

School of Engineering and Technology
Department of Electrical & Electronics Engineering
Minutes of Board of Studies Meeting -2020

Date: 11th July 2020

Agenda; Revision of Curriculum -2020

Reference: Observation and Feedback received from industry and Academic expert

Discussion and Resolution taken;

Key Remarks; (Please write 2/3 sentences on following points as a summary)

- New course structure of all the Basket 3 and basket 4 for EE and EEE was done.
- 89 % of syllabus modified in complete BTech programme

Sl. No	Course Title	Comments of Prof. (Dr.) P. K. Hota (External Member)	Comments of Mr. P. K. Pradhan (External Member)	Compliance
1	Network Analysis	<ul style="list-style-type: none"> ● Contents are OK. In Module-II, whether the theorems are for DC circuits or both DC and AC? ● The Learning Outcomes should be at least 4 or 5. ● It should be uniform for all papers. 	OK	<ul style="list-style-type: none"> ● A.C is added along with D.C in theorems in Module-II ● Learning outcome is updated as per the suggestion
2	Energy Production & Transmission	<ul style="list-style-type: none"> ● Whether this nomenclature is matching to that of AICTE model nomenclature? ● In learning outcome No.3, able to design transmission line cable is to be replaced as able to design transmission lines and cables. ● In module-1, hydroelectric power system is to be included. 	OK Learning Outcome – It should be Able to design transmission lines and cables	<ul style="list-style-type: none"> ● The following learning outcome has been added (i) Able to get the overall process of generation and transmission (ii) Able to understand the power grid system

3	Substation Switch gear & Protection	<ul style="list-style-type: none"> This course is of (2-1-1). The number of lecture assigned is 45. The project contact hours is included here or it is extra? Whereas, for Network analysis course (2-1-0), number of lectures assigned is 33 hours though credit assigned for lecture is 2 in both the cases. Uniformity of lecture hours for same credit courses is to be maintained. 	<p>OK</p> <p>Module I – Substation systems Practice: 8. Layout Design of 132 KV and 220 KV using MATLAB</p>	<ul style="list-style-type: none"> The following learning outcome has been added <ul style="list-style-type: none"> (i) Able to understand the Maintenance of substation (ii) Able to understand the protection control systems 132KV substation design is added along with 220KV in Module-I
4	System Modeling and Control	<ul style="list-style-type: none"> This course is of (3-1-0) structure. Three credits are assigned for lectures. That means more number of lecture hours has to be assigned for this course. But, it is observed that only 43 hours have been assigned. More clarification in this regard has to be made. 	<p>OK</p>	<ul style="list-style-type: none"> Hours required for both theory and practice has been clarified
5	Electrical Machines Operation and Control	<ul style="list-style-type: none"> This course is of (2-2-0) structure. That means equal contact hours should be mentioned for both lecture as well as practice. Why for this course credit assigned for Practice is 02? However, 45 lecture hours are mentioned in the syllabus. Then how many contact hours for practice is allocated? Clearly this is to be clarified for each course to avoid confusion. The course contents appear to be too heavy for a single course. Try to optimize the course content. 	<p>OK</p>	<ul style="list-style-type: none"> Hours required for both theory and practice has been clarified
6	Industrial Power Electronics	<ul style="list-style-type: none"> In previous course the number of Learning Outcomes (Los) was 5 and now for this course it is 4. In the following course it becomes 2. This is not a good practice. Try to make it uniform, say 4 to 5. 	<p>Module VII – Single Phase and Three Phase Transformers</p>	<ul style="list-style-type: none"> The following learning outcome has been added <ul style="list-style-type: none"> (i) They will learn application of power electronics for the control of electrical power system

				<ul style="list-style-type: none"> • OLTC of transformer is added in Module-VII
7	Digital Measurement and Instrumentation	<ul style="list-style-type: none"> • The course content is good. • The number of Los is to be increased. 	OK	<ul style="list-style-type: none"> • The following learning outcome has been added (i) They will learn digital programming of circuit (ii) They will learn ADC and DAC
8	Basic Electrical Engineering	<ul style="list-style-type: none"> • The contents are OK. • However, the number of Learning Outcomes (Los) should be increased. 	OK	<ul style="list-style-type: none"> • The following learning outcome has been added (i) Student will acquire knowledge on electromagnetism (ii) They will learn application of electromagnetism in generating electricity (iii) They will get knowledge on 3-phase and 1-phase circuit
9	Domain: Industrial Automation	<ul style="list-style-type: none"> • It is good. • Los are not mentioned. 	OK	<ul style="list-style-type: none"> • The following learning outcome has been added (i) Student will acquire knowledge SCADA in Dashboard applications.
10	Domain: Operation and Maintenance of Electrical Grid System & Transformers	<ul style="list-style-type: none"> • It is good. • Los are not mentioned. 	Ok	<ul style="list-style-type: none"> • Learning outcome is updated as per the suggestion

<p>Overall Remarks on curriculum</p>	<p>(i) Syllabus are framed in very good ways, particularly, in such a way that it helps the students to be industry ready provided all the practice and projects are taken by the students seriously.</p> <p>(ii) The names of the papers appear to be different that the classical names. Here, it is to be verified that whether they are allowed as per the AICTE model nomenclatures of the papers? (iii) In Papers from serial 1 to 8: It is observed that the number of Learning Outcomes (Los) is different for different papers. But, it is a healthy practice to have equal number of Los for each paper.</p> <p>(iv) It is not clear that for paper entitled: Electrical Machines Operation & Control (2-2-0), the number of lectures assigned is 45 hours. Does it include contact hours for practice? The practice is 2 credit and lecture is 2 credit. More clarification is to be mentioned in this regard for each paper.</p> <p>(v) In general, course content in some papers are O.K, but in few papers like this paper, the course contents appear to be heavy. Uniformity of the syllabus in all respect has to be maintained.</p> <p>(vi) For basket-V Domain courses, again the course contents are really good. Today's industry and Electrical utility companies want the students to be trained in these domain areas. Again it is observed that the credit assigned for paper 9 and paper 10 are 24 credits whereas for paper 11, i.e, for Domain:</p>	<ul style="list-style-type: none"> • The structure, frame work of the syllabus is very good. • It is a combination of theory and practice making the students acquainted with the real field work such that they will be doing well when they step in to their core engineering jobs. • Effort should be taken in future to include more practical oriented course. • Transformer design and manufacturing should be an exclusive course title. • It is to be verified that all the courses are in line with the AICTE norms. 	<p>All Courses are as per AICTE guideline.</p>
---	---	--	--



	Renewable Energy Application it is 22. Uniformity has to be mentioned here also.		
--	--	--	--

List of External Resource

Sl. No.	Name	Organisation	Signature
1	Prof. (Dr.) P. K. Hota	Veer Surendra Sai University of Technology (VSSUT), Burla	
2	Mr. P. K. Pradhan	Ex- Director (Commercial), GRIDCO	