

1.2.1: Percentage of new courses introduced of the total number of courses across all programs offered during the last five years

Supporting Documents for Criteria – 1.2.1

Relevant Documents pertaining to new courses introduced of the total number of courses across all programs**

****Disclaimer:** We are providing samples since all of the supporting documents for this criteria exceed the 6MB upload limit. If necessary, we shall provide all/any supporting documents.

njadeja
Registrar
Marwadi University



1.2.1: Percentage of new courses introduced of the total number of courses across all programs offered during the last five years

Contents

- 1] Minutes of statutory meeting

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.

<p>Agenda -2</p>	<p>Teaching and assessment scheme for the batch 2018-22 and 2019-23</p>
<p>Discussion and Resolution</p>	<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
<p>Agenda - 3</p>	<p>Teaching Scheme of B.Tech. ICT Semester - I & Semester - II as per new UGC/AICTE Guidelines for the batch 2021-25.</p>
<p>Discussion and Resolution</p>	<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.

Agenda - 4	Modification in teaching scheme of B.Tech. ICT sem III and IV has been proposed based on feedback taken from stakeholders
Discussion and Resolution	<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.
Agenda - 5	Feedback from Members of Board of Studies
Discussion and Resolution	<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
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 Mar		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 Rachchh

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

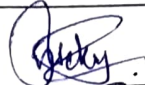

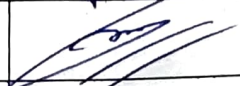
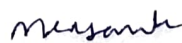
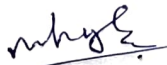
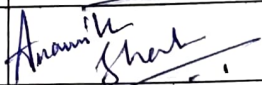

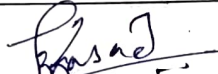
Minutes of Meeting

BOS for B. Sc. Chemistry and M. Sc. Chemistry

At the outset of the meeting, the Chairman of the BOS warmly welcomed all the members of the meeting. He thanked all of them for spending valuable time to attend the BOS. Chairperson presented brief report and information regarding Marwadi University (MU), their constitution and courses operated by MU.

Date: 18/03/2017		Meeting No: 03	
Start Time: 03:00 PM			
Presented by		Dr. Vicky Jain	
Agenda - 1	Framing the teaching scheme and syllabus for the graduation course i.e. Bachelor of Science (B.Sc.), Sem III to Sem VI in Chemistry offered by MU.		
Resolution	Agenda 1 has been resolved and approved after having rigorous discussion on the contents in the syllabus of the new courses of B. Sc. Sem III to VI. (Annexure - I). In addition to this, course outcome (CO) of all the courses were also approved by the members. Course specific discussion was initiated for Bachelor of Science in Chemistry. Details of various modifications attached with the document. Experts discussed regarding the credit system and suggested to introduce recent updates in respective subject. Recommended credit system for Dissertation for B.Sc. Courses. The expert suggested to introduce primary level Mathematics paper for the B.Sc. chemistry student, to reframe/correct the course of Microbiology course for B.Sc. semester-I. They also assigned the credits for B.Sc. Semester-VI & advised for the project to the student. (Annexure - I).		
Agenda -2	Framing the teaching scheme of M. Sc. Sem I to IV (Chemistry) program.		
Resolution	Teaching scheme was found to be resolved within inline vision of better understanding and broad coverage to the subject. The expert suggested to rename the paper from spectroscopy to Advanced analytical techniques. They asked to remove industrial chemistry subject from first year Masters. They also suggested to design the standard format for M.Sc. thesis dissertation for M.Sc. project students. Those not offered the dissertation will be allowed for chemistry practicals (Annexure - II).		

Agenda 3	Framing the syllabus for the graduation course i.e. Master of Science (M. Sc.), Sem I to Sem IV in Chemistry offered by MU.
Resolution	Agenda 4 has been resolved and approved after having rigorous discussion on the contents in the syllabus of the courses of M. Sc. Sem I to IV. In addition to this, course outcome of all the courses were also approved by the members (Annexure - III)
Agenda 4	Modification of subject names in M. Sc. Chemistry curriculum.
Resolution	The experts suggested that Organic Chemistry -I & II should be as Organic Chemistry Concepts and Fundamental & Organic Chemistry and Essential concept.
Agenda -5	CO Attainment discussion
Resolution	Course outcome attainment was presented and discussed with the BoS members. The members suggested to increase the attainment by 52% for the academic year 2017-18 and what efforts is made to increase the attainment should be discussed in the next meeting.
Agenda -6	Feedback Analysis of the stakeholders
Resolution	Dr. Vicky Jain informed to external BoS experts that the necessary feedback was taken from students, departmental faculties, and alumnus. Modification and revision needed in the undergraduate and post graduate courses

Sr.	Member type	Name	Signature
1	Internal Member (Chairman)	Dr. Vicky Jain	
2	Internal Member	Dr. Yogeshwar Suryawanshi	
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	



Teaching and Examination Scheme

Annexure I:

Teaching and Examination Scheme

B. Sc. Year II (Semester-III)							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)/Practicals	
02CY0201	CHEMISTRY –III	BS	5	0	2	6	50	30	20	25	25	150
02CY0202	FUNDAMENTAL CHEMISTRY –III	BS	5	0	2	6	50	30	20	25	25	150
02PY0231	PHYSICS –III	BS	4	0	2	5	50	30	20	25	25	150
01CR0301	CAREER READINESS PROGRAM	BS	2	0	0	2	0	0	0	50	50	100
02SL0201	ENGLISH THROUGH NON-FICTION	BS	2	0	0	2	0	30	20	25	25	100
Total			18	0	06	21	150	120	80	125	125	650

Teaching and Examination Scheme

B. Sc. Year II (Semester-IV)							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) / Practicals	
02CY0251	CHEMISTRY –IV	BS	5	0	2	6	50	30	20	25	25	150
02CY0252	FUNDAMENTAL CHEMISTRY –IV	BS	5	0	2	6	50	30	20	25	25	150
02MB0253	BASIC BIOCHEMISTRY	BS	5	0	2	6	50	30	20	25	25	150
02CR0401	CRP	BS	2	0	0	2	-	-	-	50	50	100
02SL0251	ENGLISH FOR WORKPLACE	BS	2	0	0	2	-	30	20	25	25	100
	Total		19	0	06	22	150	120	80	125	125	650

B. Sc. Year III (Semester-V)**Evaluation Scheme**

Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	Mid Sem	CSE	Viva (V)	Term work (TW)/Practicals	
02CY0301	INORGANIC & INDUSTRIAL CHEMISTRY	BS	5	0	2	6	50	30	20	25	25	150
02CY0302	ORGANIC CHEMISTRY	BS	5	0	2	6	50	30	20	25	25	150
02CY0303	PHYSICAL CHEMISTRY	BS	5	0	2	6	50	30	20	25	25	150
02CY0304	ANALYTICAL CHEMISTRY	BS	5	0	2	6	50	30	20	25	25	150
	Total		20	0	8	24	200	120	80	100	100	600

B. Sc. Year III (Semester-VI)**Evaluation Scheme**

Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE(E)	Mid Sem	CSE	Viva (V)	Term work (TW)/Practicals	
02CY0351	ADVANCED INORGANIC & INDUSTRIAL CHEMISTRY	BS	5	0	2	6	50	30	20	25	25	150
02CY0352	ADVANCED ORGANIC CHEMISTRY	BS	5	0	2	6	50	30	20	25	25	150
02CY0353	ADVANCED PHYSICAL CHEMISTRY	BS	5	0	2	6	50	30	20	25	25	150
02CY0354	ANALYTICAL SPECTROSCOPIC TECHNIQUES	BS	5	0	2	6	50	30	20	25	25	150
	Total		20	0	8	24	200	120	80	100	100	600

Course Outcomes (CO)

Course Outcomes for Sem-3, B.Sc.	
Career Readiness Program (02CR0301)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand parts of speech concepts and usage • Understand Reading Comprehension and usage • Understand Tenses Past and Present concepts and usage • Understand the importance of personal and professional goals or benchmarks and create one for themselves. • Understand that Self Analysis or realization is the key to mastering any discipline • Understand the impact of attitude in personal success
Physics-III (02PY0231)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Apply knowledge of physics in other branches of science to solve scientific problems
Chemistry-III (02CY0201)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the behaviour and the involvement of the elements from periodic table while knowing the general chemistry. • Be aware of the basics of cycloalkanes; their methods of preparation, properties and stability. • Obtain the information regarding 's' and 'p' block elements and their applications. • Understand the basic of hydrolysis, Ionic solids and there various studies.
Fundamental Chemistry-II (02CY0202)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the concepts of co-ordination chemistry of d-block elements. • Be aware of the basics of reaction mechanism and structure & stability of reacting constituents. • Obtain the information regarding qualitative and quantitative analysis. • Understand the basic of organic chemistry.
English through Non- (02SL0201)	<p>This course will enable learners</p> <ul style="list-style-type: none"> • to develop listening skills and answer comprehensive questions by applying the knowledge gained from the text; • to acquaint them with appropriate vocabulary and using the same vocabulary in different contexts; • to develop reading skills, by means of reading of different forms text relevant to non-fiction; • to develop writing skills focusing on the usage of language in the non-fictional text; • to construct a wide variety of sentences appropriate for non-fiction txts.

Course Outcomes for Sem-4, B.Sc.	
English for Workplace (02SL0251)	<p>The course will enable the students</p> <ul style="list-style-type: none"> • to familiarize with workplace culture; • to share information and collect information; • to express one's views and agree or disagree with others; • to write workplace documents.
Basic Biochemistry (02MB0253)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the concepts & properties of molecules and their reactions. • Better understanding about the structure, composition & properties of various biomolecules like carbohydrate, nucleic acids lipids, proteins and vitamins etc. Developing concepts about biological functions & applications of biomolecules in various fields.
Career Readiness Program (02CR0401)	<p>After the successful completion of the course in Advanced level students will be able to..</p> <ul style="list-style-type: none"> • Understand the nuances of dealing with public at large • Exhibit professionalism in formal settings • Perform effectively in entrance exams and Campus Recruitment drives. • Communicate ideas effectively
Chemistry-IV (02CY0251)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the properties of lanthanides and actinides series. Their effect and their application in nuclear studies. • Be aware of the basics of active methylene compounds. • Obtain the information regarding colloids and their applications. • Understand the basic of wave mechanics and their construction.
Fundamental Chemistry-IV (02CY0252)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the important name reactions in organic chemistry course and rearrangement • Will know the basics of heterocyclic compounds and know the preparations. • Obtain the information regarding organometallic compounds. • Understand the basic of phase rule.
Course Outcomes for Sem-5, B.Sc.	
Inorganic and Industrial Chemistry (02CY0301)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the concepts of coordination chemistry. • Be aware of the basics of wave mechanics • Obtain the information regarding cement. • Understand the basic of ceramic, glass and refractory's. • Will know more about pesticides and insecticides.
Organic	<p>After completion of this course, student will be able to</p>

Chemistry (02CY0302)	<ul style="list-style-type: none"> • Understand the basics of stereochemistry. • Be aware of the basics of conformations and configuration. • Obtain the information regarding alkaloids and terpenoids. • Understand the basic of drugs and dyes.
Physical Chemistry (02CY0303)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the Electrolysis and electrical conductance. • Be aware of the basics of pH and potentiometry. • Obtain the information regarding third law of thermodynamics, free energy and chemical equilibrium. • Understand the basic of conductometry and colorimetry.
Analytical Chemistry (02CY0304)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the concepts errors and statics. • Be aware of the basics of environmental chemistry and its effect on nature. • Obtain the information regarding titration and methods of analysis. • Understand the basic of chromatography method.
Course Outcomes for Sem-6, B.Sc.	
Advanced Inorganic and Industrial Chemistry (02CY0351)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the concepts of term symmetry. • Be aware of the knowledge of organometallic chemistry • Obtain the information regarding polymers and their applications. • Understand the basic of Fertilizers. • Will get an idea regarding petrochemicals and their imp in current scenario.
Advanced Organic Chemistry (02CY0352)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the concepts of reactive intermediates, name reactions and rearrangements. • Be aware of the basics of reagents and its applications . • Obtain the information regarding carbohydrates and its chemistry.
Advanced Physical Chemistry (02CY0353)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the concepts of nuclear chemistry. • Will know more about the activity and activity coefficient. • Obtain the information regarding crystallography and its various types. Brief idea regarding unit cell will also get. • Understand the physical properties and chemical constitution
Analytical Spectroscopic Techniques (02CY0354)	<p>After completion of this course, student will be able to</p> <ul style="list-style-type: none"> • Understand the concepts of analytical technique UV spectroscopy. • Obtain the information regarding the IR spectroscopy. • Be aware of the basics of NMR spectroscopy. • Understand the basic of Mass spectrometry and their uses in construction of the molecules.

Annexure - II

Teaching and Examination Scheme

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

M.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)	
02CY0451	Physical Chemistry-II	BS	4	0	2	5	50	30	20	25	25	150
02CY0452	Inorganic Chemistry-II	BS	4	0	2	5	50	30	20	25	25	150
02CY0453	Organic Chemistry-II	BS	4	0	2	5	50	30	20	25	25	150
02CY1454	Analytical Chemistry-II	BS	5	0	2	6	50	30	20	25	25	150
	Total		17	0	08	21	200	120	80	100	100	600

Master of Science



Department of Chemistry
Department of Chemistry

M.Sc. Year II (Semester-III) Organic Chemistry

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)	
02CY0501	Advanced Analytical Techniques	BS	5	2	0	6	50	30	20	25	25	150
02CY0502	Essential of Physical and Inorganic Chemistry	BS	5	0	2	6	50	30	20	25	25	150
02CY0503	Heterocyclic Chemistry	BS	5	0	2	6	50	30	20	25	25	150
02CY0504	Medicinal Chemistry	BS	5	0	2	6	50	30	20	25	25	150
	Total		20	02	06	24	200	120	80	100	100	600

M.Sc. Year II (Semester-III) Analytical Chemistry

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)	
02CY0501	Advanced Analytical Techniques	BS	5	2	0	6	50	30	20	25	25	150
02CY0502	Essential of Physical and Inorganic Chemistry	BS	5	0	2	6	50	30	20	25	25	150
02CY0505	Separation techniques	BS	5	0	2	6	50	30	20	25	25	150
02CY0506	Industrial Analysis	BS	5	0	2	6	50	30	20	25	25	150
	Total		20	02	06	24	200	120	80	100	100	600

M.Sc. Year II (Semester-IV) Organic Chemistry
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)	
02CY0551	Research Methodolgy	BS	2	0	-	2	-	-	-	25	25	50
02CY0552	Advanced Organic Chemistry	BS	4	0	0	4	50	30	20	25	25	150
02CY1554	Dissertation/Project	BS	-	-	-	18*	-	-	-	120	280**	400
	Total		06	0	00	24	50	30	20	170	330	600

M.Sc. Year II (Semester-IV) Analytical Chemistry
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)	
02CY0551	Research Methodolgy	BS	2	0	-	2	-	-	-	25	25	50
02CY0553	Pharma Regulatory Affairs	BS	4	0	0	4	50	30	20	25	25	150
02CY1554	Dissertation/Project	BS	-	-	-	18*	-	-	-	120	280**	400
	Total		06	0	00	24	50	30	20	170	330	600

*indicates those who are not able to perform dissertation/project, they will be performing practicals given by respective faculties.

**indicates assessment as per MU guidelines

Faculty of Business Management
Board of Studies
Minutes of Meeting
13 August 2016

The first meeting of Board of Studies of FoBM was held on 13 August 2016 at 3 PM in Board Room, 3rd Floor, Marwadi University.

The following members attended the meeting:

Dr. Suneet Saxena	Chairperson
Dr. Sanjay Bhayani	External Member
Dr. Hanuman Prasad	External Member
Dr. Hitesh Shukla	External Member
Dr. Kapil Shrimal	Internal Member
Dr. Monica Verma	Internal Member

Dr. Pratapsinh Chauhan was granted leave of absence.

Dr. Suneet Saxena, Dean, Faculty of Business Management chaired the meeting and welcomed the members. He introduced the members on the Board of Studies for FoBM and expressed his special thanks to Dr. Sanjay Bhayani, Dr. Hanuman Prasad and Dr. Hitesh Shukla for their valuable presence.

He informed the Board that the Programme Assessment Committee (PAC) has submitted the Program Structure for MBA and its curriculum.

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

Item No. 1: Program Structure of MBA for the Batch 2016-2018

The Proposed Program Structure for MBA was presented to the Board. The Board was informed that feedback from industry and academic experts were taken before finalizing the proposed program structure for MBA.

The Board reviewed the proposed program structure and noted that courses like Entrepreneurship and Managing Start-ups, Export Import Policy Procedure & Documentation, E-commerce have been introduced which are the need of the hour.

The Board also noted with satisfaction that a proper blend of core, specialization, projects and elective subjects has been maintained in the proposed program structure.

The Board after due deliberations approved the Program Structure and Teaching Evaluation scheme of MBA Program for the Batch 2016-2018. (Annexure 1)

Resolved to approve item no 1 and recommend the same to the Academic Council.


 Dean
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 Rajkot - 360003, Gujarat

**Item No. 2: Non-credit courses in addition to the courses included in the program structure.
(Add On Certification Courses)**

The Board was informed that based on the feedback received from industry experts, the PAC has proposed a number of add on certification courses to be offered to students in addition to the courses under the formal credit system. The following courses were proposed:

- Advanced Corporate Communication of 16 hours duration
- Advanced Excel Certification of 32 hours duration
- Six Sigma of 30 hours duration
- Digital Marketing of 20 hours

Following modifications were suggested:

- Dr Hanuman Prasad suggested that the duration of Advanced Corporate Communication may be increased to around 30 hours to provide students a platform to practice corporate communication ultimately making them employment ready. He also suggested to increase the duration of Digital Marketing to approximately 35 hours to give maximum benefits to students.
- Dr. Sanjay Bhayani suggested that these add on certification courses should be made available to students across the two years duration of program in such a form that one such course is offered in each semester.

The Board reviewed the proposed add-on certification courses and after due deliberations approved the following:

- 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

Resolved to approve item no 2 and recommend the same to the Academic Council.

Item No. 3: Syllabus of MBA Courses and Add on Certification Courses

The detailed syllabi of courses approved for the Program Structure of MBA and the Add on Certification Courses were presented.

Following modifications were suggested:

- Dr. Hitesh Shukla suggested that for the course titled “Accounting for Managers”, books authored by S. N. Maheshwari & S. K. Maheshwari and P. Tulsian may be shifted to reference books and those by R. Narayan Swami and Ambrish Gupta may be taken as Textbooks.
- Dr. Sanjay Bhayani suggested that for course “Managerial Communication”, language lab should be included and the books authored by Asha Kaul and Crafting of Letters by Monipally may be included in the list of books.
- Dr. Sanjay Bhayani suggested that for Course “Research Methodology, the topic - IT in Research, should be included in unit V.

