



Minutes of Meeting
B.O.S. for B.Tech. Automobile Engineering

Date: 28/08/2017		Meeting No: 02	
Start Time: 10.00 AM		End Time: 12:30 PM	
Total Time: 2.30 Hours			
Presented by: Prof. Nikhil Chotai			
Agenda – 1			
Consideration of confirmation of minutes of the previous meeting held on 13/06/2016.			
Resolution	<ul style="list-style-type: none"> Minutes of the previous meeting held on 13/06/2016 are considered and More focus is given to the practical in line of a better understanding of the theory Pure practical subjects like Manufacturing Process -I (MP-I) and Manufacturing Process -II (MP-II) are taught in the workshop to enhance the student hands-on practice. 		
Agenda – 2			
Review of Syllabus contents proposed for 3rd and 4th Semester			
Resolution	<ul style="list-style-type: none"> Curriculum structure of automobile engineering must align with mechanical engineering The syllabus of semesters 3 & 4 is drafted created with reference to model curriculum of AICTE which includes General Basic science course - Numerical analysis Humanities and Social Sciences & Management Courses - Professional ethics. As well as Engineering core courses such as Fundamental of machine design, Kinematics of machine, MP-1, Engineering thermodynamics, MDID, MSM. The final draft is presented in the meeting and approved with minor modifications by all members of the BOS. 		
Agenda – 3			
Feedback from students, faculties and employers			
Resolution	<ol style="list-style-type: none"> Students <ul style="list-style-type: none"> Suggested adding CAD software- Already implemented in the course (01ME0401) Suggested project-based learning – Planned to cover in the upcoming semester Faculty <ul style="list-style-type: none"> Practical-oriented subject taught in laboratories – MP-I and MP-II Subject fully covered in the workshop. Employer 		






	<ul style="list-style-type: none">○ Suggested to add advanced programming language – Under Consideration <p>Based on over all Teacher, Industrial and student feedback following courses are also included in curriculum</p> <ul style="list-style-type: none">● Project based course - Human centric design approach, Design thinking and problem-solving skill
Agenda – 4	Review on Value added course
	<ul style="list-style-type: none">● As per previous BOS members feedback value added courses improve students' confidence and professionalism and external skills
Agenda – 5	Review of Course outcome attainment
	<ul style="list-style-type: none">● The Course Outcome Attainment for the previous year was slightly less than the target set, Since University is in its nascent stage and students are not converge with the evaluation system. Therefore, out of all CO, 60% were attained as per the target.● Reasons could be first time courses implementation; efforts will be made to improve the attainment.● The next attainment target is 55%.
Agenda – 6	Feedback from Members of Board of Studies
Resolution	<ul style="list-style-type: none">● Design Engineering course (6 Credit) must be added to the curriculum as it is going to be mandatory by UGC in coming future.● The topic of hybrid electric vehicle must be blended with subject content of Automobile engine if possible in future to keep the subject in line with the latest trends in industry.● It is advised to swap ET & FM in 3rd and 4th Semester.


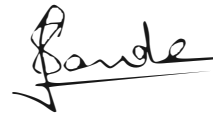



Date: 28/08/2017

Meeting Attended By: External Experts

1. Mr. Sandip Hazra 
2. Dr Puneet Tandon 
3. Dr Leenus Martin 

Meeting Attended By: Marwadi University

1. Prof. Nikhil Chotai 
2. Dr Sarang Pande 
3. Prof. Nikunj Rachch 



Bachelor of Technology Automobile Engineering

B.Tech Teaching and Examination Scheme

B. Tech. Year II, Semester III							Evaluation Scheme					
Subject code	Subject Name	CBCS	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01CI0301	MOS	ES-PC	4	0	2	5	50	30	20	25	25	150
01MA0301	Applied differential equations	BS-UC	4	2	0	5	50	30	20	25	25	150
01ME0301	Fluid Mechanics	ES-PC	3	0	2	4	50	30	20	25	25	150
01ME0302	Kinematics of Machines	ES-PC	4	0	2	5	50	30	20	25	25	150
01ME0303	Manufacturing Processes I	ES-PC	3	0	2	4	50	30	20	25	25	150
01CR0302	Professional Ethics	GN-UC	1	0	0	1	0	0	0	50	50	100
Total			19	2	8	24	250	150	100	175	175	850
B. Tech. Year II, Semester IV							Evaluation Scheme					
Subject code	Subject Name	CBCS	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01MA0201	Numerical Analysis	BS-IE	4	2	-	5	50	30	20	25	25	150
01ME0401	Machine Design & Industrial Drafting	ES-PC	4	-	2	5	50	30	20	25	25	150
01ME0402	Manufacturing Processes II	ES-PC	3	-	2	4	50	30	20	25	25	150
01ME0403	Material Science and Metallurgy	ES-PC	3	-	2	4	50	30	20	25	25	150
01ME0404	Engineering Thermodynamics	ES-PC	4	2	-	5	50	30	20	25	25	150
Total			18	4	6	23	250	150	100	125	125	750

Category	Credit
BS	5
PC	18
UC	2

Category	Credit
BS	5
PC	18
UC	1




Minutes of Meeting
B.O.S. for B.Tech. Automobile Engineering

Date: 29/05/2018		Meeting No: 03	
Start Time: 10:00 AM	End Time: 01:00 PM	Total Time: 3:00 Hours	
Presented by	Prof. Nikhil Chotai		
Agenda – 1	Review of Curriculum structure and Course outcome of Automobile Engineering		
Resolution	<ul style="list-style-type: none"> ● Syllabus and CO for 3rd year subjects are discussed with BOS committee and approval was taken from the committee (Annexure – 1) ● The BOS committee suggested changing a few topics in Fluid mechanics and Manufacturing process- I subject. ● Based on discussion with BOS committee with reference to model curriculum of difference University courses, core and elective subject are included in the 3rd year curriculum. ● Based on student feedback, Project based course - Reverse engineering and Design engineering is added. ● From the feedback received from the industry such as Tata Motors and Automotive Service canters Professional elective courses - Alternative Fuels and Power Systems, Automobile Refrigeration & Air conditioning, etc. are designed in curriculum. 		
Agenda – 2	Review and Revision of syllabus		
Resolution	<ul style="list-style-type: none"> ● The syllabus of Semester 5 and Semester 6 was discussed and approved by BOS committee. ● Fundamental of machine design is added in 3rd Sem and Mechanics of solid subject is removed. ● Mathematics-I and mathematics-II are replaced by Differential and Integral Calculus and Matrix algebra and vector calculus ● Courses added Design Thinking and Problem-Solving Skills and Huan Centric Design Approach in 3rd and 4th semester. 		
Agenda – 3	Addition of Value-added course in curriculum for skill development and increase the employability		
Resolution	<ul style="list-style-type: none"> ● Based on feedback received with various stakeholder to improve the industry-oriented skill and employability of students, value added course such as MUJCAL, Electric, ECU based vehicle testing and Pneumatic: Hands-on course is proposed and approved for 3rd and 4th semester students. 		





Agenda – 4	Industry interaction
Resolution	<ul style="list-style-type: none"> • Various industry person and experts from various fields are invited to give expert talk which helps the study to do interaction with industry person and get the knowledge of latest process and technology used in industry and standard practice followed in various industry
Agenda - 5	Review of Course outcome attainment
	<ul style="list-style-type: none"> • The CO attainment is lower than expected. Reasons could be first time courses implementation; student not familiar to exam patent. • The next attainment target is 55%.
Agenda – 6	Any special points/ advise by members of Board of Studies
Resolution	<ul style="list-style-type: none"> • The BOS committee suggested introducing a minor group. • It was suggested to have a minor in the field of Electric vehicle, Vehicle chasses and body design and Thermal Engineering.

Date: 29/05/2018

Meeting attended by: External Experts

1. Mr. Sandip Hazra 
2. Dr Puneet Tandon 
3. Dr. Leenus Martin 

Meeting Attended by: Marwadi University

1. Dr. Sarang Pande 
2. Dr. Nikunj Rachchh 
3. Dr. Amit Sata 
4. Prof. Nikhil Chotai 

Civil / Mechanical / Chemical / Automobile / Environmental
B.Tech. Draft Teaching and Examination Scheme Semester I & II

B. Tech. Year I, Sem I							Evaluation Scheme					
Subject Code	Subject Name	Category	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01MA1101	Differential and Integral Calculus	BS-UC	4	2	0	5	50	30	20	25	25	150
01CI0101	Elements of Civil Engineering	ES-UC	3	0	2	4	50	30	20	25	25	150
01ME0101	Elements of Mechanical Engineering	ES-UC	3	0	2	4	50	30	20	25	25	150
01SL0102 / 01SL0103	Reading & Writing for Technology / Speaking & Presentation Skills	GN-UE	2	0	0	2	0	30	20	25	25	100
01GS0101 / 01GS0102	Physics / Chemistry	BS-UC	3	0	2	4	50	30	20	25	25	150
01EN0101	Basics of Environmental Studies	ES-UC	2	0	0	2	50	30	20	0	0	100
01CR0102	Value Education	GN-UC	2	0	0	2	50	30	20	0	0	100
	Total	27	19	2	6	23	300	210	140	125	125	900
B. Tech. Year I, Sem II							Evaluation Scheme					
Subject Code	Subject Name	Category	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01MA1151	Matrix algebra and vector calculus	BS-UC	4	2	0	5	50	30	20	25	25	150
01CE0101	Computer Programming	ES-UC	3	0	2	4	50	30	20	25	25	150
01ME0102	Engineering Graphics	ES-UC	4	0	4	6	50	30	20	25	25	150
01EE0103	Basic Electrical and Electronics Engineering	ES-UC	3	0	2	4	50	30	20	25	25	150
01ME0104	Mechanical Workshop	ES-UC	0	0	2	1	0	0	0	0	50	50
01PE0101	Physical Education/Sports/Yoga	NCC	0	0	2	0	0	0	0	0	0	0
	Total	28	14	2	12	20	200	120	80	100	150	650



Bachelor of Technology
Mechanical/Automobile Engineering

B.Tech Teaching and Examination Scheme

B. Tech. Year II, Semester III							Evaluation Scheme					
Subject code	Subject Name	CBCS	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01ME0305	Fundamentals of Machine Design	ES-PC	4	0	2	5	50	30	20	25	25	150
01MA0301	Applied differential equations	BS-UC	4	2	0	5	50	30	20	25	25	150
01ME1301	Fluid Mechanics	ES-PC	3	0	2	4	50	30	20	25	25	150
01ME0302	Kinematics of Machines	ES-PC	4	0	2	5	50	30	20	25	25	150
01ME1303	Manufacturing Processes I	ES-PC	3	0	2	4	50	30	20	25	25	150
01CR0302	Professional Ethics	GN-UC	1	0	0	1	0	0	0	50	50	100
01ME0304	Design Thinking and Problem Solving Skills	EE	0	0	2	1	0	0	0	25	25	50
Total		31	19	2	10	25	250	150	100	200	200	900

B. Tech. Year II, Semester IV							Evaluation Scheme					
Subject code	Subject Name	CBCS	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Ma		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01MA0201	Numerical Analysis	BS-IE	4	2	-	5	50	30	20	25	25	150
01ME1401	Machine Design & Industrial Drafting	ES-PC	4	-	2	5	50	30	20	25	25	150
01ME1402	Manufacturing Processes II	ES-PC	3	-	2	4	50	30	20	25	25	150
01ME1403	Material Science and Metallurgy	ES-PC	3	-	2	4	50	30	20	25	25	150
01ME0404	Engineering Thermodynamics	ES-PC	4	2	-	5	50	30	20	25	25	150
01ME0405	Huan Centric Design Approach	EE	0	-	2	1	0	0	0	25	25	50
Total		30	18	4	8	24	250	150	100	150	150	800

Category	Credit
BS	5
PC	18
UC	2

Category	Credit
BS	5
PC	18
UC	1





Bachelor of Technology

Automobile Engineering

B.Tech Teaching and Examination Scheme Semester V & VI

B. Tech. Year III, Semester V								Evaluation Scheme					
Subject code	Subject Name	Type	CBCS	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
				Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01AE0501	Automotive Electricals and Electronics (Programme Core 15)	Core	ES-PC	3	-	2	4	50	30	20	25	25	150
01AE0502	Automobile System and Transmission (Programme Core 10)	Core	ES-PC	4	-	2	5	50	30	20	25	25	150
01AE0503	Automobile Engines (Programme Core 11)	Core	ES-PC	3	-	2	4	50	30	20	25	25	150
01AE0504	Automobile Component Design (Programme core 12)	Core	ES-PC	4	-	2	5	50	30	20	25	25	150
01AE050*	Prog.Ele 1 (Programme Elective 1)	Core	ES-PE	3	-	2	4	50	30	20	25	25	150
01AE0507	Reverse Engineering	Open Elective	EE	0	-	2	1	0	0	0	25	25	50
Total				17	0	12	23	250	150	100	150	150	800

*Programme Elective 1	Alternative Fuels and Power Systems	Hydraulic and Pneumatic system
Subject code	01AE0505	01AE0506

B. Tech. Year III, Semester VI								Evaluation Scheme					
Subject code	Subject Name	Type	CBCS	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
				Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01AE0601	Automotive Chassis and Body Engineering (Programme Core 13)	Core	ES-PC	4	-	0	4	50	30	20	0	0	100
01AE0602	Automobile System Design (Programme Core 14)	Core	ES-PC	4	-	2	5	50	30	20	25	25	150
01AE0605	Dynamics of Machine (Programme Core 9)	Core	ES-PC	4	-	2	5	50	30	20	25	25	150
01AE0603	Vehicle dynamics (Programme Core 16)	Core	ES-PC	4	-	2	5	50	30	20	25	25	150
01AE060*	Prog.Ele 2 (Programme Elective 2)	Core	ES-PE	4	0	2	5	50	30	20	25	25	150
01AE0610	Design Engineering and Project Management	Open Elective	EE	0	-	2	1	0	0	0	25	25	50
Total				20	0	10	25	250	150	100	125	125	750

*Programme Elective 2	Heat and Mass Transfer	Automobile Refrigeration & Air conditioning
Subject code	01AE0606	01AE0604



Minutes of Meeting
B.O.S. for B.Tech. Automobile Engineering

Date: 27/05/2019		Meeting No: 04	
Start Time: 10:00 AM		End Time: 01:00 AM	
		Total Time: 3:00 Hours	
Presented by		Prof. Nikhil Chotal	
Agenda – 1			
To finalize curriculum structure of B.Tech Automobile engineering			
Resolution	<ul style="list-style-type: none"> Syllabus and CO for 4th year subjects are discussed with BOS committee and approval was taken from the committee (Annexure – 1) Experts suggested including automobile diagnoses and electric vehicle to be included in the curriculum. Based on discussion with BOS committee and with reference to model curriculum of AICTE and with model curriculum of various university, following courses are designed in the 4th year curriculum Project based course - Project-I and II Professional elective courses related to design, manufacturing and testing. 		
Agenda – 2			
Review of CO attainment			
Resolution	<ul style="list-style-type: none"> The attainment is improved as compared to previous year. More efforts will be done to improve result further. The next attainment target is 55%. 		
Agenda – 3			
Proposed Attainment for CO, PO and PSO			
Resolution	<ul style="list-style-type: none"> It was decided by BOS member that overall attainment of CO, PO and PSO should be at least 55% 		
Agenda – 4			
Introduction of course for skill development and employability			
Resolution	<ul style="list-style-type: none"> Value added course related to Computerise manufacturing are added as per the suggestion and feedback of student and employer. 		
Agenda – 5			
Feedback of Teacher, student and professional bodies			
Resolution	<ul style="list-style-type: none"> Feedback received from students, teachers and various professional bodies such as ASME, SAE discussion was made to host the state/national/international level event to provide a platform where they can innovate, compete, interact with various professional organizations as well as industry. 		
Agenda – 6			
Any special points/ advise by members of Board of Studies			
Resolution	<ul style="list-style-type: none"> Experts suggested to include specific subject related link of NPTEL course. 		



	<ul style="list-style-type: none">• Expert suggested to include hands on practice on vehicle diagnoses and fault finding by innovative teaching learning method -peer learning• Expert suggested to increase weightage of marks for project-1 and project-2 in semester-7 and semester-8

Date: 27/05/2019

Meeting attended By: External Experts

1. Mr Sandip Hazra



2. Dr Puneet Tandon



3. Dr. Leenus Martin

**Meeting Attended By: Marwadi University**

1. Prof. Nikhil Chotai



2. Dr. Sarang Pande



3. Dr. Nikunj Rachchh



5. Dr. Amit Sata





Bachelor of Technology

Automobile Engineering

B.Tech Teaching and Examination Scheme Semester VII & VIII

B. Tech. Year IV, Semester VII							Evaluation Scheme					
Subject code	Subject Name	CBCS	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01AE07**	Prog.Elec.3	ES-P.E	4	-	2	5	50	30	20	25	25	150
01AE07**	Prog.Elec.4	ES-P.E	4	-	2	5	50	30	20	25	25	150
01AE0701	Project-I	ES-P.C	-	-	12	6	--	--	50	25	25	100
	Total	32	8	0	16	16	100	60	90	75	75	400

B. Tech. Year IV, Semester VIII							Evaluation Scheme					
Subject code	Subject Name	CBCS	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01AE08**	Prog.Elec.5	ES-P.E	4	-	2	5	50	30	20	25	25	150
01AE08**	Prog.Elec.6	ES-P.E	4	-	2	5	50	30	20	25	25	150
01AE0801	Project-II	ES-PC	-	-	12	6	--	--	50	25	25	100
	Total	32	8	0	16	16	100	60	90	75	75	400

Elective Group 1		Elective Group 2		Elective Group 3	
Design & Manufacturing Engineering		Automobile Engineering		Vehicle Testing & Maintenance	
01AE0711	Computer Aided Design	01AE0721	Automobile Testing	01AE0731	Vehicle Testing
01AE0712	Industrial Management and Operation Research	01AE0722	Automotive and Combustion Engine Technology	01AE0732	Automobile Electrical System Testing
01AE0811	Vehicle Modeling and Analysis	01AE0821	Special Purpose Vehicle	01AE0831	Vehicle Maintenance & Garage Practice
01AE0812	Advance Manufacturing Processes	01AE0822	Electrical Vehicles	01AE0832	Vehicle System Diagnostics and advance technology



Minutes of Meeting
B.O.S. for B.Tech. Automobile Engineering

Date: 01/04/2021		Meeting No: 06 (online mode)	
Start Time: 11:00 AM		End Time: 12:00 PM	
Presented by		Dr. Nikhil Chotal	
Agenda – 1		Review of Mechanical Engineering Department for Academic Year 2020-21	
Resolution	<ul style="list-style-type: none"> The Theory classes and lab with demonstration of experiments online were conducted during the last one year because of the pandemic. The teaching & learning process in online mode during the pandemic was appreciated. 		
Agenda – 2		Teaching Scheme of Semester-I & Semester-II as per new UGC/AICTE Guidelines	
Resolution	<ul style="list-style-type: none"> Course credits for engineering courses need to be revised to 160 credits as per the guidelines provided by UGC/AICTE. Semester - I and Semester - II teaching schemes are redesigned as per revised AICTE guidelines. Teaching hours for students can be kept around 27 hours per week. Subjects with end semester exams should not be more than 5 per semester. The contact hours for laboratory sessions can be increased to make students proficient for industry. Revision in syllabus of 01ME1101 - Elements of Mechanical Engineering, 01ME1102 Engineering Graphics and 01ME1104 - Mechanical Workshop is approved. NCC is introduced with a teaching scheme of 1 hour theory and 2 hours laboratory for 2 credit courses in Semester - I and Semester - II. The student who opts for NCC will be given exemption from below mentioned courses. <ul style="list-style-type: none"> Value Education - Semester - I Indian Constitution - Semester - I Physical Education/Sports/Yoga - Semester - I Professional Ethics – Semester - II 		
Agenda - 3		Proposed Attainment for CO, PO and PSO	
Resolution	<ul style="list-style-type: none"> The course outcome attainment achieved 79 % as compared to target of 50 % for 1st and 2nd semester. The course outcome attainment achieved 87 % as compared to target of 50 % for 3rd and 4th semester. 		



	<ul style="list-style-type: none">• The course outcome attainment achieved 100 % as compared to target of 50 % for 5th and 6th semester.• The course outcome attainment achieved 100 % as compared to target of 50 % for 7th and 8th semester.• The attainment is improved and achieved in all semesters. The next attainment target is 60%.
Agenda – 4	Introducing Creativity, Problem Solving and Innovation as a University Elective Subject
Resolution	<ul style="list-style-type: none">• Creativity, Problem Solving and Innovation subject is to be offered in 4th, 6th or 8th semester where interested students can choose as university elective course for 2 credits.
Agenda – 5	Introduction of Indian Constitution Subject
Resolution	<ul style="list-style-type: none">• Indian Constitution subject is introduced with a teaching scheme of 1 hour theory as mandatory course as per AICTE guidelines
Agenda – 6	Feedback from Members of Board of Studies
Resolution	<ul style="list-style-type: none">• Introducing NCC / NSS as a subject in the curriculum is appreciated.• The students can have flexibility to earn more credits during the semester based on the subjects offered.• Experts suggested to make it mandatory for all students to visit and prepare report of 15 industries of various fields of Mechanical Engineering before completion of his/her graduation.
Note: Meeting was scheduled virtually on Google Meet.	



Date: 01/04/2021

Meeting attended By: External Experts

1. Mr. Sandip Hazra

2. Dr Puneet Tandon

3. Dr Leenus Martin

Meeting Attended By: Marwadi University

1. Dr. Sarang Pande

2. Dr. Nikunj Rachhh

3. Dr Nikhil Chotai

4. Dr. Amit Sata



Marwadi University

Automobile

B.Tech. Draft Teaching and Examination Scheme Semester I & II

B. Tech. Year I, Sem I								Evaluation Scheme					
Subject Code	Subject Name	Category		Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		AICTE	CBCS	Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01MA2101	Differential and Integral Calculus	BSC	BSC-UC	3	2	0	5	50	30	20	25	25	150
01CI1101	Elements of Civil Engineering	ESC	ES-UC	3	0	2	4	50	30	20	25	25	150
01ME1101	Elements of Mechanical Engineering	ESC	ES-UC	3	0	2	4	50	30	20	25	25	150
01SL0102 / 01SL0103	Reading & Writing for Technology / Speaking & Presentation Skills	HSMC	HSMC-UE	2	0	0	2	0	30	20	25	25	100
01GS2101	Physics	BSC	BS-UC	3	0	2	4	50	30	20	25	25	150
01EN1101	Basics of Environmental Studies	ESC	BS Mandatory	2	0	0	0	50	30	20	0	0	100
01CR1103	Value Education	HSMC	HSMC Mandatory course	2	0	0	0	0	0	0	50	50	100
01AU0001	NATIONAL CADET CORPS-1		Audit Course	1	0	2	2	0	0	0	0	0	0
01GS0103	Indian Constitution		HSMC Mandatory course	1	0	0	0	0	0	0	0	0	0
	Total	28	28	18	2	8	19	250	180	120	175/125	175/125	900/800



Marwadi University

Automobile

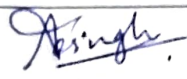





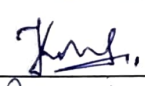
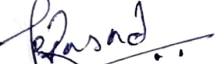
B.Tech. Draft Teaching and Examination Scheme Semester I & II

B. Tech. Year I, Sem II								Evaluation Scheme					
Subject Code	Subject Name	Category		Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		AICTE	CBCS	Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
01MA0103	Matrix algebra and vector space	BSC	BS-UC	3	2	0	5	50	30	20	25	25	150
01CE1101	Computer Programming	ESC	ES-UC	4	0	2	5	50	30	20	25	25	150
01ME1102	Engineering Graphics	ESC	ES-UC	3	0	4	5	50	30	20	25	25	150
01EE1101	Basic Electrical and Electronics Engineering	ESC	ES-UC	4	0	2	5	50	30	20	25	25	150
01ME1104	Mechanical Workshop	ESC	ES-UC	0	0	2	1	0	0	0	0	50	50
01PY0101	Physical Education/Sports/Yoga	MC	HSMC- NCC	0	0	2	0	0	0	0	0	0	0
01CR0106	Verbal Ability - 2	HSMC	HSMC	1	0	0	0	50	0	0	0	50	100
01AU0002	NATIONAL CADET CORPS-2		Audit Course	1	0	2	2	0	0	0	0	0	0
	Total	29		15	2	12	21	250	120	80	100	200	750

Minutes of Meeting
BOS for B. Sc. Chemistry and M. Sc. Chemistry

Date: 15/11/2016		Meeting No: 02	
Start Time: 03:00 PM			
Presented by		Dr. Amarpreetsinh Arora	
Agenda - 1	Introduction of new course Environmental Studies in B. Sc. -Sem 1		
Resolution	<p>Based on feedback received from the faculty, environment awareness and sustainability must be introduced to the graduates at initial stage and so the subject Environmental Studies has been incorporated in the curriculum. The need has been considered as the awareness of Environmental programmed included in UGC guidelines too.</p> <p>The first agenda of the meeting was presented with detailed discussion of syllabus of the course Environmental Studies. All the experts agreed and appreciated the efforts for the new course. The comments and suggestions given by the experts were incorporated in the syllabus and teaching scheme as per Annexure I.</p>		
Agenda - 2	Introduction of new elective courses for Sem 1 and Sem 2 in B. Sc. programme		
Resolution	<p>Based on feedback from students and faculties, the skill development courses should be added to the programme. The elective courses are needed for employment, entrepreneurship and skill development. The benefit of these courses was also to develop self-confidence and interaction capability in the field of job.</p> <p>All the experts agreed and appreciated the efforts for the new elective course. The experts suggested the following points related to the new syllabus of the subjects:</p> <ul style="list-style-type: none"> • Introduction of Reading and Writing for Science and Speaking and Presentation Skills in Sem 1, B. Sc. and • Introduction of English through Fiction and English through Movies Fiction in Sem 2, B. Sc. (Annexure II) 		
Agenda - 3	Revision of Physics-I and Physics-II in B. Sc.		
Resolution	<p>As per suggestions from faculties and students, the contents of subjects have been proposed for Revision. The earlier syllabus contents were not according to employment requirement in the field of science. Therefore, the new revised contents added for benefit of multidisciplinary aspects. All the experts agreed for the Revision of subject Physics for both the semesters 1 and 2. They agreed to change the whole contents of the syllabus (Annexure</p>		

	III)
Agenda -4	Removal of Industrial Chemistry-I from M. Sc. Sem 1
Resolution	<p>Students feedback has been considered for removal of the Industrial Chemistry course. As other subjects of M. Sc. course covered the part of industrial practice in the syllabus. In place of this subject, revision and inclusion of other subjects were focused.</p> <p>All the experts agreed for it to remove the subject from Sem 1, M. Sc. The comments and suggestions given by the experts were incorporated in the syllabus as Per Annexure IV and will be effective from 2017-18.</p>
Agenda-5	Revision of Organic Chemistry-I and Analytical Chemistry-I
Resolution	<p>On the basis of feedback received from the faculties, revision for Organic Chemistry-I and Analytical Chemistry-I has been taken into account. The employment, and entrepreneurship were the cause of changes.</p> <p>Revision has been agreed by all the experts for both the subject as per Annexure -V.</p>
Agenda -6	Course attainment need to be look for implementation of outcome based education
Resolution	Experts agreed with this agenda and suggested that the course attainment will be calculated for B. Sc. and M. Sc. Chemistry students. 50% attainment will be set as initial.

