



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
Sivakasi**

(Affiliated to Madurai Kamaraj University, Reaccredited with "A" Grade by NAAC,
College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)

NAAC SSR Cycle IV (2015-2020)

**1.1. CURRICULUM DESIGN AND
DEVELOPMENT**

**1.1.3. COURSES FOCUS ON EMPLOYABILITY /
ENTREPRENEURSHIP / SKILL DEVELOPMENT**

**COURSES FOCUS ON EMPLOYABILITY /
ENTREPRENEURSHIP / SKILL
DEVELOPMENT
B.Sc. PHYSICS – 2017 AND LATER**



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DEPARTMENT OF PHYSICS

B.Sc. PHYSICS

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THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI
DEPARTMENT OF PHYSICS
B.Sc. PHYSICS PROGRAMME
(For those who have joined in June 2017 and later)

COURSES FOCUSING ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT

S. No	Semester	Course Code	Course Title	Focus on employability, entrepreneurship and skill development
1.	I	GLPH11	Mechanics and Properties of Matter	Employability
2.	I	GLPH12	Physics applications in Everyday life	Employability
3.	II	GLPH1A	Fundamental Physics	Employability
4.	II	GLPH21	Optics	Employability
5.	I & II	GLPH2L	Lab I	Skill development
6.	II	GLPH2A1	Digital Electronics	Employability
7.	II	GLPH2A2	Solid State Physics and Digital Electronics	Employability
8.	III & IV	GLPH2AL	Allied Lab	Skill development
9.	III	GLPH31	Electricity	Employability
10.	III	GLPH32	Electromagnetism	Employability
11.	III	GLPH3N	Physics for the new world	Employability
12.	IV	GLPH41	Analog Electronics	Employability
13.	IV	GLPH4L	Lab II	Skill development
14.	IV	GLPH4N	Solar Energy and its Applications	Employability

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Dr.(Mrs) S.SIVA DEVI
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T. Palaneeswari
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15.	IV	GLPH4DSL	Lab - Scientific Skill Development	Skill development
16.	V	GLPH51	Classical Mechanics	Employability
17.	V	GLPH5L	Lab III	Skill development
18.	V	GLPH5E1 /GLPH5E3	Digital Electronics / Fibre optics	Employability
19.	V	GLPH5E2/ GLPH5E4	Atomic and Nuclear Physics / Energy Physics	Employability
20.	VI	GLPH61	Solid State Physics	Employability
21.	VI	GLPH62	Wave mechanics	Employability
22.	VI	GLPH6L	Lab IV	Skill development
23.	VI	GLPH6P	Project Work	Skill development
24.	VI	GLPH6E1/GLPH6E2	Thermodynamics/ Bio physics	Employability
25.	VI	GLSE66	Domestic Electrical Appliances Servicing	Entrepreneurship
26.	VI	GLSE66L	Domestic Electrical Appliances Servicing - Lab	Entrepreneurship


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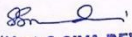
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1.	I	HLP11	Mathematical Physics – I	Employability
2.	I	HLP12	Classical and Statistical Mechanics	Employability
3.	I	HLP13	Linear Integrated Circuits	Employability
4.	I	HLP1L	Lab – I	Skill development
5.	I	HLP1E2 /HLP1E1	Digital Logic Design /Microprocessor	Employability
6.	II	HLP21	Quantum Mechanics – I	Employability
7.	II	HLP22	Mathematical Physics - II	Employability
8.	II	HLP23	Electromagnetic Theory	Employability
9.	II	HLP2L	Lab – II	Skill development
10.	II	HLP2E1 /HLP2E2	Applied Physics / Microcontroller	Employability
11.	III	HLP31	Solid State Physics -I	Employability
12.	III	HLP32	Quantum Mechanics – II	Employability
13.	III	HLP33	Computer Oriented Numerical Methods	Employability
14.	III	HLP3L	Lab – III	Skill development
15.	III	HLP3E1/ HLP3E2	CSIR UGC - NET Preparatory course - Physics / Recent Trends in Physics	Employability
16.	IV	HLP41	Solid State Physics -II	Employability