- Dr. Hitesh Shukla suggested that Economic Value Added (EVA) and Market Value Added (MVA) methods of valuation of Business should be included for “Financial Management”
- Dr. Hanuman Prasad suggested that the content for Advanced Corporate Communication and Digital Marketing should be expanded to meet the requirement of 30 hours and 36 hours respectively as approved in item 2.

The Board reviewed the proposed syllabus of MBA and Add on Certificate courses and approved it after incorporating the modifications suggested. (Annexure 2)

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

Item No 4: Proposed attainment for Course Outcomes

Based on the recommendation of PAC, the CO attainment target for the year 2016-17 was proposed to be set to 50%.

The Board reviewed the suggestion and after due deliberation approved the same.

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

Item No 5: 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
More choice of specializations should be provided to students	Choice of Five specializations in the Program Structure
The curriculum should also emphasise on inculcating entrepreneurial skills in addition to making the students employment ready.	Course Entrepreneurship and Managing Start-ups included in the Program as an elective course
Courses catering to 21st century skill set	Add on courses for Communication, Excel, Digital marketing proposed as Add on Certification Courses in addition to E-commerce as a specialisation elective.
Students should be encouraged to take up internships	Compulsory Summer Internship Program of 8 credits included.


Dean
Faculty of Business Management
Marwadi University
Rajkot - 360003, Gujarat

The Board noted with satisfaction the feedback received and their incorporation in the curriculum. It further advised that such consultative approach should continue to keep the syllabus updated all times.

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


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Marwadi University
Rajkot - 360003, Gujarat

Dr Suneet Saxena
Dean
Faculty of Business Management

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 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

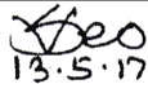








Minutes of Meeting

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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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 <ol style="list-style-type: none"> Dr. B. J. Shah Dr. S. V. Deo 		Meeting Attended By: Marwadi University <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. 		





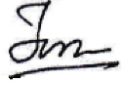


Agenda – 4	Teaching Scheme of B. Tech. in Civil Engineering and detailed syllabus of Sem-5 & Sem-6.																																									
Resolutions	<ul style="list-style-type: none"> • Semester – 5 and Semester – 6 teaching schemes and detailed syllabus are presented and approved in BoS meeting. • 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 	


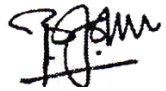


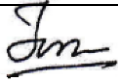

Sr. No.	Name	Designation	Sign
1	Dr. Shirish V. Deo	Member – BOS	
2	Dr. B. J. Shah	Member – BOS	
3	Mr. Manish V. Doshi	Member – BOS	
4	Dr. Ankur Bhogayata	Member – BOS	
5	Dr. Tarak Vora	Member – BOS	
6	Dr. Siddharth Shah	Member – BOS	
7	Prof. Mazhar Dhankot	Member – BOS	

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. 																																										
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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. 																																										
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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 				

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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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Agenda – 6	Teaching Scheme of M. Tech. Civil Engineering (Structural Engineering) and detailed syllabus of Sem-I & Sem-II.																																														
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	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.		
	<ul style="list-style-type: none"> 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. 	

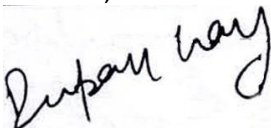





	<ul style="list-style-type: none"> For B.Tech Civil Engineering, As proposed in the teaching scheme, student have to opt any two such open elective subjects and have to complete within 3rd to 6th semester. Students are given choice to select any subject offered from any department from the university 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: 20%;">code-</th> <th style="width: 20%;">MOOC Course Title</th> <th style="width: 20%;">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%
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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

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6.	Er. Mandeep Shah	Member – BoS Industrial Member	Absent
7.	Er. Harsh Sanghvi	Member – BoS Alumni Member	Present - Online
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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 Lakhalani	Invitee Industrial Member	Present - Online

Minutes of Meeting

Date: 28-04-2017		Meeting No: 02	
Start Time: 12:00 PM		End Time: 01:00 PM	
		Total Time: 1 Hour	
Agenda – 1	Review of curriculum structure of Information Technology UG Program.		
Resolution	<ul style="list-style-type: none"> ● 2nd-year courses should be branch specific and as needed for core fundamentals of the branch. 		
Agenda – 2	Review of syllabus contents proposed for new courses.		
Resolution	<ul style="list-style-type: none"> ● 3rd Semester and 4th Semester course content were discussed. ● 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 Object Oriented languages and teamwork. 		
Agenda – 3	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 - Introduction to networks. 		
Agenda – 4	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"> 1. Reading and Writing for Technology 2. Speaking and Presentation Skills 3. Business Benchmark 		
Agenda – 5	Suggestions on making the curriculum inclined toward industrial integration.		
Resolution	<ul style="list-style-type: none"> ● Need to put effort into the soft skills of students so they will be ready to face industry challenges as well. ● Bloom's Taxonomy should be taken care of while designing practicals for every subject. ● Web Technology and .NET Technology should be in separate semesters. 		

Agenda – 6	Any special points/advice by the members of the Board of Studies.
<p>Resolution</p>	<ul style="list-style-type: none"> ● Department electives should be offered in higher semesters instead of 5th Sem so they can choose which is interest-based. ● Computer Graphics can be included while on the other hand Image processing can be offered as Department Elective in next semester. ● Motivate students for Self-Learning and encourage them for Summer internships. ● Faculty and students must use textbooks and reference books from reputed publication houses.
<p>Meeting Attended By: External Experts</p> <ol style="list-style-type: none"> 1. Dr. Deepk Garg, Professor, Bennett University 2. Dr. Amit Ganatra, Dean, Charusat 3. Dr. Apurva Shah, Professor, MS University 	<p>Meeting Attended By: Marwadi University</p> <ol style="list-style-type: none"> 1. Prof. Jay B. Teraiya  2. Dr. Nitul Dutta  3. Dr. Ashish Kumar Srivastava  4. Prof. Sunil Soni  5. Dr. Amit Lathigara 

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

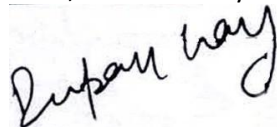
1. Dr. Ketan Kotecha,
Provost, Parul University



2. Dr. Deepk Garg,
Professor, Bennett University

3. Dr. Amit Ganatra,
Dean, Charusat

4. Dr. Apurva Shah,
Professor, MS University

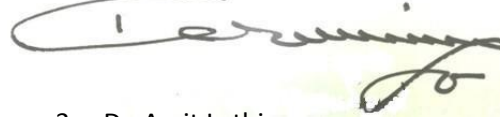


Meeting Attended By: Marwadi University

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









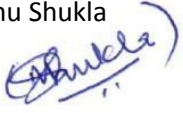
Minutes of Meeting

Date: 14-07-2019		Meeting No: 04	
Start Time: 09:00 AM	End Time: 12:00 PM	Total Time: 3 Hours	
Presented by		Dr. Sunil Soni	
Agenda – 1			
Review of curriculum structure of Information Technology UG Program.			
Resolution	<ul style="list-style-type: none"> ● Syllabus scrutiny against Course Outcomes and their significance to Bloom's Taxonomy Levels. Few modifications will be done in COs according to which it will be mapped with Bloom's Taxonomy. ● Content of 010E1302 and 010E1303 is revised. 		
Agenda – 2			
Review of syllabus contents proposed for new courses.			
Resolution	<ul style="list-style-type: none"> ● 7th Semester and 8th Semester course content were discussed. ● Program Electives (in higher semester) should be offered in such a way that students can choose their specialization from domains like Development, Security, Data Science, IoT, etc. Elective groups have been fine-tuned to get aligned with Specialization. ● Subject Names and Subject Codes have to be aligned based on their elective groups. Elective groups are already fine-tuned as per the suggestion. ● In the final semester, students must have the freedom to go for Industry projects or Technical Learning within the campus. 		
Agenda – 3			
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 - Enterprise Networking, Security and Automation. 3. Cisco: CCNA - Introduction to Network. 		
Agenda – 4			
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"> 1. Advanced Web Technologies 2. Internet of Things 3. Machine Learning 		
Agenda – 5			
Any special points/advice by the members of the Board of Studies.			

Resolution	<ul style="list-style-type: none"> Higher levels of Bloom's Taxonomy should be targeted in the subjects of higher semesters.
<p>Meeting Attended By: External Experts</p> <ol style="list-style-type: none"> Dr. A. Rajnikanth  Prof. Santosh Chapaneri  	<p>Meeting Attended By: Marwadi University</p> <ol style="list-style-type: none"> Dr. R. B. Jadeja  Dr. Nitul Datta  Dr. Amit Lathigara  Dr. Sunil Soni  Prof. Jay B. Teraiya  Prof. Krunal Vaghela 

Minutes of Meeting



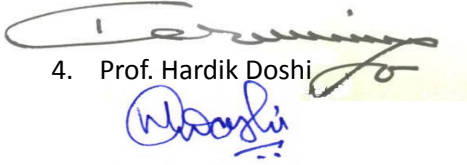
Date: 20-06-2020		Meeting No: 05	
Start Time: 10:00 AM	End Time: 01:00 PM	Total Time: 3 Hours	
Presented by		Dr. Krunal Vaghela	
Agenda – 1	Review of curriculum structure of Information Technology UG Program.		
Resolution	<ul style="list-style-type: none"> ● Syllabus scrutiny against course outcomes and their significance in Bloom’s Taxonomy Levels. Few modifications will be done in COs accordingly, which will be mapped with Bloom’s Taxonomy. ● Bloom’s Taxonomy should be taken care of while designing practicals for every subject. 		
Agenda – 2	Review of syllabus contents proposed for new courses.		
Resolution	<ul style="list-style-type: none"> ● It was decided to keep 4 credits for the Major Project-I subject offered in the 7th Semester, so the credit for the Major Project-I subject is changed to 4. ● Programming subjects shall be evaluated based on mini projects. Subjects must be taught using Active learning. 		
Agenda – 3	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 - Introduction to Network. 3. Cisco: CCNA - Switching, Routing, and Wireless Essentials. 		
Agenda – 4	Suggestions on making the curriculum inclined toward industrial integration.		
Resolution	<ul style="list-style-type: none"> ● For the 8th Semester, students are allowed to go for an Industry project / Technical Learning / Internship. ● Separate credits should be allocated for MOOC Course Enrolment. It is encouraged for each student to enroll in either Udemy, Udacity, Coursera, etc to earn this credit. 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 – 5	Any special points/advice by the members of the Board of Studies.		

Resolution	<ul style="list-style-type: none"> Innovative learning techniques and online tools should be used by the faculties since the Covid-19 pandemic has created an online teaching/learning environment. Tools for polling, word cloud, attendance, etc can be used by faculties.
<p>Note: Meeting was scheduled virtually on Google Meet.</p>	
<p>Meeting Attended By: External Experts</p> <ol style="list-style-type: none"> Dr. Sridhar Swaminathan, Bennett University Mr. Santosh Champaneri, St. Francis Institute of Technology, Mumbai  Dr. Jayakumar S., Member Founding Team, Rinanu Semiconductor LLP, Bangalore  	<p>Meeting Attended By: Marwadi University</p> <ol style="list-style-type: none"> Dr. R. B. Jadeja  Prof. Jay B. Teraiya  Dr. Krunal Vaghela  Dr. Nitul Dutta  Dr. Madhu Shukla 

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"> Value Education (Semester-I) Indian Constitution (Semester-I) Physical Education/Sports/Yoga (Semester-I) 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.
Note: Meeting was scheduled virtually on Google Meet.	

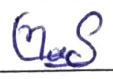
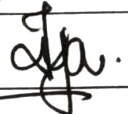
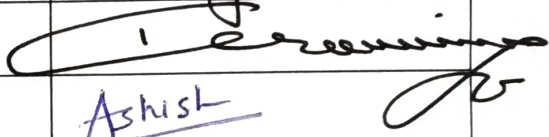
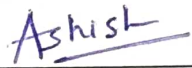

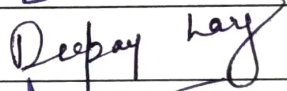
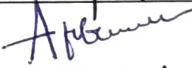

Meeting Attended By: External Experts	Meeting Attended By: Marwadi University
<ol style="list-style-type: none"><li data-bbox="236 409 533 439">1. Dr. Madhuri Bhavsar<li data-bbox="236 568 496 598">2. Mr. Savan Anjaria<li data-bbox="236 728 560 757">3. Mr. Parthrajsinh Jadeja	<ol style="list-style-type: 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="847 770 1110 799">4. Prof. Hardik Doshi 

Minutes of Meeting

Date: 14/07/2016		Meeting No: 01	
Start Time: 11:00 AM	End Time: 12:30 PM	Total Time: 1.5 Hours	
Presented by		Prof. Jay B. Teraiya	
Agenda – 1 Review of Vision & Mission of Computer Engineering Department			
Discussion & Resolution	<ul style="list-style-type: none"> The department established the vision and mission through a consultative process involving the stakeholders considering the scope for growth of the department and future societal requirements keeping in view with the vision and mission of the university. The department aims to empower the skills required in the industry to benefit the society. The department aims to prepare students for their higher studies and research to contribute to the advanced technological needs of computer engineering. Encourage faculty to update their knowledge and teaching-learning process through continuous learning by doing inter-disciplinary research and support the industry. Vision & Mission of Computer Engineering Department attached in Annexure - I. 		
Agenda – 2 Review of Program Outcome (PO) for B. Tech Computer Engineering			
Discussion & Resolution	<ul style="list-style-type: none"> The PO of the program are defined by considering Graduate Attributes defined by NBA through Washington accord signed by India in 2014. Computer engineering department describe that graduate are expected to understand the engineering principle to manage project in multidisciplinary environment and life-long learning. 		
Agenda – 3 Review of Program Specific Outcome (PSO) of Computer Engineering Department			
Discussion & Resolution	<ul style="list-style-type: none"> The department is committed to provide quality education in Computer Engineering to students to build their career and do quality research and thus contribute to the field of IT Industries which reflects in the PSO. PO and PSO of Computer Engineering Department attached in Annexure - II. 		
Agenda – 4 Review of curriculum structure of Computer Engineering UG Program			
Discussion & Resolution	<ul style="list-style-type: none"> Contact hours for students should ideally be 25 to 30 hours per week. 1st year course should be common for all soft branches of engineering. Credit to be considered based on the following <ol style="list-style-type: none"> 1. Lecture 1 hour = 1 credit 		

	<p>2. Lab / Tutorial 2 hours = 1 credit</p> <ul style="list-style-type: none"> • For every tutorial / practical 1 contact hour, 0.5 credit weightage to be given. • Courses like Computer Programming and Computer Workshop emphasises on skill development. • Courses adding values to the skill of the students can be incorporated. • Teaching scheme of 1st year course attached in Annexure - III.
Agenda – 5	Review of syllabus contents proposed
Discussion & Resolution	<ul style="list-style-type: none"> • Percentage for continuous evaluation and end semester evaluation should either be 60:40 or 50:50 for theory and practical subject. • Passing criteria for theory and laboratory should be fixed separately and total marks/ overall result of the subject to be considered for passing. • Courses like computer programming and engineering graphics are providing more practical contact hour then theory hours are appreciable. • Course outcome as mentioned in the detailed syllabus are clearly resembling the PO of the Computer Engineering program. • More MOOC based value-added courses should be added to curriculum for better industry skill and more exposure of technical skill.
Agenda – 6	Discussion on Program Outcome and Course Outcome attainment
Discussion & Resolution	<ul style="list-style-type: none"> • Attainment level of Program Outcomes for the batch admitting in the A.Y. 2016-17 are discussed and details for the same are attached in the Annexure – IV. • Attainment level of Course Outcomes for the courses of first year for the A.Y. 2016-17 are discussed and details for the same are attached in the Annexure - IV.

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	

Annexure III

Teaching and Examination Scheme of B. Tech. - COMPUTER ENGINEERING – 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	
01CE0102	COMPUTER WORKSHOP	0	0	2	1	0	0	0	25	25	50
01EE0101	ELEMENTS OF ELECTRICAL ENGINEERING	3	0	2	4	50	30	20	25	25	150
01GS0101	PHYSICS	3	0	2	4	50	30	20	25	25	150
01MA0101	ENGINEERING MATHEMATICS- I	4	2	0	5	50	30	20	25	25	150
01ME0101	ELEMENTS OF MECHANICAL ENGINEERING	3	0	2	4	50	30	20	25	25	150
01PE0101	PHYSICAL EDUCATION/SPORTS/YOGA	0	0	2	1	0	0	0	0	0	0
01SL0101	COMMUNICATION SKILLS	2	0	2	3	50	30	20	25	25	150
02PY0131	PHYSICS -1	4	0	0	4	50	30	20	25	25	150

Teaching and Examination Scheme of B. Tech. - COMPUTER ENGINEERING – 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	
01CE0101	COMPUTER PROGRAMMING	3	0	2	4	50	30	20	25	25	150
01CR0101	CAREER READINESS PROGRAM	2	0	0	2	50	30	20	0	0	100
01EC0101	BASICS OF ELECTRONICS ENGINEERING	3	0	2	4	50	30	20	25	25	150
01EC0102	DIGITAL ELECTRONICS	3	0	2	4	50	30	20	25	25	150
01EN0101	BASICS OF ENVIRONMENTAL STUDIES	2	0	0	2	50	30	20	0	0	100
01MA0151	ENGINEERING MATHEMATICS-II	4	2	0	5	50	30	20	25	25	150
01ME0103	ENGINEERING DRAWING	2	0	4	4	50	30	20	25	25	150

Annexure IV

Attainment of Program Outcomes:

- The attainment level of Program Outcomes for the batch admitting in the year 2016-17 is set to 60% based on the discussion with the committee members.
- It will be kept same for the subsequent batches admitting till the review of attainment levels for the first batch is carried out.

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

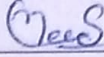
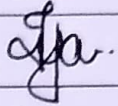
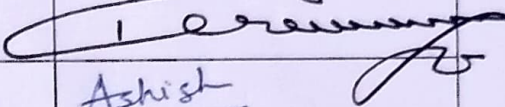
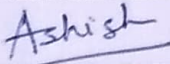
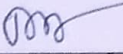
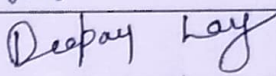
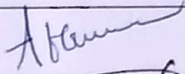
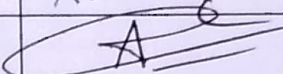
Minutes of Meeting

Date: 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.		

