

## B.S. Power Engineering

- Type of Input:** Sponsored employees with Technical Diploma/ B.Sc. or its equivalent.
- Duration** Normally Six Semesters
- Special Feature:** This is a specially designed programme for Human Resource Development needs of Aditya Birla Group, Tata Power, JSW Energy, Adani; EPoL, Hazira; Hindalco, Renuagar.

Year	First Semester			U	Second Semester			U
I	POW** ZC211	Computer Programming	3	POW** ZC212	Engineering Mathematics II	3		
	POW** ZC221	Engineering Mathematics I	3	POW** ZC222	Electronics & Microprocessor	3		
	POW** ZC231	Thermodynamics	3	POW** ZC232	Principles of Management	3		
	POW** ZC251	Electrical Technology	3	POW** ZC242	Engineering Measurements	3		
	Total			12	Total			12
II	POW** ZC311	Prime Movers & Fluid Machines	3	POW** ZC312	Quality Control, Assurance and Reliability	3		
	POW** ZC321	Technical Report Writing	3	POW** ZC332	Energy Management	3		
	POW** ZC322	Power Generation	3	POW** ZC342	Power Systems Engineering I	3		
	POW** ZC331	Instrumentation & Control	3	POW** ZC481	Plant Layout & Design	3		
	Total			12	Total			12
III	POW** ZC411	Environmental Pollution Control	3	POW** ZC423T	Project Work	20		
	POW** ZC421	Essentials of Project Management	3					
	POW** ZC431	Maintenance & Safety	3					
	POW** ZC441	Power Systems Engineering II	3					
	Total			12	Total			20

**Note 1:** This is currently operative pattern as approved by the Senate-appointed committee, subject to change if the situation warrants.

**Note 2:** In the above chart, the symbol \*\* in the course numbers, can be substituted by letters representing the collaborating organization. For example, we can have AB for Aditya Birla Group and TP for Tata Power and ES for Essar Power, Hazira.

Pool of other Courses*		
Course No.	Course Title	U
POW** ZC412	Power System Operation and Control	3
POW** ZC422	Power System Drawing and Design	3
POW** ZC451	Alternative Energy Sources	3
POW** ZC461	Power Plant Engineering	3
POW** ZC471	Power Electronics & Drives	3

\* Any course from this pool may be used to substitute a course from the Semesterwise pattern, if the situation warrants.