(A Govt. Aided UGC Autonomous Institute& NAAC Accredited Institute Affiliated to R.G.P.V., Bhopal MP, Electrical Engineering Department

Minutes of Meeting Board of Studies

Date: 23-11-2019

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2020

The Board of Studies (BoS) meeting of Electrical Engineering department was held on 23rd November 2019 in the office of HoD Electrical Engineering. Following external members were invited in addition to the faculty members of the department:

- 1. Dr. A.K. Sharma, Prof. & Head, Electrical Engineering Department, JEC Jabalpur (VC, RGPV nominee)
- 2. Dr. Mukhtiar Singh, Professor, Department of Electrical Engineering, DTU Delhi (Subject Expert)
- 3. Dr. D.K. Chaturvedi, Professor, Electrical Engineering Department, DEI Agra, (Subject Expert)
- 4. Er. R.K Mahapatra, AGM, BHEL, Jhansi (Industry Expert)
- 5. Er. Dileep Dixit, DGM, NTPC, Delhi, (Alumnus)

offerent

- 6. Er Durgesh Tripathi, Sr. Executive(Engg Service), Godrej Industry, Malanpur (Industry Expert)
- 7. Er. Asutosh Chincholikar, CEO, Smart Control India Ltd. Gwalior (Industry Expert) Following internal members attended the meeting:

D. M. D.	stava	Dr. Himmat Singh	Prof. Rahul Sagwal	Prof. Tarun Shrivastava	
Dr. M. Pandit		Dr. Vijay Bhuria	Prof. G.K. Naveen Kumar	Prof. R.K. Bansal	
Dr. A.K. Wadhwani		Prof. Kuldeep Swarnkar*	Prof. Bhavna Rathore	Prof. Avinash Sharma	
Dr. S. Wadhwani		Prof. Praveen Bansal	Prof. Shailendra Pratap	Prof. Sanjay Kulshreshtha	
f. Ashish Patra		Prof. Vishal Chaudhary	Prof. Saurabh Kumar	Prof. Neha Para	
Dr. H. M. Dubey		Prof. Punjan Dohare	Prof. Shweta Kumari	Prof. Jyoti Tomar	
Dr. Shishir Dixit		Dr. Vikram	Prof. Aprajita Kumari	Prof. Neha Jadon	
Prof. Rakesh Narvey		Prof. Nipun Gupta	Prof. Manoj Kumar	Prof. Gunjan Rathore	
	 flexible curriculum along with their COs For VI semester following three DEs courses are proposed: <i>Computer Aided Power System Analysis</i> <i>Industrial Automation (*Industry Collaborative Course Refer Item 11)</i> <i>Transducers & Sensors</i> Syllabi for all Departmental Elective (DE) courses to be offered in the VI Semesters under t curriculum along with their COs were discussed. (Annexure-I) 				
EE I:	i. Compu ii. Industr iii. Transa Syllabi for all	ter Aided Power System Analysi ial Automation (*Industry Colla fucers & Sensors Departmental Elective (DE)	s borative Course Refer Item [1]	VI Semesters under the flexit	

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i. Introduc	ction to SMART Grid	8 Weeks			
ii. Advance	es in UHV Transmission and Distribution	8 Weeks			
iii. Semico	12 Weeks				
iv. Solar Energy Engineering & Technology 12 Weeks					
The tentative list	all Departmental Elective (DE3) courses are included in of courses which the students can opt from NPTEL platf (These DE course will be run through SWAYAM/NP ⁻	form under DE4 category			
To prepare the sylla he flexible curricu	abi of Mandatory Course (MC) titled "Intellectual Property lum <i>ared & recommended by Institution Level Committee/Acad</i>				
To prepare and rec	ommend the Experiment list/ Lab manual for Laboratory Co	ourses to be offered in VII semester			
The list of experim Semester are as bel	ents for laboratory courses (i) Control System (ii) Electrica	I Drives and to be offered in VII			
	Control System Lab				
Experiment. 1	Introduction to MATLAB: control system toolbox.				
Experiment. 2	Obtain the Operational Characteristics of real time Air Ter				
Experiment. 3	Obtain the operational characteristics of nonlinear element				
Experiment. 4	To find the error voltage generated for input DC voltages	using potentiometer error detector.			
Experiment. 5	To Plot the frequency domain characteristics of the lead lag process.				
Experiment. 6	To design and analyse an electronic PID controller for a closed loop control system.				
Experiment. 7	To improve the performance of the closed loop control system with PI controller.				
Experiment. 8	To observe and analyse the plant dynamic response using	process reaction curve method.			
Experiment. 9 a) Plot step response of a given TF and system in state-space. Take different value damping ratio ζ and natural undamped frequency w_n .					
	b) Plot ramp response of a given TF and system in state-s				
Experiment. 10	Plot step response and obtain the time response specification	ations for given 2nd order system.			
Electrical Drives Lab					
Experiment. 1	To perform speed Control of DC shunt motor using single phase Semi- converter				
Experiment. 2	Perform the operation of single phase full wave control	olled rectifier with DC motor load			
Experiment. 3	Perform and analyze the Non-circulating current mode	of three phase dual converter			
Experiment. 4	To perform and analyze the Circulating current mode	of three phase dual converter			
Experiment. 5	To perform the V/f control of 3-phase Induction Motor (VSI).	r using Voltage Source Inverter			
Experiment. 6	Perform and analyze the Open loop speed control of DC Motor using chopper in all four quadrants.				
Experiment. 7	To operate and perform microcontroller (DSP) based VSI for speed control of 3-phase Induction Motor.				
Experiment. 8	To perform Speed control of Induction Motor using si	ngle phase SCR based regulator			
Experiment. 9	To perform Speed control of Three phase motor using Three phase SCR based regulator				
Experiment. 10	Determination of performance and characteristic of sing with $R - load$.	gle phase SCR full bridge inverter			