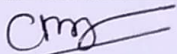
Section – B	Agenda for discussion
Agenda – 1	Review of curriculum structure of 2nd & 3rd year B. Tech. Computer Engineering Program
Discussion & Resolution	<ul style="list-style-type: none"> • 2nd & 3rd year courses are branch specific and as needed for core fundamentals of branch. • Department elective 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	Tutorial		Practical	ESE	IA	CSE	Viva		Term Work
01CE0601	COMPILER DESIGN	3	0	2	4	50	30	20	25	25	150
01CE0602	.NET TECHNOLOGIES	4	0	2	5	50	30	20	25	25	150
01CE06XX	DEPARTMENT ELECTIVE - 2	4	0	2	5	50	30	20	25	25	150
01CE0606	DESIGN ENGINEERING AND PROJECT MANAGEMENT	0	0	2	1	0	0	0	25	25	50
01CR0501	BUSINESS BENCHMARK	1	0	0	1	0	0	0	50	50	100
01IT0601	SOFTWARE ENGINEERING	3	0	2	4	50	30	20	25	25	150
01IT0602	WEB TECHNOLOGY	3	0	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: 13/04/2018		Meeting No: 03	
Start Time: 10:00 AM	End Time: 11:00 AM	Total Time: 1 Hour	
Presented by		Dr. Amit Lathigara	
Section - A			
Section - A		Action taken on previous meeting	
Agenda No.	Agenda		
1	Review of curriculum structure of 2 nd & 3 rd year B. Tech. Computer Engineering Program		
Action Taken	No further action is required.		
2	Review of syllabus contents proposed		
Action Taken	No further action is required.		
3	Introduction of Value-added courses in curriculum		
Action Taken	Value-added courses add to final year curriculum and collaboration with Amazon Web Services and Cisco Networking Academy.		
4	Revision in syllabus of Engineering Mathematics -I, Engineering Mathematics -II & Statistical and Numerical Methods.		
Action Taken	As per the agenda, syllabus of Engineering Mathematics -I, Engineering Mathematics -II and Statistical and Numerical Methods are revised, also Engineering Mathematics -I, Engineering Mathematics -II are renamed to Differential and Integral Calculus and Matrix Algebra and Vector Calculus respective.		
5	Discussion and approval of M. Tech. in Computer Engineering – Cyber Security, Teaching scheme and detailed syllabus of Sem-I & Sem-II.		
Action Taken	No further action is required.		
6	Discussion on course outcome attainment		
Action Taken	Course attainment target for all the courses is set as per discussion in previous meeting.		
7	Any special points/advises by members of board of studies		
Action Taken	No further action is required.		



Section – B	Discussion Points
Agenda – 1	Review of curriculum structure of 4th year B.Tech. Computer Engineering Program
Discussion & Resolution	<ul style="list-style-type: none"> • Subject distribution is according to categories like UC, UE, IE, PC and PE. Subjects' groups are based on programs where they will learn same set of subjects but in different semesters. • Department electives are offered in final year so that students can choose based on their interest. List of elective subjects are mentioned in teaching scheme. • For 8th semester, students must have freedom to go for industry project or technical learning within campus. • Teaching scheme of 7th & 8th semesters are attached in Annexure I.
Agenda – 2	Review and Revision of syllabus contents proposed
Discussion & Resolution	<ul style="list-style-type: none"> • Programming subjects are evaluated based on projects. Same will be applicable for other subjects. Subjects must be taught and evaluated based on active learning. • Design thinking and problem-solving and Human centric design approach courses are added in semester III and semester IV respectively to have experience on problem solving skill and project-based learning.
Agenda – 3	Inclusion of state of art topics and contents suitable to the current and futuristic learning and development paradigms for the graduates.
Discussion & Resolution	<ul style="list-style-type: none"> • One or two courses should be taught through independent study during program. (Learning to learn) self-learning platforms like SWAYAM must be encouraged. • Learning and Development department would be offering Special purpose training and Special interest group programs designed for the overall development of the student. • In place of Career Readiness Program, course of Value Education is introduced.
Agenda – 4	Discussion on Value Added Course
Discussion & Resolution	<ul style="list-style-type: none"> • Value added course integrated with Amazon Web Services and Cisco Networking Academy. • Value added courses focusing on Cloud Computing and Mobile Computing. • Get Connected • Mobility Fundamentals • Packet Tracer 103 • AWS: AWS Academy Cloud Foundation



Agenda – 5	Discussion and approval of M. Tech. in Computer Engineering – Cyber Security, 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.• Teaching scheme of 3rd & 4th semesters are attached in Annexure II.• For the 3rd Semester, students are allowed to go for Industry project / Technical Learning / Internship within Campus.
	•
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.



Meeting Attendees:

Sr.	Expert Name	Expert Signature
1.	Dr. Amit Lathigara	
2.	Dr. R. B. Jadeja	
3.	Dr. Nitul Dutta	
4.	Prof. Jay B. Teraiya	
5.	Dr. Ashish Kumar Srivastava	
6.	Prof. Ashish Revar	
7.	Dr. Ketan Kotecha	
8.	Dr. Deepak Garg	
9.	Dr. Amit Ganatra	
10.	Dr. Apurva Shah	

Annexure I

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

Subject Code	Subject Name	Teaching Scheme (Hours)		Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks	
		Theory	Tutorial		Practical	ESE	IA	CSE	Viva		Term Work
01CE0701	MOBILE COMPUTING	3	0	2	4	50	30	20	25	25	150
01CE0702	ARTIFICIAL INTELLIGENCE	4	0	2	5	50	30	20	25	25	150
01IT0701	ADVANCED WEB TECHNOLOGIES	3	0	2	4	50	30	20	25	25	150
01CE07XX	DEPARTMENT ELECTIVE - 3	4	0	2	5	50	30	20	25	25	150
01CE07XX	DEPARTMENT ELECTIVE - 4	4	0	2	5	50	30	20	25	25	150
01IT0703	MAJOR PROJECT - 1	0	0	2	1	0	0	0	50	50	100

DEPARTMENT ELECTIVE - 3	DEPARTMENT ELECTIVE - 4
1) 01CE0703 - IOS PROGRAMMING	1) 01CE0707 - DATA MINING AND INFORMATION RETRIEVAL
2) 01CE0704 - ANDROID PROGRAMMING	2) 01CE0708 - SOFTWARE ARCHITECTURE
3) 01CE0705 - PROGRAMMING WITH PYTHON	3) 01CE0709 - COMPUTATIONAL INTELLIGENCE
4) 01CE0706 - ADVANCED .NET TECHNOLOGIES	



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

Subject Code	Subject Name	Teaching Scheme (Hours)		Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		Theory	Tutorial		Practical	ESE	IA	CSE	Viva	
01CE08XX	DEPARTMENT ELECTIVE – 5	4	0	2	50	30	20	25	25	150
01CE08XX	DEPARTMENT ELECTIVE - 6	4	0	2	50	30	20	25	25	150
01IT0801	MAJOR PROJECT – II	0	0	18	0	0	0	200	200	400

DEPARTMENT ELECTIVE - 5

- 1) 01CE0801 - NATURAL LANGUAGE PROCESSING
- 2) 01CE0802 - BIG DATA AND ANALYTICS
- 3) 01CE0803 - CLOUD COMPUTING

DEPARTMENT ELECTIVE – 6

- 1) 01CE0804 - MACHINE LEARNING
- 2) 01CE0805 - BUSINESS INTELLIGENCE
- 3) 01CE0806 - INTERNET OF THINGS



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
01CY0302	DISSERTATION I	0	0	22	11	0	30	20	100	150	300
01CY0306	INFORMATION SECURITY MANAGEMENT SYSTEM	3	0	2	4	50	30	20	25	25	150
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	
01CY0401	DISSERTATION II	0	0	34	17	0	0	0	150	250	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
Program Core	57
Program Elective Course	62
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

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

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: 14/07/2019		Meeting No: 04	
Start Time: 09:00 AM	End Time: 10:30 AM	Total Time: 1.5 Hours	
Presented by	Dr. Amit Lathigara		
Section - A			
Action taken on previous BoS meeting			
Agenda No.	Agenda		
1	Review of curriculum structure of 4 th year B.Tech. Computer Engineering Program		
Action Taken	No further action is required.		
2	Review and Revision 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 and approval of M. Tech. in Computer Engineering – Cyber Security, Teaching scheme and detailed syllabus of Sem-III & Sem-IV		
Action Taken	No further action is required.		
6	Discussion on course outcome attainment		
Action Taken	Course attainment target for all the courses is set as per discussion in previous meeting.		



Section – B	Discussion Points
Agenda – 1	Review of curriculum structure of computer Engineering UG Program
Discussion & Resolution	<ul style="list-style-type: none">Syllabus scrutiny against Course Outcomes and their significance to Bloom's Taxonomy Levels. Few modifications will be done in COs according to which it will be mapped with Bloom's Taxonomy.
Agenda – 2	Review of syllabus contents proposed
Discussion & Resolution	<ul style="list-style-type: none">Subject names and subject codes have to be aligned based on their elective groups. Elective groups are already fine-tuned as per the suggestion.Content of 01CE1302 and 01CE1303 are revised.There is need of revised in credit of Major Project - I of 7th semester as only 1 credit allocated to subject.
Agenda – 3	Suggestions or: making the curriculum inclined toward industrial integration
Discussion & Resolution	<ul style="list-style-type: none">Program electives should be offered in such way that student can choose his/her specialization from domains like development, security, data science, IOT etc.In final semester, students must have freedom to go for industry project or technical learning within campus.
Agenda – 4	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 - I.
Agenda – 5	Any special points/advises by members of board of studies
Discussion & Resolution	<ul style="list-style-type: none">Higher levels of bloom's taxonomy should be targeted in the subjects of higher semesters.



Meeting Attendees:

Sr.	Expert Name	Expert Signature
1.	Dr. Amit Lathigara	
2.	Dr. R. B. Jadeja	
3.	Dr. Nitul Dutta	
4.	Dr. Sunil Soni	
5.	Prof. Jay B. Teraiya	
6.	Prof. Krunal Vaghela	
7.	Prof. Santosh Chapaneri	
8.	Dr. Rajnikanth Aluvalu	



Annexure I

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
Program Core	57
Program Elective Course	62
General Courses - University Core (GN-UC)	52
General Courses - University Elective (GN-UE)	52
Basic Science Courses - University Core (BS-UC)	52
Engineering Science Courses - University Core (ES-UC)	52

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

Course Category	Target level of Attainment for the Course Outcome
Program Core	57
Program Elective Course	62
General Courses - University Core (GN-UC)	52
General Courses - University Elective (GN-UE)	52
Basic Science Courses - University Core (BS-UC)	52
Engineering Science Courses - University Core (ES-UC)	52



Minutes of Meeting

Date: 20/06/2020		Meeting No: 05	
Start Time: 10:00 AM		End Time: 01:00 PM	
		Total Time: 3 Hours	
Presented by		Dr. Nitul Dutta	
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	The Credit for Major Project - I is revised to 4 credits based on the feedback of committee members.		
3	Suggestions on making the curriculum inclined toward industrial integration		
Action Taken	No further action is required.		
4	Discussion on course outcome attainment		
Action Taken	Course attainment target for all the courses is set as per discussion in previous meeting.		
5	Any special points/advises by members of board of studies		
Action Taken	No further action is required.		

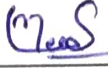
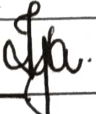
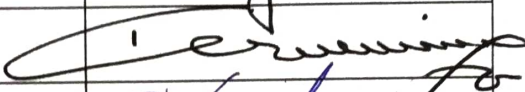
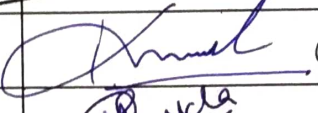

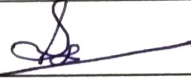


Section – B	Discussion Points
Agenda – 1	Review of curriculum structure of computer Engineering UG Program
Discussion & Resolution	<ul style="list-style-type: none">Contact hours for students should ideally be 26 to 30 hours per week.
Agenda – 2	Review of syllabus contents proposed
Discussion & Resolution	<ul style="list-style-type: none">Syllabus scrutiny against course outcomes and their significance to bloom's taxonomy levels.Separate credits should be allocated for MOOC course enrolment. It is encouraged for each student to enrol in either Udemy, Udacity, Coursera, etc. to earn this credit.
Agenda – 3	Inclusion of state of art topics and contents suitable to the current and futuristic learning and development paradigms for the graduates
Discussion & Resolution	<ul style="list-style-type: none">Programming subject shall be evaluated based on mini projects. Subject must be taught using active learning.Innovative learning techniques and online tools should be used by the faculties since the covid-19 pandemic has created online teaching / learning environment.
Agenda – 4	Discussion on Value-Added Course
Discussion & Resolution	<ul style="list-style-type: none">Value added course integrated with Coursera.Value added courses focusing on Design and Analysis of Algorithm.Coursera: Algorithmic Toolbox
Agenda – 5	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 – 6	Discussion and approval of M. Tech. in Computer Engineering, Teaching scheme and detailed syllabus of Sem-I & Sem-II.
Discussion & Resolution	<ul style="list-style-type: none">New Program M. Tech in Computer Engineering is introduced in this Academic year.Teaching schemes for M. Tech Computer Engineering is proposed & detailed syllabus of 1st and 2nd semester are designed and attached in Annexure - I.Departmental electives are given in all semesters to provide flexibility in the curriculum.



	<ul style="list-style-type: none">• Content revision is required in CLSP & MFCS Subjects based on feedback of stockholders. Annexure II – Feedback.
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Meeting Attendees:

Sr.	Expert Name	Expert Signature
1.	Dr. Nitul Dutta	
2.	Dr. R. B. Jadeja	
3.	Prof. Jay B. Teraiya	
4.	Prof. Krunal Vaghela	
5.	Dr. Madhu Shukla	
6.	Dr. Sridhar Swaminathan	
7.	Prof. Santosh Champaneri	
8.	Dr. Jayakumar S.	

Annexure I

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	
01CO1101	MATHEMATICAL FOUNDATION	4	0	0	4	50	30	20	0	25	125
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
01CY1108	CYBER LAWS AND SECURITY POLICIES	3	2	0	4	50	30	20	25	25	150
01ES1111	E- WASTE MANAGEMENT	3	0	0	3	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 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
Program Core	57
Program Elective Course	62
General Courses - University Core (GN-UC)	52
General Courses - University Elective (GN-UE)	52
Basic Science Courses - University Core (BS-UC)	52
Engineering Science Courses - University Core (ES-UC)	52

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

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

3) M. Tech. – Computer Engineering

Course Category	Target level of Attainment for the Course Outcome
Program Core	55
Program Elective Course	60



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)	Term Work (TW)	
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



Marwadi
University

Faculty of Law

**Program Structure Design Committee & Board
of Study Meeting Agenda**

Date: 27th January, 2018

Venue: Marwadi University Campus, Rajkot

Time: 10:30 am

Sr. No.	Particulars	Annexure	Page No.
1	Approval of Vision Statement & Mission Statement, of Faculty of Law, Marwadi University	A	1
2	Approval of Programme Outcome, Programme Educational Objectives & Programme Specific Outcome of B.A., LL.B. (Hons) and B.Com., LL.B. (Hons)	B	2
3	Approval of Program Structure of B.A., LL.B. (Hons)	C	4
4	Approval of Program Structure of B.Com., LL.B. (Hons)	D	8
5	Introduction of Teaching & Examination Scheme and Syllabus of Semester I of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons.	E	12
6	Any other item with the permission of the chair	F	



**MINUTES OF THE PROGRAM STRUCTURE DESIGN COMMITTEE &
BOARD OF STUDY MEETING HELD ON 27TH JANUARY, 2018.**

Members Present

- 1) Prof. Bhavani Prasad Panda, Vice Chancellor, Maharashtra National Law University, Mumbai
- 2) Ms. Daksha Baxi, Executive Director, Khaitan and Co.
- 3) Prof. (Dr.) Purvi Pokhariyal, Director & Dean, Institute of Law, Nirma University
- 4) Mr. Rodney Ryder, Founding Partner, Scriboard Advocates & Legal Consultants
- 5) Mr. Pranit Nanavati, Advocate, Gujarat High Court
- 6) Ms. Winnie Shekhar, Partner, Induslaw, Bangalore
- 7) Mr. Subhrarag Mukherjee, In-house Counsel, Hewlett Packard Enterprise
- 8) Prof. Dabiru Sridhar Patnaik, Professor, Jindal Global Law School
- 9) Dr. Rhishikesh Dave, Dean, Faculty of Law, Marwadi University
- 10) Dr. Sunil Kumar Jakhoria, Dean, Faculty of Management, Marwadi University
- 11) Prof. Shyam Kumar R S, Law Faculty
- 12) Prof. Rahul Nikam, Law Faculty
- 13) Mrs. Hetal Upadhyay, Executive Assistant, Faculty of Law, Marwadi University
- 14) Prof. Jaykumar Buddhdev, Assistant Professor, Communication Skills, Marwadi University

Dean Faculty of Law welcomed the members and explained to them the role and function of Program Structure Design Committee Meeting.

The Committee decided the following:

Semester, then Sociology II should be taught in the Second Semester instead of scheduling it in the Fourth Semester.

10. It was decided not to specify Electives at the initial stage and only use the term Elective 1, 2 and so on so that we can have autonomy for deciding the Electives at later stage. Along with the suggested Electives the committee also suggested to have Electives on following:

- i. Contract Drafting & Negotiation
- ii. Technology and Law
- iii. Litigation Management
- iv. Pre-Litigation Client/Dispute Management
- v. Government/Public Sector Contracts.
- vi. Drafting of Legislation

It was also suggested that as an alternate to a full credit course, the School of Law should also consider organizing exhaustive Workshops/Conferences/Training Programs for some of these highly specialized topics/areas of law by inviting experts from the industry and law firms.

11. Economics-1 – The topic 'Economic Analysis of Law' to be replaced with 'Relationship between Law and Economics' in Module 1.
12. Sociology-1 – Module 6 – The title should be Social Research Methods.
13. 'Catalogue Description' in the entire syllabus to be replaced with 'Course Description'.
14. Law of Contract – 1 following change to be done
 - a) In Module 10 Legal notice for the breach of contract to be added
 - b) Introduction to be given on
 - i. Standard forms of Contract
 - ii. International Contract
 - iii. Government Contract and Article 299 of the Indian Constitution.
 - iv. E-Contract
 - a) Latest amendment in The Specific Relief Act should be added in Module 11.
16. Syllabus and Teaching examination Scheme of Semester I is approved with the suggestions given above shall be considered.



MARWADI UNIVERSITY
FACULTY OF LAW

Agenda for Board of Studies, FoL

Date: 12.10.2019

Time: 11.00 am

Venue: Board Room, MC301 (Main Academic Building, 3rd Floor), Marwadi University Campus.

Sr. No.	Particulars	Page No
1	A) Introduction of Teaching & Examination Scheme and Syllabus of Semester II of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons. B) Introduction of Teaching & Examination Scheme and Syllabus of Semester III of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons. C) Introduction of Teaching & Examination Scheme and Syllabus of Semester IV of undergraduate program of B.A. LL.B Hons. & B. Com LL.B Hons.	
2	A) Introduction of Approval of Programme Outcome, Programme Educational Objectives & Programme Specific Outcome for Master in Laws (LL.M). B) Introduction of Teaching & Examination Scheme and Syllabus of Trimester I of One Year Master of Laws program. C) Introduction of Teaching & Examination Scheme and Syllabus of Trimester II of One Year Master of Laws program. D) Introduction of Teaching & Examination Scheme and Syllabus of Trimester III of One Year Master of Laws program.	
3	Adoption of PhD Rules and Regulations of Marwadi University to Faculty of Law	
4	Any other item with the Permission of the Chair	



Chairperson
Board of Studies, Faculty of Law
Marwadi University



Marwadi
University

Faculty of Law

MINUTES OF THE BOARD OF STUDIES MEETING HELD ON 12TH OCTOBER, 2019.

