

CURRICULUM STRUCTURE:

School of Physical Sciences S. R. T. M. University, Nanded

M. Sc. Physics First Semester

Sr. No.	Subject code	Subject	Credits
01	SPS1 - 1	Mathematical Physics	04
02	SPS1 – 2	Classical Mechanics	04
03	SPS1 – 3	Electronic Devices & Application	04
04	SPS1 – 4	Numerical Techniques	04
05	SPS1 – 5	Lab I (General Electronics)	02
06	SPS1 – 6	Lab II (Digital Electronics Lab)	02
07	SPS1 – 7	Lab III (Computer Programming)	02
08	SPS1 – 8	Lab IV (Numerical Techniques)	02
09	SPS1 - 9	Semimar	01
Total Credits			25

M. Sc. Physics Second Semester

Sr. No.	Subject code	Subject	Credits
01	SPS2 - 1	Statistical Mechanics	04
02	SPS2 – 2	Quantum Mechanics	04
03	SPS2 – 3	Condensed Matter Physics	04
04	SPS2 – 4	Atomic and Molecular Physics	04
05	SPS2 – 5	Lab I (General Physics Lab)	02
06	SPS2 – 6	Lab II (Semiconductor Lab)	02
07	SPS2 – 7	Lab III (Solid State Physics Lab)	02
08	SPS2 – 8	Lab IV (Spectroscopy Lab)	02
09	SPS2 - 9	Seminar	01
Total Credits			25

School of Physical Sciences
S. R. T. M. University, Nanded

M. Sc. Physics Third Semester

Sr. No.	Subject code	Subject	Credits
01	SPS3 - 1	Electrodynamics	04
02	SPS3 – 2	Nuclear Physics	04
03	SPS3 – 3	Optional - I	04
04	SPS3 – 4	Optional - II	04
05	SPS3 – 5	Lab I (Expt. Tech.)	02
06	SPS3 – 6	Lab II (Nucl.Phys)	02
07	SPS3 – 7	Lab III (Optional Lab I)	02
08	SPS3 – 8	Lab IV (Optional Lab II)	02
09	SPS3 - 9	Semimar	01
Total Credits			25

M. Sc. Physics Fourth Semester

Sr. No.	Subject code	Subject	Credits
01	SPS4 - 1	* Elective	04
02	SPS4 – 2	Optional - I	04
03	SPS4 – 3	Optional - II	04
04	SPS4 – 4	Dessertation	04
05	SPS4 – 5	Lab I (Optional Lab I)	02
06	SPS4 – 6	Lab II (Optional Lab I)	02
07	SPS4 – 7	Lab III (Optional Lab II)	02
08	SPS4 – 8	Lab IV (Optional Lab II)	02
09	SPS4 - 9	Seminar	01
Total Credits			25

Note :-

Optional -I and Optional-II: Under this category, the student will choose one of the following combinations of papers.

1. Astrophysics - I and Electronics-I
2. Materials Sciences- I and Fiber Optics & Leasers –I

*Elective: The student can opt for one of the following papers.

1. Systemic Materials analysis (Code:SPS-AP41)
2. Plasma Physics (Code: SPS-AP42)