Sr.	Member type	Name	Signature
1	Internal Member (Chairman)	Dr. Amarpreet Singh Arora	
2	Internal Member	Dr. Vicky Jain	
3	Internal Member	Dr. Hetal Jebaliya	
4	Internal Member	Dr. Mayank Mamtora	
5	Internal Member	Dr. Mihir Oza	
6	External Member	Prof. (Dr.) Anamik Shah	
7	External Member	Dr. Naval Kapuriya	
8	External Member	Dr. Kamlesh Prasad	



Bachelor of Science
Department of Chemistry
Teaching and Examination Scheme

Annexure I:

W.E.F. 2017-18

B. Sc. Year I (Semester-I)							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
02CY0101	CHEMISTRY –I	BS	4	0	2	5	50	30	20	25	25	150
02CY0102	FUNDAMENTAL CHEMISTRY - I	BS	4	0	2	5	50	30	20	25	25	150
02ES0131	ENVIRONMENTAL STUDIES	BS	3	0	2	4	50	30	20	25	25	150
02PY0132	PHYSICS –I	BS	4	0	2	5	50	30	20	25	25	150
02SL010X	ENGLISH (Elective)	BS	2	0	0	2	0	30	20	25	25	100
	Total		17	0	08	21	200	150	100	125	125	700

Subject Code	English Elective	Teaching Scheme (Hours per week)	Evaluation Scheme					Total Marks	
		Theory	ESE	IA	CSE	Viva	Term Work		
02SL0102	READING AND WRITING FOR SCIENCE	2 Hours		00	30	20	25	25	100
02SL0103	SPEAKING AND PRESENTATION SKILLS	2 Hours		00	30	20	25	25	100

Bachelor of Science
Department of Chemistry
Teaching and Examination Scheme

Annexure II:

W.E.F. 2017-18

B. Sc. Year I (Semester-I)							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
02CY0101	CHEMISTRY –I	BS	4	0	2	5	50	30	20	25	25	150
02CY0102	FUNDAMENTAL CHEMISTRY - I	BS	4	0	2	5	50	30	20	25	25	150
02ES0131	ENVIRONMENTAL STUDIES	BS	3	0	2	4	50	30	20	25	25	150
02PY0132	PHYSICS –I	BS	4	0	2	5	50	30	20	25	25	150
02SL010X	ENGLISH (Elective)	BS	2	0	0	2	0	30	20	25	25	100
	Total		17	0	08	21	200	150	100	125	125	700

Subject Code	English Elective	Teaching Scheme (Hours per week)	Evaluation Scheme					Total Marks	
		Theory	ESE	IA	CSE	Viva	Term Work		
02SL0102	READING AND WRITING FOR SCIENCE	2 Hours		00	30	20	25	25	100
02SL0103	SPEAKING AND PRESENTATION SKILLS	2 Hours		00	30	20	25	25	100

Teaching and Examination Scheme

W.E.F. 2017-18

B. Sc. Year I (Semester-II)
Evaluation Scheme

Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
02CY0151	CHEMISTRY –II	BS	4	0	2	5	50	30	20	25	25	150
02CY0152	FUNDAMENTAL CHEMISTRY –II	BS	4	0	2	5	50	30	20	25	25	150
02MA0181	CALCULUS AND STATISTICS	BS	4	2	0	5	50	30	20	25	25	150
02PY0182	PHYSICS –II	BS	4	0	2	5	50	30	20	25	25	150
02SL015X	ENGLISH (Elective)	BS	2	0	0	2	0	30	20	25	25	100
Total			18	2	6	22	200	150	100	125	125	700

Subject Code	English Elective	Teaching Scheme (Hours per week)	Evaluation Scheme					Total Marks
		Theory	ESE	IA	CSE	Viva	Term Work	
02SL0152	ENGLISH THROUGH FICTION	2 Hours	00	30	20	25	25	100
02SL0153	ENGLISH THROUGH MOVIES	2 Hours	00	30	20	25	25	100

Bachelor of Science
Department of Chemistry
Teaching and Examination Scheme

Annexure III:

W.E.F. 2017-18

B. Sc. Year I (Semester-I)							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
02CY0101	CHEMISTRY –I	BS	4	0	2	5	50	30	20	25	25	150
02CY0102	FUNDAMENTAL CHEMISTRY - I	BS	4	0	2	5	50	30	20	25	25	150
02ES0131	ENVIRONMENTAL STUDIES	BS	3	0	2	4	50	30	20	25	25	150
02PY0132	PHYSICS –I	BS	4	0	2	5	50	30	20	25	25	150
02SL010X	ENGLISH (Elective)	BS	2	0	0	2	0	30	20	25	25	100
	Total		17	0	08	21	200	150	100	125	125	700

Subject Code	English Elective	Teaching Scheme (Hours per week)	Evaluation Scheme					Total Marks
		Theory	ESE	IA	CSE	Viva	Term Work	
02SL0102	READING AND WRITING FOR SCIENCE	2 Hours	00	30	20	25	25	100
02SL0103	SPEAKING AND PRESENTATION SKILLS	2 Hours	00	30	20	25	25	100

Teaching and Examination Scheme

W.E.F. 2017-18

B. Sc. Year I (Semester-II)							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
02CY0151	CHEMISTRY –II	BS	4	0	2	5	50	30	20	25	25	150
02CY0152	FUNDAMENTAL CHEMISTRY –II	BS	4	0	2	5	50	30	20	25	25	150
02MA0181	CALCULUS AND STATISTICS	BS	4	2	0	5	50	30	20	25	25	150
02PY0182	PHYSICS –II	BS	4	0	2	5	50	30	20	25	25	150
02SL015X	ENGLISH (Elective)	BS	2	0	0	2	0	30	20	25	25	100
Total			18	2	6	22	200	150	100	125	125	700

Subject Code	English Elective	Teaching Scheme (Hours per week)	Evaluation Scheme					Total Marks
		Theory	ESE	IA	CSE	Viva	Term Work	
02SL0152	ENGLISH THROUGH FICTION	2 Hours	00	30	20	25	25	100
02SL0153	ENGLISH THROUGH MOVIES	2 Hours	00	30	20	25	25	100

Teaching and Examination Scheme

Annexure IV

W.E.F. 2017-18

M.Sc. Year I (Semester-I)							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
02CY0401	Physical Chemistry-I	BS	4	0	2	5	50	30	20	25	25	150
02CY1402	Inorganic Chemistry-I	BS	5	0	2	6	50	30	20	25	25	150
02CY1403	Organic Chemistry-I	BS	5	0	2	6	50	30	20	25	25	150
02CY1404	Analytical Chemistry-I	BS	5	0	2	6	50	30	20	25	25	150
	Total		19	0	08	23	200	120	80	100	100	600

Teaching and Examination Scheme

Annexure V

W.E.F. 2017-18

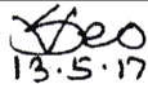






M.Sc. Year I (Semester-I)							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)	
02CY0401	Physical Chemistry-I	BS	4	0	2	5	50	30	20	25	25	150
02CY1402	Inorganic Chemistry-I	BS	5	0	2	6	50	30	20	25	25	150
02CY1403	Organic Chemistry-I	BS	5	0	2	6	50	30	20	25	25	150
02CY1404	Analytical Chemistry-I	BS	5	0	2	6	50	30	20	25	25	150
	Total		19	0	08	23	200	120	80	100	100	600

Minutes of Meeting

Date: 13/05/2017		Meeting No: 02	
Start Time: 10.30 AM	End Time: 02:30 PM	Total Time: 3 Hours	
Presented by	Dr. Tarak Vora		
Agenda – 1	Welcome of Board of Studies Member		
Resolutions	<ul style="list-style-type: none"> Dr. Tarak Vora, Professor & Head, Civil Engineering Department welcomed all the distinguished BoS Members. BoS Member: Dr. B. J. Shah, Principal, Government Engineering College, Modasa; BoS Member: Dr. S. V. Deo, Associate Professor, NIT, Raipur; BoS Member-Industry Expert: Er. Manish Doshi, Structural Consultant, Rajkot, BoS Introduction of invited BoS Member was given by Dr. Tarak Vora to all BoS members. Internal BoS Member: Dr. Ankur Bhogayata, Associate Professor & Head; Dr. Chirag Patel, Associate Professor. All the invited members were welcomed by all BoS Members. All the faculty members present in the BoS-02 were welcomed by Dr. Tarak Vora. 		
Agenda – 2	Appointment of Member Secretary		
Resolutions	Dr. Siddharth Shah was appointed as member secretary for the BoS.		
Agenda – 3	Confirmation of Minutes of Meeting and action taken report on decisions/suggestions of the previous BoS.		
Resolutions	The minutes of previous meeting no. 01 held on 06/06/2016 were already circulated to all members. Dr. B. J. Shah and Dr. S. V. Deo accept the minutes of meeting. Since there is no major comment from any member, the chairman requested to accept the minutes.		
Agenda – 4	Review of Civil Engineering Department for Academic Year 2016-17		
Resolutions	<ul style="list-style-type: none"> Dr. Ankur Bhogayata gave a brief presentation on various activities related to academics, teaching learning methodology, student participation in technical and non-technical events, students and faculty achievements during A. Y. 2016-17. Since B. Tech Civil Engineering program had started in A.Y 2016-17 so students have pass out from first year only. In the first year, courses are common for all branches of engineering and curriculum was designed in such a way that in all subjects students can learn 		

	practical approach with number of experimentations in labs and also improve their various skills.																																	
Agenda – 5	Teaching Scheme of B. Tech. in Civil Engineering and detailed syllabus of Sem-3 & Sem-4.																																	
Resolutions	<ul style="list-style-type: none"> Semester – 3 and Semester – 4 teaching schemes and detailed syllabus are presented and approved in BoS meeting with gross agreement of all member present. Teaching and evaluation scheme for second year is courses are finalized and reported for the final approval. Course structure for third and fourth year of B. Tech Civil Engineering Program was finalized and present in BoS. The course structure in terms of credits and academic level should be mapped with learning level according Bloom’s Taxonomy for all semesters. Introduction of Software Application in Civil Engineering (I to IV) is recommended in semester 3 to 6 which will be improve software skills of students. Following subjects are introduced in semester 3 and 4. <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Semester</th> <th>Subject Code</th> <th>Subject Title</th> </tr> </thead> <tbody> <tr> <td rowspan="7" style="text-align: center;">3</td> <td>01MA0201</td> <td>Engineering Maths-III</td> </tr> <tr> <td>01CI0301</td> <td>Mechanics of Solids</td> </tr> <tr> <td>01CI0302</td> <td>Building Planning & Drawing</td> </tr> <tr> <td>01CI0303</td> <td>Surveying</td> </tr> <tr> <td>01CI0304</td> <td>Fluid Mechanics</td> </tr> <tr> <td>01CI0305</td> <td>Software Applications in Civil Engineering-I</td> </tr> <tr> <td>01CR0301</td> <td>Career Readiness Programme</td> </tr> <tr> <td rowspan="7" style="text-align: center;">4</td> <td>01VE400</td> <td>Entrepreneurship & Engineering Ethics</td> </tr> <tr> <td>01CI0401</td> <td>Civil Engineering Materials & Construction</td> </tr> <tr> <td>01CI0402</td> <td>Structural Analysis-1</td> </tr> <tr> <td>01CI0403</td> <td>Basics of Geology & Geotechnical Engineering</td> </tr> <tr> <td>01CI0404</td> <td>Advanced Surveying</td> </tr> <tr> <td>01CI0405</td> <td>Concrete Technology</td> </tr> <tr> <td>01CI0406</td> <td>Software Applications in Civil Engineering-II</td> </tr> </tbody> </table>	Semester	Subject Code	Subject Title	3	01MA0201	Engineering Maths-III	01CI0301	Mechanics of Solids	01CI0302	Building Planning & Drawing	01CI0303	Surveying	01CI0304	Fluid Mechanics	01CI0305	Software Applications in Civil Engineering-I	01CR0301	Career Readiness Programme	4	01VE400	Entrepreneurship & Engineering Ethics	01CI0401	Civil Engineering Materials & Construction	01CI0402	Structural Analysis-1	01CI0403	Basics of Geology & Geotechnical Engineering	01CI0404	Advanced Surveying	01CI0405	Concrete Technology	01CI0406	Software Applications in Civil Engineering-II
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	01CI0405	Concrete Technology																																
	01CI0406	Software Applications in Civil Engineering-II																																
Agenda – 6	Discussion and approval of minor changes in syllabus.																																	
Resolutions	<ul style="list-style-type: none"> Skill based elective courses 1) Reading and Writing for Technology and 2) Speaking and Presentation skills are introduced in place of communication skill course in 1st year courses. 																																	

		Subject Code	Subject Title
		01SL0102	Reading and Writing for Technology
		01SL0103	Speaking and Presentation Skills
Agenda – 7	Discussion and approval of skill-based/ humanity-based courses in the coming year.		
Resolutions	<ul style="list-style-type: none"> In each semester humanity or skill based course are introduced viz. career readiness program, entrepreneurship engineering & ethics, business benchmark. 		
Agenda – 8	Discussion on feedback received from students, faculties, parents, alumni and employers regarding teaching-learning process in order to review and design the syllabus.		
Resolutions	<ul style="list-style-type: none"> Syllabus of A.Y 2016-17 have been discussed with the stakeholders of the department including student/faculty/employee/alumni/parents and necessary inputs are collected from them for academic provision in new semester courses. 		
Agenda – 9	Any other matter with the permission of the Chair.		
	<p>Course outcomes for all the courses of 1st and 2nd year, Program outcomes and Program-specific outcome was discussed in detail.</p> <p>The following highlights were discussed/appreciated by the members.</p> <ul style="list-style-type: none"> All course outcomes of each subject should map effectively with respective program outcomes and program-specific outcomes. First year Course attainment is less than 50% which is not achieved as per target attainment. Modification in teaching-learning process is suggested. 		
Note: Meeting was scheduled physically at MB062.			
Meeting Attended By: External Experts		Meeting Attended By: Marwadi University	
<ol style="list-style-type: none"> Dr. B. J. Shah Dr. S. V. Deo 		<ol style="list-style-type: none"> Dr. Tarak Vora Dr. Ankur Bhogayata Dr. Siddharth Shah Dr. Chirag Patel 	
Meeting Attended By: Industry Expert			
<ol style="list-style-type: none"> Er. Manish Doshi 			

Sr. No.	Name	Designation	Sign
1	Dr. Shirish V. Deo	Member – BOS	 13.5.17
2	Dr. B. J. Shah	Member – BOS	
3	Mr. Manish V. Doshi	Member – BOS	
4	Dr. Ankur Bhogayata	Member – BOS	
5	Dr. Tarak Vora	Member – BOS	
6	Dr. Siddharth Shah	Member – BOS	
7	Dr. Chiragbhai Patel	Member – BOS	

Minutes of Meeting

Date: 07/04/2018		Meeting No: 03	
Start Time: 10.30 AM	End Time: 01:30 PM	Total Time: 3 Hours	
Presented by	Dr. Tarak Vora		
Agenda – 1	Welcome of Board of Studies Member		
Resolutions	<ul style="list-style-type: none"> Dr. Tarak Vora, Professor & Head, Civil Engineering Department welcomed all the distinguished BoS Members. Introduction of invited BoS Member was given by Dr. Tarak Vora to all BoS members. <p>BoS Member: Dr. B. J. Shah, Principal, Government Engineering College, Modasa; BoS Member: Dr. S. V. Deo, Associate Professor, NIT, Raipur; BoS Member-Industry Expert: Er. Manish Doshi, Structural Consultant, Rajkot, BoS</p> <p>Invited BoS Member: Dr. A.K. Varma, Professor & Head, BVM Engineering College, V.V.Nagar; Dr. Yogesh Shah, Associate Professor, IITRAM, Ahmedabad</p> <p>Internal BoS Member: Dr. Ankur Bhogayata, Associate Professor & Head; Dr. Siddharth Shah, Professor & Head; Prof. Mazhar Dhankot, Assistant Professor</p> <ul style="list-style-type: none"> All the invited members were welcomed by all BoS Members. All the faculty members present in the BoS-03 were welcomed by Dr. Tarak Vora. 		
Agenda – 2	Confirmation of Minutes of Meeting and action taken report on decisions/suggestions of the previous BoS.		
Resolutions	The minutes of previous meeting no. 02 held on 13/05/2017 were already circulated to all members. Dr. B. J. Shah and Dr. S. V. Deo accept the minutes of meeting. Since there is no major comment from any member, the chairman requested to accept the minutes.		
Agenda – 3	Review of Civil Engineering Department for Academic Year 2017-18		
Resolutions	<ul style="list-style-type: none"> Dr. Ankur Bhogayata gave a brief presentation on various departmental activities related to academic performance of student, student and faculty achievements, participation in FDP/STTP/Workshop and other national level technical and non-technical events A. Y. 2017-18. MU-Fest event is organized in year 2017-18. Majority students have participated in various technical and non-technical events. 		





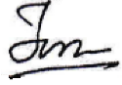


Agenda – 4	Teaching Scheme of B. Tech. in Civil Engineering and detailed syllabus of Sem-5 & Sem-6.																																									
Resolutions	<ul style="list-style-type: none"> • Semester – 5 and Semester – 6 teaching schemes and detailed syllabus are presented and approved in BoS meeting. • Teaching and examination scheme for the third year is courses are finalized and reported for the final approval. • Course structure for the fourth year of the B. Tech Civil Engineering Program was finalized and presented in BoS. • Introduction of mini project named Project-based community services (I to IV) is introduced in semester 3 to 6. • Department professional electives are offered in semester 5 as per different specializations. • Following subjects are introduced in semester 5 and 6. 																																									
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Agenda – 5	Discussion and approval of M. Tech. in Civil Engineering teaching scheme and detailed syllabus of Sem-I & Sem-II.																																									
Resolutions	<ul style="list-style-type: none"> • New Program M.Tech in Civil Engineering with Specialization in Structural Engineering, Transportation Engineering and Geotechnical Engineering is introduced in this Academic year. 																																									

- Teaching schemes for M. tech Civil Engineering is proposed & detailed syllabus of 1st and 2nd semester are designed.
- Departmental electives are given in all semesters to provide flexibility in the curriculum.
- Following subjects are introduced in semester 1 and 2.

Semester	Subject Code	Subject Title
1	01VE0101	Research and Communication skills
	01ST0101	Advanced Concrete Design
	01ST0102	Advanced Structural Analysis
	01ST0104	Analytical and Numerical Methods for Civil Engineering
	01ST0103	Material Testing & Evaluation
	01ST0105	Advanced Solid Mechanics
	01TR0101	Urban Transportation system planning
	01TR0102	Traffic Engineering
	01TR0103	Rail Transport Management system Planning & Design
	01TR0104	Transportation System Management
	01TR0105	Environmental Impact Assessment of Transportation project
	01GT0102	Advanced Soil Mechanics
	01GT0103	Advanced Foundation Engineering
	01GT0105	Pavement engineering
01GT0106	Rock mechanics	
2	01ST0201	Advanced Steel Design
	01ST0202	Earthquake Engineering & Structural Dynamics
	01ST0203	Design of Tall Structures
	01ST0206	Mini Project-1 (Structural Design)
	01ST0204	Repair and Retrofitting of the Structures
	01ST0205	Structural Optimization
	01TR0201	Pavement Design
	01TR0202	Road Safety Audit
	01TR0203	Traffic flow theory & Simulation
	01TR0204	Mini Project-1
	01TR0205	Advances in pavement materials and construction
	01GT0201	Ground Improvement Technique
	01GT0202	Soil Dynamics & Earthquake engineering
	01GT0203	FEM in Geotechnical Engineering
	01GT0204	Geosynthetic and its Applications
	01GT0205	Geospatial techniques
01GT0206	Earth & Rockfill dams	

Agenda – 6	Discussion and approval of minor changes in syllabus of various courses of UG
Resolutions	<ul style="list-style-type: none"> • In place of Engineering Mathematics-1 & Engineering Mathematics-II, the course of Differential and Integral Calculus (DAIC) and Matrix Algebra and Vector Calculus (MAVC) are implemented • In place of Career Readiness Program, Revised course of Value Education is introduced • As per the feedback received by the students in the previous academic year, more practical subjects are introduced. The revised courses, Material Testing & Evaluations (MTE), Advanced Surveying & Geomatics (AS&G), and Software Application in Civil Engineering-II (SACE-II). • The subject name was suggested to be changed for Maths-3 with Applied Differential Equations (ADE). • The course Entrepreneurship & Engineering Ethics is revised as Profession Ethics in 4th semester.
Agenda – 7	Discussion and approval of proposed open elective courses
Resolutions	<ul style="list-style-type: none"> • Open elective subject Energy Science and Engineering is proposed in semester 6.
Agenda – 8	Discussion and approval of proposed value-added courses
Resolutions	<ul style="list-style-type: none"> • Learning and Development department would be offering SPT and SIG programs designed for the overall development of the student. • Onsite training on Field Testing in Geotechnical Engineering to be given to students.
Agenda – 9	Discussion on feedback received from students, faculties, parents, alumni, and employers regarding the teaching-learning process in order to review and design the syllabus.
Resolutions	<ul style="list-style-type: none"> • Syllabus of A.Y 2017-18 have been discussed with the stakeholders of the department including student/faculty/employee/alumni/parents and necessary inputs are collected from them for academic provision in courses.
Agenda – 10	Any other matter with the permission of the Chair.
Resolutions	<p>Couse outcomes for all the courses of 1st and 2nd year, Program outcomes and Program-specific outcome was discussed in detail.</p> <p>The following highlights were discussed/appreciated by the members.</p>

	<ul style="list-style-type: none"> • Course attainment for A.Y 2017-18 is analyzed. As a result of the analysis, in all the semesters the course attainment is more than the target attainment. • More electives based on specialization should be offered in the final year curriculum. • Field training/ Internship/ Project should be included in the final year courses.
Note: The meeting was scheduled physically at MB062.	
Meeting Attended By: External Experts <ol style="list-style-type: none"> 1. Dr. B. J. Shah 2. Dr. S. V. Deo 	Meeting Attended By: Marwadi University <ol style="list-style-type: none"> 1. Dr. Tarak Vora 2. Dr. Ankur Bhogayata 3. Dr. Siddharth Shah 4. Prof. Mazhar Dhankot
Meeting Attended By: Industry Expert <ol style="list-style-type: none"> 1. Er. Manish Doshi 	


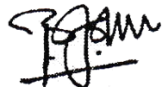


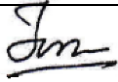

Sr. No.	Name	Designation	Sign
1	Dr. Shirish V. Deo	Member – BOS	
2	Dr. B. J. Shah	Member – BOS	
3	Mr. Manish V. Doshi	Member – BOS	
4	Dr. Ankur Bhogayata	Member – BOS	
5	Dr. Tarak Vora	Member – BOS	
6	Dr. Siddharth Shah	Member – BOS	
7	Prof. Mazhar Dhankot	Member – BOS	

Minutes of Meeting

Date: 24/05/2019		Meeting No: 04	
Start Time: 10.30 AM		End Time: 01:00 PM	
		Total Time: 2.5 Hours	
Presented by		Dr. Tarak Vora	
Agenda – 1			
Welcome of Board of Studies Member			
Resolutions		<ul style="list-style-type: none"> • Dr. Tarak Vora, Professor & Head, Civil Engineering Department welcomed all the distinguished BoS Members. BoS Member: Dr. B. J. Shah, Principal, Government Engineering College, Modasa; BoS Member: Dr. S. V. Deo, Associate Professor, NIT, Raipur; BoS Member-Industry Expert: Er. Jayant Lakhani, Veteran Structural Consultant, Rajkot, BoS Member-Alumni: Er. Harsh Sanghvi. • Introduction of invited BoS Member was given by Dr. Tarak Vora to all BoS members. Invited BoS Member: Dr. A.K. Varma, Professor & Head, BVM Engineering College, V.V.Nagar; Dr. Yogesh Shah, Associate Professor, IITRAM, Ahmedabad • All the invited members were welcomed by all BoS Members. • All the faculty members present in the BoS-04 were welcomed by Dr. Tarak Vora. 	
Agenda – 2			
Appointment of Member Secretary			
Resolutions		Prof. Kunal P. Shukla was appointed as member secretary for the BoS.	
Agenda – 3			
Confirmation of Minutes of Meeting and action taken report on decisions/suggestions of the previous BoS.			
Resolutions		The minutes of previous meeting no. 03 held on 07/04/2018 were already circulated to all members. Since there was no comment from any member, the chairman requested to accept the minutes. Dr. B. J. Shah proposed the minutes to be accepted. Dr. S. V. Deo gave acceptance subsequently. The minutes were then accepted.	
Agenda – 4			
Review of Civil Engineering Department for Academic Year 2018-19			
Resolutions		<ul style="list-style-type: none"> • Dr. Tarak Vora gave a brief presentation on various activities related to academics, student development, faculty development, research and consultancy done by the department during A. Y. 2018-19. 	
Agenda – 5			
Teaching Scheme of B. Tech. in Civil Engineering and detailed syllabus of Sem-VII & Sem-VIII.			

Resolutions	<ul style="list-style-type: none"> Semester – VII and Semester – VIII teaching schemes are designed and proposed. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Subject Code</th> <th style="text-align: left;">Subject Title</th> </tr> </thead> <tbody> <tr><td>01CI0701</td><td>Design of Concrete Structure</td></tr> <tr><td>01CI0702</td><td>Irrigation Engineering</td></tr> <tr><td>01CI0703</td><td>Construction Project Management</td></tr> <tr><td>01CI0704</td><td>Project - I</td></tr> <tr><td>01CI0705</td><td>Earthquake Engineering</td></tr> <tr><td>01CI0706</td><td>Smart Cities</td></tr> <tr><td>01CI0707</td><td>Modern Transportation Systems</td></tr> <tr><td>01CI0708</td><td>Environment Impact Assessment</td></tr> <tr><td>01CI0801</td><td>Foundation Engineering</td></tr> <tr><td>01CI0802</td><td>Design of Steel Structure</td></tr> <tr><td>01CI0803</td><td>Project - II</td></tr> <tr><td>01CI0804</td><td>Advanced Structural Analysis</td></tr> <tr><td>01CI0805</td><td>Rehabilitation & Retrofitting of Structures</td></tr> <tr><td>01CI0806</td><td>Bridge Engineering</td></tr> <tr><td>01CI0807</td><td>Solid Waste Management</td></tr> <tr><td>01CI0808</td><td>Sustainable Building Technologies</td></tr> <tr><td>01CI0809</td><td>Prestressed Concrete Technology</td></tr> <tr><td>01CI0810</td><td>Infrastructure Engineering & Management</td></tr> <tr><td>01CI0811</td><td>Design of Formwork</td></tr> <tr><td>01CI0812</td><td>Masonry Structures</td></tr> </tbody> </table>	Subject Code	Subject Title	01CI0701	Design of Concrete Structure	01CI0702	Irrigation Engineering	01CI0703	Construction Project Management	01CI0704	Project - I	01CI0705	Earthquake Engineering	01CI0706	Smart Cities	01CI0707	Modern Transportation Systems	01CI0708	Environment Impact Assessment	01CI0801	Foundation Engineering	01CI0802	Design of Steel Structure	01CI0803	Project - II	01CI0804	Advanced Structural Analysis	01CI0805	Rehabilitation & Retrofitting of Structures	01CI0806	Bridge Engineering	01CI0807	Solid Waste Management	01CI0808	Sustainable Building Technologies	01CI0809	Prestressed Concrete Technology	01CI0810	Infrastructure Engineering & Management	01CI0811	Design of Formwork	01CI0812	Masonry Structures
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Agenda – 6	Teaching Scheme of M. Tech. in Civil Engineering and detailed syllabus of Sem-III & Sem-IV.																																										
Resolutions	<ul style="list-style-type: none"> M.Tech in Civil Engineering with Specialization in Structural Engineering, Geotechnical Engineering and Transportation Engineering, Semester – III and Semester – VI teaching schemes are designed and proposed. The number of Program Elective Courses are offered to give more liberty to students to gain knowledge as per their choice. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Subject Code</th> <th style="text-align: left;">Subject Title</th> </tr> </thead> <tbody> <tr><td>01ST0301</td><td>Major Project -1</td></tr> <tr><td>01ST0302</td><td>Seminar</td></tr> <tr><td>01ST0303</td><td>Analysis of Laminated Composite Plates</td></tr> <tr><td>01ST0304</td><td>Design of Prestressed Concrete Structures</td></tr> <tr><td>01TR0303</td><td>Airport System Planning and Design</td></tr> <tr><td>01TR0304</td><td>Transportation Facility Design</td></tr> <tr><td>01GT0301</td><td>Environmental Geotechniques</td></tr> <tr><td>01ST0401</td><td>Major Project -2</td></tr> <tr><td>01ST0402</td><td>Seminar</td></tr> <tr><td>01ST0403</td><td>Fracture Mechanics of Concrete Structures</td></tr> <tr><td>01ST0404</td><td>Design of Plates and Shells</td></tr> </tbody> </table>	Subject Code	Subject Title	01ST0301	Major Project -1	01ST0302	Seminar	01ST0303	Analysis of Laminated Composite Plates	01ST0304	Design of Prestressed Concrete Structures	01TR0303	Airport System Planning and Design	01TR0304	Transportation Facility Design	01GT0301	Environmental Geotechniques	01ST0401	Major Project -2	01ST0402	Seminar	01ST0403	Fracture Mechanics of Concrete Structures	01ST0404	Design of Plates and Shells																		
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		01TR0403	Soft Computing Techniques	
		01TR0404	Pavement Management System	
		01GT0401	Soil Structure Interaction	
Agenda – 7				
Discussion and approval of proposed value-added courses				
Resolutions	<ul style="list-style-type: none"> • Various STTP/ Workshop/ FDPs are planned for upcoming academic year. • SPT and SIG are planned for each semester by L&D department. • Field Testing Training is proposed for UG and PG students. • Software hands on training is proposed to BOS member at various level of students based on the application of software. • Students will participate in different technical and non-technical national events. 			
Agenda – 8				
Discussion on feedback received from the students, faculties, parents and industry experts regarding teaching learning process in order to review and design the syllabus.				
Resolutions	<ul style="list-style-type: none"> • Teaching scheme and detailed syllabus are proposed in A.Y. 2018-19 have been discussed with the stakeholders of the department including student/faculty/employee/alumni/parents and necessary inputs are collected from them for academic improvisation. 			
Agenda – 9				
Any other matter with permission of the Chair.				
Resolutions	<ul style="list-style-type: none"> • Course outcomes of final year subjects are presented with its mapping with PO and PSO. • Course attainment for A.Y 2018-19 is analyzed. As a result of analysis, the average attainment of all the courses of 2018-19 year is not attained compared to target attainment. The Course outcome which are not attained for each subjects, for that changes in methodology in teaching-learning process is suggested. • As per the suggestion of the BOS members, The subject based site visit for majority subjects should be increase. 			
Note: Meeting was scheduled at MB050-Departmental library.				
Meeting Attended By: External Experts			Meeting Attended By: Marwadi University	
<ol style="list-style-type: none"> 1. Dr. B. J. Shah 2. Dr. S. V. Deo 			<ol style="list-style-type: none"> 1. Dr. Tarak Vora 2. Dr. Ankur Bhogayata 3. Dr. Siddharth Shah 	
Meeting Attended By: Industry Expert				
<ol style="list-style-type: none"> 1. Mr. Manish Doshi 				

Sr. No.	Name	Designation	Sign
1	Dr. Shirish V. Deo	Member – BOS	
2	Dr. B. J. Shah	Member – BOS	
3	Mr. Manish V. Doshi	Member – BOS	
4	Dr. Ankur Bhogayata	Member – BOS	
5	Dr. Tarak Vora	Member – BOS	
6	Dr. Siddharth Shah	Member – BOS	

Minutes of Meeting

Date: 04/05/2020		Meeting No: 05	
Start Time: 10.30 AM	End Time: 01:30 PM	Total Time: 3.0 Hours	
Presented by	Dr. Tarak Vora		
Agenda – 1	Welcome of Board of Studies Member		
Resolutions	<ul style="list-style-type: none"> • Dr. Tarak Vora, Professor & Head, Civil Engineering Department welcomed all the distinguished BoS Members. BoS Member: Dr. B. J. Shah, Principal, Government Engineering College, Modasa; BoS Member: Dr. S. V. Deo, Associate Professor, NIT, Raipur; BoS Member-Industry Expert: Er. Manish Doshi, Veteran Structural Consultant, Rajkot. • Introduction of invited BoS Member was given by Dr. Tarak Vora to all BoS members. Invited BoS Member: Dr. A.K. Varma, Professor & Head, BVM Engineering College, V.V.Nagar, Dr. Yogesh Shah, Associate Professor, IITRAM, Ahmedabad • All the invited members were welcomed by all BoS Members. • All the faculty members present in the BoS-05 were welcomed by Dr. Tarak Vora. 		
Agenda – 2	Appointment of Member Secretary		
Resolutions	<ul style="list-style-type: none"> • Prof. Amit Thoriya was appointed as member secretary for the BoS. 		
Agenda – 3	Confirmation of Minutes of Meeting and action taken report on decisions/suggestions of the previous BoS.		
Resolutions	<ul style="list-style-type: none"> • The minutes of previous meeting no. 04 held on 24/05/2019 were already circulated to all members. Since there was no comment from any member, the chairman requested to accept the minutes. Dr. B. J. Shah proposed the minutes to be accepted. Dr. S. V. Deo and Dr. Yogesh Shah gave acceptance subsequently. The minutes were then accepted. 		
Agenda – 4	Review of Civil Engineering Department for Academic Year 2019-20		
Resolutions	<ul style="list-style-type: none"> • Dr. Tarak Vora gave a brief presentation on various activities related to academics, student development, faculty development, research and consultancy done by the department during A. Y. 2019-20. • The teaching & learning process adopted in online mode during the pandemic is appreciated by reviewing syllabus coverage and student feedback. 		

