



**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(Approved by AICTE, Permanently Affiliated to JNT University Kakinada,  
Accredited by NAAC and Recognized under 2(f) & 12 (b) by UGC, New Delhi)  
Tamarani, Makavarapalem, Narsipatnam(RD), Visakhapatnam-531113

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**DATE: 19-3-2022**

**RECOMMENDATIONS/SUGGESTIONS OF THE TEACHER FOR CURRICULUM  
DEVELOPMENT FOR THE YEAR 2021-2022**

S.No	Subject Name	Recommendations/Suggestions for Curriculum Development
1	Power System Analysis	Artificial Intelligence Models in Power System Analysis suggested to be added in the syllabus
2	Digital Control Systems	Request to add Software Technologies for Complex Control Systems in the syllabus
3	Electric Drives	Recommend to add sensor-less control of electric drives and application of advanced control methodologies(fuzzy, neural, robust, pre detective etc)for high performance control of electrical drives in the syllabus
4	Power Electronics	Modular multi level converters, transformerless inverters for solar PV applications suggested to be added in the syllabus
5	Switch Gear and Protection	Digital protection of power system has to be added in the syllabus
6	Power Systems-II	Conductor Parameter studies-conductor weight, elastic elongation, plastic elongation, thermal elongation suggested to be added in the syllabus
7	Power System Operation And Control	Distributed frequency regulation in smart grids has to be added in the syllabus
8	HVDC Transmission	Advanced control strategies of VSC based HVDC transmission system, HVDC systems in smart grids has to be added in the syllabus
9	Power systems-I	Micro hydro gravitational vertex electric power turbine has to be added in syllabus
10	Induction and Synchronous Machines	Robust non linear receding horizon control of permanent magnet synchronous machine and sensor less control of IPMSM(Interior permanent magnet synchronous motor) at low speed suggested to be added in the syllabus

**HOD**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

  
**PRINCIPAL**

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