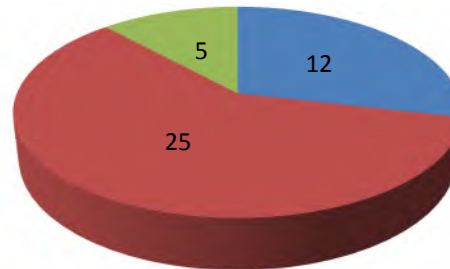


### Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2018 - 2021

Graphical Representation

Courses focus on EES - 2018 to 2021



■ Employability ■ Skill Development ■ Entrepreneurship



### Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2021 - 2024

S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
1.	I	21UMAC11	Differential Calculus	YES			
2.	I	21UMAC12	Analytical Geometry-3D		YES		
3.	I	21UMAA11	Physics I		YES		YES
4.	I	21UMAA1P	Practical - Physics I		YES		YES
5.	I	21UMAS11	Integral Calculus and Fourier Series	YES			YES
6.	II	21UMAC21	Classical Algebra		YES		
7.	II	21UMAC22	Summation of Series and Trigonometry		YES		YES
8.	II	21UMAA21	Physics II		YES		YES
9.	II	21UMAA2P	Practical - Physics II		YES		YES
10.	II	21UMAS21	Data Interpretation	YES			
11.	III	21UMAC31	Sequences and Series		YES		
12.	III	21UMAC32	Mathematical Statistics	YES			YES
13.	III	21UMAA31	Programming in C and C++	YES			
14.	III	21UMAA3P	Practical - Programming in C and C++	YES			

#### CRITERION - I



# SRI KALISWARI COLLEGE (AUTONOMOUS)

Affiliated to Madurai Kamaraj University, Madurai  
Re-accredited with 'A' grade (3<sup>rd</sup> cycle) by NAAC with CGPA 3.11

A.Meenakshipuram, Anaikuttam Post, SIVAKASI - 626 130. Tamilnadu

## NAAC IV CYCLE

S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
15.	III	21UMAN31	Fundamentals of Mathematics		YES		YES
16.	III	21UMAS31	Astronomy		YES		
17.	IV	21UMAC41	Mechanics	YES			YES
18.	IV	21UMAC42	Sampling Theory	YES			YES
19.	IV	21UMAA41	Multimedia and its Applications			YES	
20.	IV	21UMAA4P	Practical - Multimedia and its Applications			YES	
21.	IV	21UMAM41	(Swayam Course): Basic Calculus 1 and 2		YES		YES
22.	IV	21UMAM42	(Swayam Course): Multivariable Calculus		YES		YES
23.	IV	21UMAN41	Introduction to Numerical Computations	YES			YES
24.	IV	21UMAS41	Statistical Distributions		YES		YES
25.	V	21UMAC51	Abstract Algebra		YES		
26.	V	21UMAC52	Real Analysis		YES		
27.	V	21UMAC53	Operations Research			YES	YES
28.	V	21UMAC54	Differential Equations and Laplace Transforms		YES		
29.	V	21UMA051	Numerical Methods		YES		YES
30.	V	21UMA052	Calculus of Finite Differences		YES		YES

### CRITERION - I



# SRI KALISWARI COLLEGE (AUTONOMOUS)

Affiliated to Madurai Kamaraj University, Madurai  
Re-accredited with 'A' grade (3<sup>rd</sup> cycle) by NAAC with CGPA 3.11

A.Meenakshipuram, Anaikuttam Post, SIVAKASI - 626 130. Tamilnadu

## NAAC IV CYCLE

S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
31.	V	21UMA053	Probability Theory and Theory of Attributes		YES		YES
32.	V	21UMA054	Discrete Mathematics		YES		YES
33.	V	21UMA055	Integral Transforms		YES		YES
34.	V	21UMA056	Coding Theory		YES		YES
35.	V	21UMAS5P	Practical - HTML		YES		
36.	VI	21UMAC61	Linear Algebra		YES		
37.	VI	21UMAC62	Complex Analysis	YES			
38.	VI	21UMAC63	Graph Theory	YES			
39.	VI	21UMAC64	Vector Calculus		YES		
40.	VI	21UMAJ61	Project	YES			YES
41.	VI	21UMA061	Resource Management Techniques	YES			YES
42.	VI	21UMA062	Project Network Techniques	YES			YES
43.	VI	21UMA063	Mathematical Programming Techniques	YES			YES
44.	VI	21UMAS6P	Practical - Computational Methods in Octave		YES		YES
45.	VI	21UMAE61	Comprehensive Examination	YES			YES
<b>Total No of courses</b>				<b>16</b>	<b>26</b>	<b>3</b>	
<b>Percentage</b>				<b>35.56%</b>	<b>57.78%</b>	<b>6.66%</b>	

### CRITERION - I



### Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2021 - 2024

Graphical Representation