	<ul style="list-style-type: none"> Demonstration of experimentation in online mode in various labs is appreciated specifically. 																		
Agenda – 5	Discussion and approval of minor changes in syllabus of various courses of UG & PG.																		
Resolutions	<ul style="list-style-type: none"> Following are the minor changes was proposed and approved by BoS Members M.Tech Civil Engineering (Structural Engineering) <table border="1"> <thead> <tr> <th>Subject Code</th> <th>Subject Title</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>01ST1101</td> <td>Advanced Concrete Design</td> <td>Basics of Foundation Design, IS Code Provisions, Types & Suitability of Different Types of Foundations, Design of Eccentric Isolated Column Footing, Design of Combined Footing, Design of Strap</td> </tr> <tr> <td>01GT1104</td> <td>Application of Numerical & Statistical Methods in Civil Engineering.</td> <td>Solution of Linear systems and hypothesis testing has been added</td> </tr> <tr> <td>01ST1202</td> <td>Structural Dynamics</td> <td>Response of Single Degree of Freedom Systems, MDOF and recent advances.</td> </tr> <tr> <td>01ST1203</td> <td>Design of Tall Structures</td> <td>Composite Structures has been added</td> </tr> <tr> <td>01ST1204</td> <td>Structural Health Monitoring & Retrofitting of Structures</td> <td>Methods of SHM has been intrtroduced</td> </tr> </tbody> </table>	Subject Code	Subject Title	Remarks	01ST1101	Advanced Concrete Design	Basics of Foundation Design, IS Code Provisions, Types & Suitability of Different Types of Foundations, Design of Eccentric Isolated Column Footing, Design of Combined Footing, Design of Strap	01GT1104	Application of Numerical & Statistical Methods in Civil Engineering.	Solution of Linear systems and hypothesis testing has been added	01ST1202	Structural Dynamics	Response of Single Degree of Freedom Systems, MDOF and recent advances.	01ST1203	Design of Tall Structures	Composite Structures has been added	01ST1204	Structural Health Monitoring & Retrofitting of Structures	Methods of SHM has been intrtroduced
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	01ST1204	Structural Health Monitoring & Retrofitting of Structures	Methods of SHM has been intrtroduced																
Agenda – 6	Discussion and approval of proposed value-added courses																		
Resolutions	<ul style="list-style-type: none"> One value added course will be offered by MU-IIR center based on research activities. Various faculty development programs, Short term Training programs and workshops are planned for students and faculties. 																		
Agenda – 7	Discussion and approval for inclusion of new MOOC courses proposed by the faculty.																		

Resolutions	Two MOOC courses from COURSERA are proposed to the students of 4 th and 6 th semester. Syllabus of the course is mapped with the content of the MOOC course. Learning of the content shall be done through MOOC and evaluation will be done by the subject faculty.			
	Semester	Subject code- Name	MOOC Course Title	Content mapped (%)
	1	Reading and Writing for technology / Speaking and Presentation skill	Communication skills for Engineering scholars	30%
	4	Professional Ethics	Ethics, Technology and Engineering	25%
Agenda – 8	Discussion on feedback received from students, faculties, parents, alumni and employers regarding teaching learning process in order to review and design the syllabus.			
	Teaching scheme proposed in A.Y. 2016-17 have been discussed with the stakeholders of the department including student / faculty / employee / alumni / parents and necessary inputs are collected from them for academic improvisation.			
Agenda – 9	Any other matter with permission of the Chair.			
	<p>Average CO-PO attainment was achieved and</p> <p>Then, the forum was kept open for the discussion and suggestion. Following highlights were discussed/appreciated by the members.</p> <ul style="list-style-type: none"> • The teaching scheme should allow multiple entry and exit, like after third year students may get Diploma by default. • Credit transfer/exchange facility should be given. • Additional options to earn extra credit in form of honors in degree can be offered to meritorious students. • Additional option to earn minor degrees can be given to meritorious students. • Practical assignment shall be given to the students so that the gap as per industry requirement can be filled. • Introduction of NCC/NSS as a course in curriculum is appreciated. 			
Note: Meeting was scheduled virtually on Google Meet.				

<p>Meeting Attended By: External Experts</p> <ol style="list-style-type: none"> 1. Dr. B. J. Shah 2. Dr. S. V. Deo 3. Dr. A. K. Verma 4. Dr. Yogesh Shah <p>Meeting Attended By: Industry Expert</p> <ol style="list-style-type: none"> 1. Er. Manish Doshi <p>Meeting Attended By: Alumni Member</p> <ol style="list-style-type: none"> 1. Er. Harsh Sanghvi 	<p>Meeting Attended By: Marwadi University</p> <ol style="list-style-type: none"> 1. Dr. Tarak Vora 2. Dr. Ankur Bhogayata 3. Dr. Siddharth Shah 4. Prof. Amit Thoriya
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Sr. No	Name	Designation	Sign
1.	Dr. Tarak Vora	Chairman – BoS Committee HoD	Present - Online
2.	Dr. Ankur Bhogayata	Member – BoS Asso. Prof.	Present - Online
3.	Prof. Amit Thoriya	Member – BoS Assi. Prof.	Present - Online
4.	Dr. B. J. Shah	Member – BoS External Member	Present - Online
5.	Dr. Shirish V. Deo	Member – BoS External Member	Present - Online
6.	Er. Manish Doshi	Member – BoS Industrial Member	Present - Online
7.	Er. Harsh Sanghvi	Member – BoS Alumni Member	Present - Online
8.	Dr. Siddharth Shah	Invitee Professor	Present - Online
9.	Dr. A. K. Varma	Invitee External Member (Geotechnical Engineering)	Present - Online
10.	Dr. Yogesh Shah	Invitee External Member (Transportation Engineering)	Present - Online

Minutes of Meeting

Date: 29/06/2021		Meeting No: 06	
Start Time: 11.00 AM	End Time: 02:30 PM	Total Time: 3.5 Hours	
Presented by	Dr. Tarak Vora		
Agenda – 1	Welcome of Board of Studies Member		
Resolutions	<ul style="list-style-type: none"> • Dr. Tarak Vora, Professor & Head, Civil Engineering Department welcomed all the distinguished BoS Members. BoS Member: Dr. B. J. Shah, Principal, Government Engineering College, Modasa; BoS Member: Dr. S. V. Deo, Associate Professor, NIT, Raipur; BoS Member-Industry Expert: Er. Jayant Lakhlani, Veteran Structural Consultant, Rajkot, BoS Member-Alumni: Er. Harsh Sanghvi. • Introduction of invited BoS Member was given by Dr. Tarak Vora to all BoS members. Invited BoS Member: Dr. A.K. Varma, Professor & Head, BVM Engineering College, V.V.Nagar; Dr. Yogesh Shah, Associate Professor, IITRAM, Ahmedabad • All the invited members were welcomed by all BoS Members. • All the faculty members present in the BoS-06 were welcomed by Dr. Tarak Vora. 		
Agenda – 2	Appointment of Member Secretary		
Resolutions	Prof. Amit Thoriya was appointed as member secretary for the BoS.		
Agenda – 3	Confirmation of Minutes of Meeting and action taken report on decisions/suggestions of the previous BoS.		
Resolutions	The minutes of previous meeting no. 05 held on 04/05/2020 were already circulated to all members. Since there was no comment from any member, the chairman requested to accept the minutes. Dr. B. J. Shah proposed the minutes to be accepted. Dr. S. V. Deo gave acceptance subsequently. The minutes were then accepted.		
Agenda – 4	Review of Civil Engineering Department for Academic Year 2020-21		
Resolutions	<ul style="list-style-type: none"> • Dr. Tarak Vora gave a brief presentation on various activities related to academics, student development, faculty development, research and consultancy done by the department during A. Y. 2020-21. • The teaching & learning process adopted in online mode during the pandemic is appreciated by reviewing syllabus coverage and student feedback. 		

	<ul style="list-style-type: none"> Demonstration of experimentation in online mode in various labs is appreciated specifically. 																																		
Agenda – 5	Teaching Scheme of B. Tech. in Civil Engineering and detailed syllabus of Sem-I & Sem-II.																																		
Resolutions	<ul style="list-style-type: none"> Semester – I and Semester – II teaching schemes are redesigned as per revised AICTE guidelines. Total credit offered to the students is 160 in place of 183 as per previous teaching scheme. Number of Program Elective Courses and Open Elective Courses are increased to give more liberty to students to gain knowledge as per their choice. Either project or field/industry training is to be given in final semester. NCC is introduced with teaching scheme of 1 hour theory and 2 hours laboratory for 2 credit course in Semester – I and Semester – II. The student who opt for NCC will be given exemption from below mentioned courses. <ul style="list-style-type: none"> Value Education – Semester – I Indian Constitution – Semester – I Physical Education/Sports/Yoga - Semester – I Professional Ethics – Semester – II <table border="1" data-bbox="496 1122 1286 1886"> <thead> <tr> <th>Subject Code</th> <th>Subject Title</th> </tr> </thead> <tbody> <tr> <td>01MA2101</td> <td>Differential and Integral Calculus</td> </tr> <tr> <td>01CI1101</td> <td>Elements of Civil Engineering</td> </tr> <tr> <td>01ME1101</td> <td>Elements of Mechanical Engineering</td> </tr> <tr> <td>01GS2101</td> <td>Engineering Physics</td> </tr> <tr> <td>01SL0102/ 01SL0103</td> <td>Reading writing for Technology/ Speaking & Presentation Skills</td> </tr> <tr> <td>01EN1101</td> <td>Basics of Environmental Studies</td> </tr> <tr> <td>01CR1103</td> <td>Value Education</td> </tr> <tr> <td>01GS0103</td> <td>Indian Constitution</td> </tr> <tr> <td>01AU0101</td> <td>NCC-1</td> </tr> <tr> <td>01MA0103</td> <td>Matrix Algebra and Vector Space</td> </tr> <tr> <td>01CE1101</td> <td>Computer Programming</td> </tr> <tr> <td>01ME1102</td> <td>Engineering Graphics</td> </tr> <tr> <td>01EE1101</td> <td>Basics of Electrical & Electronics Engineering</td> </tr> <tr> <td>01ME1104</td> <td>Workshop</td> </tr> <tr> <td>01PY0101</td> <td>Physical Education/Sports/Yoga</td> </tr> <tr> <td>01AU0102</td> <td>NCC-2</td> </tr> </tbody> </table>	Subject Code	Subject Title	01MA2101	Differential and Integral Calculus	01CI1101	Elements of Civil Engineering	01ME1101	Elements of Mechanical Engineering	01GS2101	Engineering Physics	01SL0102/ 01SL0103	Reading writing for Technology/ Speaking & Presentation Skills	01EN1101	Basics of Environmental Studies	01CR1103	Value Education	01GS0103	Indian Constitution	01AU0101	NCC-1	01MA0103	Matrix Algebra and Vector Space	01CE1101	Computer Programming	01ME1102	Engineering Graphics	01EE1101	Basics of Electrical & Electronics Engineering	01ME1104	Workshop	01PY0101	Physical Education/Sports/Yoga	01AU0102	NCC-2
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Resolutions	<ul style="list-style-type: none"> Semester – I and Semester – II teaching schemes are redesigned as per revised AICTE guidelines. Total course credits for Civil Engineering Course to be revised to 68 credits as per the guidelines provided by AICTE. Number of Program Elective Courses and Open Elective Courses are increased to give more liberty to students to gain knowledge as per their choice. <table border="1" data-bbox="443 667 1342 1722"> <thead> <tr> <th>Subject Code</th> <th>Subject Title</th> </tr> </thead> <tbody> <tr><td>01ST2101</td><td>Advanced Concrete Design</td></tr> <tr><td>01ST1102</td><td>Advanced Structural Analysis</td></tr> <tr><td>01ST1106</td><td>Computer Application in Structural Engineering-I</td></tr> <tr><td>01ST1107</td><td>Material Testing Lab</td></tr> <tr><td>01ST1108</td><td>Application of Numerical & Statistical Methods in Structural Engineering</td></tr> <tr><td>01ST1109</td><td>Optimization Techniques</td></tr> <tr><td>01ST1110</td><td>Advanced Solid Mechanics</td></tr> <tr><td>01ST1111</td><td>Design of Prestressed Concrete Structures</td></tr> <tr><td>01ST1112</td><td>Design of Masonry Structures</td></tr> <tr><td>01ST1113</td><td>Design of Bridge</td></tr> <tr><td>01ST1201</td><td>Advanced Steel Design</td></tr> <tr><td>01ST2202</td><td>Structural Dynamics</td></tr> <tr><td>01ST1207</td><td>Computer Application in Structural Engineering-II</td></tr> <tr><td>01ST1208</td><td>Experimental Techniques in Structural Engineering</td></tr> <tr><td>01ST1209</td><td>Design of Tall Structures</td></tr> <tr><td>01ST1210</td><td>Blast Resistant Design of Structure</td></tr> <tr><td>01ST1211</td><td>Advanced Design of Foundation</td></tr> <tr><td>01ST1212</td><td>Structural Health Monitoring & Retrofitting of Structures</td></tr> <tr><td>01ST1213</td><td>Design of Offshore Structures</td></tr> <tr><td>01ST1214</td><td>Design of Fiber Reinforced Composite Structures</td></tr> <tr><td>01ST1215</td><td>Design of Industrial Structures</td></tr> <tr><td>01SL1210</td><td>Research Methodology & IPR</td></tr> </tbody> </table>	Subject Code	Subject Title	01ST2101	Advanced Concrete Design	01ST1102	Advanced Structural Analysis	01ST1106	Computer Application in Structural Engineering-I	01ST1107	Material Testing Lab	01ST1108	Application of Numerical & Statistical Methods in Structural Engineering	01ST1109	Optimization Techniques	01ST1110	Advanced Solid Mechanics	01ST1111	Design of Prestressed Concrete Structures	01ST1112	Design of Masonry Structures	01ST1113	Design of Bridge	01ST1201	Advanced Steel Design	01ST2202	Structural Dynamics	01ST1207	Computer Application in Structural Engineering-II	01ST1208	Experimental Techniques in Structural Engineering	01ST1209	Design of Tall Structures	01ST1210	Blast Resistant Design of Structure	01ST1211	Advanced Design of Foundation	01ST1212	Structural Health Monitoring & Retrofitting of Structures	01ST1213	Design of Offshore Structures	01ST1214	Design of Fiber Reinforced Composite Structures	01ST1215	Design of Industrial Structures	01SL1210	Research Methodology & IPR
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Subject Code	Subject Title
01GT1102	Advanced Soil Mechanics
01GT1103	Advanced Foundation Engineering
01GT1107	Lab - I (Soil Mechanics)
01GT1108	Lab - II (Highway Material Testing)
01GT2104	Application of Numerical & Statistical Methods in Geotechnical Engineering
01GT0109	Critical Soil Mechanics
01GT0110	Unsaturated Soil Mechanics
01GT1105	Pavement Engineering
01GT1106	Rock Mechanics
01GT0111	Offshore Geotechnical Engineering
01GT1201	Ground Improvement Technique
01GT1202	Soil Dynamics & Earthquake engineering
01GT0207	lab - III (Sub Surface Investigation)
01GT0208	lab - IV (Computer Application in Geotechnical Engineering)
01SL1210	Research methodology and IPR
01GT1206	Earth & Rockfill dams
01GT0209	Earth Retaining Structures
01GT0210	Subsurface Investigation and Instrumentation
01GT1204	Geosynthetics and Its Application
01GT0211	Forensic Geotechnical Engineering

Agenda – 9

Discussion and approval of minor changes in syllabus of various courses of UG & PG.

- Reframing of syllabus of Mathematics is done and it is proposed in four parts upto 4th semester.
- Revision in syllabus of 01CI0101–Elements of Civil Engineering is approved.



Subject Code	Subject Title	Remarks
01CI1101	Elements of Civil Engineering	Brief introduction of the development of smart cities and construction projects added in module - 1.
01MA2101	Differential and Integral Calculus	Vector differential calculus and Vector Integral

		calculus are changed from semester 2 to semester 1.
01MA0103	Matrix Algebra and Vector Space	Vector calculus and the Application of linear algebra using MATLAB are added in course.
M.Tech Civil Engineering (Structural Engineering)		
Subject Code	Subject Title	Remarks
01ST1102	Advanced Structural Analysis	Numerical Integration and formation of stiffness matrix for local and global axis are added in content.
01ST1107	Material Testing Lab	List of experiments are added in course
01ST1108	Application of Numerical & Statistical Methods in Structural Engineering	Finite difference method , probability and distribution and solution of ordinary differential equation are added in course content
01ST1109	Optimization Techniques	Optimization technique Structural engineering application is added in the content.
01ST1110	Advanced Solid Mechanics	Few topics related to stress-strain analysis and theory of elasticity application are added.
01ST1201	Advanced Steel Design	Design of hollow steel section and pre-engineered building are added.
01ST1203	Design of Tall Structures	Use of commercially available software added.
01ST1212	Structural Health Monitoring & Retrofitting of Structures	Structural Assessment and Retrofitting are added.
01SL1210	Research Methodology & IPR	Research methodology and skills module is modified.

M.Tech Civil Engineering (Transportation Engineering)		
Subject Code	Subject Title	Remarks
01TR0109	Application of Numerical & Statistical Methods in Geotechnical Engineering	Finite difference method, probability and distribution are added in course content
01SL1210	Research Methodology & IPR	Research methodology and skills module is modified.
M.Tech Civil Engineering (Geotechnical Engineering)		
Subject Code	Subject Title	Remarks
01GT1103	Advanced Foundation Engineering	Design of Special foundations has been removed
01GT2104	Application of Numerical & Statistical Methods in Geotechnical Engineering	Registration and statistical data analysis has been introduced.
01GT1105	Rock Mechanics	Stress-strain relationship of the Rock has been introduced along with RMR rating.
01GT1202	Soil Dynamics & Earthquake engineering	Dynamic properties of soil and analysis of SDOF system was introduced.
01GT1206	Earth & Rockfill dams	Graphical method of earthfill dam was introduced
01GT1204	Geosynthetics and Its Application	Experimentations on Geosynthetics has been introduced.
01SL1210	Research Methodology & IPR	Research methodology and skills module is modified.
Agenda – 10	Discussion and approval of proposed open elective courses	
	<ul style="list-style-type: none"> Each department will be offering one open elective subject as per need of industry/society which can be opted by the student of other department only. 	

	<ul style="list-style-type: none"> For B.Tech Civil Engineering, As proposed in the teaching scheme, student have to opt any two such open elective subjects and have to complete within 3rd to 6th semester. Students are given choice to select any subject offered from any department from the university other than its own department. For M.Tech Civil Engineering, student have to choose 2 audit course and one open elective subjects within 1st to 4th semester. 															
Agenda – 11	Discussion and approval of proposed value-added courses															
	<ul style="list-style-type: none"> Learning and Development department would be offering SPT and SIG programs designed for the overall development of the student. Software training on ETABS to be done with collaboration with CADD Center, Rajkot to the students. Software training on Civil 3D is done with collaboration with CADD Center, Rajkot to the students. Onsite training on Field Testing in Geotechnical Engineering to be given to students. 															
Agenda – 12	Discussion and approval for inclusion of new MOOC courses proposed by the faculty.															
	<p>Two MOOC courses from COURSERA are proposed to the students of 4th and 6th semester. Syllabus of the course is mapped with the content of the MOOC course. Learning of the content shall be done through MOOC and evaluation will be done by the subject faculty.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Semester</th> <th style="width: 25%;">Subject Name</th> <th style="width: 15%;">code-</th> <th style="width: 20%;">MOOC Course Title</th> <th style="width: 25%;">Content mapped (%)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">Creativity & Problem Solving</td> <td></td> <td style="text-align: center;">Innovation through design: Think, Make, break and repeat</td> <td style="text-align: center;">20%</td> </tr> <tr> <td style="text-align: center;">6</td> <td style="text-align: center;">Energy Science & Engineering</td> <td></td> <td style="text-align: center;">Renewable energy technology fundamentals</td> <td style="text-align: center;">20%</td> </tr> </tbody> </table>	Semester	Subject Name	code-	MOOC Course Title	Content mapped (%)	4	Creativity & Problem Solving		Innovation through design: Think, Make, break and repeat	20%	6	Energy Science & Engineering		Renewable energy technology fundamentals	20%
Semester	Subject Name	code-	MOOC Course Title	Content mapped (%)												
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6	Energy Science & Engineering		Renewable energy technology fundamentals	20%												

Agenda – 13	Discussion on feedback received from students, faculties, parents, alumni and employers regarding teaching learning process in order to review and design the syllabus.
Resolutions	Teaching scheme proposed in A.Y. 2016-17 and revised Teaching Scheme to be proposed in A.Y. 2021-22 have been discussed with the stakeholders of the department including student/faculty/employee/alumni/parents and necessary inputs are collected from them for academic improvisation.
Agenda – 14	Any other matter with permission of the Chair.
	<p>CO-PO attainment was discussed in detail with expert by the chair. As a result of discussion, it is proposed to float detailed rubrics for the evaluation covering students of all the levels.</p> <p>Then, the forum was kept open for the discussion and suggestion. Following highlights were discussed/appreciated by the members.</p> <ul style="list-style-type: none"> • The teaching scheme should allow multiple entry and exit, like after third year students may get Diploma by default. • Credit transfer/exchange facility should be given. • Additional options to earn extra credit in form of honors in degree can be offered to meritorious students. • Additional option to earn minor degrees can be given to meritorious students. • Practical assignment shall be given to the students so that the gap as per industry requirement can be filled. • Introduction of NCC/NSS as a course in curriculum is appreciated.
<p>Note: Meeting was scheduled virtually on Google Meet and physically at MB050-Departmental library.</p>	
<p>Meeting Attended By: External Experts</p> <ol style="list-style-type: none"> 1. Dr. B. J. Shah 2. Dr. S. V. Deo 3. Dr. A. K. Verma 4. Dr. Yogesh Shah <p>Meeting Attended By: Industry Expert</p> <ol style="list-style-type: none"> 1. Er. Jayant Lakhani <p>Meeting Attended By: Alumni Member</p> <ol style="list-style-type: none"> 1. Er. Harsh Sanghvi 	<p>Meeting Attended By: Marwadi University</p> <ol style="list-style-type: none"> 1. Dr. Tarak Vora 2. Dr. Ankur Bhogayata 3. Dr. Siddharth Shah

Sr. No	Name	Designation	Sign
1.	Dr. Tarak Vora	Chairman – BoS Committee HoD	
2.	Dr. Ankur Bhogayata	Member – BoS Asso. Prof.	
3.	Prof. Amit Thoriya	Member – BoS Assi. Prof.	Present - Online
4.	Dr. B. J. Shah	Member – BoS External Member	Present - Online
5.	Dr. Shirish V. Deo	Member – BoS External Member	Present - Online
6.	Er. Mandeep Shah	Member – BoS Industrial Member	Absent
7.	Er. Harsh Sanghvi	Member – BoS Alumni Member	Present - Online
8.	Dr. Siddharth Shah	Invitee Professor	Present - Online
9.	Dr. A. K. Varma	Invitee External Member (Geotechnical Engineering)	Present - Online
10.	Dr. Yogesh Shah	Invitee External Member (Transportation Engineering)	Present - Online
11.	Mr. Jayant Lakhani	Invitee Industrial Member	Present - Online

Faculty of Business Management
Board of Studies
Minutes of Meeting
10th, August 2017

The second meeting of Board of Studies of FoBM was held on 10 August 2017 at 3:25 PM in Board Room, 3rd Floor, Marwadi University.

The following members attended the meeting:

Dr. Sunil Jakhoria	Chairperson
Dr. Sanjay Bhayani	External Member
Dr. Hitesh Shukla	External Member
Dr. Kapil Shrimal	Internal Member
Dr. Monica Verma	Internal Member
Dr. Suneet Saxena	Special Invitee
Dr. M. Srinivasa Rao	Special Invitee
Mr. Amar Gandhi	Special Invitee
Mr. Paras Rughani	Special Invitee

Dr. Hanuman Prasad was granted leave of absence.

Dr. Sunil Jakhoria, Dean, Faculty of Business Management chaired the meeting and welcomed the members. He expressed his special thanks to Dr. Sanjay Bhayani and Dr. Hitesh Shukla for their valuable presence.

The agenda items listed were taken up for discussion and the following resolutions were passed.



Item No. 1: To confirm the minutes of the 1st BOS Meeting held on 13 August 2016.

The minutes of the 1st BOS Meeting held on 13 August 2016 were circulated among the members of the Board. No comments were received, so the Board approved the minutes of the 1st BOS meeting

Item 2: To report the action taken, where necessary, on the various decisions taken by the BOS in its 1st meeting held on 13 August 2016.