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17.	IV	HLP42	Nuclear Physics	Employability
18.	IV	HLP43	Molecular Spectroscopy	Employability
19.	IV	HLP4P	Project and Viva Voce	Skill development
20.	IV	HLP4E1 /HLP4E2	Nano Physics / Medical Physics	Employability


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COURSES FOCUS ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT

<u>S.No</u>	<u>Semester</u>	<u>Course Code</u>	<u>Course Title</u>	<u>Focus on Employability, Entrepreneurship and Skill Development</u>
1.	I	16MPH11	Research Methodology	Skill Development
2.		16MPH12	Eigen Physics	Employability
3.		16MPH1V	Subject Viva-Voce	Skill Development
4.	II	16MPH2A	Optional Paper I-Introduction to Fuels cells and Hydrogen storage	Employability
5.		16MPH2B	Optional Paper II- Nanomaterials and Characterization techniques	Employability
6.		16MPH2C	Optional Paper III- Properties of thin Films	Employability
7.		16MPH2D	Dissertation	Skill Development
8.		16MPH2V	Viva-Voce	Skill Development


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SKILL DEVELOPMENT
2014 AND LATER**

S. No	Semester	Course Code	Course Title	Focus on employability, entrepreneurship and skill development
1.	I	14UPH11	Basic Physics	Employability
2.	I	14UPH12	Physics in Everyday Life	Employability
3.	I	14UPH1A	Electricity and Electronics	Employability
4.	II	14UPH21	Optics	Employability
5.	I & II	14UPH2L	Practical I	Skill development
6.	II	14UPH2A1	Digital Electronics	Employability
7.	II	14UPH2A2	Digital Electronics & Solid State Physics	Employability
8.	I & II	14UPH2AL	Allied Practical	Skill development
9.	III	14UPH3N	Physics for the New world	Employability
10.	III	14UPH31	Electricity	Employability
11.	III	14UPH32	Electromagnetism	Employability
12.	IV	14UPH41	Basic Electronics	Employability
13.	IV	14UPH4L	Practical II	Skill development
14.	IV	14UPH51	Classical Mechanics	Employability


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16.	V	14UPH5E2/14UPH5E4	Atomic and Nuclear Physics/Energy Physics	Employability
17.	V	14UPH5L	Practical III	Skill development
18.	V	14UPH5N	Solar Energy and its Applications	Employability
19.	VI	14UPH61	Solid State Physics	Employability
20.	VI	14UPH62	Physical optics	Employability
21.	VI	14UPH6E1/14UPH6E2	Thermodynamics/Bio Physics	Employability
22.	VI	14UPH6L	Practical IV	Skill development
23.	VI	14UPH6P	Project	Skill development
24.	VI	14USE66	Domestic Electrical Appliances Servicing	Entrepreneurship
25.	VI	14USE66L	Practical – Domestic Electrical Appliances Servicing	Entrepreneurship


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1.	I	14PPH11	Mathematical Physics	Employability
2.	I	14PPH12	Advanced Classical Mechanics	Employability
3.	I	14PPH13	Linear Integrated Circuits	Employability
4.	I	14PPH1L	Practical – I	Skill development
5.	I	14PPH1E1	Nano Physics	Employability
6.	II	14PPH21	Quantum Mechanics – I	Employability
7.	II	14PPH22	Statistical Mechanics	Employability
8.	II	14PPH23	Electromagnetic Theory	Employability
9.	II	14PPH2L	Practical – II	Skill development
10.	II	14PPH2E	Applied Physics	Employability
11.	III	14PPH31	Solid State Physics -I	Employability
12.	III	14PPH32	Quantum Mechanics – II	Employability
13.	III	14PPH33	Computer Oriented Numerical Methods	Employability
14.	III	14PPH3L	Practical – III	Skill development
15.	III	14PPH3E	Recent Trends in Physics	Employability
16.	IV	14PPH41	Solid State Physics -II	Employability
17.	IV	14PPH42	Nuclear Physics	Employability
18.	IV	14PPH43	Molecular Spectroscopy	Employability
19.	IV	14PPH4P	Project and Viva Voce	Employability
20.	IV	14PPH4E1	Advanced Digital Electronics	Employability


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