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) Dr. Mihirkumar Dave, Assistant Professor, Communication Skills, Marwadi University
- 10) Mr. Bhavin Joshi, Assistant Manager, Training and Counseling, Marwadi University
- 11) Ms. Hetal Upadhyay, Executive Assistant, Faculty of Law, Marwadi University

Dean Faculty of Law welcomed the members and BOS meeting decided the following:

- 1) Syllabus of all the papers of Political Science to be revised so as to maintain logical flow and synchronization of topics.
- 2) Law of Torts following changes to be done
 - a) Amendment to Consumer Protection Act to be added in Module 7
 - b) Response by company to Consumer Complaint to be added in Module 7
 - c) Amendment of Motor Vehicles Act 2019 to be added in Module 8
- 3) Law of Contract-2 – Limited Liability Partnership to be added in Module 4
- 4) Sociology-2 – Schedule of 5 & 6 of the Constitution of India to be added.
- 5) Family Law-1 – Separate Module of Special Marriage Act to be added
- 6) Constitutional Law-1 – Latest Judgments of Supreme Court to be updated.
- 7) LOC-1 – Module 3 to be replaced by Module 4 and vice versa

- 8) Environment Law -- Biodiversity Law, E-waste management and Plastic waste management to be added.
- 9) Constitutional Law-2 following changes to be done
 - a) Provision regarding Interstate Trade and Commerce
 - b) Doctrine of pleasure to be taught at an appropriate place
- 10) The syllabus along with teaching-examination scheme of Semester II, III & IV of B.A.LLB Hons & B.Com.,LL.B Hons is approved with incorporation of the above changes.
- 11) It is decided that as law is a professional course so all the syllabus contents must reflect either employability or entrepreneurship or skill development.
- 12) LLM Trim-II - In paper Criminal Justice and Human Rights, KI Vibhute book of Criminal Justice and Human Rights, How system makes you victim, Cyber Crime to be added.
- 13) LLM Trim-III
 - a) In paper Sentence and Sentencing, Sentencing Policy and Process to be added
 - b) In White Collar Crimes Unit IV -- "Some major scandals" to be replaced with "Some Illustrative Case studies"
- 14) Programme Outcome, Programme Educational Objectives & Programme Specific Outcome for the Master of Laws (LLM) is approved.
- 15) Programme structure and Teaching & Examination Scheme and Syllabus of Trimester I, II, III of One Year Master of Laws program is approved.
- 16) Ph.D Rules - To work regulations as per the latest UGC guidelines.

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



Dr. Rhishikesh Dave
Dean, Faculty of Law
Marwadi University

**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. Subhrrag 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.

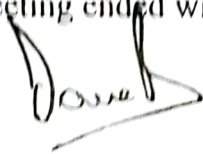


the stakeholders (Teachers, Industry, Parents & Students) while preparing syllabus and Pre Board of Study meeting.

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.

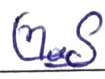
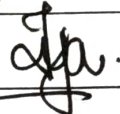
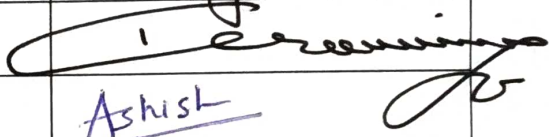
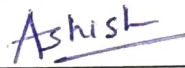

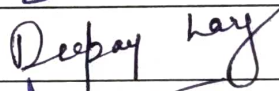
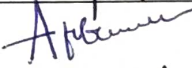



Minutes of Meeting

Date: 14/07/2016		Meeting No: 01	
Start Time: 11:00 AM	End Time: 12:30 PM	Total Time: 1.5 Hours	
Presented by	Prof. Jay B. Teraiya		
Agenda – 1	Review of Vision & Mission of Computer Engineering Department		
Discussion & Resolution	<ul style="list-style-type: none"> • The department established the vision and mission through a consultative process involving the stakeholders considering the scope for growth of the department and future societal requirements keeping in view with the vision and mission of the university. • The department aims to empower the skills required in the industry to benefit the society. • The department aims to prepare students for their higher studies and research to contribute to the advanced technological needs of computer engineering. • Encourage faculty to update their knowledge and teaching-learning process through continuous learning by doing inter-disciplinary research and support the industry. • Vision & Mission of Computer Engineering Department attached in Annexure - I. 		
Agenda – 2	Review of Program Outcome (PO) for B. Tech Computer Engineering		
Discussion & Resolution	<ul style="list-style-type: none"> • The PO of the program are defined by considering Graduate Attributes defined by NBA through Washington accord signed by India in 2014. • Computer engineering department describe that graduate are expected to understand the engineering principle to manage project in multidisciplinary environment and life-long learning. 		
Agenda – 3	Review of Program Specific Outcome (PSO) of Computer Engineering Department		
Discussion & Resolution	<ul style="list-style-type: none"> • The department is committed to provide quality education in Computer Engineering to students to build their career and do quality research and thus contribute to the field of IT Industries which reflects in the PSO. • PO and PSO of Computer Engineering Department attached in Annexure - II. 		
Agenda – 4	Review of curriculum structure of Computer Engineering UG Program		
Discussion & Resolution	<ul style="list-style-type: none"> • Contact hours for students should ideally be 25 to 30 hours per week. • 1st year course should be common for all soft branches of engineering. • Credit to be considered based on the following <ol style="list-style-type: none"> 1. Lecture 1 hour = 1 credit 		

	<p>2. Lab / Tutorial 2 hours = 1 credit</p> <ul style="list-style-type: none"> • For every tutorial / practical 1 contact hour, 0.5 credit weightage to be given. • Courses like Computer Programming and Computer Workshop emphasises on skill development. • Courses adding values to the skill of the students can be incorporated. • Teaching scheme of 1st year course attached in Annexure - III.
Agenda – 5	Review of syllabus contents proposed
Discussion & Resolution	<ul style="list-style-type: none"> • Percentage for continuous evaluation and end semester evaluation should either be 60:40 or 50:50 for theory and practical subject. • Passing criteria for theory and laboratory should be fixed separately and total marks/ overall result of the subject to be considered for passing. • Courses like computer programming and engineering graphics are providing more practical contact hour then theory hours are appreciable. • Course outcome as mentioned in the detailed syllabus are clearly resembling the PO of the Computer Engineering program. • More MOOC based value-added courses should be added to curriculum for better industry skill and more exposure of technical skill.
Agenda – 6	Discussion on Program Outcome and Course Outcome attainment
Discussion & Resolution	<ul style="list-style-type: none"> • Attainment level of Program Outcomes for the batch admitting in the A.Y. 2016-17 are discussed and details for the same are attached in the Annexure – IV. • Attainment level of Course Outcomes for the courses of first year for the A.Y. 2016-17 are discussed and details for the same are attached in the Annexure - IV.

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	

Annexure III

Teaching and Examination Scheme of B. Tech. - COMPUTER ENGINEERING – 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	
01CE0102	COMPUTER WORKSHOP	0	0	2	1	0	0	0	25	25	50
01EE0101	ELEMENTS OF ELECTRICAL ENGINEERING	3	0	2	4	50	30	20	25	25	150
01GS0101	PHYSICS	3	0	2	4	50	30	20	25	25	150
01MA0101	ENGINEERING MATHEMATICS- I	4	2	0	5	50	30	20	25	25	150
01ME0101	ELEMENTS OF MECHANICAL ENGINEERING	3	0	2	4	50	30	20	25	25	150
01PE0101	PHYSICAL EDUCATION/SPORTS/YOGA	0	0	2	1	0	0	0	0	0	0
01SL0101	COMMUNICATION SKILLS	2	0	2	3	50	30	20	25	25	150
02PY0131	PHYSICS -1	4	0	0	4	50	30	20	25	25	150

Teaching and Examination Scheme of B. Tech. - COMPUTER ENGINEERING – 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	
01CE0101	COMPUTER PROGRAMMING	3	0	2	4	50	30	20	25	25	150
01CR0101	CAREER READINESS PROGRAM	2	0	0	2	50	30	20	0	0	100
01EC0101	BASICS OF ELECTRONICS ENGINEERING	3	0	2	4	50	30	20	25	25	150
01EC0102	DIGITAL ELECTRONICS	3	0	2	4	50	30	20	25	25	150
01EN0101	BASICS OF ENVIRONMENTAL STUDIES	2	0	0	2	50	30	20	0	0	100
01MA0151	ENGINEERING MATHEMATICS-II	4	2	0	5	50	30	20	25	25	150
01ME0103	ENGINEERING DRAWING	2	0	4	4	50	30	20	25	25	150

Annexure IV

Attainment of Program Outcomes:

- The attainment level of Program Outcomes for the batch admitting in the year 2016-17 is set to 60% based on the discussion with the committee members.
- It will be kept same for the subsequent batches admitting till the review of attainment levels for the first batch is carried out.

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

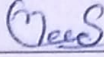
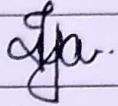
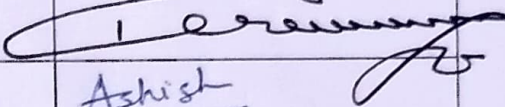
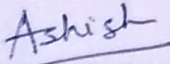
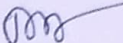
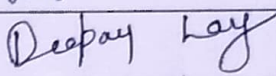
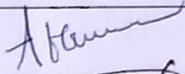
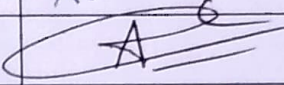
Minutes of Meeting

Date: 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.		

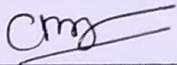
Section – B	Agenda for discussion
Agenda – 1	Review of curriculum structure of 2nd & 3rd year B. Tech. Computer Engineering Program
Discussion & Resolution	<ul style="list-style-type: none"> • 2nd & 3rd year courses are branch specific and as needed for core fundamentals of branch. • Department elective 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: 13/04/2018		Meeting No: 03	
Start Time: 10:00 AM	End Time: 11:00 AM	Total Time: 1 Hour	
Presented by		Dr. Amit Lathigara	
Section - A			
Section - A		Action taken on previous meeting	
Agenda No.	Agenda		
1	Review of curriculum structure of 2 nd & 3 rd year B. Tech. Computer Engineering Program		
Action Taken	No further action is required.		
2	Review of syllabus contents proposed		
Action Taken	No further action is required.		
3	Introduction of Value-added courses in curriculum		
Action Taken	Value-added courses add to final year curriculum and collaboration with Amazon Web Services and Cisco Networking Academy.		
4	Revision in syllabus of Engineering Mathematics -I, Engineering Mathematics -II & Statistical and Numerical Methods.		
Action Taken	As per the agenda, syllabus of Engineering Mathematics -I, Engineering Mathematics -II and Statistical and Numerical Methods are revised, also Engineering Mathematics -I, Engineering Mathematics -II are renamed to Differential and Integral Calculus and Matrix Algebra and Vector Calculus respective.		
5	Discussion and approval of M. Tech. in Computer Engineering – Cyber Security, Teaching scheme and detailed syllabus of Sem-I & Sem-II.		
Action Taken	No further action is required.		
6	Discussion on course outcome attainment		
Action Taken	Course attainment target for all the courses is set as per discussion in previous meeting.		
7	Any special points/advises by members of board of studies		
Action Taken	No further action is required.		



Section – B	Discussion Points
Agenda – 1	Review of curriculum structure of 4th year B.Tech. Computer Engineering Program
Discussion & Resolution	<ul style="list-style-type: none"> • Subject distribution is according to categories like UC, UE, IE, PC and PE. Subjects' groups are based on programs where they will learn same set of subjects but in different semesters. • Department electives are offered in final year so that students can choose based on their interest. List of elective subjects are mentioned in teaching scheme. • For 8th semester, students must have freedom to go for industry project or technical learning within campus. • Teaching scheme of 7th & 8th semesters are attached in Annexure I.
Agenda – 2	Review and Revision of syllabus contents proposed
Discussion & Resolution	<ul style="list-style-type: none"> • Programming subjects are evaluated based on projects. Same will be applicable for other subjects. Subjects must be taught and evaluated based on active learning. • Design thinking and problem-solving and Human centric design approach courses are added in semester III and semester IV respectively to have experience on problem solving skill and project-based learning.
Agenda – 3	Inclusion of state of art topics and contents suitable to the current and futuristic learning and development paradigms for the graduates.
Discussion & Resolution	<ul style="list-style-type: none"> • One or two courses should be taught through independent study during program. (Learning to learn) self-learning platforms like SWAYAM must be encouraged. • Learning and Development department would be offering Special purpose training and Special interest group programs designed for the overall development of the student. • In place of Career Readiness Program, course of Value Education is introduced.
Agenda – 4	Discussion on Value Added Course
Discussion & Resolution	<ul style="list-style-type: none"> • Value added course integrated with Amazon Web Services and Cisco Networking Academy. • Value added courses focusing on Cloud Computing and Mobile Computing. • Get Connected • Mobility Fundamentals • Packet Tracer 103 • AWS: AWS Academy Cloud Foundation



Agenda – 5	Discussion and approval of M. Tech. in Computer Engineering – Cyber Security, 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.• Teaching scheme of 3rd & 4th semesters are attached in Annexure II.• For the 3rd Semester, students are allowed to go for Industry project / Technical Learning / Internship within Campus.
	•
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.



Meeting Attendees:

Sr.	Expert Name	Expert Signature
1.	Dr. Amit Lathigara	
2.	Dr. R. B. Jadeja	
3.	Dr. Nitul Dutta	
4.	Prof. Jay B. Teraiya	
5.	Dr. Ashish Kumar Srivastava	
6.	Prof. Ashish Revar	
7.	Dr. Ketan Kotecha	
8.	Dr. Deepak Garg	
9.	Dr. Amit Ganatra	
10.	Dr. Apurva Shah	

Annexure I

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

Subject Code	Subject Name	Teaching Scheme (Hours)		Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks	
		Theory	Tutorial		Practical	ESE	IA	CSE	Viva		Term Work
01CE0701	MOBILE COMPUTING	3	0	2	4	50	30	20	25	25	150
01CE0702	ARTIFICIAL INTELLIGENCE	4	0	2	5	50	30	20	25	25	150
01IT0701	ADVANCED WEB TECHNOLOGIES	3	0	2	4	50	30	20	25	25	150
01CE07XX	DEPARTMENT ELECTIVE - 3	4	0	2	5	50	30	20	25	25	150
01CE07XX	DEPARTMENT ELECTIVE - 4	4	0	2	5	50	30	20	25	25	150
01IT0703	MAJOR PROJECT - 1	0	0	2	1	0	0	0	50	50	100

DEPARTMENT ELECTIVE - 3	DEPARTMENT ELECTIVE - 4
1) 01CE0703 - IOS PROGRAMMING	1) 01CE0707 - DATA MINING AND INFORMATION RETRIEVAL
2) 01CE0704 - ANDROID PROGRAMMING	2) 01CE0708 - SOFTWARE ARCHITECTURE
3) 01CE0705 - PROGRAMMING WITH PYTHON	3) 01CE0709 - COMPUTATIONAL INTELLIGENCE
4) 01CE0706 - ADVANCED .NET TECHNOLOGIES	



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

Subject Code	Subject Name	Teaching Scheme (Hours)		Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
		Theory	Tutorial		Practical	ESE	IA	CSE	Viva	
01CE08XX	DEPARTMENT ELECTIVE – 5	4	0	2	50	30	20	25	25	150
01CE08XX	DEPARTMENT ELECTIVE - 6	4	0	2	50	30	20	25	25	150
01IT0801	MAJOR PROJECT – II	0	0	18	0	0	0	200	200	400

DEPARTMENT ELECTIVE - 5

- 1) 01CE0801 - NATURAL LANGUAGE PROCESSING
- 2) 01CE0802 - BIG DATA AND ANALYTICS
- 3) 01CE0803 - CLOUD COMPUTING

DEPARTMENT ELECTIVE – 6

- 1) 01CE0804 - MACHINE LEARNING
- 2) 01CE0805 - BUSINESS INTELLIGENCE
- 3) 01CE0806 - INTERNET OF THINGS



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
01CY0302	DISSERTATION I	0	0	22	11	0	30	20	100	150	300
01CY0306	INFORMATION SECURITY MANAGEMENT SYSTEM	3	0	2	4	50	30	20	25	25	150
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	
01CY0401	DISSERTATION II	0	0	34	17	0	0	0	150	250	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
Program Core	57
Program Elective Course	62
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

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

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: 14/07/2019		Meeting No: 04	
Start Time: 09:00 AM		End Time: 10:30 AM	
		Total Time: 1.5 Hours	
Presented by		Dr. Amit Lathigara	
Section - A		Action taken on previous BoS meeting	
Agenda No.		Agenda	
1		Review of curriculum structure of 4 th year B.Tech. Computer Engineering Program	
Action Taken		No further action is required.	
2		Review and Revision 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 and approval of M. Tech. in Computer Engineering – Cyber Security, Teaching scheme and detailed syllabus of Sem-III & Sem-IV	
Action Taken		No further action is required.	
6		Discussion on course outcome attainment	
Action Taken		Course attainment target for all the courses is set as per discussion in previous meeting.	



Section – B	Discussion Points
Agenda – 1	Review of curriculum structure of computer Engineering UG Program
Discussion & Resolution	<ul style="list-style-type: none">Syllabus scrutiny against Course Outcomes and their significance to Bloom's Taxonomy Levels. Few modifications will be done in COs according to which it will be mapped with Bloom's Taxonomy.
Agenda – 2	Review of syllabus contents proposed
Discussion & Resolution	<ul style="list-style-type: none">Subject names and subject codes have to be aligned based on their elective groups. Elective groups are already fine-tuned as per the suggestion.Content of 01CE1302 and 01CE1303 are revised.There is need of revised in credit of Major Project - I of 7th semester as only 1 credit allocated to subject.
Agenda – 3	Suggestions or: making the curriculum inclined toward industrial integration
Discussion & Resolution	<ul style="list-style-type: none">Program electives should be offered in such way that student can choose his/her specialization from domains like development, security, data science, IOT etc.In final semester, students must have freedom to go for industry project or technical learning within campus.
Agenda – 4	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 - I.
Agenda – 5	Any special points/advises by members of board of studies
Discussion & Resolution	<ul style="list-style-type: none">Higher levels of bloom's taxonomy should be targeted in the subjects of higher semesters.