As a part of the action taken on the suggestions received and resolutions of the 1st BOS meeting, the members were informed that the actions have been taken on all the suggestions. The Board noted the actions taken, where necessary, on the various decisions taken in its 1st meeting held on 13 August 2016 and expressed its satisfaction.

Item No. 3: Program Structure of MBA for the Batch 2017-2019

Board was informed that the Programme Assessment Committee (PAC) has recommended revision in Existing Program Structure for MBA and its curriculum.

The new Proposed Program Structure for MBA was presented to the Board. The Board was informed that based on the feedback from industry, academic experts and students, few modifications in the existing Program Structure for MBA have been proposed. The changes included the following:

- Adding Courses with relevance to human values and professional ethics
- Increased Choice of courses within specialisation and
- Introduction of Sectoral Electives in place of General Elective courses to cater to sector specific requirement of skills.
- Addition of Two Reports on Industrial Study Tour
- Addition of Comprehensive Project in Semester 4.

The Board reviewed the modifications in the program structure and noted that the new proposed program structure has become more skill and employability oriented in comparison to the existing program structure

Dr Shukla suggested that the Course title for Personal Financial Planning should be changed to Financial Planning for Individuals.

The Board also noted with satisfaction that while enhancing the component of practical learning for students, the institute is still able to include the desired components of core subjects, diverse choice of specialization electives, projects and sectoral elective courses in the Program Structure.

The Board after due deliberations approved the revised Program Structure and Teaching Evaluation scheme of MBA Program for the Batch 2017-2019 after incorporating the modifications suggested. (Annexure 1)

Resolved to approve item no 3 and recommend the same to the Academic Council.

Item No. 4: Non-credit courses in addition to the courses included in the program structure. (Add On Certification Courses)

The Board was informed that as approved in the first BOS, the institute proposes to continue offering Add on Certification Courses as mentioned below:

- Advanced Corporate Communication of 30 hours duration in semester 1
- Advanced Excel Certification of 32 hours duration in semester 2
- Six Sigma of 30 hours duration in semester 3
- Digital Marketing of 36 hours in semester 4

The Board reviewed the proposal and approved to continue the add on certification courses in their present form.

Resolved to approve item no 4 and recommend the same to the Academic Council.

Item No. 5: Syllabus of new MBA Courses

The detailed syllabi of new courses added in the Program Structure of MBA were presented.

The Board reviewed the proposed syllabus of MBA and after due deliberations approved them. (Annexure 2)

Resolved to approve item no 5 and recommend the same to the Academic Council.



Item No. 6: Revision in existing Courses

6.1 Revision in Course Content and Course Title for Quantitative Techniques for Managers 03BM0107

The Board went through the proposed modifications in the existing content of Quantitative Techniques for Managers 03BM0107 in Semester 1 and after detailed discussion approved the revisions. The Board also approved change of title of the course to Statistics for Managers as it was found that the course covered concepts of statistics being taught under the title Quantitative Techniques for Managers. (Annexure 3)

“Resolved to approve item 6.1 and recommend the same to the Academic Council”

6.2 Revision in Course Content of Business Research Methods 03BM0202

The Board went through the proposed modifications in the existing content of Business Research Methods 03BM0202 in semester 2 and appreciated the inclusion of various statistics tests for research. After due deliberation the Board approved the changes. (Annexure 4)

“Resolved to approve item 6.2 and recommend the same to the Academic Council”

6.3 Revision in Course Content and Course Title of Compensation Management 03BM0317

The Board went through the proposed modifications in the existing content of Compensation Management 03BM0317. The Board noted that revised content includes performance management as a unit. The Board after due deliberations approved the revision of course content and course title from Compensation Management to Compensation and Performance Management. (Annexure 5)

“Resolved to approve item 6.3 and recommend the same to the Academic Council”

6.4 Revision in Course Content of International Marketing 03BM0319

The Board went through the proposed modifications in the existing contents of International Marketing 03BM0319. After due deliberations the Board approved the revision of course content. (Annexure 6)

“Resolved to approve item 6.4 and recommend the same to the Academic Council”



6.5 Revision in Course Content of International HRM

The Board went through the proposed modifications in the existing contents of International HRM and after due deliberations approved the change. (Annexure 7)

“Resolved to approve item 6.5 and recommend the same to the Academic Council”

6.6 Revision in Course Content and Course Title of E-Commerce 03BM0423

The Board reviewed the proposed changes in the content and noted that some component of Management Information Systems is also proposed to be added so change in course title is justified. After due deliberations the Board approved revision of course content and course title for the course E-commerce 03BM0423. (Annexure 8)

“Resolved to approve item 6.6 and recommend the same to the Academic Council”

Item No 7: Attainment of Course Outcomes

The Board was informed that an analysis of CO attainment revealed that the targets set for the year 2016-17 at 50%, have been achieved.

The PAC suggested that as the University is in its nascent stage so it will be good to maintain the same targets for the academic year 2017-18 as well and see how well they are achieved for the coming year.

The Board noted the attainment levels for year 2016-17 and after due deliberations approved that CO attainment targets for year 2017-18 be set at 50%.

Resolved to approve item no 7 and recommend the same to the Academic Council.

Item No 8: Feedback from Stakeholders

The Board was informed that the PAC had collected feedback from students, industry and academic experts for the existing program structure and curriculum of MBA. The Board was further informed that the suggestions/feedback received were incorporated in the curriculum as shown in the following table.



Suggestion	Action Taken
Sector specific courses should be introduced.	Choice of four sectoral electives in semester 3 and 4 introduced.
Students should be exposed to practical aspects of management education through industrial visits, internships and projects	Report of Industrial Tour included in semester 1 and semester 2 Ialong with one comprehensive project semester 4.
Course content of Quantitative Techniques for Managers includes topics from Statistics domains so title of course should be changed	Course Content and Course title revised.
Choice of courses within one specialisation should be increased	Students have a choice of selecting any 5 specialisation courses from the list of 8 specialisation electives
Management Information System should be introduced as a course in the Program	To avoid addition of credits, MIS is included with the course of E-Commerce
Performance Management Course should be introduced in HR Specialisation	Component of Performance Management has been added in the course Compensation Management and title of the course has been modified.

The Board noted with satisfaction that the feedback process adopted by the institution is working well. It further recommended that once the current students pass out of the institution, their feedback as an alumni should also be incorporated for further development of curriculum.

The meeting was concluded with a vote of thanks to all the members present.




Dr Sunil Jakhoria

Dean

Faculty of Business Management

Minutes of 3rd Meeting of Board of Studies

Faculty of Business Management

Date: 26 May 2018

Time: 4:00 PM

Venue: Board Room, 3rd Floor, Marwadi University



The third meeting of Board of Studies of FoBM was held on 26 May 2018 at 4:00 PM in Central Board Room of Marwadi University.

The following members were present in the meeting:

Dr. Sunil Jakhoria Professor & Dean, Faculty of Business Management	Chairperson
Dr. Sanjay Bhayani Professor, Department of Business Management, Saurashtra University	External Member, Academia
Dr. M Srinivasa Rao	Internal Member
Dr. Monica Verma	Member Secretary

Special Invitees to the 3rd Board of Studies Meeting as below

Mr. Chetan Bhojani Founder, Add Value Consultants, Rajkot	Special Invitee
Dr. Meeta Mandaviya	Special Invitee

The leave of absence was granted to:

Dr. Hitesh Shukla, Professor, Department of Business Management, Saurashtra University	External Member, Academia
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Dr. Sunil Jakhoria, Dean, Faculty of Business Management chaired the meeting and welcomed the members to the 3rd BOS meeting of FoBM. He expressed his special thanks to Dr. Sanjay Bhayani and Mr. Chetan Bhojani for their valuable presence.

After that, the agenda items listed were taken up for discussion and the following resolutions were passed.



Item No. 1: To confirm the minutes of the 2nd BOS Meeting held on 10 August 2017.

The minutes of the 2nd BOS Meeting held on 10 August 2017 were circulated among the members of the Board. Since no comments were received, this Board approved and confirmed the minutes of the 2nd BOS meeting

Item No. 2: To report the action taken, where necessary, on the various decisions taken by the BOS in its 2nd meeting held on 10 August 2017.

The Board noted the action taken, where necessary, on the various decisions taken in the 2nd BOS meeting held on 10 August 2017. The Board also expressed its satisfaction on the action taken report on the various decisions taken in its 2nd meeting held on 10 August 2017.

Item No. 3: PEO, PO and PSO for MBA Program

The proposed Program Educational Objectives, Programme Outcomes and Program Specific Outcomes were presented to the Board. The Board was informed that feedback from industry, faculty, students were taken before finalizing the proposed PEO, PO and PSO for MBA.

The Board reviewed the proposed PEO, PO and PSO and approved the same for MBA Program. (Annexure 1)

Item No. 4: Revision in existing Courses

4.1 Revision in content of Accounting for Managers 03BM0101

The Board went through the proposed modifications in the existing content of Accounting for Managers 03BM0101 in Semester 1 to make it updated with the latest developments in the field of accounting and after detailed discussion approved the revisions. (Annexure 2)

Resolved to approve item no 4.1 and recommend the same to the Academic Council.

4.2 Revision in content of Economics for Managers 03BM0102



Modifications in the existing content of Economics for Managers 03BM0102 in Semester 1 to add the components of Macroeconomics in the existing syllabus were proposed. The Board went through the proposed syllabus and after due discussion approved the revisions. (Annexure 3)

Resolved to approve item no 4.2 and recommend the same to the Academic Council.

Item No 5: Attainment of Course Outcomes

The Board was informed that the target for CO attainment was set to be 50% and the same was achieved.

Since the CO attainment set at 50% were achieved consecutively for the past two academic years, a revised target of 52% for CO attainment was proposed by PAC.

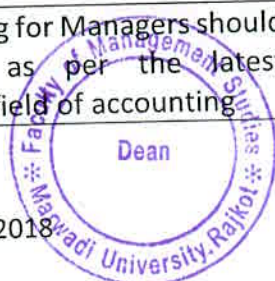
The Board noted the attainment levels for year 2017-18 and after due deliberations approved that CO attainment targets for year 2018-19 be set at 52%.

Resolved to approve item no 5 and recommend the same to the Academic Council.

Item No 6: Feedback from Stakeholders

The Board was informed that the PAC had collected feedback from students, industry and academic experts for the designing of PEO, PO and PSOs as well as for curriculum development. The Board was further informed that the suggestions/feedback received were incorporated in the PEO, PO, PSO and the curriculum as shown in the following table.

Suggestion	Action Taken
<p>The Programme outcomes need to be condensed.</p> <p>The Programme outcomes should incorporate strong research focus-publications, R & D projects, and Consultancy work.</p> <p>The Programme Educational Objectives should be relevant and successful for a degree program.</p>	<p>Based on the Feedback received from all stakeholders, the changes in the Programme Outcomes and Programme Educational Objectives were made.</p>
<p>The Course Accounting for Managers should keep on evolving as per the latest developments in the field of accounting</p>	<p>Course content modified according to the suggestions received</p>



Minutes of Meeting

The Course Economics for Managers should also include components of macroeconomics	Course content modified according to the suggestions received
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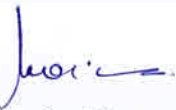
The Board noted with satisfaction the suggestions received and actions taken on them.

Item No 7: Any other point with the permission of the chairperson

Dr. Sanjay Bhayani suggested that the Faculty of Business Management should consider starting domain focused programs like MBA in Tourism, MBA in Business Analytics as the demand for such specialized knowledge is increasing every year but the industry is not able to find the right human resources.

The suggestion was noted.

The meeting concluded with a vote of thanks to all the members present.



Dr. Monica Verma

Member Secretary



Dr. Sunil Kumar Jakhoria

Chairperson & Dean

Minutes of 4th Meeting of Board of Studies

Faculty of Business Management

Date: 15 June 2019

Time: 3:00 PM

Venue: Board Room, 3rd Floor, Marwadi University



The fourth meeting of Board of Studies of FoBM was held on 15 June 2019 at 3:00 PM in Central Board Room of Marwadi University.

The following members were present in the meeting:

Dr. Sunil Jakhoria Professor & Dean, Faculty of Business Management	Chairperson
Dr. Sanjay Bhayani Professor, Department of Business Management, Saurashtra University	External Member
Dr. Hitesh Shukla, Professor, Department of Business Management, Saurashtra University	External Member
Dr. M Srinivasa Rao	Internal Member
Dr. Monica Verma	Member Secretary

Special Invitees to the 4th Board of Studies Meeting as below:

Mr. Chetan Bhojani Founder, Add Value Consultants, Rajkot	Special Invitee
Dr. Meeta Mandaviya	Special Invitee
Mr. Paras Rughani	Special Invitee
Ms. Khushboo Ganatra	Special Invitee
Dr. Muthukumar Servai	Special Invitee

Dr. Sunil Jakhoria, Dean, Faculty of Business Management chaired the meeting and welcomed the members to the 4th BOS meeting of FoBM. He expressed his special thanks to Dr. Sanjay Bhayani, Dr Hitesh Shukla and Mr. Chetan Bhojani for sparing the time from their busy schedule to attend the meeting.

After that, the agenda items listed were taken up for discussion and the following resolutions were passed.




Item No. 1: To confirm the minutes of the 3rd BOS Meeting held on 26th May 2018.

The minutes of the 3rd BOS Meeting held on 26 May 2018 were circulated among the members of the Board. Since no comments were received, Board approved and confirmed the minutes of the 3rd BOS meeting

Item No. 2: To report the action taken, where necessary, on the various decisions taken by the BOS in its 3rd meeting held on 26 May 2018.

The Board noted the action taken, where necessary, on the various decisions taken in the 3rd BOS meeting held on 26 May 2018. The Board also expressed its satisfaction on the action taken report on the various decisions taken in its 3rd meeting held on 26 May 2018.

Item No. 3: Introduction of a New Program; Master of Business Administration (Business Analytics)

The Board was informed that the suggestion given by Dr. Sanjay Bhayani during the 3rd BOS meeting to start new program focused on domain specific skills was taken up and it is proposed to start the program Master of Business Administration (Business Analytics). The proposed program structure submitted by PAC for MBA (BA) was presented and explained in detail. The Board was informed that the contents have been designed considering the various aspects and need of the industry based on the feedback received by them.

The Board reviewed the proposed program structure and noted that the program has good blend of core, specialisation and domain specific courses along with opportunity for internship. Board appreciated the inclusion of skill-oriented courses keeping in view the Skill India Mission.

The Board after due deliberations approved the proposed Program Structure and Teaching and Evaluation Scheme of MBA (BA) program for the Batch 2019-2021. (Annexure 1).

Resolved to approve item no 3 and recommend the same to the Academic Council.



Item No. 4: PEO, PO and PSO for MBA (Business Analytics)

The proposed Program Educational Objectives, Program Outcomes and Program Specific Outcomes were presented to the Board. The Board was informed that feedback from industry experts and faculty were taken before finalizing the proposed PEO, PO and PSO for MBA (Business Analytics). The Board was informed that the PEO and PO of MBA and MBA (Business Analytics) are same keeping in view the Vision and Mission of FoBM. The PSO's applicable for MBA (Business Analytics) were presented and deliberated.

The Board reviewed the proposed PEO, PO and PSO and approved the same for MBA (BA) Program. (Annexure 2)

Resolved to approve item no. 4 and recommend the same to the Academic Council.

Item No. 5: Syllabus of MBA (Business Analytics) Courses

The Board went through the syllabi of courses approved for the Program Structure of MBA (Business Analytics). After due deliberation the syllabi of all courses to be offered to Batch 2019-2021 were approved by the Board. (Annexure 3)

Resolved to approve item no. 5 and recommend the same to the Academic Council.

Item No. 6: Introduction of a New Program; 3 years Master of Business Administration (Executive)

The Board was informed that many working executives who want to pursue higher studies are not able to join MBA program in FoBM because of the time constraints. Keeping that in view and based on the feedback received from industry, a 3 years MBA (Executive) program is proposed to be introduced. The Board was informed that the content of the Program is kept similar to that of MBA but the classes for MBA (Executive) are proposed to be held during weekends only. The proposed program structure submitted by PAC was presented.



The Board reviewed the proposed program structure and Dr. Hitesh Shukla suggested that since this program is designed keeping in view the requirements of working professionals, a course on Case Study Applications may be introduced.

After due deliberations the Board approved the program structure after incorporating the suggested modifications. (Annexure 4)

Resolved to approve item no. 6 and recommend the same to the Academic Council.

Item No. 7: PEO, PO and PSO for MBA (Executive)

The Board was informed that the PEO, PO and PSO of MBA and MBA (Executive) kept to be the same as the objectives and outcomes of both the programs are same. The major difference is kept in the delivery of the content.

The board reviewed the proposal and after due deliberations approved the same. (Annexure 5)

Resolved to approve item no. 7 and recommend the same to the Academic Council.

Item No. 8: Syllabus of MBA (Executive) Courses

The proposed syllabi of new courses in addition to those of MBA program were presented and the Board after due deliberations approved the same. (Annexure 6)

Resolved to approve item no. 8 and recommend the same to the Academic Council.

Item No. 9: Add on Certification Courses

9.1 Addition of Programming and Coding as Add on Certification Course for MBA

The Board was informed that on the basis of feedback received from industry experts, it is proposed to introduce add on certification course on Programming and Coding. The duration of the course is proposed to be 30 hours.

The Board reviewed the proposal and it was suggested by Mr. Chetan Bhojani that Six Sigma course in semester 3 may be replaced with Programming and Coding instead of adding one more add on course in the courses being offered currently.

The Board after due deliberations approved the replacement of Six Sigma Course with Programming and Coding in semester 3 of MBA. The syllabus of the course was approved by the Board. (Annexure 7)

Resolved to approve item no. 9.1 and recommend the same to the Academic Council.

9.2 Add on Certification Course for MBA (BA)

The Program Assessment Committee recommended introduction of add on courses for MBA (BA) catering to the general and specific needs of the industry. The Board was informed that the addition of Add on Certification Courses in MBA has been well received and looking at the benefit accrued to the students the following courses are proposed to be offered to MBA (BA)

- Cyber Security of 30 hours duration
- Tableau & Power BI of 30 hours duration
- Programming and Coding of 30 hours duration
- Digital Marketing of 36 hours duration
- R-Studio of 12 hours duration
- MATLAB of 12 hours duration
- SPSS of 12 hours duration
- Advanced Excel of 12 hours duration

The Board reviewed the proposed Add on Certification Courses. Dr. Hitesh Shukla suggested to offer combination of two courses in each semester - one of longer duration and other of short duration.

The Board noted the suggestion and approved the Add on Value Certification Course as follows:

- Semester 1: Cyber Security of 30 hours duration and Advanced Excel of 12 hours duration

- Semester 2: Tableau & Power BI of 30 hours duration and SPSS of 12 hours duration
- Semester 3: Programming and Coding of 30 hours duration and R-Studio of 12 hours duration
- Semester 4: Digital Marketing of 36 hours duration and MATLAB of 12 hours duration

The Board was also presented with the detailed syllabi of the Add on Certification Courses and after due deliberation same were approved.

Resolved to approve item no. 9.1 and recommend the same to the Academic Council.

Item No. 10: Discontinuing the courses of MBA (a) Management Process and Organisation Behaviour (03BM0108) and (b) Human Value and Professional Ethics (03BM0113)

The Board was informed that a feedback was received to consider bifurcating the course titled – Management Process and Organisation Behaviour into two namely Principles of Management and Organisation Behaviour as the syllabus was too lengthy to be completed in the allotted number of sessions. Based on this feedback the PAC has recommended to discontinue MPOB (03BM0108).

The Board was also informed that feedback was also received to reduce the content of Human Value and Professional Ethics as many of the topics were repeated in Business Ethics and Corporate Governance. Keeping in view the repetitive content, the PAC recommended removal of the course Human Value and Professional Ethics (03BM0113) from the program structure.

The Board reviewed both the proposals and approved to discontinue Management Process and Organisation Behaviour (03BM0108) and (b) Human Value and Professional Ethics (03BM0113).

Resolved to approve item no. 10 and recommend the same to the Academic Council.



Item No. 11: To change the course titled Report on Industrial Study Tour (RSIT) (03BM0114 and 03BM0215) in semester 1 and 2 of MBA from credit to non-credit course.

The Board was informed that the objective of the course was to provide exposure to industrial units and not to evaluate them on their report writing skills and hence it was proposed that the course Report on Industrial Study Tour be converted to a non-credit course.

The Board reviewed the proposal and after due deliberations approved to convert RSIT to a non-credit course.

Resolved to approve item no. 11 and recommend the same to the Academic Council.

Item No. 12: To consider and approve the courses (a) Organisation Behaviour and (b) Principles of Management and their syllabi.

The Board was presented with the syllabi for (a) Organisation Behaviour and (b) Principles of Management. After reviewing and deliberating on the syllabi, the Board approved both the courses and syllabi. (Annexure 8)

Resolved to approve item no. 12 and recommend the same to the Academic Council.

Item No. 13: Revision in existing courses (a) Accounting for Managers (03BM1101), (b) International Marketing (03BM1319) and (c) Financial Derivatives and Risk Management (03BM0409) of MBA

The Board was informed that based on the feedback received from Faculty the PAC recommended revision in the course content of the courses (a) Accounting for Managers (03BM1101), (b) International Marketing (03BM1319) and (c) Financial Derivatives and Risk Management (03BM0409) of MBA.



The Board reviewed all the revised syllabi. Dr. Hitesh Shukla suggested that to make the distribution of content even, Introduction to Financial Accounting should be spread across two modules for the course Accounting for Managers (03BM1101). Dr. Sanjay Bhayani suggested that for International Marketing (03BM1319) the title of unit V may be modified to Contemporary Issues as the content on Counter trade and Grey Marketing has been proposed to be added.

After due deliberations, the Board approved the revisions in (a) Accounting for Managers (03BM1101), (b) International Marketing (03BM1319) and (c) Financial Derivatives and Risk Management (03BM0409) of MBA after incorporating the suggestions received from the external experts. (Annexure 9)

Resolved to approve item no. 13 and recommend the same to the Academic Council.

Item No 14: Attainment of Course Outcomes

The Board was informed that the target for CO attainment was set to be 52% and the same was achieved.

Since the CO attainment set at 52% was achieved, a revised target of 54% for CO attainment was proposed by PAC.

The Board noted the attainment levels for year 2018-19 and after due deliberations approved that CO attainment targets for year 2019-20 be set at 54%.

Resolved to approve item no 14 and recommend the same to the Academic Council.

Item No 15: Feedback from Stakeholders

The Board was informed that the PAC had collected feedback from students, industry and academic experts for the designing of PEO, PO and PSOs of MBA (Business Analytics) as well as for curriculum development. The Board was further informed that the suggestions/feedback received were incorporated in the PEO, PO, PSO and the curriculum as shown in the following table.

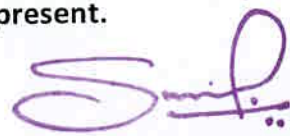
Suggestion	Action Taken
Changes in PEO, PO and PSO of MBA and MBA (BA) should be evident in the PSO as the MBA (BA) program is a domain focused program.	Based on the Feedback received from all stakeholders, the changes in the Program Specific Outcomes have been made
Keeping in view the growth of the field of Programming and Coding, a skill enhancement add on course should be provided to students	Add on Certification course on Programming and Coding introduced.
Some modifications in the delivery of MBA program should be done to make it suitable for working professionals to enroll in MBA	New Program- MBA (Executive) introduced
Course content for MPOB is too much to be covered in the sessions allotted	The course was split into two separate courses – Principles of Management and Organisation Behaviour
During Industrial Tours, students feel a pressure of collecting information for writing the report for RSIT and because of that they do not focus on the practical aspects of working in organizations	RSIT has been converted to a non-credit course.
New Standards of Accounting as and when announced should be included in the course Accounting for Managers	Revisions in syllabus done
International Marketing is an amalgamation of both International Business and Marketing hence proper balance of topics related to these fields should be maintained in the course syllabus	Revision in the syllabus done

The Board noted with satisfaction the suggestions received and actions taken on them.

The meeting concluded with a vote of thanks to all the members present.


Dr. Monica Verma
Member Secretary




Dr. Sunil Kumar Jakhoria
Chairperson & Dean

Minutes of 5th Meeting of Board of Studies

Faculty of Business Management

Date: 4 September 2020

Time: 4:00 PM

Venue: Google Meet Link: <https://meet.google.com/cvs-nojv-syg>

(The meeting was conducted online on account of Covid protocols)



The fifth meeting of Board of Studies of FoBM was held on 4th September 2020 at 4 PM. In view of the COVID-19 situation this meeting was conducted in online mode and the entire proceedings were recorded and attached herewith.

<https://drive.google.com/file/d/1CcA5useAhdcZ7KQs9Wj0oVH1cK4uBkUn/view?usp=sharing>

The following members attended the meeting:

Dr. Sunil Kumar Jakhoria Professor & Dean, Faculty of Business Management	Chairman
Prof. (Dr) Karunesh Saxena Director, Internal Quality Assurance Cell & College Development Council, MLS University	External Member, Academia
Prof. (Dr) Rajasekharan Pillai Professor, Manipal Institute of Management, Manipal Academy of Higher Education	External Member, Academia
Mr. Chetan Bhojani Founder, Add Value Consultants	External Member, Industry
Dr. Meeta Mandaviya	Member
Dr. Bhumika Achhnani	Member Secretary
Dr. Shrikant Ratley	Member
Dr. Raviraj Singh Gohil	Member

Members granted leave of absence

Dr. Aditya Srinivas	External Member, Industry
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Special Invitees to the 5th Board of Studies Meeting as below

Prof. Muthukumar Servai	Special Invitee
Dr. Dipti V. Sharma	Special Invitee

Prof. Sunil Kumar Jakhoria, Dean, Faculty of Business Management chaired the meeting and welcomed the members. He expressed special thanks to Prof. (Dr) Karunesh Saxena, Prof. (Dr) Rajasekharan Pillai, and Mr. Chetan Bhojani for sparing the time from their busy schedule to attend the meeting. He introduced the new members and appreciated the services

provided by the old members for BOS. He emphasized that with introduction of New Education Policy many changes in the current program structure are desirable. He also shared that the current program structure has been applicable for the past three years and with the ever changing needs of the industry, it is imperative that the department undertakes a major revamp or restructuring of the existing program while targeting the alignment with NEP 2020 as well. In view of all these requirements of changes in syllabi and program structure the department has formed departmental committees. He also shared that these committees have been asked to work on the major restructuring and to propose the new program structure and associated syllabi of different courses by the end of this year. He shared that in order to finalize those changes a BOS meeting is planned in February 2021. He also appreciated that in the present times the meeting has been organized online.

After that the agenda items listed were taken up for discussion and the following resolutions were passed.

Item No. 1: To confirm the minutes of the 4th BOS meeting held on 15th June 2019.

The minutes of the 4th BOS meeting held on 15th June 2019 were circulated to the old members and shown to the current BOS members. Since no comments were received, this BOS approved the minutes of the 4th BOS meeting.

Item No. 2: To report the action taken, where necessary, on the various decisions taken by the BOS in its 4th meeting held on 15-6-2019

As a part of the action taken on the resolutions of 4th BOS meeting the members were informed that the actions have been taken on all the suggestions. The Board noted the action taken, where necessary, on the various decisions taken in its 4th meeting held on 15th June 2019 and expressed its satisfaction.

Item No. 3: All agenda items related to Master of Business Administration program



3.1 **Revision in course content of the course - Statistics for Management (03BM0109)**

Semester 1

The Board went through the modifications in the existing syllabus of Statistics for Management (03BM0109) in Semester 1 and after detailed discussion approved the revisions to be applicable w.e.f. AY 2020-21 and resolved as under:

Resolved to approve item 3.1 and recommend the same to the Academic Council

3.2 **Replacement of textbook**

- Course: Quantitative Techniques for Decision Making (03BM0213) (Semester 2)
- Old textbook: Business Statistics for Contemporary Decision Making by Ken Black
- New Textbook: Quantitative Techniques in Management by N. D. Vohra

The Board noted the reason for replacement of textbook and approved the replacement of textbook w.e.f. AY 2020-21 and Dr. Karunesh Saxena suggested addition of Quantitative Analysis for Management by Barry Render, Ralph M. Stair, Michael E. Hanna & Trevor S. Hale, Pearson Publication as a reference book. The Board accepted the suggestion and resolved as under:

Resolved and approved the replacement of one textbook and addition of one reference book as per item 3.2

3.3 **Addition of one textbook:**

- Course: Behavioral Finance (03BM0329) (Semester 3)
- Textbook: M M Sulphery - - PHI Learning for course Behavioural Finance

The Board deliberated and approved the addition of textbook w.e.f. AY 2020-21 and resolved as under:

Resolved and approved the addition of textbook as per item 3.3

3.4 **Change in teaching/evaluation scheme of the following courses:**

- **Financial Analytics (03BM0331) (Semester 3)**
- **HR Analytics (03BM0336) (Semester 3)**
- **Marketing Analytics (03BM0334) (Semester 3)**

The Board noted with appreciation the changes suggested in the teaching scheme and after detailed discussions approved it from the running batch of students, i.e. MBA 2019-21. Dr. R Pillai suggested to increase the number of learning outcomes of course Marketing Analytics (03BM0334). The Board accepted the suggestion and advised the BOS Secretary to send the same suggestion to the subject area committee of Statistics and Analytics for further needful.

