

**MRSPTU B.TECH. (AEROSPACE ENGINEERING) SYLLABUS
2019 BATCH ONWARDS**

B.Tech. Aerospace Engineering (7th SEMESTER)

Course		Contact Hrs.			Marks			Credits
Code	Name	L	T	P	Int.	Ext.	Total	
BASES1-701	Finite element Analysis	3	1	0	40	60	100	4
BASES1-702	Hypersonic Aerodynamics	3	0	0	40	60	100	3
BASES1-703	**Project-I	0	0	8	60	40	100	4
BASES1-704	***Training-III	-	-	-	40	60	100	3
BASES1-705	Composite Materials and Structures	3	1	0	40	60	100	4
	Departmental Elective-IV(POOL-I, Select One)	3	1	0	40	60	100	4
BASED1-711	Rockets and Launch Vehicles							
BASED1-712	Space Missions							
	Departmental Elective-V(POOL-II, Select One) (Select One)	3	0	0	40	60	100	3
BANED1-721	Cryogenics							
BANED1-722	Spacecraft Systems Engineering							
BANED1-723	Power Systems in Spacecraft							
XXXX	Open Elective*	3	0	0	40	60	100	3
	Total	-	-	-	340	460	800	28

Project-I: A minor project for UG students to enable them apply knowledge to address the real world situations/problems to find solutions. The student will carry out minor project under the supervision of faculty advisor. A group of maximum three students can register for this minor project. The registered students will submit the project proposal in the prescribed format in the office of HOD within 10 days of semester registration. Faculty advisor of the group has to accept/reject proposals based on the merits and outcome of the project. The student will require developing and presenting a working prototype at the end of the semester to earn the credits of project.

*Open Elective Subjects may also be chosen from the list of Open Electives-I, II and III offered by other departments of university.

*****60 marks external** (40 to be given by external training agency and 20 to be given by class incharge against their submission of reports, daily diary, power presentation in the institution etc) and **40 internal marks** (to be allotted by the external examiner at the time of Viva Voce).