Meeting Attendees:

Sr.	Expert Name	Expert Signature
1.	Dr. Amit Lathigara	
2.	Dr. R. B. Jadeja	
3.	Dr. Nitul Dutta	
4.	Dr. Sunil Soni	
5.	Prof. Jay B. Teraiya	
6.	Prof. Krunal Vaghela	
7.	Prof. Santosh Chapaneri	
8.	Dr. Rajnikanth Aluvalu	



Annexure I

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
Program Core	57
Program Elective Course	62
General Courses - University Core (GN-UC)	52
General Courses - University Elective (GN-UE)	52
Basic Science Courses - University Core (BS-UC)	52
Engineering Science Courses - University Core (ES-UC)	52

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

Course Category	Target level of Attainment for the Course Outcome
Program Core	57
Program Elective Course	62
General Courses - University Core (GN-UC)	52
General Courses - University Elective (GN-UE)	52
Basic Science Courses - University Core (BS-UC)	52
Engineering Science Courses - University Core (ES-UC)	52



Minutes of Meeting

Date: 20/06/2020		Meeting No: 05	
Start Time: 10:00 AM	End Time: 01:00 PM	Total Time: 3 Hours	
Presented by	Dr. Nitul Dutta		
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	The Credit for Major Project - I is revised to 4 credits based on the feedback of committee members.		
3	Suggestions on making the curriculum inclined toward industrial integration		
Action Taken	No further action is required.		
4	Discussion on course outcome attainment		
Action Taken	Course attainment target for all the courses is set as per discussion in previous meeting.		
5	Any special points/advises by members of board of studies		
Action Taken	No further action is required.		

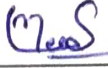
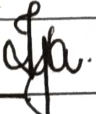
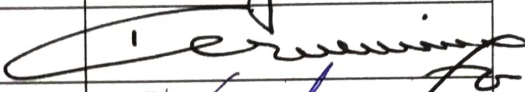
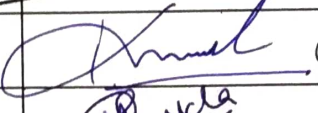

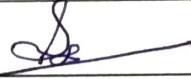


Section – B	Discussion Points
Agenda – 1	Review of curriculum structure of computer Engineering UG Program
Discussion & Resolution	<ul style="list-style-type: none">Contact hours for students should ideally be 26 to 30 hours per week.
Agenda – 2	Review of syllabus contents proposed
Discussion & Resolution	<ul style="list-style-type: none">Syllabus scrutiny against course outcomes and their significance to bloom's taxonomy levels.Separate credits should be allocated for MOOC course enrolment. It is encouraged for each student to enrol in either Udemy, Udacity, Coursera, etc. to earn this credit.
Agenda – 3	Inclusion of state of art topics and contents suitable to the current and futuristic learning and development paradigms for the graduates
Discussion & Resolution	<ul style="list-style-type: none">Programming subject shall be evaluated based on mini projects. Subject must be taught using active learning.Innovative learning techniques and online tools should be used by the faculties since the covid-19 pandemic has created online teaching / learning environment.
Agenda – 4	Discussion on Value-Added Course
Discussion & Resolution	<ul style="list-style-type: none">Value added course integrated with Coursera.Value added courses focusing on Design and Analysis of Algorithm.Coursera: Algorithmic Toolbox
Agenda – 5	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 – 6	Discussion and approval of M. Tech. in Computer Engineering, Teaching scheme and detailed syllabus of Sem-I & Sem-II.
Discussion & Resolution	<ul style="list-style-type: none">New Program M. Tech in Computer Engineering is introduced in this Academic year.Teaching schemes for M. Tech Computer Engineering is proposed & detailed syllabus of 1st and 2nd semester are designed and attached in Annexure - I.Departmental electives are given in all semesters to provide flexibility in the curriculum.



	<ul style="list-style-type: none">• Content revision is required in CLSP & MFCS Subjects based on feedback of stockholders. Annexure II – Feedback.
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Meeting Attendees:

Sr.	Expert Name	Expert Signature
1.	Dr. Nitul Dutta	
2.	Dr. R. B. Jadeja	
3.	Prof. Jay B. Teraiya	
4.	Prof. Krunal Vaghela	
5.	Dr. Madhu Shukla	
6.	Dr. Sridhar Swaminathan	
7.	Prof. Santosh Champaneri	
8.	Dr. Jayakumar S.	

Annexure I

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	
01CO1101	MATHEMATICAL FOUNDATION	4	0	0	4	50	30	20	0	25	125
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
01CY1108	CYBER LAWS AND SECURITY POLICIES	3	2	0	4	50	30	20	25	25	150
01ES1111	E- WASTE MANAGEMENT	3	0	0	3	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	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 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
Program Core	57
Program Elective Course	62
General Courses - University Core (GN-UC)	52
General Courses - University Elective (GN-UE)	52
Basic Science Courses - University Core (BS-UC)	52
Engineering Science Courses - University Core (ES-UC)	52

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

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

3) M. Tech. – Computer Engineering

Course Category	Target level of Attainment for the Course Outcome
Program Core	55
Program Elective Course	60



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)	Term Work (TW)	
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

MINUTES OF THE MEETING

Board of Studies meeting for B. Pharmacy

Meeting No.: 06



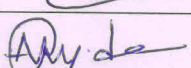
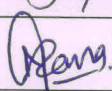
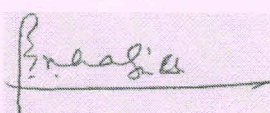
Date: December 20, 2021, Saturday **Time:** 12:00 to 13:00 **Venue:** Online through Google Meet
Video call link: <https://meet.google.com/ohw-ksvr-zme>

The meeting of the Board of Studies (BoS) for the Faculty of Pharmacy, Marwadi University was held on December 20, 2021, from 12:00 PM onwards through online mode.

Item no.	Agenda	Description/ Conclusion
6BoS1	Review of last BoS meeting MoM.	Dr. Lalji Baldaniya, Principal, Faculty of Pharmacy, Marwadi University, presided over the meeting and welcomed all the distinguished members of BoS. Minutes of meetings of the fifth BoS were accepted and unanimously passed by members without any comments or suggestions. Enclosure-1
6BoS2	Review and discuss the syllabus of B. Pharm. Semester-8.	After referring syllabus and guidelines prescribed by the Pharmacy Council of India (PCI), New Delhi for the implementation of the B. Pharm. syllabus, all members agreed to follow the syllabus pattern for B. Pharm as per PCI rules and syllabus of B. Pharm. course regulations 2014. Enclosure-2
6BoS3	Review and discuss the criteria for opting for program electives.	The members deliberated on the following criteria for opting for program electives (Enclosure-3): 1. A program elective can be offered if a minimum of 25% of the students of sanctioned intake (not on enrolled students) opted for a particular elective subject. 2. An institute can offer up to 2 program elective subjects per class.
6BoS4	Discuss the guidelines of minor research projects during semester-8.	The members deliberated on the guidelines of minor research projects and found it appropriate and approved it without any change. Enclosure-4
6BoS5	Any other agenda with the permission of the chairperson.	The chairperson read out the extract of a decision made during the meeting, then forwarded it and recommended it to be put up in the academic council meeting for approval.

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

The following members of BoS were present in the meeting:

Sr.	Internal members	BoS Designation	Signature
1.	Dr. Lalji Baldaniya	Chairperson	
2.	Dr. Ramesh B. Parmar	Member	
3.	Dr. Ashish V. Kyada	Member	
4.	Dr. Mehul G. Rana	Member	
Sr.	External members	BoS Designation	Signature
5.	Dr. B. N. Suhagia	Member Dean, Faculty of Pharmacy, Dharmsinh Desai University, Nadiad, Gujarat, India. bnsuhagia@rediffmail.com 9427000135	

6.	Dr. M. M. Patel	Member Provost, Sabarmati University Ahmedabad, Gujarat. drmpatel@ymail.com 9825041654	
7.	Mr. K. D. Patel	Member Director, BAN Lab (P) Ltd., Rajkot, Gujarat, India director@banlab.com 02812433371	Absent



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Faculty of Pharmacy

B. Pharm. Semester-8 Teaching and Examination Scheme

Subject Code	Subject Name	Category	Teaching Scheme (Hours)				Credits	Evaluation Scheme					Group	
			Theory		Practical			ESE (E)	Theory Marks		Practical Marks			Total Marks
			Theory	Tutorial	Practical	IA			CSE	Viva (V)	Term Work (TW)			
13PH0801	Biostatistics and Research Methodology	PC	3	1	0	4	75	15	10	0	0	0	100	-
13PH0802	Social and Preventive Pharmacy	PC	3	1	0	4	75	15	10	0	0	0	100	-
13PH0803	Pharma Marketing Management	PEC	3	1	0	4	75	15	10	0	0	0	100	B
13PH0804	Pharmaceutical Regulatory Science	PEC	3	1	0	4	75	15	10	0	0	0	100	B
13PH0805	Pharmacovigilance	PEC	3	1	0	4	75	15	10	0	0	0	100	A
13PH0806	Quality Control and Standardization of Herbals	PEC	3	1	0	4	75	15	10	0	0	0	100	A
13PH0807	Computer-Aided Drug Design	PEC	3	1	0	4	75	15	10	0	0	0	100	B
13PH0808	Cell and Molecular Biology	PEC	3	1	0	4	75	15	10	0	0	0	100	A
13PH0809	Cosmetic Science	PEC	3	1	0	4	75	15	10	0	0	0	100	A
13PH0810	Experimental Pharmacology	PEC	3	1	0	4	75	15	10	0	0	0	100	A
13PH0811	Advanced Instrumentation Techniques	PEC	3	1	0	4	75	15	10	0	0	0	100	A
13PH0812	Dietary Supplements and Nutraceuticals	PEC	3	1	0	4	75	15	10	0	0	0	100	B
13PH0813	Project Work	PC	0	0	12	6	0	0	0	0	100	50	150	B
Total			36	12	0	54	900	180	120	100	50	50	1350	



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MINUTES OF THE MEETING

Board of Studies meeting for B. Pharmacy

Meeting No.: 05

Date: August 6, 2021, Friday **Time:** 11:00 to 12:00 **Venue:** Online through Google Meet



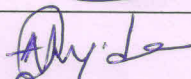
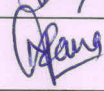
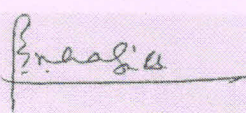
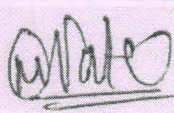
Video call link: <https://meet.google.com/mie-rcup-gbg>

The meeting of the Board of Studies (BoS) for the Faculty of Pharmacy, Marwadi University was held on August 6, 2021, from 11:00 am onwards through online mode.

Item no.	Agenda	Description/ Conclusion
5BoS1	Review of last BoS meeting MoM	Dr. Lalji Baldaniya, Principal, Faculty of Pharmacy, Marwadi University, presided over the meeting and welcomed all the distinguished members of BoS. Minutes of meetings of the fourth BoS were accepted and unanimously passed by members without any comments or suggestions. Enclosure-1
5BoS2	Review and discuss the syllabus of B. Pharm. Semester-7	After referring syllabus and guidelines prescribed by the Pharmacy Council of India (PCI), New Delhi for the implementation of the B. Pharm. syllabus, all members agreed to follow the syllabus pattern for B. Pharm as per PCI rules and syllabus of B. Pharm. course regulations 2014. Enclosure-2
5BoS3	Review and discuss the guidelines of the practice school module	The members deliberated on the guidelines of the practice school module and found it appropriate and approved it without any change. Enclosure-3
5BoS4	Introduction of two open university elective subjects	The members deliberated on the syllabus of the proposed two subjects as open university electives were found appropriate and approved it without any change. Enclosure-4
5BoS5	Any other agenda with the permission of the chairperson.	The chairperson read out the extract of a decision made during the meeting, then forwarded it and recommended it to be put up in the academic council meeting for approval.

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

The following members of BoS were present in the meeting:

Sr.	Internal members	BoS Designation	Signature
1.	Dr. Lalji Baldaniya	Chairperson	
2.	Dr. Ramesh B. Parmar	Member	
3.	Dr. Ashish V. Kyada	Member	
4.	Dr. Mehul G. Rana	Member	
Sr.	External members	BoS Designation	Signature
5.	Dr. B. N. Suhagia	Member Dean, Faculty of Pharmacy, Dharmsinh Desai University, Nadiad, Gujarat, India. bnsuhagia@rediffmail.com 9427000135	
6.	Dr. M. M. Patel	Member Provost, Sabarmati University Ahmedabad, Gujarat.	

		drmpatel@ymail.com 9825041654	
7.	Mr. K. D. Patel	Member Director, BAN Lab (P) Ltd., Rajkot, Gujarat, India director@banlab.com 02812433371	



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B. Pharm. Semester-7 Teaching and Examination Scheme

Subject Code	Subject Name	Category	Teaching Scheme (Hours)			Credits	Theory Marks				Evaluation Scheme		
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Practical Marks	Term Work (TW)	Total Marks
13PH0701	Instrumental Methods of Analysis	PC	3	1	4	6	75	15	10	35	15	150	
13PH0702	Industrial Pharmacy-II	PC	3	1	0	4	75	15	10	0	0	100	
13PH0703	Pharmacy Practice	PC	3	1	0	4	75	15	10	0	0	100	
13PH0704	Novel Drug Delivery Systems	PC	3	1	0	4	75	15	10	0	0	100	
13PH0705	Quality Assurance	PC	3	1	0	4	75	15	10	0	0	100	
13PH0706	Practice School	PC	0	0	12	6	0	0	0	150	0	150	
Total			15	5	4	28	375	75	50	185	15	700	



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Subject code: 13PH0706

Subject name: Practice School

Teaching and assessment scheme:

Teaching Scheme (Hours)			Credits	Theory/ Tutorial Marks			Practical Marks		Total Marks
Theory	Tutorial	Practical		CSE	IA (I)	ESE (E)	TW	Viva (V)	
0	0	12	6	0	0	0	50	100	150

Guidelines:

In semester VII, every candidate shall undergo practice school for 150 hours during the semester. The student shall opt for any one of the following activity for practice school:

- Hospital training (Hospital having minimum 10-bed facilities)*
- Training in a Drug store/ CHC/ PHC*
- Training in a R & D organization/ CRO/ Manufacturing organization/ QA & QC Laboratory/ Public testing laboratory/ Drug regulatory body*
- Successfully pass MOOCs course equivalent to 6 credits through SWAYAM Platform*
- Detailed literature review on any technical topic (At least 50 references should be included in the report to be submitted)

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (about 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at the college level and grade point shall be awarded.

*Certificate of training should be incorporated in the report.

FACULTY OF PHARMACY
Open elective subject | Syllabus



Subject name: Pharma Marketing Management

Subject code:

Scope: The pharmaceutical industry not only needs highly qualified researchers, chemists and technical people but also requires skilled managers who can take the industry forward by managing and taking the complex decisions which are imperative for the growth of the industry. The knowledge and know-how of marketing management groom the people for taking a challenging role in sales and product management.

Objective: The course aims to provide an understanding of marketing concepts and techniques related to their applications in the pharmaceutical industry.

Teaching and assessment scheme:

Teaching Scheme (Hours)			Credits	Theory/ Tutorial Marks			Practical Marks		Total Marks
Theory	Tutorial	Practical		CSE	IA	ESE	TW	Viva	
2	0	0	2	10	15	75	0	0	100

Theory syllabus:

Teaching hours: 30 Hours

Unit-1

10 Hours

Marketing: Definition, general concepts and scope of marketing; Distinction between marketing & selling; Marketing environment; Industry and competitive analysis; Analyzing consumer buying behaviour; industrial buying behaviour. Pharmaceutical market: Quantitative and qualitative aspects; size and composition of the market; demographic descriptions and socio-psychological characteristics of the consumer; market segmentation & targeting. Consumer profile; Motivation and prescribing habits of the physician; patients' choice of physician and retail pharmacist. Analyzing the Market; Role of market research.

Unit-2

10 Hours

Promotion: Methods, determinants of the promotional mix, promotional budget; An overview of personal selling, advertising, direct mail, journals, sampling, retailing, medical exhibition, public relations, online promotional techniques for OTC Products.

Unit-3

10 Hours

Pharmaceutical marketing channels: Designing channel, channel members, selecting the appropriate channel, conflict in channels, physical distribution management: Strategic importance, tasks in physical distribution management. Professional sales representative (PSR): Duties of PSR, the purpose of detailing, selection and training, supervising, norms for customer calls, motivating, evaluating, compensation and future prospects of the PSR.

Recommended References (Latest edition):

1. Philip Kotler and Kevin Lane Keller: Marketing Management, Prentice-Hall of India, New Delhi.
2. Walker, Boyd and Larreche: Marketing Strategy- Planning and Implementation, Tata McGraw-Hill, New Delhi.
3. Dhruv Grewal and Michael Levy: Marketing, Tata MC Graw Hill.
4. Arun Kumar and N Menakshi: Marketing Management, Vikas Publishing, India.

5. Rajan Saxena: Marketing Management; Tata McGraw-Hill (India Edition).
6. Ramaswamy, U.S & Nanakamari, S: Marketing Management: Global Perspective, IndianContext, Macmillan India, New Delhi.
7. Shanker, Ravi: Service Marketing, Excell Books, New Delhi.
8. Subba Rao Changanti, Pharmaceutical Marketing in India (GIFT - Excel series) Excel Publications.

Subject name: **Computer-Aided Drug Design**
 Subject code:

Scope: This subject is designed to provide detailed knowledge of the rational drug design process and various techniques used in it.

Objective: Upon completion of the course the student shall be able to

1. Design and discovery of lead molecules
2. The role of drug design in the drug discovery process
3. The concept of QSAR and docking
4. Various strategies to develop new drug-like molecules
5. The design of new drug molecules using molecular modelling software.

Teaching and assessment scheme:

Teaching Scheme (Hours)			Credits	Theory/ Tutorial Marks			Practical Marks		Total Marks
Theory	Tutorial	Practical		CSE	IA	ESE	TW	Viva	
2	0	0	2	10	15	75	0	0	100

Theory syllabus:

Teaching hours: 30 Hours

Unit-1

10 Hours

Introduction to drug discovery and development: Stages of drug discovery and development Lead discovery and Analog Based Drug Design Rational approaches to lead discovery based on traditional medicine, Random screening, Non-random screening, serendipitous drug discovery, lead discovery based on drug metabolism, lead discovery based on clinical observation. Analog Based Drug Design: Bioisosterism, Classification, Bioisosteric replacement. Any three case studies

Unit-2

10 Hours

Quantitative Structure-Activity Relationship (QSAR): SAR versus QSAR, History and development of QSAR; Types of physicochemical parameters, experimental and theoretical approaches for the determination of physicochemical parameters such as Partition coefficient, Hammett's substituent constant and Taft's steric constant. Hansch analysis, Free Wilson analysis, 3D-QSAR approaches like COMFA and COMSIA.

Unit-3

10 Hours

Molecular modeling and virtual screening techniques: Drug likeness screening, Concept of pharmacophore mapping and pharmacophore-based screening. Molecular docking: Rigid docking, flexible docking, manual docking, docking based screening. De novo drug design.

Recommended References (Latest edition):

1. Robert GCK, ed., "Drug Action at the Molecular Level" University Park Press Baltimore.
2. Martin YC. "Quantitative Drug Design" Dekker, New York.
3. Delgado JN, Remers WA eds "Wilson & Gisvold's Text Book of Organic Medicinal & Pharmaceutical Chemistry" Lippincott, New York.
4. Foye WO "Principles of Medicinal chemistry 'Lea & Febiger.
5. Koro Ikovas A, Burckhalter JH. "Essentials of Medicinal Chemistry" Wiley Interscience.