Resolved to approve change in teaching/evaluation scheme as per item 3.4 and recommend the same to the Academic Council.

Item No. 4: All agenda items related to Master of Business Administration (Business Analytics)

4.1 Reallocation of sessions allotted to the five modules to bring about more consistency and addition of one more course outcome for the course Economics for Decision Making (03BM0152) (Semester 1)

The Board deliberated and approved the re-allocation of sessions and addition of one more course outcome w.e.f. AY 2020-21. Dr. R. Pillai suggested addition of two behavioral theories of the firm in the syllabus. The suggestion has been accepted by Board and resolved as under:

Resolved and approved item 4.1

4.2 Revision in course content of the course – Data Science Using R (03BM0255) (Semester 2) and its teaching scheme

The Board went through the modifications in the existing syllabus and teaching scheme of Data Science Using R (03BM0255) in Semester 2 and after detailed discussion approved the revisions to be applicable w.e.f. AY 2020-21 and resolved as under:

Resolved to approve item 4.2 and recommend the same to the Academic Council

4.3 Revision in course content of the course – Project Appraisal & Finance (03BM0454) (Semester 4)

The Board went through the modifications in the existing syllabus of Project Appraisal & Finance (03BM0454) in Semester 4 and after detailed discussion approved the revisions to be applicable w.e.f. AY 2020-21. It was suggested to keep a list of suggestive case studies as

a footnote in the syllabus. The suggestion has been accepted by the Board and resolved as under:

Resolved to approve item 4.3 and recommend the same to the Academic Council

4.4 Change in teaching/evaluation scheme of the following courses:

- **Financial Modelling and Analytics (03BM0353) (Semester 3)**
- **Marketing Analytics (03BM0355) (Semester 3)**
- **Descriptive and Prescriptive Analytics using R (03BM0354) (Semester 3)**
- **Data Science Using R (03BM0255) (Semester 2)**
- **Python Programming (03BM0360) (Semester 3)**
- **Predictive Analytics using R (03BM0453) (Semester 4)**
- **Human Resource Metric and Analytics (03BM0455) (Semester 4)**
- **Big Data Analytics (03BM0452) (Semester 4)**
- **Hadoop & Apache Spark (03BM0460) (Semester 4)**

The Board went through the changes suggested in the teaching scheme and after detailed discussions approved it from running batch of students, i.e. MBA 2019-21. It has been resolved as under:

Resolved to approve teaching/evaluation scheme as per item 4.4 and recommend the same to the Academic Council

Item No 5: Attainment of Course Outcomes

The Board was informed that the target for CO attainment was set to be 54% and the same was achieved.

Since the CO attainment set at 54% was achieved, a revised target of 56% for CO attainment was proposed by PAC.

The Board noted the attainment levels for year 2019-20 and after due deliberations approved that CO attainment targets for year 2020-21 be set at 56%.

Resolved to approve item no 5 and recommend the same to the Academic Council.



Item No 6: Feedback from Stakeholders

The Board was informed that the PAC had collected feedback from students, industry, faculty and alumni for curriculum development. The Board was further informed that the suggestions/feedback received were incorporated in the curriculum as shown in the following table.

Suggestion	Action Taken
MBA - Semester 2 03BM0109-Statistics for Management 1. Unit-3 and Unit-4 deal with components of time-series such as trend analysis and seasonality respectively in detail and then in unit-5 "introduction to time series" comes into picture. Introduction should come first followed by its components and then detailed discussion of the components. 2. All major MBA courses offer probability in Statistics course of semester 1. The current MBA Regular Statistics syllabus misses on these topics, so it needs to be added in the syllabus. 3. "Hypothesis testing" concept is NOT even introduced. It could have been briefly discussed in one unit so that further in research methodology course, students could understand its practical application. Inferential statistics is the backbone of MBA level projects/ corporate assignments. 4. Instead of dedicating around 2.5 units to basic-level time-series analysis, it could be compressed in just one unit. Rest of the units can be given to probability distributions and hypothesis testing (at least parametric)	Modification in syllabus done
MBA - Semester 2 QTDM Ken Black fails to cover most of the syllabus. As such it may be replaced by a new text - J K Sharma which covers almost entire syllabus	Textbook replaced
MBA - Semester 3 Behavioural Finance Addition of Textbook: M M Sulphrey - Behavioral Finance PHI Learning was suggested	Textbook added in syllabus
MBA (BA) – Semester 4 03BM0454 Project Appraisal and Finance	Syllabus revision undertaken

Content of first model is lacking basic understanding of PROJECTS and introductory element, project risk & project financing needs to be added together. SCBA is one of the important chapter for project decision making, but was missing in this subject content.	
Teaching scheme of analytics based courses be more practical assessment oriented	Teaching – Evaluation scheme modified

The Board noted with satisfaction the suggestions received and actions taken on them.

Item No. 7 Any other point with the permission of the Chairman

7.1 All agenda items related to Master of Business Administration program also needs to be extended to MBA Executive program

The Board was informed that the course code of both the programs – MBA and MBA Executive are same and hence, all the resolutions passed for MBA program should be extended for MBA Executive as well. The Board approved the same.

Resolved to approve and recommend the same to the Academic Council

7.2 Reallocation of sessions allotted to module I and module III, 10 sessions to be allocated to module I and 7 sessions to module III for course Quantitative Techniques for Decision Making (03BM0213) (Semester 2)

Dr. Pillai suggested that more sessions are needed for teaching LPP and less sessions for teaching Assignment Problems and after a detailed discussion the suggestion has been accepted by the Board. It has been resolved as under

“Resolved and approved”

7.3 General Observations and Suggestions

Dr. Karunesh Saxena shared with the Board some of his general observations and suggested the following:

- Discovering Statistics Using IBM SPSS Statistics by Andy Field – Sage Publication should be included as a reference book in Analytics related subjects.
- With respect to SIG Training, he suggested to include a Training on Entrepreneurship
- The certificate course duration should be decided keeping in mind the target trainees. He suggested that duration of certificate courses may vary between 2 weeks to 6 months.
- Certificate program can as well be delivered through MOOC format.


- A webinar on “New Education Policy – 2020” should be organized for the faculties of the department.
- The courses can be made in compliance with NSQF (National Skills Qualifications Framework)
- Group projects to be introduced in teaching/evaluation scheme.

The meeting concluded with a vote of thanks to all the members present.



Dr. Bhumika Achhnani

Member Secretary



Dr. Sunil Kumar Jakhoria

Chairperson & Dean

Minutes of 6th Meeting of Board of Studies

Master of Business Administration

Faculty of Management Studies

Date: 28 June 2021

Time: 11:00 AM

Venue: Google Meet Link: <https://meet.google.com/dip-utwa-ryb>
(The meeting was conducted online on account of Covid protocols)



The sixth meeting of the Board of Studies of FMS was held on 28th June 2021 at 11 AM. Given the COVID-19 situation, this meeting was conducted in online mode and the entire proceedings were recorded and attached herewith.

The recording may also be accessed through the following link:

<https://drive.google.com/drive/folders/1oP0D7JpH3pBw57LxkdTpRliPoWbcqn1X?usp=sharing>

The following members attended the meeting:

Dr. Sunil Kumar Jakhoria Professor & Dean, Faculty of Management Studies	Chairperson
Prof. (Dr) Karunesh Saxena Director, Internal Quality Assurance Cell & College Development Council, MLS University, Udaipur	External Member, Academia
Prof. (Dr) Rajasekharan Pillai Professor, Manipal Institute of Management, Manipal Academy of Higher Education, Manipal	External Member, Academia
Mr. Chetan Bhojani Founder, Add Value Consultants, Rajkot	External Member, Industry
Dr. Meeta Mandaviya	Member Secretary
Dr. Bhumika Achhnani	Member Secretary
Dr. Shrikant Ratley	Member
Dr. Raviraj Sinh Gohil	Member

Members granted leave of absence

Dr. Aditya Srinivas	External Member, Industry
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Prof. (Dr.) Sunil Kumar Jakhoria, Dean, Faculty of Management Studies chaired the meeting and welcomed the members. He expressed special thanks to Prof. (Dr) Karunesh Saxena, Prof. (Dr) Rajasekharan Pillai, and Mr. Chetan Bhojani for sparing their valuable time out of their busy schedule to attend the meeting and providing suggestions. He discussed the need for the

development of a new curriculum and programme structure to include the recommendations of New Education Policy, 2020. As per the recommendations of the New Education Policy given by the Union Cabinet of India on 29th July 2020, and with the vision of an India-centric education system that contributes directly to transforming our nation sustainably into an equitable and vibrant knowledge society by providing high-quality education to all, he highlighted the key changes which have been done to align the recommendation in MBA (Regular and Business Analytics) programme structure and as well as syllabi. He also appreciated that in the present times the meeting has been organized online.

After that, the agenda items listed were taken up for discussion and the following resolutions were passed.

Item No. 1: To confirm the minutes of the 5th BOS meeting held on 4th September 2020

The minutes of the 5th BOS meeting held on 4th September 2020 were circulated among the members of BOS. Since no comments were received, this BOS approved the minutes of the 5th BOS meeting.

Item No. 2: To report the action taken, where necessary, on the various decisions taken by the BOS in its 5th meeting held on 04-09-2020

As a part of the action taken on the suggestions received and resolutions of the 5th BOS meeting, the members were informed that the actions have been taken on all the specific suggestions provided. The Board was informed that w.r.t. the suggestion provided by Dr. Karunesh Saxena to include SIG training on Entrepreneurship, the university has dedicated Centers - MUIIR for Entrepreneurship and CFB for Family Business which provide mentoring and coaching to students interested in entrepreneurship and/or upscaling their family business. With reference to the suggestion received on using MOOC platforms for certificate programs, the Board was informed that the University is considering signing a MOU with Coursera to provide such solutions. The Board was further informed that since the NEP implementation process is still in evolution stage it is desirable to provide more time to come up with proposals in this direction.



The Board was further informed that faculty members have been advised to use group projects as a part of continuous evaluation component.

The Board noted the actions taken, where necessary, on the various decisions taken in its 5th meeting held on 4th September 2020 and expressed its satisfaction.

Item No.: 3 Revision of Program Structure of MBA

The Board was informed that since the current MBA program was last revised in 2017, it was felt that the program should be revised to keep it abreast with the changes in the industry requirements. The Program Assessment Committee sought feedback from various stakeholders and the suggestions so received have been incorporated in the proposed program structure of MBA. (Annexure 1)

The proposed program structure was presented and the following points were discussed and decisions were taken:

3.1 Addition of new Specializations.

The Board was informed that based on the feedback received from industry, the PAC recommended addition of five more specializations in the MBA Program Structure. The specializations proposed to be added have been decided keeping in view the industry demand for specific skills in these areas.

The Board noted with appreciation the addition of the new specializations under the MBA program and after due deliberations approved them. The additional specializations will be offered w.e.f. AY 2021-22. (Annexure 2)

Resolved to approve item 3.1 and recommend the same to the Academic Council

3.2 Addition of courses within existing Specializations.

The feedback from students suggested that they would appreciate more choices being offered to them within the specializations. Based on this, the PAC recommended offering a choice of 10 specialization electives in each specialization against the 8 choices of specialization electives available in the current program structure.

The Board noted with satisfaction, the addition of courses within existing specializations. The Board deliberated on course titles, teaching - evaluation scheme for the courses under the

existing specializations and new specializations in the MBA program structure and after due deliberations approved the same. (Annexure 3)

Resolved to approve Item 3.2 and recommend the same to the Academic Council

3.3 Addition of General Electives.

The Board was informed that PAC received feedback from faculties to include some courses of general nature in the program structure which do not fall under any specialization but are needed for a management graduate. Taking that feedback forward, the PAC has recommended introduction of general electives during semester 3 and 4 of MBA program. The list of proposed General electives was presented. The Board deliberated on course titles, teaching - evaluation scheme for the proposed general elective courses to be offered in semester III and IV of MBA. After due deliberations, approval for the same has been given by all the members of BOS. These changes will be applicable w.e.f. AY 2021-22. (Annexure 4)

Resolved to approve Item 3.3 and recommend the same to the Academic Council

3.4 Addition of Skill Enhancement Courses

The PAC based on its internal deliberations as well as deliberations within the faculty group felt that since the students were putting in a lot of efforts and investing a lot of time in their academic schedule for the Add-on Certification courses, it is advisable to bring the add-on courses under the formal credit system of the MBA program. Furthermore, feedback received from faculty suggested that students should be given more options within the Add-on courses. Keeping the above suggestions in mind, the PAC recommended converting the Add on Certificate Courses to Skill Enhancement Courses with credits and to offer a choice of three such Skill Enhancement Courses out of which the student may choose any two in each semester. The Board noted with appreciation and approved course titles under Skill Enhancement Courses for MBA Program along with the suggested teaching - evaluation scheme.

After due deliberations, the Board approved the addition of Skill Enhancement Courses. These changes will be applicable w.e.f. AY 2021-22. (Annexure 5)

Resolved to approve Item 3.4 and recommend the same to the Academic Council. The Board also communicated its satisfaction with the presence of all categories of courses

namely, core management courses, specialization electives, general electives, skill enhancement courses and projects.

Item No. 4: Syllabus of MBA Courses

The Board was informed that the proposed program structure as approved in item no 3 included some existing courses and many new courses have been added.

The details were taken up for discussion and approval as follows:

4.1 Revision of Existing Courses

The Board was informed that the PAC reviewed each existing course and recommended revisions in those courses keeping in view the recent developments in their respective fields. The revised syllabi of existing courses were presented and the Board noted with satisfaction that the courses have been updated to incorporate the latest developments in their respective areas.

Following suggestions were received:

- Dr. Pillai suggested to include “Communication Prior-During-Post any emergency” and “How to convey an unpleasant message” topics in the course Business Communication.
- For the course Business Research Methods, Dr. Pillai suggested to include few topics like Identification of research topics and its refinements, Review of Literature, Research Gap, Statement of Problem, Research Objectives, Research Questions, Hypotheses, Components of Research Design/Methodology, Various Data Collection methods. He also suggested to add the following books as reference books in the syllabus for Business Research Methods:

- Zikmund, W.G., Babin, B. J., Carr, J.C., Adhikari, A., & Griffin, M. (2016). Business Research Methods: A South –Asian perspective. New Delhi: Cengage Learning
- Saunders, M., Lewis, P. & Thornhill, A. (2011). Research Methods for Business Students, 5th Edn. New Delhi: Pearson Education Ltd.
- Sekaran, U. & Bougie, R. (2016). Research Methods for Business: A Skill-Building Approach, 4th edn. USA: John Wiley and Sons Inc.

The Board noted the suggestions and after due deliberations approved the syllabi after incorporating the suggestions provided by Dr. Pillai. These changes will be applicable w.e.f. AY 2021-22. (Annexure 6)

Resolved to approve Item 4.1 and recommend the same to the Academic Council

4.2 Syllabi of new courses

The syllabi of new courses introduced were presented. The Board reviewed the same. Dr. Pillai suggested modification in the course outcomes of some courses to align them with Bloom's Taxonomy.

The Board, after due deliberations accepted the suggestion and approved the syllabi after incorporating the suggestions provided by Dr. Pillai. These changes will be applicable w.e.f. AY 2021-22. (Annexure 7)

Resolved to approve Item 4.2 and recommend the same to the Academic Council

Item No. 5: Revision of Program Structure of MBA (Business Analytics)

The Board was informed that feedback from faculty members suggested that the two programs MBA Regular and MBA Business Analytics being post graduate programs in management should have some common courses of management domain. This will also help in having a common framework for introduction of domain-based post graduate management programs in future. Based on the suggestions received, the PAC has recommended a revised program structure for MBA (Business Analytics). (Annexure 8)

The proposed program structure was presented and the following points were taken up for discussion and approval:

5.1 Addition of new domain courses

The Board was informed that in order to keep the program updated with the latest developments in the field of analytics new domain courses were introduced while removing the courses which were outdated.

The Board reviewed the list of new courses introduced and communicated its satisfaction with the same. After due deliberations the Board approved the same.

Resolved to approve Item 5.1 and recommend the same to the Academic Council

5.2 Addition of General Electives.

The Board was informed that PAC has recommended to include all the general electives approved for MBA program in item 3.3 to be introduced for the MBA (Business Analytics) as well citing the same reasons.

The Board noted with satisfaction and approved the addition of General Electives in MBA (Business Analytics) Program Structure.

Resolved to approve Item 5.2 and recommend the same to the Academic Council. The Board also communicated its satisfaction with the presence of all categories of courses namely, core management courses, domain specific courses, general electives and projects based courses needed for a domain specific post graduate management program.

Item No. 6: Syllabus of MBA (Business Analytics) Courses

6.1 Syllabi of courses aligned with MBA Program

It was recommended that syllabi of all the courses approved in item 4 for core courses and general electives should be extended for MBA (Business Analytics) for alignment of two programs.

The Board reviewed the proposal and after due deliberations approved the same.

Resolved to approve Item 6.1 and recommend the same to the Academic Council

6.2 Revision of Existing Courses

The Board was informed that the PAC reviewed each existing courses and recommended revisions in those courses keeping in view the recent developments in their respective fields. The revised syllabi of existing courses were presented and the Board reviewed them.

Following suggestions were received:

For the course Economics for Decision Making, Dr. Pillai suggested:

- To modify the course outcomes in line with the standard practice of mapping it with Bloom's Taxonomy.
- Removing some pure economics topics from the syllabus.
- To remove the overlapping in Module IV and V by removing Limit Pricing
- To include a topic on Decision Making under Risk and Uncertainty.

- To include behavioural bias on investment like Dispositional Effect, Herding Behaviour, Hone Bias, Availability Bias and Overconfidence bias.
- To include trade cycle, exchange rate and macroeconomics in the syllabus.
- To remove the Modern Microeconomics by Koutsoyiannis from the list of textbooks and instead include the following textbooks:
 - Thomas, C. R & Maurice, S. C. (2016). Managerial Economics: Foundations of Business Analysis and Strategy. Mc Graw Hill
 - Samuelson & Nordhaus (1998) Economics. Mc Graw Hill

After due deliberations the Board, for the course Economics for Decision Making, approved the syllabus after incorporating all the suggestions provide by Dr. Pillai except for the inclusion of trade cycle, exchange rate and macroeconomics topics. It was resolved that the topics related to macroeconomics including investors' behavioral bias on investment will be taken up for consideration in the next cycle of syllabus update process. It was also resolved that instead of removing the pure economics topics, these topics will be taught to the students from the perspective of decision-making targeting utility analysis.

The Board approved all the other syllabi in their presented form. (Annexure 9)

Resolved to approve Item 6.2 and recommend the same to the Academic Council

6.3 Syllabi of New Courses

The syllabi of new courses introduced were presented. The Board reviewed the same.

The following suggestions were received:

For the course SPSS, Dr. Pillai suggested

- To cover the following topics in the syllabus: Split-file analysis; Weight case analysis; n-way ANOVA; Factorial ANOVA; MANOVA; ANCOVA; MANCOVA; Multi-variate normality; Process Modelling; Reliability Analysis; Factor Analysis; Correspondence Analysis; Artificial Neural Networking; Discriminant Analysis.
- To include three more textbooks in the syllabus as mentioned under:
 - Hinton P R et al. (2018). SPSS Explained. Routledge
 - Hair Jr. F. et all (2011) Multi-variate Data Analysis. Prentice Hall

- o Field, A. (2018). Discovering Statistics using IBM SPSS Statistics, 4th Edn. Sage

The Board reviewed the suggestions provided by Dr. Pillai and it was decided that the topics suggested by Dr. Pillai will be taught to the students in the form of a Workshop in their semester 3 of MBA (BA) Program. Other suggestions provided by Dr. Pillai were approved to be included in the syllabus for SPSS.

After due deliberations, the Board approved the listed item. These changes will be applicable w.e.f. AY 2021-22. (Annexure 10)

Resolved to approve Item 6.2 and recommend the same to the Academic Council

Item No 7: Attainment of Course Outcomes

The Board was informed that the target for CO attainment was set to be 56% and the same was achieved.

Since the CO attainment set at 56% was achieved, a revised target of 58% for CO attainment was proposed by PAC.

The Board noted the attainment levels for year 2020-21 and after due deliberations approved that CO attainment targets for year 2021-22 be set at 58%.

Resolved to approve item no 7 and recommend the same to the Academic Council.

Item 8: Feedback from Stakeholders

The Board was informed that the PAC had collected feedback from industry and academic experts before finalizing the proposed program structure. The Board was further informed that the suggestions/feedback received were incorporated in the curriculum as shown in the following table.

Suggestion	Action Taken
Number of specializations should be increased to meet the specific needs of industry.	Number of Specializations increased to nine.
More options of courses within each specialization should be provided	Number of specialization electives increased to 10.

Some courses of general nature in the program structure which do not fall under any specialization but are needed for a management graduate	Addition of General Electives in Program Structure
Add on Certification Courses should be included under credit system	Skill Enhancement Courses with 2 credits each introduced
Students should get a choice of skill courses do decide for themselves which skills they want to develop	Choice of three Skill Enhancement Courses out of which students are required to choose any two in each semester
The two programs MBA Regular and MBA Business Analytics being post graduate programs in managements should have some common courses of management domain.	Alignment of MBA and MBA (BA) Program done
There should be a common framework for our MBA programs so that in future if some other domain specific programs are offered the framework of all those programs may be aligned at least for the core management courses.	Alignment of MBA and MBA (BA) Program done

The Board noted with satisfaction the suggestions received and actions taken on them.

Item No. 9: Any other point with the permission of the Chairman

General Observations and Suggestions

Dr. Karunesh Saxena shared with the Board some of his general observations and suggested the following:

- The courses may be made in compliance with NSQF (National Skills Qualifications Framework)
- Introduction of 5 years of Integrated programme

- Introduction of 4 years of graduation programme (10+2+4) where last semester should be devoted to Research.
- Introducing 1 year and 2 years of Master's degree courses.

Mr. Chetan Bhojani suggested introducing Self-Paced Online courses for the skill enhancement of students in future. He further suggested enhancing Emotional Intelligence skills of students through seminar and simulation exercises in addition to the general elective course on Emotional Intelligence.

Dr. Sunil Kumar Jakhoria suggested future recommendations for the Program Assessment Committee to work upon following:

- Introduction of 5 years of Integrated programme in Faculty of Management Studies, Marwadi University where multiple entry and exist options may be provided. The students may be awarded with Certification at every level.
- Alignment of Recommendations of the New Education Policy, 2020 with 4 years of graduate programme, with reference to last year which is devoted to Research.
- Including new components in teaching and evaluation scheme like open book examinations and take-home examinations.

The meeting concluded with a vote of thanks to the Chairperson and all the members present.



Dr. Bhumika Achhnani

Member Secretary



Dr. Sunil Kumar Jakhoria

Chairperson & Dean



Minutes of 7th Meeting of Board of Studies

Master of Business Administration

Faculty of Management Studies

Date: 24 December 2021

Time: 4:00 PM

Venue: Google Meet Link: meet.google.com/wys-edmc-ygv

(The meeting was conducted online keeping in view the convenience of external members)

The seventh meeting of the Board of Studies of FMS MBA was held on 24th December 2021 at 4 PM. Keeping the convenience of all the members in mind, this meeting was conducted in online mode and the entire proceedings were recorded and are attached herewith.

The recording may also be accessed through the following link:

<https://drive.google.com/file/d/1o98cp8Xu0z5MjO0IhpPGX25Egj8NXpRm/view?usp=sharing>

The following members attended the meeting:

Prof (Dr) Sunil Kumar Jakhoria Professor & Dean, Faculty of Management Studies	Chairperson
Prof (Dr) Rajasekharan Pillai Professor, Manipal Institute of Management, Manipal Academy of Higher Education, Manipal	External Member, Academia
Mr. Chetan Bhojani Founder, Add Value Consultants, Rajkot	External Member, Industry
Dr. Meeta Mandaviya	Member
Dr. Bhumika Achhnani	Member Secretary
Dr. Shrikant Ratley	Member
Dr. Raviraj Sinh Gohil	Member

Members granted leave of absence

Dr. Aditya Srinivas	External Member, Industry
Dr. Karnesh Saxena	External Member, Academia

Special Invitees to the meeting

Prof (Dr) Pramod Goyal	Special Invitee
Prof (Dr) Bijay Bhujabal	Special Invitee
Prof (Dr) Vinay Gupta	Special Invitee

Prof. (Dr.) Sunil Kumar Jakhoria, Dean, Faculty of Management Studies chaired the meeting and welcomed the members. He expressed special thanks to Prof. (Dr) Rajasekharan Pillai, and Mr. Chetan Bhojani for sparing their valuable time out of their busy schedule to attend the meeting and providing suggestions. He congratulated Prof (Dr) Karunesh Saxena in his absentia for being appointed as the Vice-Chancellor of Sangam University, Bhilwara, Rajasthan.

After that, the agenda items listed were taken up for discussion and the following resolutions were passed.

Item No. 1: To confirm the minutes of the 6th BOS meeting held on 28th June 2021

The minutes of the 6th BOS meeting held on 28th June 2021 were circulated among the members of BOS. Since no comments were received, this BOS approved the minutes of the 6th BOS meeting.

Item No. 2: To report the action taken, where necessary, on the various decisions taken by the BOS in its 6th meeting held on 28th June 2021

As a part of the action taken on the suggestions received and resolutions of the 6th BOS meeting, the members were informed that the actions have been taken on all the specific suggestions provided. The Board was informed that w.r.t. the suggestion provided by Dr. Karunesh Saxena to introduce 1 year and 2 years of Master's Degree Courses, a committee at the University level has been constituted to work for rolling out NEP compliant programs. However, keeping in view the release of continuously updated documents, it has been decided that few such programs are targeted to be introduced by 2023 and others by 2024 to provide enough time to find out the right model for our University as many universities are rolling out their own versions of NEP compliant programs.

The Board was informed that w.r.t. to the suggestion provided by Mr. Chetan Bhojani to introduce self-paced Online Courses for skill enhancement, the university has signed a MOU with Coursera. For introducing simulation exercises also proposals are being reviewed.

The Board noted the actions taken, where necessary, on the various decisions taken in its 6th meeting held on 28 June 2021 and expressed its satisfaction.

Item No. 3: Revision of Syllabus and title for Course International Marketing – A Specialization Elective for MBA Program

The Board was informed faculty feedback on syllabi suggested a revision in the course title of **International Marketing (04MB0322)** to Global Marketing in tune with the evolving changes in the subject area. The topics related to broader International Business course were

suggested to be dropped in favor of Global Marketing topics. It was also suggested to include some contemporary topics in the syllabus. The PAC on the basis of above feedback proposed a revision in the syllabus of course International Marketing (04MB0322).

The Board reviewed the proposed revisions and Dr Pillai suggested to include the following topics may be included in the syllabus: "Marketing in VUCA world", Panic Buying, FOMO – Fear of Missing Out, Marketing Profiling in International Context, Cross Cultural Analysis. The following books were also suggested to be included as text and reference books: International Marketing in the Network Economy by Florian Kohlbacher and International Marketing Strategy: Analysis, Development and Implementation by Isobel Doole, Alexandra J. Kenyon, and Robin Lowe

The Board appreciated the suggestions and after due deliberations approved the syllabus after incorporating the suggestions received. Change in title from International Marketing to Global Marketing was also accepted. These changes will be applicable w.e.f. AY 2021-22. (Annexure 1)

Resolved to approve Item 3 and recommend the same to the Academic Council"

Item No. 4: To discontinue MBA (Executive) Program w.e.f. AY 2022-23

The board was informed there have been no admissions in the program since past two years and in the first year of its launch there were only a few students who enrolled for the program; hence it was proposed to be discontinued from AY 2022-23.

The board accepted and approved the decision to discontinue MBA (Executive) Program w.e.f. AY 2022-23.

Item 5: Feedback from Stakeholders

The Board was informed about the suggestion received from stakeholders as mentioned in the table below:

Suggestion	Action Taken
Course title for International Marketing should be changed to Global Marketing, course outcomes should be modified, contemporary topics should be included and the topics inside the units should be organized more logically	Revision in course title and syllabus have been done.



The Board noted with satisfaction the suggestions received and actions taken on them.