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	The Lab manuals for above laboratory courses to be offered in VII Semester under the flexible curriculum were discussed & finalized. (Annexure-VII A and Annexure-VII B)				
Item	To review the 'Question Paper Analysis' (of mid/end semester examination) conducted for Jan-June 2019 Session				
EE 8:	[On the basis of COs and other parameters separately]				
	The 'Question Paper Analysis' (of mid/end semester examination) conducted for Jan-June 2019 Session were Reviewed and discussed(Annexure-VIII)				
Item	To identify gaps in CO attainment levels for Jan-June 2019 semester and propose corrective measures for				
EE 9:	improvement.				
L	The gaps in CO attainment levels for Jan-June 2019 session were reviewed and corrective measures ar suggested. (Annexure-IX)				
Item	To propose and recommend the panel of examiners (UG & PG Level) for conducting practical examinations.				
EE 10:	The panel of examiners (UG & PG Level) for conducting practical examination is prepared & annexed a Annexure-X.				
Item EE 11:	To finalize the 'Collaborative Course' to be offered in VI semester (under DE Category) which is to be run jointly with industry person				
	One Industry collaborative course "Industrial Automation" is proposed for inclusion in VI Semester is prepared & annexed at Annexure-XI.				
Item	Curricula feedback from various stakeholders, its analysis and impact				
EE 12:	The feedbacks from various stakeholders on Curricula were taken, analyzed and impact was reviewed an				
Item	corrective measures are suggested /implemented. (Annexure-XII) Any other matters				
EE 13:					
	 (i)The syllabi of two departmental core courses to be offered under the flexible curriculum were discussed & modified. (Power System-I 130404 and Power Electronics 130504). (Annexure-XIII) (ii) As suggested, Utilization & Traction subject will be included as Open category in VII sem. 				
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The meeting ended with	h vote of thanks.			
Punjan	GE tother	3	hysteland	
Prof. Punjan Dohare Asst. Professor	Prof. G.K. Naveen Kumar Asst. Professor	Prof. R.K. Bansal Asst. Professor	Prof. Jyoti Tomar Asst. Professor	
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Dr. Vikram Asst. Professor	Prof. Bhavna Rathore and Asst. Professor	Prof. Avinash Sharma Asst. Professor	Prof. Neha Jadon Asst. Professor	
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Prof. Nipun Gupta Asst. Professor	Prof. Shallendra Pratap Asst. Professor	Prof. Sanjay Kulshreshtha Asst. Professor	Prof. Gunjan Rathore Asst. Professor	
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Prof. Rahul Sagwal Asst. Professor	Prof. Saurabh Kumar Asst. Professor	Prof. Neha Para Asst. Professor	Prof. Tarun Shrivastava Asst. Professor	
Shweter	Mangk	on leave	Vish 23.11-19	
Prof. Shweta Kumari Asst. Professor	Prof. Manoj Kumar Asst. Professor	Prof. Aprajita Kumari Asst. Professor	Prof. Vishal Chaudhary Asst. Professor	
Gumy	Cont	Dr.	ROY	
Prof. Praveen Bansal Asst. Professor	Dr. Vijay Bhuria Asst. Professor	Dr. H. Singh Asst. Professor	Prof. R. Narvey Asst. Professor	
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Dr. Shishir Dixit Asso. Professor	Dr. H.M. Dubey Asso. Professor	Prof. A. Patra Asso. Professor	Dr. S. Wadhwani Professor	
Dwodun 23:11:19	Present on 22/11/19	JOW	(191, 23.11.10)	
Dr. A.K. Wadhwani Professor	Er. Asutosh Chincholikar, CEO, Smart Control India Ltd. Gwalior	Er Durgesh Tripathi, Sr. Executive (Engg. Service), Godrej Industry, Malanpur	Er. Dileep Dixit, DGM,NTPC,Delhi	
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Dr. Laxmi S Prof. & Head, EED		Dr. Manjaree Pandit Professor EED,MITS Gwalior		
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