6. Wolf ME, ed "The Basis of Medicinal Chemistry, Burger's Medicinal Chemistry" JohnWiley& Sons, New York.
7. Patrick Graham, L., An Introduction to Medicinal Chemistry, Oxford University Press.
8. Smith HJ, Williams H, eds, "Introduction to the Principles of drug design" Wright Boston.
9. Silverman R.B. "The Organic Chemistry of Drug Design and Drug Action" Academic Press New York.

MINUTES OF THE MEETING
Board of Studies meeting for B. Pharmacy
Meeting No.: 04



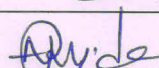
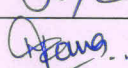
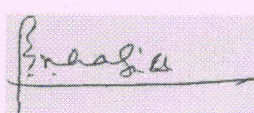
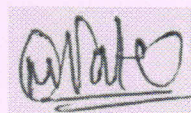
Date: 08-06-2020, Monday **Time:** 11:00 to 12:00 **Venue:** Online through Google Meet
Video call link: <https://meet.google.com/mie-rcup-gbg>

The meeting of the Board of Studies (BoS) for the Faculty of Pharmacy, Marwadi University was held on 08-06-2020 from 11:00 am onwards through online mode.

Item no.	Agenda	Description/ Conclusion
4BoS1	Review of last BoS meeting MoM	Dr Lalji Baldaniya, Principal, Faculty of Pharmacy, Marwadi University, presided over the meeting and welcomed all the distinguished members of BoS. Minutes of meetings of the fourth BoS were accepted and unanimously passed by members without any comments or suggestions. Enclosure-1
4BoS2	Review and discuss the syllabus of B. Pharm. Semester-5 and 6	After referring syllabus and guidelines prescribed by the Pharmacy Council of India (PCI), New Delhi for the implementation of the B. Pharm. syllabus, all members agreed to follow the syllabus pattern for B. Pharm as per PCI rules and syllabus of B. Pharm. course regulations 2014. Enclosure-2
4BoS3	Any other agenda with the permission of the chairperson.	The chairperson read out the extract of a decision made during the meeting, then forwarded it and recommended it to be put up in the academic council meeting for approval.

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

The following members of BoS were present in the meeting:

Sr.	Internal members	BoS Designation	Signature
1.	Dr Lalji Baldaniya	Chairperson	
2.	Dr Ramesh B. Parmar	Member	
3.	Dr Ashish V. Kyada	Member	
4.	Dr Mehul G. Rana	Member	
Sr.	External members	BoS Designation	Signature
5.	Dr B. N. Suhagia	Member Dean, Faculty of Pharmacy, Dharmsinh Desai University, Nadiad, Gujarat, India. bnsuhagia@rediffmail.com 9427000135	
6.	Dr M. M. Patel	Member Provost, Sabarmati University Ahmedabad, Gujarat. drmm Patel@gmail.com 9825041654	
7.	Mr K. D. Patel	Member Director, BAN Lab (P) Ltd., Rajkot, Gujarat, India director@banlab.com 02812433371	Absent



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Faculty of Pharmacy

B. Pharm. Semester-5 Teaching and Examination Scheme

B. Pharm. Year-3, Sem-5

Subject Code	Subject Name	Category	Teaching Scheme (Hours)			Credits	Theory Marks				Evaluation Scheme		Total Marks
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term Work (TW)		
13PH0501	Medicinal Chemistry-II	PC	3	1	-	4	75	15	10	10	-	-	100
13PH0502	Pharmacology-II	PC	3	1	4	6	75	15	10	10	35	15	150
13PH0503	Pharmacognosy and Phytochemistry-II	PC	3	1	4	6	75	15	10	10	35	15	150
13PH0504	Pharmaceutical Microbiology	PC	3	1	4	6	75	15	10	10	35	15	150
13PH0505	Pharmaceutical Biotechnology	PC	3	1	-	4	75	15	10	10	-	-	100
	Total		15	5	12	26	375	75	50	50	105	45	650



Pradatta

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B. Pharm. Semester-6 Teaching and Examination Scheme

Subject Code	Subject Name	Category	Teaching Scheme (Hours)			Credits	Theory Marks			Evaluation Scheme		
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term Work (TW)	Total Marks
13PH0601	Medicinal Chemistry-III	PC	3	1	4	6	75	15	10	35	15	150
13PH0602	Pharmacology-III	PC	3	1	4	6	75	15	10	35	15	150
13PH0603	Herbal Drug Technology	PC	3	1	4	6	75	15	10	35	15	150
13PH0604	Biopharmaceutics and Pharmacokinetics	PC	3	1	0	4	75	15	10	0	0	100
13PH0605	Industrial Pharmacy-I	PC	3	1	4	6	75	15	10	35	15	150
	Total		15	5	16	28	375	75	50	140	60	700



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MINUTES OF THE MEETING
Board of Studies meeting for B. Pharmacy
Meeting No.: 03



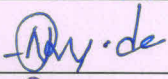
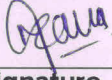
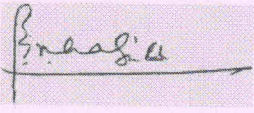
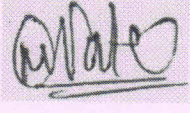
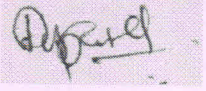
Date: 09-12-2019, Monday **Time:** 10:00 to 11:00 **Venue:** Online through Google Meet
Video call link: <https://meet.google.com/mie-rcup-gbg>

The meeting of the Board of Studies (BoS) for the Faculty of Pharmacy, Marwadi University was held on 09-12-2019 from 10:00 am onwards through online mode.

Item no.	Agenda	Description/ Conclusion
3BoS1	Review of last BoS meeting MoM	Dr Lalji Baldaniya, Principal, Faculty of Pharmacy, Marwadi University, presided over the meeting and welcomed all the distinguished members of BoS. Minutes of meetings of the fourth BoS were accepted and unanimously passed by members without any comments or suggestions. Enclosure-1
3BoS2	Review and discuss the syllabus of B. Pharm. Semester-4	After referring syllabus and guidelines prescribed by the Pharmacy Council of India (PCI), New Delhi for the implementation of the B. Pharm. syllabus, all members agreed to follow the syllabus pattern for B. Pharm as per PCI rules and syllabus of B. Pharm. course regulations 2014. Enclosure-2
3BoS3	Any other agenda with the permission of the chairperson.	The chairperson read out the extract of a decision made during the meeting, then forwarded it and recommended it to be put up in the academic council meeting for approval.

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

The following members of BoS were present in the meeting:

Sr.	Internal members	BoS Designation	Signature
1.	Dr Lalji Baldaniya	Chairperson	
2.	Dr Ramesh B. Parmar	Member	
3.	Dr Ashish V. Kyada	Member	
4.	Dr Mehul G. Rana	Member	
Sr.	External members	BoS Designation	Signature
5.	Dr B. N. Suhagia	Member Dean, Faculty of Pharmacy, Dharmsinh Desai University, Nadiad, Gujarat, India. bnsuhagia@rediffmail.com 9427000135	
6.	Dr M. M. Patel	Member Provost, Sabarmati University Ahmedabad, Gujarat. drmm Patel@gmail.com 9825041654	
7.	Mr K. D. Patel	Member Director, BAN Lab (P) Ltd., Rajkot, Gujarat, India director@banlab.com 02812433371	



Marwadi
UNIVERSITY

Marwadi University
Faculty of Pharmacy

B. Pharm. Draft Teaching and Examination Scheme Semester-3 & 4

Subject Code	Subject Name	Category	Teaching Scheme (Hours)				Credits	Evaluation Scheme				
			Theory		Practical			Theory Marks		Practical Marks		Total Marks
			Theory	Tutorial	Practical	Practical		ESE (E)	IA	CSE	Viva (V)	
13PH0401	Pharmaceutical Organic Chemistry-III	PC	3	1	--	4	75	15	10	--	--	100
13PH0402	Medicinal Chemistry-I	PC	3	1	4	6	75	15	10	35	15	150
13PH0403	Physical Pharmaceutics-II	PC	3	1	4	6	75	15	10	35	15	150
13PH0404	Pharmacology-I	PC	3	1	4	6	75	15	10	35	15	150
13PH0405	Pharmaceutical Jurisprudence	PC	3	1	--	4	75	15	10	--	--	100
	Total		15	5	12	26	375	75	50	105	45	650



Baldania

PRINCIPAL
FACULTY OF PHARMACY
MARAWADI UNIVERSITY
RAJKOT - 360 003.

To,
Principal
Faculty of Pharmacy
Marwadi University
Rajkot, Gujarat, INDIA

30-07-2019

Subject: Regarding approval of the Board of Studies committee members for Faculty of Pharmacy.

Reference: Principal request letter on 29-07-2019.

Dear sir,

According to above-stated subject, the following names are selected to constitute the Board of Studies committee for the Department of Pharmacy for the next coming three years.

Sr.	Member type	Name	BoS Designation
1.	Internal member	Dr. Lalji Baldaniya	Chairman
2.	Internal member	Dr. Ramesh B. Parmar	Member
3.	Internal member	Dr. Ashish V. Kyada	Member
4.	Internal member	Dr. RP Burman	Member
5.	External member	Dr. B. N. Suhagia	Member
6.	External member	Dr. M. M. Patel	Member
7.	Industrial member	Mr. K. D. Patel	Member

You are requested to intimate each member through proper channels and arrange BoS meeting as per the requirement.



vjodeya
Registrar



To,
Provost,
Marwadi University
Rajkot, Gujarat, INDIA

29-07-2019

Subject: Regarding revision of BoS members of Faculty of Pharmacy.

Respected sir,

According to an above-stated subject, herewith I am suggesting a list of members to revise the constituted the Board of Studies (BoS) for the Department of Pharmacy. You are requested to finalize the names of BoS members.

Marwadi University norms to constitute for Board of Studies:

- 1) There shall be a Board of Studies for each department comprising:
 - a. The Head of the Faculty/ Centre/ Department/ School - Chairperson.
 - b. Two teachers of the concerned department or as may be decided by the Academic Council from time to time.
 - c. Two experts of the concerned faculty/ department to be nominated as members by the Provost on the recommendation of the Chairman, Board of Studies from outside the University from academia/ industries.
- 2) The term of members of the Board of Studies shall be three years.
- 3) The Provost can constitute the Board of Studies for the faculties/ departments to be started by the University as and when required.
- 4) A detailed syllabus of the different courses of the department shall be prepared by the Board of Studies and be submitted to the Academic Council for its approval and publication.
- 5) Contents of the syllabi shall be revised and updated by the Board of Studies from time to time and be submitted to the Academic Council for approval.
- 6) The meetings of the Board of Studies shall be arranged at least twice during an academic year.

List of recommended members of Board of Studies:
A. Internal members (Member of academic from Marwadi University)

Sr.	Name	Designation	Contact Details
1.	Dr. Lalji Baldaniya	Principal, Faculty of Pharmacy, Marwadi University	lalji.baldaniya@marwadieducation.edu.in 9979961431
2.	Dr. Ramesh B. Parmar	Associate Professor, Faculty of Pharmacy, Marwadi University	ramesh.parmar@marwadieducation.edu.in 9979342684
3.	Dr. Ashish V. Kyada	Associate Professor, Faculty of Pharmacy, Marwadi University	ashishkumar.kyada@marwadieducation.edu.in 9586230300
4.	Dr. RP Burman	Assistant Professor, Faculty of Pharmacy, Marwadi University	rohaniprasad.burman@marwadieducation.edu.in 9592832040

B. External members (Member of academics from other universities)

Sr.	Name	Designation	Contact Details
1.	Dr. B. N. Suhagia (Member)	Dean, Faculty of Pharmacy, Dharmsinh Desai University	bnsuhagia@rediffmail.com 9427000135
2.	Dr. M. M. Patel (Member)	Director, Shree Swaminarayan Sanskar Pharmacy College	drmm Patel@ymail.com 9825041654

C. Industrial members

Sr.	Name	Designation	Contact Details
1.	Mr. K. D. Patel (Industry expert)	Director, BAN Lab (P) Ltd., Rajkot	director@banlab.com 02812433371

Thank you.

Baldania.

Dr. Lalji Baldaniya
Principal, Faculty of Pharmacy

According to recommendation received from HOD - [Branch Name], the above members are **Approved/ Partially approved (Tick Marked)/ Rejected** by Provost on ___ / ___ / ___.

Approval Remarks: _____.

Copy to:

1. Registrar



[Signature]
Provost

MINUTES OF THE MEETING

Board of Studies meeting for B. Pharmacy

Meeting No.: 02

Date: 04-06-2019, Tuesday **Time:** 11:00 to 12:00 **Venue:** Online through Google Meet



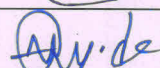
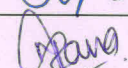
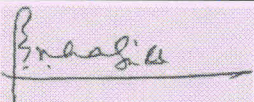
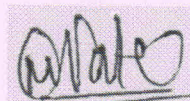
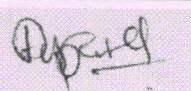
Video call link: <https://meet.google.com/mie-rcup-gbg>

The meeting of the Board of Studies (BoS) for the Faculty of Pharmacy, Marwadi University was held on 04-06-2019 from 11:00 am onwards through online mode.

Item no.	Agenda	Description/ Conclusion
2BoS1	Review of last BoS meeting MoM	Dr Lalji Baldaniya, Principal, Faculty of Pharmacy, Marwadi University, presided over the meeting and welcomed all the distinguished members of BoS. Minutes of meetings of the fourth BoS were accepted and unanimously passed by members without any comments or suggestions. Enclosure-1
2BoS2	Review and discuss the syllabus of B. Pharm. Semester-3	After referring syllabus and guidelines prescribed by the Pharmacy Council of India (PCI), New Delhi for the implementation of the B. Pharm. syllabus, all members agreed to follow the syllabus pattern for B. Pharm as per PCI rules and syllabus of B. Pharm. course regulations 2014. Enclosure-2
2BoS3	Any other agenda with the permission of the chairperson.	The chairperson read out the extract of a decision made during the meeting, then forwarded it and recommended it to be put up in the academic council meeting for approval.

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

The following members of BoS were present in the meeting:

Sr.	Internal members	BoS Designation	Signature
1.	Dr Lalji Baldaniya	Chairperson	
2.	Dr Ramesh B. Parmar	Member	
3.	Dr Ashish V. Kyada	Member	
4.	Dr Mehul G. Rana	Member	
Sr.	External members	BoS Designation	Signature
5.	Dr B. N. Suhagia	Member Dean, Faculty of Pharmacy, Dharmsinh Desai University, Nadiad, Gujarat, India. bnsuhagia@rediffmail.com 9427000135	
6.	Dr M. M. Patel	Member Provost, Sabarmati University Ahmedabad, Gujarat. drmm Patel@gmail.com 9825041654	
7.	Mr K. D. Patel	Member Director, BAN Lab (P) Ltd., Rajkot, Gujarat, India director@banlab.com 02812433371	



Marwadi
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Marwadi University
Faculty of Pharmacy

B. Pharm. Draft Teaching and Examination Scheme Semester-3 & 4

B. Pharm. Year-2, Sem-3		Subject Name	Category	Teaching Scheme (Hours)			Credits	Evaluation Scheme					
Subject Code	Subject Name			Theory	Tutorial	Practical		Theory Marks			Practical Marks		Total Marks
								ESE (E)	IA	CSE	Viva (V)	Term Work (TW)	
13PH0301	Pharmaceutical Organic Chemistry-II	3	1	4	6	75	15	10	35	15	150		
13PH0302	Physical Pharmaceutics-I	3	1	4	6	75	15	10	35	15	150		
13PH0303	Biochemistry	3	1	4	6	75	15	10	35	15	150		
13PH0304	Pathophysiology	3	1	--	4	75	15	10	--	--	100		
13PH0305	Pharmacognosy and Phytochemistry-I	3	1	4	6	75	15	10	35	15	150		
Total		15	5	16	28	375	75	50	140	60	700		



Baldania

PRINCIPAL
FACULTY OF PHARMACY
MARWADI UNIVERSITY
RAJKOT - 360 003.

Minutes of the meeting of 2nd Board of Studies
Faculty of Pharmacy, Marwadi University Rajkot.

The meeting was held on 17th May 2018 @ 12:15 pm at Board Room, Marwadi University, Rajkot.

The following members have attended the meeting:

No.	Name	Designation	Organization
1	Dr. Vipul P. Patel (Chairperson)	Dean	Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat
2	Dr. B.N.Suhagia (Member)	Dean	Faculty of Pharmacy, Dharmsinh Desai University, Nadiad, Gujarat
3	Dr.M.M.Patel (Member)	Director	Shree Swaminarayan Sanskar Pharmacy College, Gandhinagar, Gujarat
4	Mr. K.D. Patel (Industry expert)	Director	BAN Lab (P) Ltd., Rajkot
5	Dr. Lalji Baldania (Teacher representative)	Associate Professor	Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat

The Agenda for the meeting was as follows:

1. ITEM NO. 1

Approval of minutes of 1st BOS meeting

2. ITEM NO. 2

To discuss and approve the syllabus of B. Pharm. & recommend to Academic Council, Marwadi University

3. ITEM NO. 3

To discuss and approve examination pattern for a course of B. Pharm.

4. ITEM NO. 4

To prepare a panel of examiners for B. Pharm.

5. ITEM NO. 5

Any other item with the permission of the chairperson

Dr. Vipul Patel, Principal, Faculty of Pharmacy & Chairperson of the meeting, welcome the members and introduced them.

1. Item No.1 Approval of minutes of 1st BOS meeting

Minutes of meetings of the first BOS were accepted and unanimously passed by members without any comments or suggestions.

2. Item No.2 To discuss and approve the syllabus of B. Pharm. & recommend to Academic Council, Marwadi University

After referring syllabus and guidelines prescribed by Pharmacy Council of India (PCI), New Delhi for the implementation of B.Pharm syllabus, all members agreed to follow the syllabus pattern for B. Pharm as per PCI rules and syllabus B. Pharm course framed under regulations of 6, 7 & 8 B.Pharm course regulations 2014 with a shifting of two subjects i.e. Biochemistry & Pathophysiology from B.Pharm SEM-II to SEM-III and introducing Pharmaceutical Engineering subject from B.Pharm SEM-III To SEM-II. The decision of shifting subjects was in the view of the distribution of academic workload and student learning.

3. Item No.3 To discuss and approve examination pattern for a course of B. Pharm.

The credit system, examination pattern and passing criteria were fully adopted as per guidelines by the Pharmacy Council of India.

4. Item No. 4 To prepare examiners of a panel for B.Pharm.

All members together have prepared a list of examiners of a panel according to subjects.

There being no other matter, the meeting was concluded with a vote of thanks by the chairperson



Dr. Vipul P. Patel

Principal & Chairperson,
MEFGI-Faculty of Pharmacy,

Marwadi University

PRINCIPAL
FACULTY OF PHARMACY
MARAWADI UNIVERSITY
RAJKOT - 360 003.