Item No. 6: Any other point with the permission of the Chairperson.


Prof (Dr) Sunil Kumar Jakhoria, Dean, FMS informed the Board about the latest developments in the department in the form of a presentation where he covered the following points:

- Faculty Profile in terms of strengths and the diversity.
- Measures initiated to enhance the research profile of the department in terms of the facilities and incentives being offered to the faculty members.
- MOU with Institute of Chartered Accountants of India and Université de Dunaújváros
- Constitution of NEP Committee
- Constitution of Faculty Board
- Constitution of Departmental Research Committee.
- Examination Reforms like relative grading, open book tests, take home examinations, online proctored examinations
- Introduction of Open Electives
- Proposed introduction of UG program in Economics
- Number of PhD scholars enrolled with FMS
- Possibilities of Simulation Exercises being introduced in the MBA programme.
- Upcoming major events – International Conference and FDP on Research Methodology and Data Analysis

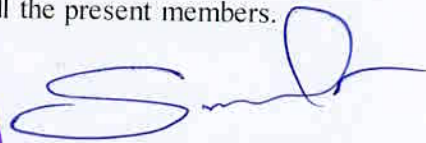
The Board noted the developments and congratulated the Dean, FMS for those developments in the department.

Dr. Pillai suggested to introduce a Behavioral Lab.

The meeting ended with a vote of thanks to the chairperson and all the present members.


Dr. Bhumika Achhnani
Member Secretary




Dr. Sunil Kumar Jakhoria
Chairperson & Dean

Minutes of Meeting – Board of Studies A. Y. 2017-18

Date: 5/6/2017		Meeting no: 01	
Start time: 11:00 AM	End time: 1:00 PM	Total time: 2 hours	
Chaired by	Prof. C. D. Parmar (HOD - ICT, Marwadi University)		
The formal welcome of members of the board of studies was done by Dr R. B. Jadeja.			
Agenda - 1	Approval of Vision, Mission, PO, PSO and CO		
Discussion and Resolution	<ul style="list-style-type: none"> • Vision and Mission were discussed in alignment of University's Vision and Mission. It was approved by the committee members and University's concerned authorities. • Program outcomes (PO) were adopted as per the recommendation of UGC policy and Faculty of Technology policy of Marwadi University for outcome-based education. • Program Specific Outcomes (PSO) for ICT department were proposed and approved by the Board Members. 		
Agenda - 2	Designing of syllabus framework for 1st year (Credits and teaching scheme)		
Discussion and Resolution	<ul style="list-style-type: none"> • Subjects covered are appropriate. There shall be one change in Engineering Graphics. The subject should be like Engineering Drawing and Computer Graphics. • Credit should be given according to hours i.e. 1 credit per hour for theory, 1 credit per 2 hours for laboratory/tutorial. • Total Contact hours for the students should not be more than 30 hours. • The suggestion regarding the conduction of the Viva Exam was brainstormed among the committee members and was decided that the subject faculty is going to conduct the Viva exam. • In tutorial there shall be no teaching in continuing to syllabus covered in class but there shall be doubt solutions and practice should be carried out. It should not be necessary to solve only examples. It may also cover connection of mathematics with engineering problems. • The suggestion from the expert was discussed regarding Evaluation scheme. Evaluation should be carried out for 100 marks instead of 150 marks. The bifurcation of 100 marks is 50 (End semester exam), 20 (Mid semester exam) and 30(continuous semester evaluation). The suggestion was not 		

	<p>feasible as per the uniformity in the evaluation scheme across the University.</p> <ul style="list-style-type: none">• Targeted CO-PO and PSO attainment is 50% for the academic year 2017-18.• The expert suggested that the Practical/Laboratory should be considered as a separate subject in mark sheet and its assessment should be done from 100 marks. Laboratory timing should be 3 hour slot. The suggestion was not feasible as per the uniformity in the evaluation scheme across the University.• Instead of subject name as engineering mathematics there should be content base name to be considered. e.g. linear algebra, calculus. This suggestion is forwarded to the Mathematics department to brainstorm and the decision will be applicable from the next academic year.• The name of subject “Data structure & Algorithm Design” should be name as “Data structure & Algorithm”. The suggestion is accepted and implemented.• Subject “Career readiness program” should be name as “Professional skill development”. The suggestion is forwarded to L&D Department as it is a common subject among all branches of Faculty of Technology.• Advantages of Choice Based Credit System were discussed and proposed to the Dean of Faculty of Technology of Marwadi University.• As per the guideline of UGC, Non-Credit Course named “Physical Education/Sports/Yoga has been presented and approved.• Subjects of the first year were categorized into Basic Science, Engineering Science, Professional Core, Non-Credit Course, and HSMC. The committee has suggested to prepare syllabus structure of next 3 years with appropriate balance in the categorization. <p>Suggestion from Dr. S. L. Maskara for Marwadi University Engineering Program.</p> <ul style="list-style-type: none">• Four years course plan should be ready and it should be presented in the next BoS meeting.• Fix up frame work of Marwadi University followed by clusters which further followed by department.• Course structure should be mapped with Washington accord guideline for basic science, humanity and social science, professional subject core, professional subject electives, open electives etc. (ICT department of Marwadi University has
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	<p>prepared it for first year)</p> <ul style="list-style-type: none"> • There shall be limited main cluster of streams which have few common subjects. e.g. Electrical, EC, CSE, IT, ICT. • Brain storming is required to decide for choice based flexible credit system implementation. • There should be some audit subject included of less credit to increase the breadth of engineering knowledge.
Agenda - 3	Discussion on CO-PO, PSO mapping and attainment
Discussion and Resolution	<ul style="list-style-type: none"> • All the course outcomes for 1st year subjects were proposed and approved by the Board Members. • CO-PO and PSO mapping of 1st year subjects was brainstormed and finalized. • Proposed CO-PO and PSO target for AY 2017-18 was discussed and finalized to be 50% for majority of the subjects and subject which is in high demand in industry such as computer programming has given more weight age i.e. 52%.
Agenda - 4	Suggestion for preparing students for industry ready
Discussion and Resolution	<ul style="list-style-type: none"> • To bridge the gap between academia and industry, the committee felt the need to motivate and train the students to take summer internships from the 3rd year itself. • Faculty should be trained for conducting certain subjects with “Learning By Doing” approach. • Project/Problem Based Learning should be included in the assessment scheme of relevant subjects.

Prof. C. D. Parmar offered vote of thanks to members of the board of studies for sparing their valuable time and giving constructive suggestions.

Minutes of Meeting – Board of Studies A. Y. 2018-19

Date: 5/5/2018		Meeting no: 02	
Start time: 11:30 AM	End time: 5:30 PM	Total hours: 5 hours	
Chaired by		Prof. C. D. Parmar (HOD – ICT, Marwadi University)	
Formal welcome of members of the board of studies was done by Prof. C. D. Parmar.			
Section - A		Action taken based on previous meeting	
Agenda - 1		Approval of Vision, Mission, PO and PSO	
Action taken		No further modification required.	
Agenda - 2		Designing of syllabus framework for 1 st year (Credits and teaching scheme)	
Action taken		The elective domain was finalized. A roadmap of the teaching scheme for all 4 years had been laid out, and the inputs about the syllabus content, mode of examination, and name of the subjects were gained from the esteemed members of the BoS committee.	
Agenda - 3		Discussion on CO-PO, PSO mapping and attainment	
Action taken		No further modification required.	
Agenda - 4		Suggestion for preparing students for industry ready	
Action taken		Industrial internship approved.	

Section: B		Agenda for discussion	
Agenda - 1		Designing of Syllabus framework for 2nd year (Credits and teaching scheme) B.Tech. ICT	
Discussion and Resolution		<p>All experts have reviewed the teaching learning process and assessment process for the academic year 2017-18. The detailed syllabus and teaching scheme for semesters 3 and 4 were presented for discussion and suggestions from the experts. The draft teaching scheme for semesters 5, 6, 7 and 8 were presented as per the suggestions of the previous BoS meeting.</p> <ul style="list-style-type: none"> • Subjects are as per the required flow of learning for ICT specialization. • Experts insist to promote project-based learning. One minor project can be assigned to the integration of various subjects. • Canvas or similar LMS portals would be used for continuous evaluation purposes. • They have also suggested some changes in flow for subjects offered in the first 3 semesters for a better learning curve. • Instead of Computer Workshop and Electrical and 	

	<p>Electronics workshop subjects, ICT workshop subject is more suitable for ICT graduates which cover learning outcomes for both subjects.</p> <ul style="list-style-type: none"> • One subject focused on Project-based learning can be introduced in the 1st semester. • All mathematics subjects in the first three semesters should be given an appropriate name as per the content covered in the syllabus. • ICT graduates will be able to work with data analytics, so basic concepts of data analytics may be introduced in the 1st year. IRRS subject is introduced in semester 2 from the next academic year. • Instead of teaching Data Structure and Algorithm in semester 2, first preference must be given to Object-Oriented Programming subject. Swapping of DSA and OOP will be conducted from next academic year. • Some suggestions have been given by experts about the contents of subjects and it is implemented. • To inculcate a design thinking mindset and to promote entrepreneurship Design Engineering, Human Center Design and Reverse Engineering are suggested to execute in active learning mode. • All the teaching schemes and syllabus for 2nd,3rd and 4th have been proposed and courses and syllabi were designed keeping in mind that it should be relevant to the current demands and needs of the industry, and students must gain contemporary skills and must provide the platform for any entrepreneurship roles as well.
<p>Agenda - 2</p>	<p>Choice-Based Credit System and finalization of the possible specializations in ICT</p>
<p>Discussion and Resolution</p>	<ul style="list-style-type: none"> • Elective subject possibilities have been discussed, and five possible tracks have been identified. Elective subjects would be offered from Semester 5. In semester 5, students can take any one subject out of 5 subjects as an elective 1 and in semesters 6 and 7, students can choose any 2 subjects from the given 10 subjects as electives 2,3, and 4,5, respectively. • Teaching and examination scheme was prepared for batch 2017-21(semester 3 to 8) and 2018-22(semester 1 to 8) batch. • Choice Based Credit System were discussed and implemented for the students from AY 2018-19 onwards as per guideline of university. • All the teaching schemes and syllabus for 2nd,3rd and 4th have been proposed and courses and syllabi were designed keeping in mind that it should be relevant to the current



	<p>demands and needs of the industry, and students must gain contemporary skills and must provide the platform for any entrepreneurship roles as well.</p> <ul style="list-style-type: none">• CO-PO and PSO mapping for semester 1, 2, 3 and 4 for academic year 18-19 were discussed and finalized.
Agenda -3	Analysis and finalization of CO-PO and PSO attainment
Discussion and Resolution	<ul style="list-style-type: none">• The targeted attainment for CO-PO and PSO is achieved for the semester 1 of academic year 2017-18 for all subjects except Basics of Electronics Engineering.• Upon further analysis it is decided that target attainment for AY 2018-19 will be kept 50%.• For meeting a demand of industry subjects namely FSSI and IRRS in 1st year and subjects like Computer Organization and Architecture, OOP and Design Engineering in 3rd semester will be given more weightage i.e. 52%.

Prof. C. D. Parmar offered vote of thanks to members of the board of studies for sparing their valuable time and giving constructive suggestions.



Minutes of Meeting – Board of Studies A. Y. 2019-20

Date: 24/5/2019		Meeting no: 03	
Start time: 10:30 AM	End time: 4:30 PM	Total hours: 5 hours	
Chaired by		Prof. C. D. Parmar (HOD – ICT, Marwadi University)	
Formal welcome of members of the board of studies was done by Prof. C. D. Parmar.			
Section - A		Action taken based on the previous meeting	
Agenda – 1		Designing of Syllabus framework for 2nd year (Credits and teaching scheme) B.Tech. ICT	
Action taken		All experts have appreciated the project-based learning implementation by the department. The challenges and its solutions to carry out the Industry Internship for summer break was discussed.	
Agenda – 2		Choice-Based Credit System and finalization of the possible specializations in ICT	
Action taken		Teaching scheme for all 8 semesters had been proposed and decided according to the UGC guidelines of credit structures. BoS committee members gave their valuable feedback on the teaching scheme and syllabus of MOOC-based credit courses for the final semester.	
Agenda – 3		Analysis and finalization of CO-PO and PSO attainment	
Action taken		No further modification is required.	

Section: B		Agenda for discussion	
Agenda - 1		Designing of Syllabus framework for 3rd year, B.Tech. ICT	
Discussion and Resolution		<p>All experts have reviewed the teaching scheme of all semesters and proposed a syllabus for 3rd-year subjects. The syllabus for compulsory and elective subjects has been brainstormed in the meeting.</p> <ul style="list-style-type: none"> • In summer vacation students are encouraged to opt for a summer internship at industries or internships from home, and work on projects under the guidance of faculties or industry mentors. • Suggestions have been given by experts about the contents of subjects for semesters 5 and 6. • CO-PO and PSO mapping for semester 5 and 6 for academic year 19-20 were discussed and finalized. 	

Agenda - 2	Planning for value-added courses for the academic year 2019-20.
Discussion and Resolution	<ul style="list-style-type: none"> • The committee discussed and felt that current industrial skills would be needed for the students in their engineering career apart from the regular academic courses and therefore value-added courses must be organized by the ICT department. • From the next academic year, according to the current industry demands, one must provide value-added courses to the students in scripting languages like Python and some background knowledge in JAVA framework like MEAN stack which would be very much helpful in their placement. • For the physical health of the students, a value-added course “Frolic” should happen every year.
Agenda -3	Analysis and finalization of CO-PO and PSO attainment
Discussion and Resolution	<ul style="list-style-type: none"> • The targeted attainment for CO-PO and PSO is achieved for the semester 2 and semester 3 for all subjects except Signals and Systems and OOP for 2017-18 batch. For 2018-19 batch targeted attainment is achieved for all subjects of semester 1 except Basics of Electronics Engineering. • Upon further analysis it is decided that target attainment for AY 2019-20 will be kept 50% for majority of the subjects and 52% for all elective and industry driven subjects for semester 5 and 6. • For semester 3 and 4 attainment target is kept same as AY: 2018-19 and for semester 1 and 2 all subjects target attainment is increased by 2% i.e 52% except ICP which is kept at 53%.

Prof. C. D. Parmar offered vote of thanks to members of the board of studies for sparing their valuable time and giving constructive suggestions.



Minutes of Meeting – Board of Studies A. Y. 2020-21

Date: 12/6/2020		Meeting no: 04	
Start time: 03:00 PM	End time: 06:00 PM	Total hours: 3 hours	
Chaired by		Prof. C. D. Parmar (HOD – ICT, Marwadi University)	
Formal welcome of members of the board of studies was done by Prof. C. D. Parmar.			
Section - A		Action taken based on the previous meeting	
Agenda - 1		Designing of Syllabus framework for 3 rd year, B.Tech. ICT	
Action taken		The teaching learning and evaluation process for the subjects of AY 19-20 was discussed and evaluated. BoS committee members appreciated the project-based learning and Learning by Doing approach. The internship report discussed benefits and challenges faced by students. Core and elective subjects for semesters 5 and 6 were discussed.	
Agenda - 2		Planning for value-added courses for the academic year 2019-20.	
Action taken		Frolic value-added course was conducted during the previous academic year and should be repeated. Previously discussed value added courses such as MEAN STACK and Problem Solving Using Python are ongoing and will be completed within July 2020.	
Agenda - 3		Analysis and finalization of CO-PO and PSO attainment	
Action taken		No further modification is required.	

Section: B		Agenda for discussion	
Agenda - 1		Presentation of Project-Based Learning and Learning By Doing activities.	
Discussion and Resolution		<ul style="list-style-type: none"> Active learning assignments and project-based learning experiences for semesters 1 to 6 were presented. Projects of the selected students were demonstrated as an outcome of project credit in various subjects. 	
Agenda - 2		Designing of Syllabus framework for 4th year, B.Tech. ICT	
Discussion and Resolution		<p>All experts have reviewed the teaching scheme of all semesters and proposed a syllabus for 4th-year subjects. The syllabus for compulsory and elective subjects has been brainstormed in the meeting.</p> <ul style="list-style-type: none"> Internship/project assessment guidelines were discussed and finalized. Special courses in the defined minor elective tracks were suggested and also proposed course revision frequently through BoS to meet requirements of advancement in the field. These elective courses will run on the MOOC basis as per the guidelines by AICTE to avail certain credits through MOOC. 	



Agenda -3	Proposed Teaching Scheme for the Batch 2020-2024
Discussion and Resolution	<ul style="list-style-type: none">• Summer internship experiences were discussed and certain modifications in the subject sequences were taken into brainstorming for the prerequisite of internships.• Looking towards diversification of course, BoS members have promoted a choice-based flexible credit system for upcoming admitted students.• Final structure of elective subjects will be proposed in next Academic year BoS.• Teaching scheme and syllabus for semester 1 and 2 is discussed and proposed to continue as per the teaching scheme of the previous batch.
Agenda - 4	Planning for value-added courses for the academic year 2020-21
Discussion and Resolution	<ul style="list-style-type: none">• Some additional value-added courses must be included which are meeting the current demands of industry like CISCO elementary networking course.
Agenda -5	Analysis and finalization of CO-PO and PSO attainment
Discussion and Resolution	<ul style="list-style-type: none">• The targeted attainment of 17-21 batch for semester 4 and 5 were achieved for all the subjects whereas for 18-22 batch majority of the CO's were obtained for all the subjects of semester 2 and 3 except EDCAD.• Increment of 2 per cent in all the core subjects for semester 1 has been successfully achieved in the batch 2019-23.• On the further analysis, BoS committee members suggested that for the subjects which are not program core in the 1st year must be kept at 50 per cent and all the program electives and industry-driven subjects must have a minimum of 52% target.• For the batch 2017-21, as the subjects are being offered for the 1st time in the final year, all the program core and elective subjects will start with 52% target and the project being the most industry driven subject will start with 55%. For the batch 2018-22, as the subjects are being repeated, the target has been kept the same as previous academic years. For the batch 2019-23, based on the target achievement of the majority of the subjects of semester 3 and 4, it is decided to increase the target by 2%. For the batch 2020-24, a target has been decided for all the basic core courses which is 53% and for the engineering, basic sciences and HSMC courses are kept at 50%.

Prof. C. D. Parmar offered vote of thanks to members of the board of studies for sparing their valuable time and giving constructive suggestions.

Minutes of Meeting-Board of Studies AY 2021-22

Date: 09/7/2021		Meeting no: 05	
Start time: 02:00 PM		End time: 05:00 PM	
		Total hours: 3 hours	
Chaired by		Prof. C. D. Parmar (HOD – ICT, Marwadi University)	
Formal welcome of members of the board of studies was done by Prof. C. D. Parmar.			
Section - A		Action taken based on the previous meeting	
Agenda - 1		Presentation of Project-Based Learning and Learning By Doing activities.	
Action taken		No further modification is required.	
Agenda - 2		Designing of Syllabus framework for 4 th year, B.Tech. ICT	
Action taken		Specialization based MOOC courses have been identified and proposed to the students along with industrial internship.	
Agenda - 3		Proposed Teaching Scheme for the Batch 2020-2024	
Action taken		Semester 1 and 2 teaching and examination schemes have been approved and implemented for Batch 2020-24.	
Agenda - 4		Planning for value-added courses for the academic year 2020-21	
Action taken		Frolic value-added course was conducted during the previous academic year and should be repeated. Previously discussed value added course Get connected scope and sequence was conducted.	
Agenda - 5		Analysis and finalization of CO-PO and PSO attainment	
Action taken		No further modification is required.	

Section: B	Agenda for discussion
Agenda - 1	Review of ICT Department for Academic Year 2020-21
Discussion and Resolution	<ul style="list-style-type: none"> • The software and hardware-based subjects are conducted with the help of IDE and simulator, respectively. • The teaching & learning process in online mode during the pandemic was appreciated. • Summer internship carried out with help of industry expert's support in work-from-home execution. • The value-added course on Cyber Security is proposed with the help of CISCO academy, Marwadi University with certified faculty is proposed from the next academic year. • Placement of 1st batch is appreciated in terms of the highest and average package along with core and diversified profiles.

Agenda -2	Teaching and assessment scheme for the batch 2018-22 and 2019-23
Discussion and Resolution	<ul style="list-style-type: none"> • The final year teaching scheme for the batch 2018-22 have been kept the same as the final year syllabus of the batch 2017-21. • Similarly, 3rd year teaching scheme for the batch 2019-23 have been kept same as 3rd year syllabus of the batch 2018-22
Agenda - 3	Teaching Scheme of B.Tech. ICT Semester - I & Semester - II as per new UGC/AICTE Guidelines for the batch 2021-25.
Discussion and Resolution	<ul style="list-style-type: none"> • Course credits for engineering courses need to be revised to 160 credits as per the guidelines provided by UGC/AICTE. • Semester – I and Semester – II teaching schemes are redesigned as per revised AICTE guidelines. • Teaching hours for students can be kept around 23-25 hours per week. • Subjects with end semester exams should not be more than 5 per semester. • The contact hours for laboratory sessions can be increased to make students proficient in the industry. • To meet the current industrial demand and to be skilled in contemporary courses like IoT, BoS committee members felt the Foundation of Skills in Sensor Interfacing (FSSI) course which was implemented in the AY 18-19 must be revised as well as the credit of the course must be increased. Therefore, the teaching scheme of FSSI changed from (0-0-2) to (0-0-4) and the additional modules of sensors, actuators and project implementation were added to the curriculum. It is also meeting the suggestion of students regarding in depth skill requirements to shape up the prototype in design thinking and hackathons. • NCC is introduced with a teaching scheme of 1-hour theory and 2 hours of laboratory for 2 credit courses in Semester – I and Semester – II. • In the academic year 21-22, for the 1st-semester students, the Indian Constitution and Basics of Environmental Studies courses should be added in the category of mandatory non-credit (MNC) courses.

<p style="text-align: center;">Agenda - 4</p>	<p>Modification in teaching scheme of B.Tech. ICT sem III and IV has been proposed based on feedback taken from stakeholders</p>
<p style="text-align: center;">Discussion and Resolution</p>	<ul style="list-style-type: none"> • Entire teaching schemes have been discussed and modifications in semesters III and IV have been proposed based on the feedback taken from student alumni, academicians and industrial experts. • Detailed feedback on the subject in the syllabus is carried out with the help of google form. The feedback form is filled up by the students, Pass out students, faculties, faculties from peer institute and industry experts. The suggestions were discussed in the meeting and some required actions taken are proposed and accepted as below. <ul style="list-style-type: none"> • Subject named “01CT0308- Data Structure Using C++” with 4 credits(3-0-2) was introduced in semester 3 based on feedback received from pass out students. • Subject named “01CT0309 - Programming with Python” with 2 credits (0-0-4) is introduced in semester 3 based on the requirement and penetration of python programming in various domains of ICT • Subjects 01CT0407 - Database Management System and 01CT0408 - Internet and Web Technology have been shifted to semester 4 from semester 5 to fulfill the requirement of knowledge and skills for the internship module offered between semester 4 and 5. • Content of the subject 01CT0409 - Operating System has been modified. • Subject 01CT0306 - Design Engineering as per the old teaching scheme is proposed to offer in higher semester as students will be additionally compatible to justify the requirement of the skills needed to design the project. • Subject 01CT0405 - Engineering Electrodynamics as per the old teaching scheme is proposed to offer as an elective in semester 5.
<p style="text-align: center;">Agenda - 5</p>	<p>Feedback from Members of Board of Studies</p>
<p style="text-align: center;">Discussion and Resolution</p>	<ul style="list-style-type: none"> • NCC / NSS as a subject in the curriculum is appreciated. • The students can have the flexibility to earn more credits during the semester based on the subjects offered. • It was suggested to manage subjects with a maximum of 4 credits taking the syllabus of the subjects into consideration.

	<ul style="list-style-type: none">• Internship with an industrial expert was appreciated.
Agenda - 6	Analysis and finalization of CO-PO and PSO attainment
Discussion and Resolution	<ul style="list-style-type: none">• The targeted attainment for the academic year 20-21 has been achieved for most of the courses.• The target attainment for the next academic year could be decided on the basis of course instructor's experience and number of times the course has been repeated which should be between 52 % to 60 %. as attached in annexure.

Prof. C. D. Parmar offered vote of thanks to members of the board of studies for sparing their valuable time and giving constructive suggestions.

Minutes of Meeting

Date: 13-04-2018		Meeting No: 03	
Start Time: 10:00 AM		End Time: 03:00 PM	
		Total Time: 5 Hours	
Presented by		Dr. Sunil Soni	
Agenda – 1			
Review of curriculum structure of Information Technology UG Program.			
Resolution		<ul style="list-style-type: none"> ● Discussion for the syllabus redesign process according to CBCS. ● Subject distribution is according to categories like UC, UE, IE, PC, and PE. Subject groups are based on programs where they will learn the same set of subjects but in different semesters. ● A category like Faculty Core has to be formed to accommodate subjects that are industry and society needs. ● University Electives will be offered in lower semesters whereas Program Electives will be offered in higher semesters. ● University Electives can be like Ethics, Positive Psychology, etc. 	
Agenda – 2			
Review of syllabus contents proposed for new courses.			
Resolution		<ul style="list-style-type: none"> ● 5th Semester and 6th Semester course content were discussed. ● Linux Administration should be included in the Information Technology Department. ● Program Electives (from higher semester) are offered in such a way students can choose their specialization from domains like Programming, Security, Data Science, IoT, etc. 	
Agenda – 3			
Revision of syllabus content.			
Resolution		<ul style="list-style-type: none"> ● The following subjects are revised based on the feedback given by the stakeholders (Industry Member and Faculty Members) <ol style="list-style-type: none"> 1. Differential And Integral Calculus 2. Matrix Algebra And Vector Calculus 3. Statistical And Numerical Methods 	
Agenda – 4			
Value-added courses like Oracle and Cisco Certification to be offered to the students.			
Resolution		<ul style="list-style-type: none"> ● The following certification courses are to be offered. <ol style="list-style-type: none"> 1. Oracle: Database Design and Programming with SQL. 2. Cisco: CCNA - Switching, Routing, and Wireless Essentials. 	
Agenda – 5			
Courses can be introduced that focus on employability/entrepreneurship/skill development.			

Resolution	<ul style="list-style-type: none"> The following courses are to be offered. <ol style="list-style-type: none"> Design Thinking and Problem Solving Skills
Agenda – 6	Suggestions on making the curriculum inclined toward industrial integration.
Resolution	<ul style="list-style-type: none"> Programming subjects are evaluated based on Projects. The same will be applicable to other subjects. Subjects must be taught and evaluated based on active learning. One or two courses should be taught through Independent Study during Program. (Learning-to-Learn) Self-learning platforms like SWAYAM must be encouraged. Students can take courses in other Universities or from MOOCs as well. Credit transfer for Course Certification outside the campus but relevant to Course Structure.
Agenda – 7	Any special points/advice by the members of the Board of Studies.
Resolution	<ul style="list-style-type: none"> Focus on subjects like Critical Thinking, Creative Thinking, Finance for Engineers, Law for Engineers, General and Professional Ethics, World Culture, Community Services, English Literature, etc. For the 8th Semester, students must have the freedom to go for Industry Project or Technical Learning within the campus.

Meeting Attended By: External Experts

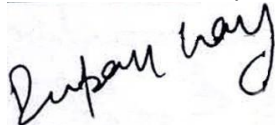
1. Dr. Ketan Kotecha,
Provost, Parul University



2. Dr. Deepk Garg,
Professor, Bennett University

3. Dr. Amit Ganatra,
Dean, Charusat

4. Dr. Apurva Shah,
Professor, MS University

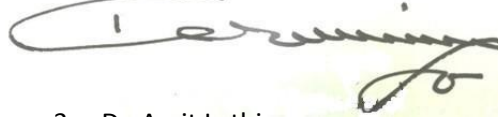


Meeting Attended By: Marwadi University

1. Dr. R. B. Jadeja



2. Prof. Jay B. Teraiya



3. Dr. Amit Lathigara



4. Dr. Nitul Datta



5. Dr. Sunil Soni





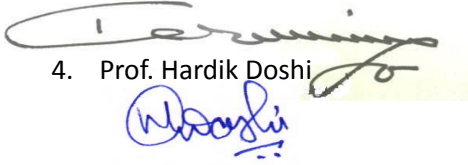
6. Prof. Ashish Rever



Minutes of Meeting

Date: 03-07-2021		Meeting No: 06	
Start Time: 11:00 AM		End Time: 12:30 PM	
		Total Time: 1 Hour 30 Mins	
Presented by		Prof. (Dr.) Krunal Vaghela	
Agenda – 1			
Review of Department for Academic Year 2020-21			
Resolution		<ul style="list-style-type: none"> ● The laboratory conduction in the field of Information Technology Engineering was quite easy compared to other branches. ● The teaching & learning process in online mode during the pandemic was appreciated. 	
Agenda – 2			
Teaching Scheme of Semester-I & Semester-II as per new UGC/AICTE Guidelines			
Resolution		<ul style="list-style-type: none"> ● Course credits for engineering courses need to be revised to 160 credits as per the guidelines provided by UGC/AICTE. ● Semester-I and Semester-II teaching schemes are redesigned as per revised AICTE guidelines. ● Teaching hours for students can be kept around 23 hours per week. ● Subjects with end-semester exams should not be more than 5 per semester. ● The contact hours for laboratory sessions can be increased to make students proficient in the industry. ● New Subjects 01GS0103 - Indian Constitution (Semester-I) and 01MA0104 - Linear Algebra (Semester-II) were introduced. ● Based on the feedback from stakeholders (Industry members, Faculty Members, Students, and Alumni), the 01CE0102 - Computer Workshop syllabus has been revised. ● Based on the feedback from stakeholders (Industry members, Faculty Members, Students, and Alumni), the 01CE1101 - Computer Programming syllabus has been scaled-down. ● 01CE1303 - Object Oriented Design and Programming is offered in the 2nd Semester with subject code 01CE0103 from A.Y. 2021-22. ● NCC is introduced with a teaching scheme of 1-hour theory and 2-hour laboratory for 2 credit courses in Semester-I and Semester-II. ● The student who opts for NCC will be given exemption from below mentioned courses. <ol style="list-style-type: none"> 1. Value Education (Semester-I) 2. Indian Constitution (Semester-I) 3. Physical Education/Sports/Yoga (Semester-I) 4. Professional Ethics (Semester-II) 	

Agenda – 3	Introducing Creativity, Problem Solving and Innovation as a University Elective Subject
Resolution	<ul style="list-style-type: none"> • Creativity, Problem Solving and Innovation subject is to be offered in the 4th, 6th, or 8th semester where interested students can choose as university elective course for 2 credits, that focus on skill development.
Agenda – 4	Value-added courses like Oracle and Cisco Certification to be offered to the students.
Resolution	<ul style="list-style-type: none"> • The following certification courses are to be offered. <ol style="list-style-type: none"> 1. Oracle: Database Programming with SQL. 2. Cisco: CCNA - Introduction to Network. 3. Cisco: CCNA - Switching, Routing, and Wireless Essentials. 4. Microsoft: Introduction to Java Programming 5. Microsoft: Software Development Fundamentals 6. AWS: AWS Academy Cloud Foundation 7. Coursera: Linux Server Management and Security 8. Coursera: HTML, CSS, and JavaScript for Web Developers
Agenda – 5	Feedback from Members of Board of Studies
Resolution	<ul style="list-style-type: none"> • introducing NCC / NSS as a subject in the curriculum is appreciated. • Students can have the flexibility to earn more credits during the semester based on the subjects offered. • It was suggested to manage subjects with a maximum of 4 credits taking the syllabus of the subjects in consideration. • Shifting of 01CE1303 - Object Oriented Design and Programming from Semester-3 to Semester-2 were recommendable.
<p>Note: Meeting was scheduled virtually on Google Meet.</p>	

Meeting Attended By: External Experts	Meeting Attended By: Marwadi University
<ol style="list-style-type: none"><li data-bbox="236 409 533 439">1. Dr. Madhuri Bhavsar<li data-bbox="236 568 496 598">2. Mr. Savan Anjaria<li data-bbox="236 728 560 757">3. Mr. Parthrajsinh Jadeja	<ol style="list-style-type: none"><li data-bbox="847 409 1150 439">1. Prof. (Dr.) R. B. Jadeja <li data-bbox="847 517 1182 546">2. Prof.(Dr.) Krunal Vaghela <li data-bbox="847 663 1086 692">3. Prof. Jay Teraiya<li data-bbox="847 768 1110 797">4. Prof. Hardik Doshi 

Minutes of the Meeting

Meeting Dates | 21/06/2016

Time | 03:00 PM

Location | MA562

Meeting Called by	Head, Dr. Rameshkumar Bhoraniya
Type of Meeting:	BOS Meeting
Attendees	Dr. Rameshkumar Bhoraniya, Dr. Ritesh Palkar, Prof. Nirav Raykundaliya, Dr. Mihir Purkait, Dr. Sanjay Patel, Dr. Deepak Jain
Absentees	No
Chaired by	Dr. Rameshkumar Bhoraniya

Agenda for the Meeting was taken up as below:

Dr. Rameshkumar Bhoraniya, HoD, Chemical Engineering department called the 1st meeting of the internal and external BoS members for review of draft syllabus of courses of B.Tech. Chemical Engineering, to start from the session of 2016-17.

In the meeting, discussions were made between the HoD and BoS members for the necessary revision of draft teaching scheme and syllabus of B. Tech. courses. As department is planning to start a new program, B. Tech. Chemical Engineering, the suggestions and opinions were sought in terms of number of courses planned in teaching schemes, industrial relevance of syllabus, content of each course, and consideration of elective courses etc.


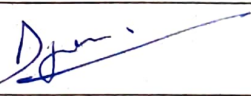
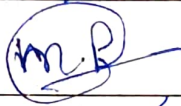

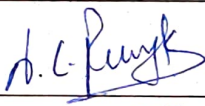

Agenda – 1	Review of Teaching Scheme and Syllabus for B. Tech. Chemical Engineering.
Suggestions	<p>Syllabus of all the courses were discussed by BOS members and they suggested following changes.</p> <ul style="list-style-type: none"> • In course, Fluid Flow Operation, content related to fluidization should be added as it is very important in terms of industrial application. • In course, Stoichiometry, proximate and ultimate analysis should be specifically mentioned under the Fuel & Combustion module. • In course, Mechanical Operations, cyclone separation is also important so it must be there in syllabus. • In course, Chemical Engineering Thermodynamics-I, a text book named "Introduction to Chemical Engineering Thermodynamics; J. M. Smith" should be introduced. • To look into the problems related to dust, gas heat, etc., emission into the chemical industries. So, there must be a course which contains the cleaner way production methods. • In course, Process Equipment Design-I, Kettle type and

	<p>Thermosyphon Reboilers are used in distillation column so it very important to have the knowledge of these reboiler to the students. Therefore, these two topics should be included in PED-I.</p> <ul style="list-style-type: none"> In course, Chemical Reaction Engineering-II, students should have the knowledge of preparation of catalyst, so it is required to include this topic in the syllabus. In course, Petroleum Refining and Petrochemicals, method of testing of the petroleum product should also be included in course.
Resolution	<ul style="list-style-type: none"> As per BOS member's suggestion, Fluidization is included in Fluid Flow Operation course. Proximate and Ultimate analysis is also included in Stoichiometry. As suggested cyclone separation topic is also incorporated in syllabus of Mechanical Operations. As per suggestion, one more text book named "Introduction to Chemical Engineering Thermodynamics; J. M. Smith" is added in references. Keeping in mind of BoS members, Cleaner Production course has been introduced in curriculum. BoS member have approved the Teaching schemes, Assessment scheme and Course content. As per suggestion of BoS members, Kettle and Thermosyphon Reboilers are added in the module Process "design of Heat exchangers". As per suggestion, one more topic "preparation of catalyst" is added in the course of Chemical Reaction Engineering-II. As per suggestion, testing methods of refinery products are included in the course of Petroleum Refining and Petrochemicals.
Agenda – 2	Approval of Program Outcomes, Program Specific Outcomes, Course Outcomes
	<ul style="list-style-type: none"> Discussion on Program Specific Outcomes (PSO), Program outcome (PO), and individual course outcomes (CO) for all courses was carried out.
Resolution	PO and PSOs were finalized as per the attachment (Annexure II)
Agenda – 3	Departmental Electives offered in Semester 6, 7 and 8
	<ul style="list-style-type: none"> BOS members have approved 3 departmental electives, to be offered in semester 6, 7 and 8. BoS member also commented for the addition of Open elective where student can choose courses as per their choice.

Resolution	A total of 6 courses were approved under 3 departmental electives. And as per suggestion one Open elective was introduced into teaching scheme of Sem 6.
Agenda – 4	Value added courses
	<ul style="list-style-type: none"> • BOS members highlighted the importance of some additional courses for students which help them gain some skills.
Resolution	<ul style="list-style-type: none"> • The idea given by BOS members was discussed and it was finalized to promote participation of students in extracurricular activities or other value-added courses.
Agenda 5	Course Attainment
	BoS members highlighted the importance of Course attainment under OBE system. First batch of Chemical Engineering will be out in 2020, for which course attainment should be referred and should have one target value to be attained after the completion of program.
Resolution	Course attainment of the program was kept at 50% for this batch.

All the suggestions were incorporated in teaching scheme/syllabus of courses of B. Tech. Chemical Engineering. The meeting ended with a vote of thanks by Dr. Rameshkumar Bhoraniyato the BoS experts for providing their valuable time in reviewing the syllabus of all courses of B. Tech. Chemical Engineering.

Annexure I**BoS meeting (21/6/2016)**

Committee Member Name	Signature
Dr. Rameshkumar Bhoraniya	
Dr. Deepak Jain	
Dr. Mihir Purkait	
Dr. Sanjay Patel	
Prof. Nirav Raykundaliya	
Dr. Ritesh Palkar	

Minutes of the Meeting

Meeting Dates | 05/08/2017

Time | 09:30 AM

Location | MA562

| Meeting Called by Head, Dr. Rameshkumar Bhoraniya

| Type of Meeting: BoS Meeting

| Attendees Dr. Rameshkumar Bhoraniya, Dr. Ritesh Palkar, Prof. Nirav Raykundaliya, Dr. Mihir Purkait, Dr. Sanjay Patel, Dr. Deepak Jain

| Absentees No

| Chaired by Dr. Rameshkumar Bhoraniya

Agenda for the Meeting was taken up as below:



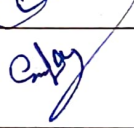
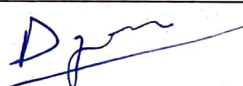
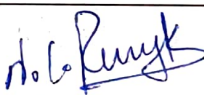

Dr. Rameshkumar Bhoraniya, HoD, Chemical Engineering department welcomed all external and internal BoS member for the 2nd BoS meeting invited to discuss and in order to finalize the teaching scheme and syllabus of courses for B. Tech. - Chemical Engineering

Agenda – 1	Academic review for 2016-2017
	BoS were informed about the smooth conduct of classes for first batch of Chemical Engineering. BoS members were informed about the online system of Academic file, where faculties are maintaining their records of PO, PSO, and CO and their mapping.
Agenda – 1	Review of Teaching Scheme and Syllabus for B. Tech. Chemical Engineering.
Suggestions	Review of syllabus and introduction of various courses was discussed with BOS members and they suggested following changes. <ul style="list-style-type: none"> • Course on communication is being removed and is being replaced with two other courses named “Reading & Writing for Technology” and “Speaking & Presentation Skills” • Chemical technology course was asked to merge and content should have content related to Dyes, Drugs, Fermentation, Sugar. • BoS member suggested that instead of CES course offered in Sem 5 and 6 of 2 credit each, it should be offered in every semester starting from Sem 3 to 6 (1 credit each) as it is a project-based course and will maintain the total credits of program. • Subjects like Engineering Mathematics should be renamed to more technical way Applied differential equations. • BoS member found that course content of EC-II (01CH0254) is more

	<p>inclined towards material science, so they suggested to rename it. And new course focused on core chemistry content (organic and inorganic) should be introduced.</p> <ul style="list-style-type: none"> • BoS member approved that Career readiness program course offered in sem 3 should be replaced with a new course on Professional Ethics. • Subject codes of Sem 3 and 4 courses are revised as per university norms.
Resolution	<ul style="list-style-type: none"> • BoS member have approved the introduction of mentioned courses along with some modification in existing courses.
Agenda – 2	Discussion on course outcomes of new introduced courses
	<ul style="list-style-type: none"> • Discussion on newly introduced courses was carried out.
Resolution	Finalized CO are as per the attached syllabus file.
Agenda 3	Course Attainment
	BoS members were informed about the course attainment of 1 st year courses. Out of 64, 52 course outcomes were achieved keeping 50% as reference value.
Resolution	BoS members mentioned that more emphasis to be given towards higher attainment.

All the suggestions were incorporated in teaching scheme/syllabus of courses of B. Tech. Chemical Engineering. The meeting ended with a vote of thanks by Dr. Rameshkumar Bhoraniyato the BoS experts for providing their valuable time in reviewing the syllabus of all courses of B. Tech. Chemical Engineering.

Signature Sheet for BoS meeting**Date: 04/07/2017**

BoS Member Name	Sign
Dr. Rameshkumar Bhoraniya(HoD)	
Dr. Mihir Purkait (External Member)	
Dr. Sanjay Patel (External Member)	
Dr. Deepak Jain (External Member)	
Prof. Nirav Raykundaliya (Internal Member)	
Dr. Ritesh Palkar (Internal Member)	

Minutes of the Meeting

Meeting Dates | 22/05/2018

Time | 10:00 AM

Location | MA562

| Meeting Called by Head, Prof. Abhishek Gupta

| Type of Meeting: BoS Meeting

 | Attendees
 Head, Prof. Abhishek Gupta (HOD, Internal member).
 Dr. Deepak Jain (External member)
 Dr. Haripada Bhunia (External member)
 Mr. Prasanta Giri (External member)
 Dr. Ritesh Palkar (Internal member)
 Dr. Deepak Tiwari (Internal member)

| Chaired by Prof. Abhishek Gupta

Agenda for the Meeting was taken up as below:

Prof. Abhishek Gupta, HoD, Chemical Engineering department called the 3rd BOS meeting with the external BoS member: Dr. Deepak Jain, Dr. Haripada Bhunia, Mr. Prasanta Giri for necessary revisions in the syllabus of subjects of B.Tech. Chemical Engineering.

In the meeting, discussions were done among the HoD, internal and external BOS members regarding the necessary revision of syllabus of subjects offered in B.Tech. Chemical Engineering at Marwadi University. The suggestions and/or corrections were sought in terms of addition/deletion of some topics in subjects, need of re-ordering of chapters in the syllabus.

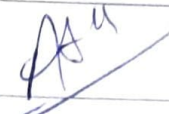





The meeting started with the overview of the syllabus of all subjects, by the HoD. During the overview, the following important points were taken into consideration by HoD and BoS members.

Agenda – 1	Academic review for 2017-2018
	BoS were informed about the smooth conduct of classes for Chemical Engineering.
Agenda – II	Review of Teaching Scheme and Syllabus for B. Tech. Chemical Engineering.
	<ul style="list-style-type: none"> University has decided to remove course Career Readiness Program offered in Sem 1 and will be replaced with courses focused on Value Education. Content of Engineering mathematics 1 and 2 swapped in such a way to create to courses focusing on Differential and integral calculus and Matrix and vector calculus in other course. Feedback analysis was discussed during meeting and one point was

	<p>raised which was commented by departmental faculty that there should be swapping courses among semester as content covered in CT course (Sem 3) depends on courses which are there in upcoming semesters. BoS members agreed that Engineering Chemistry (Organic and inorganic) should be moved to sem 3, whereas MT I and II covered in Sem 5 and 6 should be moved to Sem 4 and 5 respectively. And CT course which is there in sem 3 should be moved to semester 6. Revised content and credits for these courses are also approved.</p> <ul style="list-style-type: none"> • Credits for course HT (Sem 4) should be reduced to 5 credits.
Resolution	<ul style="list-style-type: none"> • BoS member have approved the revision and introduction of mentioned courses.
Agenda - III	Discussion on course outcomes of new introduced courses
	Discussion on newly introduced courses was carried out.
Resolution	Finalized CO are as per the attached syllabus file.
Agenda – IV	Value added courses
	BOS members were informed that this year students will undergo one program named SIG-Working in Teams, Change Management and Goal Settings and more courses during their final year.
Resolution	BOS members appreciated the additional course which will improve their skills. And asked to encourage students to participate in other training, workshops or value-added courses.
Agenda - V	Course Attainment
	BoS members were informed about the course attainment of first batch up to 3 semesters, as result of 4 semester is yet to be declared. 1 st year courses.
Resolution	For batch 2016-2020, 59 course outcomes were attained out of 84 course outcomes. As per sem 1 result of batch 2017-2021, 29 outcomes were achieved out of 32. Result for sem 4 and 2 is still awaited.

All the suggestions were incorporated in teaching scheme/syllabus of courses of B. Tech. Chemical Engineering. The meeting ended with a vote of thanks by Head to the BoS experts for providing their valuable time in reviewing the syllabus of all courses of B. Tech. Chemical Engineering.

Annexure I
Signature Sheet

Name of BoS Member	Signature
Prof. Abhishek Gupta (Internal member).	
Dr. Deepak Jain (External member)	
Mr. Prasanta Giri (External member)	
Dr. Haripada Bhunia (External member)	
Dr. Ritesh Palkar (Internal member)	
Dr. Deepak Tiwari (Internal member)	

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Minutes of the Meeting

Meeting Dates | 8th June 2019

Time | 11:00 AM

Location | MA362

Meeting Called by	Head, Prof. Abhishek Gupta
Type of Meeting:	Board of Studies
Attendees	Head, Prof. Abhishek Gupta (HOD, Internal member). Dr. Deepak Jain (External member) Dr. Haripada Bhunia (External member) Mr. Prasanta Giri (External member) Dr. Ritesh Palkar (Internal member) Dr. Deepak Tiwari (Internal member)
Chaired by	Prof. Abhishek Gupta

Agenda for the Meeting was taken up as below:

Prof. Abhishek Gupta, HoD, Chemical Engineering department called the BOS meeting with the external BOS members: Dr. Deepak Jain, Dr. Haripada Bhunia, Mr. Prasanta Giri for necessary revisions in the syllabus of subjects of B.Tech. Chemical Engineering.

In the meeting, discussions were done among the HoD, internal and external BOS members regarding the necessary revision of syllabus of subjects offered in B.Tech. Chemical Engineering at Marwadi University. The suggestions and/or corrections were sought in terms of addition/deletion of some topics in subjects, need of re-ordering of chapters in the syllabus.

The meeting started with the overview of the syllabus of all subjects, by the HoD. During the overview, the following important points were taken into consideration by Prof. Abhishek Gupta and BOS members.

1. Review of academic year 2018-2019

BoS member were informed about the smooth conduction of sessions of B.Tech. Chemical Engineering. BoS member were also informed that SIG a special course which was provided to prefinal year students where they have undergone various activities to learn about team work, and goal setting. Feedback analysis report was also discussed which was collected from all the stakeholders and faculties.

Resolution: Steps taken for the betterment of students were appreciated.

2. B. Tech. syllabus review and improvement

- BoS member were informed about the introduction of new syllabus of EC I (1st year) in alignment of EC-II course which is already there in semester 3.

Resolution: Approved the two changes in curriculum.

3. Course Outcome attainment

BoS member highlighted the importance CO attainment in Outcome Based Education (OBE). BoS members were informed about the attainment of CO which was 81.2% (113 course outcome attained out of 139). These calculations are as per the result upto sem 5 as result for sem 6 is still pending.

Resolution: BoS members agreed to the fact that CO attainment should be there and should be increased for the next batch to 55% (Batch: 2019-2023).

4. Additional courses

BoS members were informed that department will be adding one more value-added courses for final year students which will be on Vermicomposting – a sustainable solution to organic waste where students will undergo field work at the site.

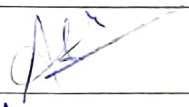
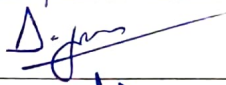




Resolution: BoS member appreciated this type of project-based learning course. And suggested to look for more courses on various domains.

The meeting ended with a vote of thanks by Prof. Abhishek Gupta to the BoS experts for providing their valuable time in reviewing the syllabus of all subjects of B. Tech. Chemical Engineering.



Annexure I
Signature Sheet

Date : 8th June 2019

Name of BoS Member	Sign
Prof. Abhishek Gupta	
Dr. Deepak Jain	
Dr. Haripada Bhunia	
Mr. Prasanta Giri	
Dr. Ritesh Palkar	
Dr. Deepak Tiwari	

Minutes of the Meeting

Meeting Date | 12/09/2020

Time | 10:00 AM

Mode | Online Meet

Meeting Called by	Head, Prof. Abhishek Gupta
Type of Meeting	BOS Meeting
Attendees	Prof. Abhishek Gupta (HoD, Internal member) Dr. Ritesh Palkar (Internal member) Dr. Deepak Jain (External member) Mr. Prasanta Giri (External member) Dr. Swapnil Dharaskar (External member) Dr. V.K. Rathore (External member) Dr. Sarang Pande (Invite Member, Dean)
Chaired by	Prof. Abhishek Gupta

Agenda for the Meeting was taken up as below:

Prof. Abhishek Gupta, HoD, Chemical Engineering department called the BOS meeting with the external BOS members, Dr. Deepak Jain, Zoetis Pharmaceuticals; Dr. Swapnil Dharaskar, Pandit Dindayal Petroleum University; Dr. V. K. Rathore, SVNIT Surat, and Mr. Prashanta Giri (RIL) for necessary revisions in the syllabus of subjects of B.Tech. Chemical Engineering.

In the meeting, discussions were done among the HoD, internal and external BOS members regarding the necessary revision of syllabus of subjects offered in B. Tech. Chemical Engineering at Marwadi University. The suggestions and/or corrections were sought in terms of need for modifications of some topics in subjects, need of introducing new subjects, and re-ordering of chapters in the syllabus.

1. Review of academic year 2019-2020

BoS member were informed about the smooth conduction of sessions of B.Tech. Chemical Engineering. Feedback analysis report was also discussed which was collected from all the stakeholders and faculties.

Resolution: Steps taken for the betterment of students were appreciated.

2. B. Tech. syllabus review and improvement

- BoS member reviewed the syllabus and recommended no change.

Resolution: No changes required in curriculum.

Minutes of the Meeting

3. Course Outcome attainment

BoS member highlighted the importance CO attainment in Outcome Based Education (OBE). BoS members were informed about the attainment of CO for 2017-2021 batch was 81.2% (113 course outcome attained out of 139). These calculations are as per the result up to semester 5 as result for semester 6 is still pending. Overall course outcomes attained were 87% (200 outcomes were attained out of 230) with all POS and PSOs attained.

Resolution: BoS members agreed to the fact that CO attainment should be there and appreciated the attainment level. They commented that attainment should be increased for the next batch to 60% i.e., 2020-2024.

4. Additional courses

BoS members were informed that department will be adding one more value-added courses for final year students which will be on Industrial Effluent Analysis along with Vermicomposting – a sustainable solution to organic waste where students will undergo field work at the site.

Resolution: BoS member appreciated this type of project-based learning course. And suggested to look for more courses on various domains.

Prof. Abhishek Gupta and Dr. Sarang Pande appreciated the recommendations given by the BOS experts. The meeting ended with a vote of thanks by Prof. Abhishek Gupta and Dr. Sarang Pande to the BOS experts for providing their valuable time in reviewing the syllabus of all subjects of B.Tech. Chemical Engineering.

Note: Meeting was scheduled virtually on Google meet portal.

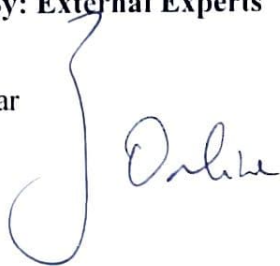
Meeting Attended By: External Experts

Dr. Deepak Jain

Dr. Swapnil Dharaskar

Dr. V. K. Rathore

Mr. Prasanta Giri

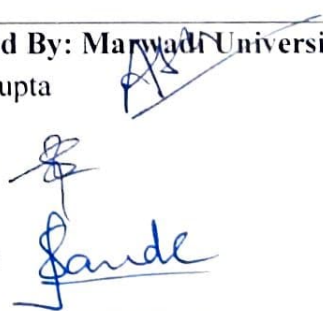


Meeting Attended By: Marwadi University

Prof. Abhishek Gupta

Dr. Ritesh Palkar

Dr. Sarang Pande



Minutes of Meeting
B.O.S. for B.Tech. Chemical Engineering

Date: 03/07/2021		Meeting No: 06	
Start Time: 9:30 am		End Time: 11:00 am	
Presented by		Prof. Abhishek Gupta	
Agenda – 1		Review of Chemical Engineering Department for Academic Year 2020-21	
Resolution	<ul style="list-style-type: none"> During this pandemic situation, all theory classes, tutorials and lab with demonstration of experiments were conducted in online mode. Steps taken for the betterment of students were appreciated. 		
Agenda – 2		Teaching Scheme of Semester-I & Semester-II as per new UGC/AICTE Guidelines	
Resolution	<ul style="list-style-type: none"> Course credits for engineering courses need to be revised to 160 credits as per the guidelines provided by UGC/AICTE. Semester – I and Semester – II teaching schemes are redesigned as per revised AICTE guidelines (Annexure I). Teaching hours for students can be kept around 25-27 hours per week. Subjects with end semester exams should not be more than 5 per semester. The contact hours for laboratory sessions can be increased to make student proficient for industry. Basics of Environmental studies and Value Education courses are converted from credit course to a mandatory non-credit course. Indian constitution is been introduced as mandatory course with zero credit in first year teaching scheme. NCC is introduced with teaching scheme of 1 hour theory and 2 hours laboratory for 2 credit courses in Semester – I and Semester – II. The student who opts for NCC will be given exemption from below mentioned courses. <ul style="list-style-type: none"> Value Education – Semester – I Indian Constitution – Semester – I Physical Education/Sports/Yoga - Semester – I Professional Ethics – Semester - II 		
Agenda – 3		Introducing of University Elective Subject	
Resolution	<ul style="list-style-type: none"> 2 University elective subjects will be introduced in curriculum, where student can opt for one course during a semester. 		
Agenda – 4		Course and PO attainment	
Resolution	Course attainment level got for 2017-2021 batch was 83 % (202 outcomes attained out of 246). All Pos and PSOs were attained with score of more than 50%.		

Agenda – 5	Additional courses imparting skills
	<p>BoS members were informed that every student during their 4-year study will undergo 3 courses which will impart skills to them and will help them in future endeavor.</p> <p>Courses details are as follows:</p> <ul style="list-style-type: none"> • SIG-Working in Teams, Change Management and Goal Settings • Waste to Wealth by Vermicomposting • Industrial Effluent Analysis <p>And students will be encouraged to participate in various webinars, seminars, STTP/FDP conducted by MU or other reputed universities.</p> <p>For last year out of these courses students have undergone 2 courses and Course on SIG was not executed due to online session during Pandemic situation.</p>
Agenda – 6	Feedback from Members of Board of Studies
Resolution	<ul style="list-style-type: none"> • BoS members have welcomed the changes suggested and discussed during the meeting. • Introducing NCC / NSS as subject in curriculum is appreciated. • Experts suggested to make it mandatory for all students to visit industries and asked to promote final year project work on Industrial problems.
Note: Meeting was scheduled virtually on Zoom portal.	
Meeting Attended By: External Experts Dr. Deepak Jain Mr. Prasanta Giri Dr. Swapnil Dharaskar Dr. V. K. Rathore	Meeting Attended By: Marwadi University Prof. Abhishek Gupta Dr. Ritesh Palkar Dr Sarang Pande

**MARWADI UNIVERSITY
FACULTY OF LAW**

Agenda for Board of Studies, FoL

Date: 13.02.2021

Time: 4.00 pm

Venue: Virtual Meeting through Zoom platform.

Sr. No	Particulars	Page No
1	Progress Report of Faculty of Law, Marwadi University	
Undergraduate Programs:		
2	A) Revision of Syllabus of Semester-II of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons.	1 to 58
	B) Revision of Syllabus of Semester-III of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons.	59 to 131
	C) Revision of Syllabus of Semester-IV of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons.	132 to 197
	D) Introduction of Teaching & Examination Scheme and Syllabus of Semester V of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons.	198 to 281
	E) Introduction of Teaching & Examination Scheme and Syllabus of Semester VI & VII of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons.	282 to 410
3	Analysis of feedback and action taken on the revision of the syllabus	
4	Any other item with the Permission of the Chair	

Chairperson
Board of Studies, Faculty of Law
Marwadi University



Faculty of Law

MINUTES OF THE BOARD OF STUDIES MEETING HELD ON 13TH FEBRUARY, 2021.