MARWADI EDUCATION FOUNDATION GROUP OF INSTITUTES-

FACULTY OF PHARMACY, RAJKOT

BOARD OF STUDIES MEETING

DATE: 17TH MAY, 2018

Venue: Board Room, MEFGI Campus, Rajkot

No.	Name	Designation	Organization	Sign
1	Dr. Vipul P. Patel (Chairman)	Dean	Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat	
2	Dr. B.N.Suhagia (Member)	Dean	Faculty of Pharmacy, Dharmsinh Desai University, Nadiad, Gujarat	
3	Dr.M.M.Patel (Member)	Director	Shree Swaminarayan Sanskar Pharmacy College, Gandhinagar, Gujarat	
4	Mr. K.D. Patel (Industry expert)	Director	BAN Lab (P) Ltd., Rajkot	
5	Dr. Lalji Baldania (Teacher representative)	Associate Professor	Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat	



Subject Code	Subject Name	Category	Teaching Scheme (Hours)				Credits	Theory Marks				Evaluation Scheme		Total Marks
			Theory	Tutorial	Practical	CSE		IA	ESE (E)	Viva (V)	Term Work (TW)	Tutorial/ Practical		
												18	4	
13PH0101	Human Anatomy and Physiology I	PC	3	1	4	6	75	15	10	35	15	150		
13PH0102	Pharmaceutical Analysis I	PC	3	1	4	6	75	15	10	35	15	150		
13PH0103	Pharmaceutics I	PC	3	1	4	6	75	15	10	35	15	150		
13PH0104	Pharmaceutical Inorganic Chemistry	PC	3	1	4	6	75	15	10	35	15	150		
13CS0105	Communication skills *	PEC	2	0	2	3	75	15	10	35	15	150		
13BI0101	Remedial Biology *	PEC	2	0	2	3	75	15	10	35	15	150		
13MA0101	Remedial Mathematics*	PEC	2	0	0	2	75	15	10	--	--	100		
Total			18	4	20	32	525	105	70	210	90	850\$/900#		

Applicable ONLY for the students who have studied Mathematics/ Physics/ Chemistry at HSC and appearing for Remedial Biology (RB) course.
 \$ Applicable ONLY for the students who have studied Physics/ Chemistry/ Botany/ Zoology at HSC and appearing for Remedial Mathematics (RM) course.
 * Non University Examination (NUE)

Baldania



PRINCIPAL
FACULTY OF PHARMACY
MARWADI UNIVERSITY
RAJKOT - 360 003.



Marwadi
UNIVERSITY

Marwadi University
Faculty of Pharmacy

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

Subject Code	Subject Name	Category	Teaching Scheme (Hours)				Credits	Theory Marks				Evaluation Scheme		
			Theory		Practical			ESE (E)	IA	CSE	Viva (V)	Term work (TW)	Total Marks	
			Theory	Tutorial	Theory	Practical								
13PH0201	Human Anatomy and Physiology II	PC	3	1	4	6	75	15	10	35	15	150		
13PH0202	Pharmaceutical Organic Chemistry I	PC	3	1	4	6	75	15	10	35	15	150		
13PH0203	Pharmaceutical Engineering	PC	3	1	4	6	75	15	10	35	15	150		
13PH0204	Computer Applications in Pharmacy*	PEC	3	0	2	4	75	15	10	35	15	150		
13EN0201	Environmental Sciences*	PEC	3	0	0	3	75	15	10	--	--	100		
Total			15	3	14	25	375	75	50	140	60	700		

* Non University Examination (NUE)

Baldania

PRINCIPAL
FACULTY OF PHARMACY
MARAWADI UNIVERSITY
RAJKOT - 360 003.



To,
Principal
Faculty of Pharmacy
Marwadi University
Rajkot, Gujarat, INDIA

11-05-2018

Subject: Regarding approval of the Board of Studies committee members for Faculty of Pharmacy.

Reference: Principal request letter on 10-05-2018

Dear sir,

According to above-stated subject, the following names are selected to constitute the Board of Studies committee for the Department of Pharmacy for the next coming three years.

Sr.	Member type	Name	BoS Designation
1.	Internal member	Dr. Vipul P. Patel	Chairman
2.	Internal member	Dr. Lalji Baldaniya	Member
3.	External member	Dr. B. N. Suhagia	Member
4.	External member	Dr. M. M. Patel	Member
5.	Industrial member	Mr. K. D. Patel	Member

You are requested to intimate each member through proper channels and arrange BoS meeting as per the requirement.



[Handwritten Signature]
Registrar



To,
Provost,
Marwadi University
Rajkot, Gujarat, INDIA

10-05-2018

Subject: Regarding formation of BoS members of Faculty of Pharmacy.

Respected sir,

According to an above-stated subject, herewith I am suggesting a list of members to constitute the Board of Studies (BoS) for the Department of Pharmacy. You are requested to finalize the names of BoS members.

Marwadi University norms to constitute for Board of Studies:

- 1) There shall be a Board of Studies for each department comprising:
 - a. The Head of the Faculty/ Centre/ Department/ School - Chairperson.
 - b. Two teachers of the concerned department or as may be decided by the Academic Council from time to time.
 - c. Two experts of the concerned faculty/ department to be nominated as members by the Provost on the recommendation of the Chairman, Board of Studies from outside the University from academia/ industries.
- 2) The term of members of the Board of Studies shall be three years.
- 3) The Provost can constitute the Board of Studies for the faculties/ departments to be started by the University as and when required.
- 4) A detailed syllabus of the different courses of the department shall be prepared by the Board of Studies and be submitted to the Academic Council for its approval and publication.
- 5) Contents of the syllabi shall be revised and updated by the Board of Studies from time to time and be submitted to the Academic Council for approval.
- 6) The meetings of the Board of Studies shall be arranged at least twice during an academic year.

List of recommended members of Board of Studies:
A. Internal members (Member of academic from Marwadi University)

Sr.	Name	Designation	Contact Details
1.	Dr. Vipul P. Patel (Chairperson)	Principal, Faculty of Pharmacy, Marwadi University	vipul.patel@marwadieducation.edu.in 9637000058
2.	Dr. Lalji Baldaniya (Member)	Associate Professor, Faculty of Pharmacy, Marwadi University	lalji.baldaniya@marwadieducation.edu.in 9979961431


B. External members (Member of academics from other universities)

Sr.	Name	Designation	Contact Details
1.	Dr. B. N. Suhagia (Member)	Dean, Faculty of Pharmacy, Dharmsinh Desai University	bnsuhagia@rediffmail.com 9427000135
2.	Dr. M. M. Patel (Member)	Director, Shree Swaminarayan Sanskar Pharmacy College	drmm Patel@ymail.com 9825041654

C. Industrial members

Sr.	Name	Designation	Contact Details
1.	Mr. K. D. Patel (Industry expert)	Director, BAN Lab (P) Ltd., Rajkot	director@banlab.com 02812433371

Thank you.


 Dr. Vipul P. Patel
Principal,
Faculty of Pharmacy

 According to recommendation received from HOD - [Branch Name], the above members are
Approved/ Partially approved (Tick Marked)/ Rejected by Provost on ___ / ___ /
 _____.

Approval Remarks: _____




 Provost

Copy to:

1. Registrar

Meeting Minutes

MEETING TITLE	1 st Board of studies Meeting
DATE	July 23, 2019
TIME	10:00 AM onwards
LOCATION	3 rd Floor, Board Room (MC301), Main Building, MU

MEETING CONVENED BY:

Dr. Jayesh Parmar
 Principal, Faculty of Physiotherapy, Marwadi University.

MEMBERS OF COMMITTEE:

Present	Dr. Jayesh Parmar (Chairman) Dr. Anjali Bhishe (External expert-1) Dr. Dinesh Sorani (External expert-2) Dr. Ashish Kakkad (External expert-3) Dr. Yagnik dave (Internal expert-1) Dr. Jigisha Chandwani (Internal expert-2)
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AGENDA:

1.	Introduction of subjects and content for First Year B. Physiotherapy.
2.	Application of Exam pattern and Promotion criteria for students.
3.	Application of teaching hours subject wise and its credits with introduction of CO
4.	Course Outcome (CO) and Program Outcome (PO) for all subjects. Any other Changes/Suggestions from members.

MINUTES OF THE MEETING:

Key Discussion points:

- The meeting started with the initial introduction of BoS committee members and brief overview about the introduction of Faculty of Physiotherapy at Marwadi University Rajkot by Dr. Jayesh Parmar.
- Year wise pattern was introduced in B. Physiotherapy as per the Gujarat state Council for Physiotherapy norms after discussion with board members.
- Subjects and credit hours with its subject content for First Year B. Physiotherapy were introduced.

- Exam pattern and Promotion criteria for students were set as per the council norms.
- Before finalization, various Council and University syllabus were reviewed by all members.
- Below mentioned subjects were included for the First Year B. Physiotherapy:
 1. Human Anatomy
 2. Human Physiology
 3. Biochemistry
 4. Psychology
 5. Sociology
 6. Exercise therapy-1 & Soft tissue mobilization
 7. Biomedical Physics
 8. Health care delivery system + professional practice & Ethics (Program Elective)
 9. English*
 10. Computer*
 11. Environmental Studies*
 12. Observational Clinical practice*(* Non-University examination subject)
- CO and PO for each subject were discussed with board members and finalized for First Year B. Physiotherapy. CO attainment was targeted to 50%.
- Any other suggestions/changes which are required by the chairman after that Dr. Dinesh Sorani suggested adding reference books and text books for individual subjects below to content in the syllabus.
- Meeting was ended by vote of thanks by Dr. Jayesh Parmar.



Dr. Jayesh Parmar
Principal
Faculty of Physiotherapy
Marwadi University

Meeting Minutes

MEETING TITLE	2 nd Board of studies Meeting
DATE	September 19, 2020
TIME	9:30 AM onwards
LOCATION	Google Meet

MEETING CONVENED BY:

Dr. Jayesh Parmar
 Principal, Faculty of Physiotherapy, Marwadi University.

MEMBERS OF COMMITTEE:

Present	Dr. Jayesh Parmar (Chairman) Dr. Anjali Bhishe (External expert-1) Dr. Dinesh Sorani (External expert-2) Dr. Ashish Kakkad (External expert-3) Dr. Yagnik dave (Internal expert-1) Dr. Gauravgiri Gosai (Internal expert-2) Dr. Radhika Pande (Internal expert-3)
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AGENDA:

1.	Approval of previous meeting's minutes.
2.	Introduction of subjects and content for Second Year B.Physiotherapy.
3.	Application of Exam pattern and Promotion criteria for students.
4.	Application of teaching hours subject wise and its credits with introduction of CO for all subjects.
5.	Approval of external clinical therapist for the feedback as a field person.
6.	Any other Changes/Suggestions from members.

MINUTES OF THE MEETING:

Key Discussion points:

- Dr Jayesh Parmar started the meeting by welcoming all BoS members and approval was taken from BoS members regarding previous minutes of meeting.
- Action was taken about addition of reference books and textbooks in syllabus for First Year and Second Year B. Physiotherapy.

- For the First and Second year B. Physiotherapy exam pattern was discussed and ideas were given about the Continuous Evaluation throughout the year for Internal Assessment as per University norms.
- All Second Year subjects with credit hours and subject content were explained by the Chairperson to all board members, some changes were introduced in the syllabus pointed out by the chairperson for approval.
- Before finalization, various University and Council syllabus were reviewed by all members.
- Below mentioned subjects were included for the Second Year B. Physiotherapy:
 1. Pathology
 2. Microbiology
 3. Pharmacology
 4. Exercise Therapy 2
 5. Kinesiology
 6. Psychiatry
 7. Electrotherapy
 8. Radiology*
 9. Ear, Nose, and Throat (ENT) *
 10. Ophthalmology*
 11. Ethics & Professional Practice & Allied Therapeutics with Evidence Based Practice (Program Elective)(* Non-University examination subject)
- CO for each subject was discussed with board members and it was finalized for Second Year B. Physiotherapy.
- Some modifications were done in Second year Syllabus prescribed from GSCPT (Based on suggestions from BoS members):
 - 40 extra hours added in kinesiology subjects.
 - Many short forms were elaborated on topics.
 - Microbiology: The practical demonstration part was included.
 - In Pathology, Microbiology and Psychiatry total teaching hours were reduced.
 - Electrotherapy:
 - EMG (Electromyography) & NCV (Nerve conduction velocity) were restricted to outline only.

In SD curve practical: Basics only was kept in second year electrotherapy practice on patients can be done in third year suggested by Dr. Dinesh Sorani.

Based on feedback from Faculty few changes were incorporated in First Year B.Physiotherapy syllabus content:

Biomedical Physics:

Few topics like Shock, Electromagnetic waves were repeated in other subjects so they were removed and kept only in electrotherapy.

- Feedback was taken from students and faculty members regarding the first year syllabus by the chairman and related discussion done in the meeting.
- For the Clinical Therapists as a field person the feedback regarding the syllabus will be taken informed to all Board Members by chairman and for that various names suggested by Dr. Jayesh Parmar after reviewing below mentioned Physiotherapist was finalized by Board Members.

Dr. Chirag Magdani (Clinical Therapist)

Dr. Devangi Vaishnav (Clinical Therapist)

Dr. Harshal Purohit (Clinical Therapist).

- Discussion was done about practical problems in pandemic situations.
- Another point was discussed by the chairman regarding the question wise attainment and evaluation system as per the University norms. CO attainment was achieved which was 50%, it was targeted 52% for next academic year.
- Suggestions from members were that the next meeting can be kept online only as it has many benefits.
- Meeting was ended by vote of thanks by Dr. Jayesh Parmar.



Dr. Jayesh Parmar
Principal
Faculty of Physiotherapy
Marwadi University

Meeting Minutes

MEETING TITLE	3 rd Board of studies Meeting
DATE	April 23, 2021
TIME	3:00 PM onwards
LOCATION	Google Meet

MEETING CONVENED BY:

Dr. Jayesh Parmar
Principal, Faculty of Physiotherapy, Marwadi University.

MEMBERS OF COMMITTEE:

Present	Dr. Jayesh Parmar (Chairman) Mr. Naresh Jadeja (Registrar) Dr. Anjali Bhishe (External expert-1) Dr. Dinesh Sorani (External expert-2) Dr. Ashish Kakkad (Internal expert-1) Dr. Yagnik dave (Internal expert-2) Dr. Gauravgiri Gosai (Internal expert-3) Dr. Radhika Pande (Internal expert-4) Dr. Rahul Chhatlani (Internal expert-5)
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AGENDA:

1.	Review and approval of Previous Minutes of Meeting and feedback.
2.	Introduction of subjects and content for Third Year B. Physiotherapy.
3.	Application of Exam pattern and Promotion criteria for students.
4.	Application of teaching hours subject wise and its credits with introduction of CO for all subjects.
5	Modifications in First Year and Second Year B. Physiotherapy Syllabus.
6.	Any other Changes/Suggestions from members.
	Application of Coursera courses as a value added courses.

MINUTES OF THE MEETING:

Key Discussion points:

- Dr. Jayesh Parmar started meeting and approval was taken from all BoS members regarding previous Minutes of Meeting and discussed action taken on suggestions by members.
- Dr. Ashish Kakkad presented a draft of the syllabus of Third Year B. Physiotherapy and an overview was given about the First Year and second Year Syllabus.

- Below mentioned subjects were included for the Third Year B. Physiotherapy:
 1. General Medicine
 2. Neurology
 3. Pediatrics
 4. Surgery
 5. Obstetrics And Gynecology
 6. Physical & Functional Diagnosis
 7. Orthopedics
 8. Preventive Healthcare and Community Medicine
 9. Professional Practice & Ethics* (Program Elective)
(* Non-University examination subject)
- CO for each subject were discussed with board members.
- In First Year B. Physiotherapy Syllabus few changes were done based on Faculty feedback:

Application of resistance to develop endurance and power, SET system removed as they were included in strengthening & repeated from exercise therapy-1, another topic was added Posture outline as it is important in First Year to understand.

In Biomedical Physics few topics were removed as it was not important to understand as a Physiotherapist e.g, determination of velocity of sound in air, the vibration of the string, enthalpy, entropy etc.
- In Second Year B. Physiotherapy Syllabus few changes were done:

In Microbiology subject, in Bacteriology, Syphilis and in Mycology, Scabies were removed, but as per the current demand in Virology component Corona included as Physiotherapy perspective it is important and the role of Physiotherapy in COVID-19 is also there.

Few reference books were added in Microbiology: Essential of Medical Microbiology by Rajesh Bhatia and Essential of Medical Microbiology by Apurba Sankar as suggestions were from respective microbiology Faculty.

In Exercise therapy 2 Passive Movement was removed as it was already there in First year Exercise therapy – 1 subject. Traction was added as a separate topic as it was in the stretching component. Continuous Passive Motion topic only kept in electrotherapy was removed from exercise therapy -2 as it was common in both the subjects.

Few reference books for kinesiology and exercise therapy -2 were added as suggested by Dr. Yagnik Dave.

In Psychiatry subject importance of Physiotherapy in Psychiatric conditions (overview) was added as suggested by Dr. Rahul Chhatlani.

- Feedback was taken from students and faculty members regarding first year and second year syllabus by chairman and related discussion was done in the meeting.
- Discussion was done about practical in pandemic situations and it was decided to post a few videos to students.
- Another point was discussed by the chairman regarding the question wise attainment and evaluation system as per the University Norms.
- Some additional books were suggested by board members for reference in various subjects e.g., Laxminarayan, Susan Adler, Jagmohan Singh etc for various topics.
- Relevance regarding subjects was discussed with board members by Dr. Ashish Kakkad.
- For Coursera courses discussion was done by the chairman and by members below mentioned courses were finalized for implementation in the second year B. Physiotherapy.
 1. The Addicted Brain
 2. Positive Psychiatry and Mental Health
- Along with suggestions by the chairman that the feedback of First, Second and Third Year will be taken from field personnel from Dr. Chirag Magdani (Clinical Therapist), Dr. Devangi Vaishnav (Clinical Therapist) and Dr. Harshal Purohit (Clinical Therapist) as well as from students and faculty members and the received suggestions will be discussed in next meeting.
- Another suggestion given by the Chairman was to think on implementing the OSPE (Objective structured practical examination) method for practical examination.
- Meeting was ended by vote of thanks by Dr. Jayesh Parmar.



Dr. Jayesh Parmar
Principal
Faculty of Physiotherapy
Marwadi University

Meeting Minutes

MEETING TITLE	4 th Board of studies Meeting
DATE	January, 11 2022
TIME	4:30 PM onwards
LOCATION	Google Meet

MEETING CONVENED BY:

Dr. Jayesh Parmar
Principal, Faculty of Physiotherapy, Marwadi University.