Members Present

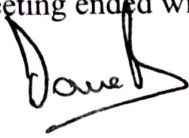
- 1) Prof. (Dr.) Purvi Pokhariyal, Director & Dean, Institute of Law, Nirma University
- 2) Mr. Subhrarag Mukherjee, In-house Counsel, Hewlett Packard Enterprise
- 3) Dr. Rhishikesh Dave, Dean, Faculty of Law, Marwadi University
- 4) Dr. Rahul Nikam, Associate Professor, Faculty of Law, Marwadi University
- 5) Dr. Nongthombam Bangkim Singh, Associate Professor, Faculty of Law, Marwadi University
- 6) Dr. Dhruv Pande, Associate Professor, Faculty of Law, Marwadi University
- 7) Dr. Rachana Choudhary, Assistant Professor, Faculty of Law, Marwadi University
- 8) Dr. Krunal Purohit, Assistant Professor, Faculty of Law, Marwadi University
- 9) Mr. Kripal Gadhvi, Assistant Professor, Faculty of Law, Marwadi University
- 10) Ms. Nibedita Basu, Assistant Professor, Faculty of Law, Marwadi University
- 11) Mr. Ruchir Pandiya, Visiting Faculty, Faculty of Law, Marwadi University
- 12) Dr. Mihirkumar Dave, Assistant Professor, Communication Skills, Marwadi University
- 13) Mr. Bhavin Joshi, Assistant Manager, Training and Counseling, Marwadi University
- 14) Ms. Pratixa Parmar, Assistant Professor, Communication Skills, Marwadi University
- 15) Dr. Pooja Shukla, Assistant Professor, Communication Skills, Marwadi University
- 16) Mr. Vaibhav Hadiya, Executive, Faculty of Law, Marwadi University

- Meeting is on Virtual Platform via Zoom application.



	the stakeholders (Teachers, Industry, Parents & Students) while preparing syllabus and Pre Board of Study meeting.
19	Revised Syllabus of Semester-II, III, IV of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons. Is accepted with incorporation of the changes made in the above points.
20	Teaching & Examination Scheme and Syllabus of Semester V, VI & VII of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons. is also approved.

The Meeting ended with a Vote of Thanks to all the members.



Dr. Rhishikesh Dave
Dean, Faculty of Law,
Marwadi University

MARWADI UNIVERSITY
FACULTY OF LAW

Agenda for Board of Studies, FoL

Date: 29.01.2022

Time: 11.00 am

Venue: MC301 – Board Room

Sr. No	Particulars	Page No
Undergraduate Programs:		
1	A) Introduction of revised programme structure of B.A. LL.B (Hons.) & B. Com LL.B (Hons.) so as to include papers of Defense and Strategic studies as a subject as per BCI Notification.	1 to 18
	B) Introduction of Teaching & Examination Scheme and Syllabus of Semester VIII of undergraduate programme of B.A. LL.B (Hons.) & B. Com LL.B (Hons.)	19 to 55
	C) Revision of Teaching & Examination Scheme and Syllabus of Semester I of undergraduate programme of B.A. LL.B (Hons.) & B. Com LL.B (Hons.)	56 to 93
2	Introduction of Teaching & Examination Scheme and Syllabus of University Electives offered by Faculty of Law. Which are as follows - Basics of Law - Legal Aspects of Business - Introduction to Intellectual Property Rights (IPR)	94 to 104
3	Analysis of feedback and action taken on the introduction and revision of the syllabus	
4	Any other item with the Permission of the Chair	



Chairperson
Board of Studies, Faculty of Law
Marwadi University

Faculty of Law

MINUTES OF THE BOARD OF STUDIES MEETING HELD ON 29th January, 2022.

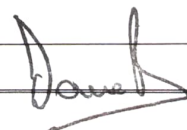
Members Present

- 1) Prof. (Dr.) Purvi Pokhariyal, Dean, School of Law, National Forensic Sciences University
- 2) Mr. Subhrrag Mukherjee, Senior Legal Counsel – Strategic Alliances, Hewlett Packard Enterprise (HP)
- 3) Dr. Rhishikesh Dave, Dean, Faculty of Law, Marwadi University
- 4) Col. Rajagopalan Suresh, Senior Vice President Admin, Marwadi University
- 5) Dr. Rahul Nikam, Associate Professor, Faculty of Law, Marwadi University
- 6) Dr. Nongthombam Bangkim Singh, Associate Professor, Faculty of Law, Marwadi University
- 7) Dr. Dhruv Pande, Associate Professor, Faculty of Law, Marwadi University
- 8) Dr. Krunal Purohit, Assistant Professor, Faculty of Law, Marwadi University
- 9) Ms. Nibedita Basu, Assistant Professor, Faculty of Law, Marwadi University
- 10) Mr. Yogendra Singh, Assistant Professor, Faculty of Law, Marwadi University
- 11) Mr. Anugrah Rajawat, Assistant Professor, Faculty of Law, Marwadi University
- 12) Ms. Vidhita Rakhe, Assistant Professor, Faculty of Law, Marwadi University
- 13) Ms. Swati Vishan, Assistant Professor, Faculty of Law, Marwadi University
- 14) Ms. Priyanka Joshi, Assistant Professor, Faculty of Law, Marwadi University
- 15) Mr. Adwitiya Tiwari, Assistant Professor, Faculty of Law, Marwadi University
- 16) Ms. Chinmayee Das, Assistant Professor, Faculty of Law, Marwadi University
- 17) Mr. Kartik Kachhawah, Assistant Professor, Faculty of Law, Marwadi University
- 18) Mr. Ruchir Pandiya, Visiting Faculty, Faculty of Law, Marwadi University
- 19) Mr. Bhavin Joshi, Assistant Manager, Training and Counseling, Marwadi University
- 20) Mr. Jigar Abhani, Assistant Professor, Communication Skills, Marwadi University
- 21) Mr. Vaibhav Hadiya, Executive, Faculty of Law, Marwadi University



Dr. Rhishikesh Dave, Dean, Faculty of Law welcomed all the external reviewers and faculty members for taking time from their busy schedule for the BoS Meeting. The major suggestions given in the BoS Meeting are as follows:

Sr. No.	Particulars
1	Course learning outcomes should be per requirements of the latest NAAC manual. Action verbs of the Bloom's Taxonomy shall be adopted.
2	<p>Defense and Strategic Studies:</p> <ul style="list-style-type: none"> a) Defense and Strategic Studies shall be an optional course as the Bar Council of India does not make it mandatory. b) Add Military Ethics as a topic in the syllabus. c) Add recent developments in area of defence technology like drone technology and government initiatives to boost defence exports and manufacturing in India (Indigenization of the government programs) d) Remove course outcomes no (a), (c) and (d). e) This course shall be offered as an elective in 9th and 10th Semesters.
3	<p>Banking and Insurance Law (8th Semester):</p> <ul style="list-style-type: none"> a) Add Insurance Amendment Bill 2021, legal stance regarding crypto currencies and Fugitives Offenders Act 2018. b) Add recent RBI circulars relevant to the subject.
4	<p>Legal Methods (1st Semester):</p> <ul style="list-style-type: none"> a) Add inductive and deductive methods. b) Add a separate module on legal reasoning.
5	<p>Law of Contract I (1st Semester):</p> <ul style="list-style-type: none"> a) Add Electronic Signatures. b) Add Government Procurement Contracts. c) Remove Contract Drafting and management words and replace it with Contract reading, vetting, interpreting and understanding. d) Add Jurisprudential aspects of contract.
6	<p>Introduction to English Language Skills (1st Semester):</p> <ul style="list-style-type: none"> a) Title of the subject English I will be replaced with Introduction to English Language Skills.
7	Teaching & Examination Scheme and Syllabus of Semester VIII of undergraduate programme of B.A. LL.B (Hons.) & B. Com LL.B (Hons.) is approved.
8	Revised Teaching & Examination Scheme and Syllabus of Semester I of undergraduate programme of B.A. LL.B (Hons.) & B. Com LL.B (Hons.) is approved.
9	Teaching & Examination Scheme and Syllabus of University Electives offered by Faculty of Law of i. Basics of Law ii. Legal Aspects of Business iii. Introduction to Intellectual Property Rights (IPR) are approved.



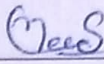
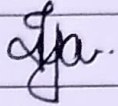
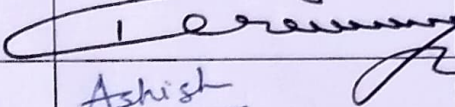
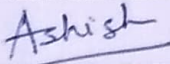
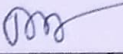
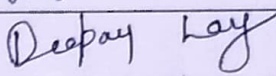
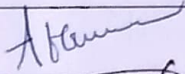
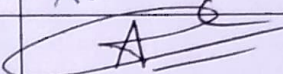
Minutes of Meeting

Date: 28/04/2017		Meeting No: 02	
Start Time: 11.00 AM	End Time: 12:00 PM	Total Time: 1 Hour	
Presented by	Prof. Jay B. Teraiya		
Section - A			
Action taken based on previous meeting			
Agenda No.	Agenda		
1	Review of Vision & Mission of Computer Engineering Department		
Action Taken	No further action is required.		
2	Review of Program Outcome (PO) for B. Tech Computer Engineering		
Action Taken	No further action is required.		
3	Review of Program Specific Outcome (PSO) of Computer Engineering Department		
Action Taken	No further action is required.		
4	Review of curriculum structure of computer Engineering UG Program		
Action Taken	No further action is required.		
5	Review of syllabus contents proposed		
Action Taken	Introduction of Value-added courses in curriculum and collaboration with Oracle Academy and Cisco Networking Academy.		
6	Discussion on Program Outcome and Course Outcome attainment		
Action Taken	Course attainment target for all the courses is set as per discussion in previous meeting.		

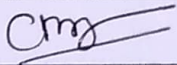
Section – B	Agenda for discussion
Agenda – 1	Review of curriculum structure of 2nd & 3rd year B. Tech. Computer Engineering Program
Discussion & Resolution	<ul style="list-style-type: none"> • 2nd & 3rd year courses are branch specific and as needed for core fundamentals of branch. • Department elective are offered in higher semester so that students can choose based on their interest. List of elective subjects are mentioned in teaching scheme. • Professional Ethics course is added in curriculum for professional development of student's lifelong learning. • Teaching scheme of 2nd & 3rd year are attached in Annexure I. • More value-added course adds in curriculum for better industry skill and technical learning.
Agenda – 2	Review of syllabus contents proposed
Discussion & Resolution	<ul style="list-style-type: none"> • Courses having focusing on employability, entrepreneurship and skill development is well defined. List of courses are attached in Annexure II. • Lab based learning should be adapted for subjects like OODP for better clarification and understanding of concepts. • Mini project should be introduced for 2nd year students to get used to with object-oriented languages and teamwork.
Agenda – 3	Introduction of Value-added courses in curriculum
Discussion & Resolution	<ul style="list-style-type: none"> • Value added course integrated with Oracle Academy and Cisco Networking Academy. • Value added courses focusing on Database Management System and Computer Network are added in • Oracle: Database Design and Programming with SQL • CCNA Routing and Switching: Introduction to Networks • CCNA: Switching, Routing, and Wireless Essentials • CCNA: Enterprise Networking, Security, and Automation • CCNA: Introduction to Networks
Agenda – 4	Revision in syllabus of Engineering Mathematics -I, Engineering Mathematics -II & Statistical and Numerical Methods.
Discussion & Resolution	<ul style="list-style-type: none"> • Course names need revision. • Content revision is required based on feedback of stockholders. Annexure II – Feedback.

Agenda – 5	Discussion and approval of M. Tech. in Computer Engineering – Cyber Security, Teaching scheme and detailed syllabus of Sem-I & Sem-II.
Discussion & Resolution	<ul style="list-style-type: none"> • M.Tech. program should be offered as computer engineering with minor/major in cyber security. • New Program M. Tech in Computer Engineering – Cyber security is introduced in this Academic year. • Teaching schemes for M. Tech Computer Engineering – cyber security is proposed & detailed syllabus of 1st and 2nd semester are designed. Teaching scheme of 1st & 2nd semester are attached in Annexure III. • Departmental electives are given in all semesters to provide flexibility in the curriculum. • PO and PSO of M. Tech Computer Engineering – Cyber Security Department attached in Annexure IV.
Agenda – 6	Discussion on course outcome attainment
Discussion & Resolution	<ul style="list-style-type: none"> • Attainment level achieved by the department has been discussed and revision of attainment level has been suggested by committee member. • Detail information on Course Outcome is attached in Annexure - V.
Agenda – 7	Any special points/advises by members of board of studies
Discussion & Resolution	<ul style="list-style-type: none"> • Faculty and students must use textbooks and reference books from reputed publication house. • Need to put efforts on soft skills of students so they will be ready to face industry challenges as well. • Good Practice of value-added courses in curriculum with collaboration industries. • More value-added courses add to curriculum for final year students' benefit in placement and higher studies.

Meeting Attendees:

Sr.	Expert Name	Expert Signature
1.	Dr. Nitul Dutta	
2.	Dr. R. B. Jadeja	
3.	Prof. Jay B. Teraiya	
4.	Dr. Ashish Kumar Srivastava	
5.	Dr. Nishant Doshi	
6.	Dr. Deepak Garg	
7.	Dr. Amit Ganatra	
8.	Dr. Apurva Shah	

Invite Member:

Sr.	Expert Name	Expert Signature
1.	Dr. Amit Lathigara	

Annexure I

Teaching and Examination Scheme of B. Tech. - COMPUTER ENGINEERING – Semester – III											
Subject Code	Subject Name	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term Work	
01CE0301	DATA STRUCTURE	4	0	2	5	50	30	20	25	25	150
01CE0302	DATABASE MANAGEMENT SYSTEM	3	0	2	5	50	30	20	25	25	150
01CE0303	OBJECT ORIENTED DESIGN AND PROGRAMMING	3	0	2	5	50	30	20	25	25	150
01GS0301	ENGINEERING MANAGEMENT	2	0	0	2	50	30	20	0	0	100
01IT0301	DATA COMMUNICATION AND NETWORKING	3	0	2	4	50	30	20	25	25	150
01MA0231	DISCRETE MATHEMATICS AND GRAPH THEORY	4	2	0	5	50	30	20	25	25	150

Teaching and Examination Scheme of B. Tech. - COMPUTER ENGINEERING – Semester – IV

Subject Code	Subject Name	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term Work	
01CE0401	OPERATING SYSTEM	4	0	2	5	50	30	20	25	25	150
01CE0402	COMPUTER ORGANIZATION AND ARCHITECTURE	3	2	0	4	50	30	20	25	25	150
01CE0403	OBJECT ORIENTED PROGRAMMING WITH JAVA	4	0	2	5	50	30	20	25	25	150
01CE0404	MINI PROJECT	0	0	2	1	0	0	0	50	50	100
01IT0401	COMPUTER NETWORK	4	0	2	5	50	30	20	25	25	150
01MA0281	STATISTICAL & NUMERICAL METHODS	4	2	0	5	50	30	20	25	25	150

Teaching and Examination Scheme of B. Tech. - COMPUTER ENGINEERING – Semester – V

Subject Code	Subject Name	Teaching Scheme (Hours)		Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks	
		Theory	Tutorial		Practical	ESE	IA	CSE	Viva		Term Work
01CE0501	MICROPROCESSOR FUNDAMENTALS & PROGRAMMING	3	0	2	4	50	30	20	25	25	150
01CE0502	ADVANCED JAVA PROGRAMMING	4	0	2	5	50	30	20	25	25	150
01CE0503	DESIGN AND ANALYSIS OF ALGORITHM	4	0	2	5	50	30	20	25	25	150
01CE0504	THEORY OF AUTOMATA AND FORMAL LANGUAGES	3	0	0	3	50	30	20	0	0	100
01CE0508	REVERSE ENGINEERING	0	0	2	1	0	0	0	25	25	50
01IT0502	SEMINAR	0	0	2	1	0	0	0	25	25	50
01CE05XX	DEPARTMENT ELECTIVE -1	4	0	2	5	50	30	20	25	25	150

Department Elective – 1

- 1)01IT0503 - Advanced Computer Network
- 2)01CE0506 - Distributed Operating Systems
- 3)01CE0507 - Image Processing

Teaching and Examination Scheme of B. Tech. - COMPUTER ENGINEERING – Semester – VI

Subject Code	Subject Name	Teaching Scheme (Hours)		Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		Theory	Practical		ESE	IA	CSE	Viva	Term Work	
01CE0601	COMPILER DESIGN	3	2	4	50	30	20	25	25	150
01CE0602	.NET TECHNOLOGIES	4	2	5	50	30	20	25	25	150
01CE06XX	DEPARTMENT ELECTIVE - 2	4	2	5	50	30	20	25	25	150
01CE0606	DESIGN ENGINEERING AND PROJECT MANAGEMENT	0	2	1	0	0	0	25	25	50
01CR0501	BUSINESS BENCHMARK	1	0	1	0	0	0	50	50	100
01IT0601	SOFTWARE ENGINEERING	3	2	4	50	30	20	25	25	150
01IT0602	WEB TECHNOLOGY	3	2	4	50	30	20	25	25	150

Department Elective – 2

- 1) 01CE0603 - Computer Security
- 2) 01CE0604 - Cyber Security
- 3) 01CE0605 - Network Security

Annexure III

Teaching and Examination Scheme of M. Tech. – Computer Engineering – Cyber Security - Semester – I											
Subject Code	Subject Name	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term Work	
01CY0101	MATHEMATICAL FOUNDATIONS FOR CYBER SECURITY	4	0	0	4	50	30	20	0	0	100
01CY0102	ADVANCE NETWORK SECURITY	3	0	2	4	50	30	20	25	25	150
01CY0103	INFORMATION SECURITY RISK ASSESSMENT AND ASSURANCE	3	0	2	4	50	30	20	25	25	150
01CY0104	ETHICAL HACKING	0	0	4	2	0	0	0	25	25	50
01CY0108	CYBER LAWS AND SECURITY POLICIES	3	0	2	4	50	30	20	25	25	150
01CY0109	OPEN ELECTIVE – I										0
01ES0111	OPEN ELECTIVE - I(E- WASTE MANAGEMENT)	3	0	2	4	50	30	20	0	0	100

Teaching and Examination Scheme of M. Tech. – Computer Engineering – Cyber Security - Semester – II											
Subject Code	Subject Name	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term Work	
01CY0201	THEORY OF MODERN CRYPTOGRAPHY	3	0	2	4	50	30	20	25	25	150
01CY0202	SECURITY & PRIVACY ISSUES IN INTERNET OF THINGS	3	0	2	4	50	30	20	25	25	150
01CY0203	WEB APPLICATION & PENETRATION TESTING	3	0	2	4	50	30	20	25	25	150
01CY0204	INTELLECTUAL PROPERTY RIGHTS	4	0	0	4	50	30	20	0	25	125
01CY0205	SEMINAR	0	4	0	2	0	30	20	25	25	100
01CY0207	MALWARE ANALYSIS & NETWORK SECURITY	3	0	2	4	50	30	20	25	25	150

Annexure IV

Program Outcomes (PO) & Program Specific Outcomes (PSO) of M. Tech – Computer Engineering – Cyber Security

PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PSO1	Students shall demonstrate Research skills, the knowledge and competence in the analysis, design and development of computer-based systems addressing industrial and social issues.
PSO2	Students shall have competence to take research challenges associated with future technological issues associated with security, wearable devices, augmented reality, Internet of Anything etc.

Annexure V**Attainment of Course Outcomes:**

Attainment levels of Course Outcomes for the category of courses is set at the following levels based on the suggestions by committee members:

Course Category	Target level of Attainment for the Course Outcome
Program Core	55
Program Elective Course	60
General Courses - University Core (GN-UC)	50
General Courses - University Elective (GN-UE)	50
Basic Science Courses - University Core (BS-UC)	50
Engineering Science Courses - University Core (ES-UC)	50



Minutes of Meeting

Date: 03/07/2021		Meeting No: 06	
Start Time: 11.00 AM	End Time: 12:30 PM	Total Time: 1.5 Hours	
Presented by	Prof. Hardik A. Doshi		
Section - A			
Action taken on previous BoS meeting			
1	Review of curriculum structure of computer Engineering UG Program		
Action Taken	No further action is required.		
2	Review of syllabus contents proposed		
Action Taken	No further action is required.		
3	Inclusion of state of art topics and contents suitable to the current and futuristic learning and development paradigms for the graduates		
Action Taken	No further action is required.		
4	Discussion on Value-Added Course		
Action Taken	No further action is required.		
5	Discussion on course outcome attainment		
Action Taken	Course attainment target for all the courses is set as per discussion previous meeting.		
6	Discussion and approval of M. Tech. in Computer Engineering, Teaching scheme and detailed syllabus of Sem-I & Sem-II.		
Action Taken	No further action is required.		



Section – B	Discussion Points
Agenda – 1	Review of Computer Engineering Department for Academic Year 2020-21
Discussion & Resolution	<ul style="list-style-type: none"> The laboratory conduction in the field of computer engineering was quite easy compared to other branches during pandemic time. The teaching & learning process in online mode during the pandemic was appreciated.
Agenda – 2	Teaching Scheme of Semester - I & Semester - II as per new UGC/AICTE Guidelines
Discussion & Resolution	<ul style="list-style-type: none"> Course credits for engineering courses need to be revised to 160 credits as per the guidelines provided by UGC/AICTE. Semester – I and Semester – II teaching schemes are redesigned as per revised AICTE guidelines. Teaching hours for students can be kept around 23 hours per week. Subjects with end semester exams should not be more than 5 per semester. The contact hours for laboratory sessions can be increased to make student proficient for industry. Revision in syllabus of 01CE0102 - Computer Workshop and 01CE0101 - Computer Programming is approved. 01CE1303 - Object Oriented Design and Programming is offered in 2nd Semester from A.Y. 2021-22 NCC is introduced with teaching scheme of 1 hour theory and 2 hours laboratory for 2 credit courses in Semester – I and Semester – II. Teaching scheme of 1st & 2nd semester are attached in Annexure I.
Agenda – 3	Introducing Creativity, Problem Solving and Innovation
Discussion & Resolution	<ul style="list-style-type: none"> Creativity, Problem Solving and Innovation subject is to be offered in 4th semester.
Agenda – 4	Discussion on Value Added Course
Discussion & Resolution	<ul style="list-style-type: none"> Value added course integrated with Microsoft and Coursera. Value added courses focusing on Operating System and Web Technology. Coursera: Linux Server Management and Security Coursera: HTML, CSS, and JavaScript for Web Developers Microsoft: Introduction to Java Programming Microsoft: Software Development Fundamentals Microsoft: Microsoft Azure AI Fundamentals Microsoft: Windows Server Administration Fundamentals Microsoft: Introduction to Programming using HTML and CSS



Agenda – 5	Discussion and approval of M. Tech. in Computer Engineering, Teaching scheme and detailed syllabus of Sem-III & Sem-IV.
Discussion & Resolution	<ul style="list-style-type: none">• Teaching schemes for M. Tech Computer Engineering is proposed & detailed syllabus of 3rd and 4th semester are designed.• For the 3rd Semester, students are allowed to go for Industry project / Technical Learning / Internship within Campus.• Teaching scheme of 3rd & 4th semester are attached in Annexure II.
Agenda – 6	Discussion on course outcome attainment
Discussion & Resolution	<ul style="list-style-type: none">• Attainment level achieved by the department has been discussed and revision of attainment level has been suggested by committee member.• Detail information on Course Outcome is attached in Annexure - III.
Agenda – 7	Feedback from Members of Board of Studies
Discussion & Resolution	<ul style="list-style-type: none">• Introducing NCC / NSS as subject in curriculum is appreciated.• The students can have flexibility to earn more credits during the semester based on the subjects offered.• It was suggested to manage subjects with maximum 4 credits taking syllabus of the subjects in consideration.• Shifting of 01CE1303 - Object Oriented Design and Programming from Semester – 3 to Semester – 2 was recommendable.
Note: Meeting was scheduled virtually on Google Meet.	



Meeting Attendees:

Sr.	Expert Name	Expert Signature
1.	Prof. Hardik A. Doshi	
2.	Dr. R. B. Jadeja	
3.	Dr. Nitul Dutta	
4.	Dr. Krunal Vaghela	
5.	Prof. Jay B. Teraiya	
6.	Dr B. Amutha	
7.	Dr. Madhuri Bhavsar	
8.	Dr. Atul Negi	
9.	Dr. Jayakumar S.	

Invite Member:

Sr.	Expert Name	Expert Signature
1.	Mr. Parthrajsinh Jadeja	



Annexure I

Subject Code	Subject Name	Type	Teaching Scheme (Hours)				Credits	Evaluation Scheme				Total Marks
			Theory		Practical			Theory Marks		Tutorial/ Practical Marks		
			Theory	Tutorial	Practical			ESE(E)	IA	CSE	VIVA(V)	
01MA2101	Differential and Integral Calculus	BSC	3	2	0	5	50	30	20	25	25	150
01EE1101	Basics of Electrical & Electronics Engineering	ESC	4	0	2	5	50	30	20	25	25	150
01CE1101	Computer Programming	ESC	4	0	2	5	50	30	20	25	25	150
01GS1101	Engineering Physics	BSC	3	0	2	4	50	30	20	25	25	150
01CR1103	Value Education	MC	2	0	0	0	00	00	00	50	50	100
01CE1102	Computer Workshop	LC	0	0	2	1	00	00	00	25	25	50
01GS0103	Indian constitution	MC	1	0	0	0	00	00	00	00	00	00
	Total	27 hrs. / week	17	2	8	20	200	120	80	175	175	750
01AU0101	NCC-1		1	0	2	2	00	00	00	00	00	00
	<ul style="list-style-type: none">• 3 hrs. NCC work will be for students who opt for NCC• 2 extra credits for NCC course will be given to the students who opt this subject											



B.Tech. Computer Engineering Semester – II (Year – I)												
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Evaluation Scheme				Total Marks	
			Theory	Tutorial	Practical		Theory Marks			Tutorial/ Practical Marks		
							ESE(E)	IA	CSE	VIVA(V)		Term Work (TW)
01MA0104	Linear Algebra	BSC	3	2	0	5	30	20	25	25	150	
01CE0103	Object Oriented Design and Programming	PCC	4	0	2	5	30	20	25	25	150	
01ME1103	Engineering Drawings	ESC	2	0	4	4	30	20	25	25	150	
01EC0102	Digital Electronics	ESC	3	0	2	4	30	20	25	25	150	
01SL0102 / 01SL0103	Reading and Writing for Technology /Speaking and Presentation Skills	HSMC	2	0	0	2	00	20	25	25	100	
01EN1101	Basics of Environmental Studies	MC	2	0	0	0	50	20	00	00	100	
01CR0104	Professional Ethics	MC	1	0	0	0	00	00	50	50	100	
	Total	27 hrs. / week	17	2	8	20	250	180	120	175	900	
01AU0102	NCC-2		1	0	2	2	00	00	00	00	00	
	<ul style="list-style-type: none"> 3 hrs. NCC work will be for students who opt for NCC 2 extra credits for NCC course will be given to the students who opt this subject 											

Annexure II

Teaching and Examination Scheme of M. Tech. – Computer Engineering – Cyber Security - Semester – III											
Subject Code	Subject Name	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term Work	
01CY0301	CYBER FORENSICS AND INCIDENT RESPONSE	3	0	2	4	50	30	20	25	25	150
01CY0306	INFORMATION SECURITY MANAGEMENT SYSTEM	3	0	2	4	50	30	20	25	25	150
01CY1302	DISSERTATION-1	0	0	22	11	0	80	20	100	100	300
01SL0301	COMMUNICATION SKILLS AND TECHNICAL WRITING	0	2	2	0	0	30	20	25	25	100

Teaching and Examination Scheme of M. Tech. – Computer Engineering – Cyber Security - Semester – IV											
Subject Code	Subject Name	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term Work	
01CY1401	DISSERTATION II	0	0	34	17	0	80	20	150	150	400

Annexure III

Attainment of Course Outcomes:

Attainment levels of Course Outcomes for the category of courses is set at the following levels based on the suggestions by committee members:

1) B.Tech. – Computer Engineering

Course Category	Target level of Attainment for the Course Outcome
Professional Core Courses (PCC)	57
Professional Elective Courses (PEC)	62
Basic Science Courses (BSC)	52
Engineering Science Courses (ESC)	52
Humanities and Social Sciences including Management Courses (HSMC)	52
Open Elective Courses (OEC)	52
Laboratory Course (LC)	52
Mandatory Courses (MC)	52

2) M.Tech. – Computer Engineering – Cyber Security

Course Category	Target level of Attainment for the Course Outcome
Professional Core Courses (PCC)	60
Professional Elective Courses (PEC)	65
Basic Science Courses (BSC)	55
Engineering Science Courses (ESC)	55
Humanities and Social Sciences including Management Courses (HSMC)	55
Open Elective Courses (OEC)	55
Laboratory Course (LC)	55
Mandatory Courses (MC)	55

3) M. Tech. – Computer Engineering

Course Category	Target level of Attainment for the Course Outcome
Professional Core Courses (PCC)	57
Professional Elective Courses (PEC)	62