MEMBERS OF COMMITTEE:

Present	Dr. Jayesh Parmar (Chairman) Mr. Naresh Jadeja (Registrar) Dr. Anjali Bhishe (External expert-1) Dr. Dinesh Sorani (External expert-2) Dr. Ashish Kakkad (Internal expert-1) Dr. Yagnik dave (Internal expert-2) Dr. Gauravgiri Gosai (Internal expert-3) Dr. Radhika Pande (Internal expert-4) Dr. Rahul Chhatlani (Internal expert-5)
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AGENDA:

1.	Approval of previous Minutes of Meeting and discussion regarding feedback.
2.	To introduce open elective course in B. Physiotherapy
3.	Course syllabus Guideline presentation
4.	Other courses offered by the University for FoPT students.
5.	Addition of topic in Psychiatry Subject Second Year B.Physiotherapy.
6.	Revision of promotional criteria.
7.	Implementation of the Relative grading system.
7.	Any other Changes/Suggestions from members.

MINUTES OF THE MEETING:

Key Discussion points:

- Dr. Jayesh Parmar started meeting and discussion was done according to the feedback of students, faculty members and from field person who are working as a clinical therapist. After reviewing feedback by chairman from students, faculty members and field personnel the syllabus and modification were finalized and

approval was taken from all BoS members regarding previous minutes of meeting.

- Dr. Ashish Kakkad presented a draft syllabus of open elective subjects and overview given about topics which were included in the syllabus and it will be offered to other department students of Marwadi University according to the new education Policy.
- Below mentioned subjects were included for the Open elective from Faculty of Physiotherapy for other department students:
 1. Basic Concept of Fitness and Health promotion
 2. Ergonomic and occupational Health
- Teaching hours and credit and exam pattern of both open elective subjects were discussed with board members by chairman.
- Feedback will be taken from students and faculty members regarding open elective subject syllabus by chairman and related discussion done in meeting.
- Along with suggestions by the chairman that the feedback of open elective subjects will be taken from field personnel, probably either from Dr. Chirag Magdani (Clinical Therapist), Dr. Devangi Vaishnav (Clinical Therapist) and Dr. Harshal Purophit (Clinical Therapist).
- In Psychiatry subject addition of topic “Addiction” suggested by Dr. Rahul Chhatlani and it was approved by members.
- Application of the relative grading system was discussed with members and approval was taken from all the members for the implementation from next academic year.
- Revision made in promotional criteria for students and it was approved by all members.
- CO attainment target of 52% was achieved and it was set to 54% for next academic year.
- Additionally Chairman introduced innovative methodology in teaching learning implemented to FoPT students such as Sports and Yoga course.
- Meeting was ended by vote of thanks by Dr. Jayesh parmar.



Dr. Jayesh Parmar
Principal
Faculty of Physiotherapy
Marwadi University

**Minutes of Meeting
Board of Studies (2017-18)
Department of Microbiology**

Board of studies held on 25th April 2017 for approval of B.Sc. and M.Sc. Microbiology course syllabus to be implemented from coming academic term in Marwadi University

➤ Minutes of Meeting

- Meeting initiated at 2:30 PM by **Dr. Gaurav Sanghvi** (chairperson) and **Dr. Jyotindra Prajapati** (Principal, Faculty of Science, Marwadi University) in presence of external committee members: **Dr. Satya. P. Singh** (Head of Bioscience Department, Saurashtra University, Rajkot), **Dr. Neepa Pandhi** (Head of Microbiology Department, Shree M & N Virani Science College, Rajkot), **Dr. Mehul Jivrajani** (Scientist, Beckman Coulter Diagnostics, Bangalore) and internal committee members of Microbiology Department (Marwadi University, Rajkot) : **Dr. Mahendrapalsingh Rajput** and **Dr. Krishna Joshi**.

Following are the suggestions by BoS members and changes incorporated in B.Sc. and M.Sc. Microbiology syllabus.

Suggestions by external BoS members	Changes made in the syllabus
<p>Prof. S. P. Singh</p> <p>1. Shuffling of the subjects in B.Sc. syllabus.</p> <p>2. Revision of the physics subject.</p> <p>3. Shuffling and addition of the subjects in M.Sc. syllabus.</p>	<p>1. Following subjects were shuffled in microbiology syllabus as per external and industrial expert recommendation. Subjects were shuffled for channelizing the content for better understanding of the students. Also student feedback and faculty feedback were also considered for the content revision.</p> <p>New courses introduced (annexure 1) and courses having relevance in employability and skill development are highlighted in annexure 1.</p> <p>Bacterial systematics subject revised and shuffled from semester 2 to semester 4</p> <p>2. Physics I and Physics II subjects were revised as per the faculty feedback and external expert suggestion.</p> <p>3. Following subject were shuffled in M.Sc. syllabus Environment Biotechnology subject was revised and added at the place of Environmental Microbiology subject. New courses introduced (annexure 2) and</p>

**Minutes of Meeting
Board of Studies (2017-18)
Department of Microbiology**

	courses having relevance in employability and skill development are highlighted in annexure 2.
Prof. Neepa Pandhi 1. Addition of language subjects and its electives. 2. Credit system incorporation for industrial visits. 3. As per UGC norms Environmental studies subject needs to be added in B.Sc. Microbiology. 4. Course attainment needs to be looked for implementation of outcome based education.	1. Electives in the English subject were introduced. Electives included are Reading and writing of science, speaking and presentation skills, English through movies, English through fiction were added as per recommendation of subject experts. 2. Industrial visit will be considered for the internal assessment component 3. Environmental Studies subject added in the B.Sc. semester 3 Microbiology. 4. Course attainment will be calculated for B.Sc. and M.Sc. Microbiology students. 50% attainment will be set as initial attainment level for bachelors and Masters students.
Dr. Mehul Jivrajani 1. Weightage on the attendance, industrial visit, and seminar needs to be incorporated.	1. Attendance, industrial visit and seminar component is added as part of internal gradation system of students.

Approval of the syllabus of B.Sc. and M.Sc. Microbiology as per the suggestions of BoS Members

Sr. No	Committee Member's	Affiliation	Signature
1	Dr. Gaurav Sanghvi Chairperson	Assistant Professor, Department of Microbiology, Marwadi University, Rajkot. Email id: gaurav.sanghvi@marwadieducation.edu.in	
2	Prof. S. P. Singh External Member	Professor and Head, Department of Biosciences, Saurashtra University, Rajkot (Gujarat) Email: satyapsingh@yahoo.com	
3	Dr. Neepa Pandhi External Member	Professor and Head Department of Microbiology Shree M & N Virani Science College, Rajkot. Email: neepa.pandhi@gmail.com	 25/04/17
4	Dr. Mehul Jivrajani External Member	Junior Scientist, Beckman Coulter Diagnostics, Bangalore. Email: mehjiv@gmail.com	
5	Dr. Jyotindra Prajapati Internal member	Principal, Faculty of Science Marwadi University, Rajkot. Email: jyotindra.prajapati@marwadieducation.edu.in	



Marwadi
University

Minutes of Meeting
Board of Studies (2017-18)
Department of Microbiology

6	Dr. Jenishkumar Patel Invited member	Head, Department of Physics Marwadi University, Rajkot. Email:jenishkumar.patel@marwadieducation.edu.in	<i>J. Patel</i>
7	Dr. Ujwalkumar Trivedi Internal Member	Head, Department of Biotechnology, Marwadi University, Rajkot. Email id: ujwalkumar.trivedi@marwadieducation.edu.in	<i>Ujwalkumar Trivedi</i>
8	Dr. Krishna Joshi Internal Member	Assistant Professor, Department of Microbiology, Marwadi University, Rajkot. Email id: krishnak.joshi@marwadieducation.edu.in	<i>K. Joshi</i>
9	Dr. Mahendrapalsingh Rajput Internal Member	Assistant Professor, Department of Microbiology, Marwadi University, Rajkot. Mob.: +91-9824821768 Email id: mahendrapalsingh.rajput@marwadieducation.edu.in	<i>M. Rajput</i>

Annexure 1

Sr. No	Course name	Course code	semester	Year of introduction
1	Reading and writing for science	02SL0102	I	2017-18
2	Speaking and presentation skills	02SL0103	I	2017-18
3	English-through-Fiction	02SL0152	II	2017-18
4	English-through-Movies	02SL0153	II	2017-18
5	Cell Biology	02MB0201	III	2017-18
6	Microbial Physiology	02MB0202	III	2017-18
7	Chemistry-III	02CY0201	III	2017-18
8	Carrier Readiness program (CRP)	01CR0301	III	2017-18
9	English through non-fiction (ETNF)	02SL0201	III	2017-18
10	Microbial Biochemistry	02MB0251	IV	2017-18
11	Environmental Microbiology	02MB0252	IV	2017-18
12	Chemistry-IV	02CY0251	IV	2017-18
13	Carrier Readiness program (CRP)	02CR0401	IV	2017-18
14	English for workplace	02SL0251	IV	2017-18

*The highlighted subjects are relevance in employability and skill development

Annexure 2

Sr. No	Course name	Course code	Year of introduction
1.	Microbial Diversity and Molecular Phylogenetics	02MB1452	2017-18
2.	Bioprocess Technology	02MB0501	2017-18
3.	Immunology and Immunotechnology	02MB0502	2017-18
4.	Microbial Metabolism	02MB0503	2017-18
5.	Pharmaceutical Microbiology	02MB0504	2017-18
6.	Cell structure and organisation	02MB1402	2017-18
7.	Biomolecular engineering	02MB0551	2017-18
8.	Dissertation Project	02MB0552	2017-18

*The highlighted subjects are relevance in employability and skill development

Board of studies held on 4th April 2018 for approval of B.Sc. and M.Sc. Microbiology course syllabus to be implemented from coming academic term in Marwadi University

➤ **Minutes of Meeting**

- Meeting initiated at 2:30 PM by **Dr. Gaurav Sanghvi** (chairperson) and **Dr. Vaibhav Mehta** (Principal, Faculty of Science, Marwadi University) in presence of external committee members: **Dr. Satya. P. Singh** (Head of Bioscience Department, Saurashtra University, Rajkot), **Dr. Neepa Pandhi** (Head of Microbiology Department, Shree M & N Virani Science College, Rajkot), **Dr. Mehul Jivrajani** (Scientist, Beckman Coulter Diagnostics, Bangalore) and internal committee members of Microbiology Department (Marwadi University, Rajkot) : **Dr. Mahendrapalsingh Rajput** and **Dr. Krishna Joshi**.

Following are the suggestions by BoS members and changes incorporated in B.Sc. and M.Sc. Microbiology syllabus.

Suggestions by external BoS members	Changes made in the syllabus
Prof. S. P. Singh 1. Syllabus revision. 2. Course attainment analysis and recommendation.	1. Syllabus Microbial physiology and bacterial systematics is revised as per recommendation of subject expert. 2. Set course attainment level for the year 17-18 (50%) was attained. As per the recommendation of subject and industrial expert, the course attainment for bachelors and masters course is set to be 52%.
Prof. Neepa Pandhi 1. New courses offered 2. For Bachelors students, the expert talks can be arranged matching the topics of the subject. For Masters subject, the expert talks and involvement of the students in the conference should be motivated.	1. New courses introduced (annexure 1) and courses having relevance in employability and skill development are highlighted in annexure 1. 2. For Bachelors student's expert talk will be arranged and for Masters student the students will be motivated for participation in conferences.
Dr. Mehul Jivrajani 1. Weightage on participation in conference should be given to the students attending the conference. 2. Value added courses relevant for student overall development needs to be incorporated.	1. Conference and seminar participation is considered as part of internal gradation system of students. 2. Non credit value added course named Mental toughness programme and other online courses is introduced.

Approval of the syllabus of B.Sc. and M.Sc. Microbiology as per the suggestions of BoS Members

Sr. No	Committee Member's	Affiliation	Signature
1	Dr. Gaurav Sanghvi Chairperson	Assistant Professor, Department of Microbiology, Marwadi University, Rajkot. Email id: gaurav.sanghvi@marwadieducation.edu.in	



Minutes of Meeting
Board of Studies (2018-19)
Department of Microbiology

2	Prof. S. P. Singh External Member	Professor and Head, Department of Biosciences, Saurashtra University, Rajkot (Gujarat) Email: satyapsingh@yahoo.com	
3	Dr. Neepa Pandhi External Member	Professor and Head Department of Microbiology Shree M & N Virani Science College, Rajkot. Email: neepa.pandhi@gmail.com	
4	Dr. Mehul Jivrajani External Member	Junior Scientist, Beckman Coulter Diagnostics, Bangalore. Email: mehjiv@gmail.com	
5	Dr. Vaibhav Mehta Internal member	Principal, Faculty of Science Marwadi Education Foundation, Rajkot. Email: vaibhav.mehta@marwadieducation.edu.in	
6	Dr. Ujwalkumar Trivedi Internal Member	Head, Department of Biotechnology, Marwadi University, Rajkot. Email id: ujwalkumar.trivedi@marwadieducation.edu.in	
7	Dr. Krishna Joshi Internal Member	Assistant Professor, Department of Microbiology, Marwadi University, Rajkot. Email id: krishnak.joshi@marwadieducation.edu.in	
7	Dr. Mahendrapalsingh Rajput Internal Member	Assistant Professor, Department of Microbiology, Marwadi University, Rajkot. Mob.: +91-9824821768 Email id: mahendrapalsingh.rajput@marwadieducation.edu.in	

Annexure 1

Sr. No	Course name	Course code	Year of introduction
1	Environmental studies	02ES0201	2018-19
2	Bioinformatics & Biostatistics	02MB0301	2018-19
3	Molecular Biology & Genetics	02MB0302	2018-19
4	Biochemical Techniques & Instrumentation	02MB0303	2018-19
5	Microbial Biotechnology	02MB0304	2018-19
6	Fermentation Technology	02MB0351	2018-19
7	Basics of Immunology	02MB0352	2018-19
8	Applied Microbiology	02MB0353	2018-19
9	Dissertation Project	02MB0354	2018-19

*The highlighted subjects are relevance in employability and skill development



Minutes of Meeting
Board of Studies (2019-20)
Department of Microbiology

Board of Studies held on 25th May 2019 for approval of B.Sc. and M.Sc. Microbiology course syllabus to be implemented from coming academic term in Marwadi University

Minutes of Meeting

- Meeting initiated at 11:00 PM by **Dr. Gaurav Sanghvi**(chairperson), **Dr. Ujwalkumar Trivedi** (Head of the Department of Biotechnology) and **Dr. Vaibhav Mehta** (Principal, Faculty of Science, Marwadi University) in presence of external committee members: **Dr. Satya. P. Singh** (Head of Bioscience Department, Saurashtra University, Rajkot), **Dr. Neepa Pandhi** (Head of Microbiology Department, Shree M & N Virani Science College, Rajkot), **Dr. Mehul Jivrajani** (Scientist, Beckman Coulter Diagnostics, Bangalore) and internal committee members of Microbiology Department (Marwadi University, Rajkot) : **Dr. Mahendrapalsingh Rajput** and **Dr. Krishna Joshi**.

Following are the suggestions by BoS members and changes incorporated in M.Sc. Biotechnology syllabus.

Suggestions by external BoS members	Changes made in the syllabus
<p>Prof. S. P. Singh</p> <ol style="list-style-type: none"> 1. Removal of Physics subject and addition of Botany and Zoology subject in B.Sc. 2. Addition of the English subject in M.Sc. 3. Addition of more <i>In silico</i> tools in practical to design cloning. 4. Addition of Seminar subject. 	<ol style="list-style-type: none"> 1. Fundamental Biology-I and II added in B.Sc. semester 1 and 2 respectively as per recommendation from external expert. The subjects introduced have relevance in employability and skill development. 2. Added Paper effective communication skills in semester 1 and semester 3. The introduced subject has relevance in employability and skill development (Annexure 1). 3. Added appropriate Bioinformatics practicals in Biostatistics and bioinformatics paper. 4. Added seminar in M.Sc. semester 3.
<p>Prof. Neepa Pandhi</p> <ol style="list-style-type: none"> 1. Addition of Elective papers in Semester M.Sc. 2. Addition of credit for seminar and Industrial visit. 3. As first batch is added the bachelor's degree, it is recommended to add the alumni feedback for the curriculum enrichment. 4. Course attainment analysis and recommendation. 	<ol style="list-style-type: none"> 1. Food and dairy Microbiology and Pharmaceutical microbiology subjects added as electives in semester along with three core papers. The introduced subject has relevance in employability and skill development (Annexure 1). 2. Seminar subject added in the M.Sc. semester 3. 3. Alumni feedback will be taken for the curriculum related changes. Already for Masters the food microbiology subject in M.Sc. semester 3 is added as elective.



Minutes of Meeting
Board of Studies (2019-20)
Department of Microbiology

	4. Set course attainment level for the year 18-19 (52%) was attained. As per the recommendation of subject and industrial expert, the course attainment for bachelors and masters course is set to be 54%.
Dr. Mehul Jivrajani 1. Addition of paper medical Microbiology. 2. Value added courses relevant for overall development in M.Sc. programme need to be incorporated as already implemented in B.Sc. programme.	1. Added of paper Medical Microbiology in semester VI. 2. Non credit value added course named Mental toughness programme and other online courses is introduced.

Approval of the syllabus of B.Sc. and M.Sc. Microbiology as per the suggestions of BoS Members

Sr. No	Committee Member's	Affiliation	Signature
1	Dr. Gaurav Sanghvi Chairperson	Assistant Professor, Department of Microbiology, Marwadi University, Rajkot. Email id: gaurav.sanghvi@marwadieducation.edu.in	
2	Prof. S. P. Singh External Member	Professor and Head, Department of Biosciences, Saurashtra University, Rajkot (Gujarat) Email: satyapsingh@yahoo.com	
3	Dr. Neepa Pandhi External Member	Professor and Head Department of Microbiology Shree M & N Virani Science College, Rajkot. Email: neepa.pandhi@gmail.com	
4	Dr. Mehul Jivrajani External Member	Junior Scientist, Beckman Coulter Diagnostics, Bangalore. Email: mehjiv@gmail.com	
5	Dr. Vaibhav Mehta Internal member	Principal, Faculty of Science Marwadi Education Foundation, Rajkot. Email: vaibhav.mehta@marwadieducation.edu.in	
6	Dr. Ujwalkumar Trivedi Internal Member	Head, Department of Biotechnology, Marwadi University, Rajkot. Email id: ujwalkumar.trivedi@marwadieducation.edu.in	
7	Dr. Krishna Joshi Internal Member	Assistant Professor, Department of Microbiology, Marwadi University, Rajkot. Email id: krishnak.joshi@marwadieducation.edu.in	
7	Dr. Mahendrapalsingh Rajput Internal Member	Assistant Professor, Department of Microbiology, Marwadi University, Rajkot. Mob.: +91-9824821768 Email id: mahendrapalsingh.rajput@marwadieducation.edu.in	



Annexure 1

Sr. No	Course name	Course code	semester	Year of introduction
1.	Effective Communication Skills - I	02SL0103	I	2019-20
2.	Seminar-1	02MB0455	I	2019-20
3.	Food and Dairy Microbiology	02MB051	III	2019-20
4.	Effective Communication Skills - II	02SL0501	III	2020-21

* The highlighted subjects are relevance in employability and skill development

Minutes of Meeting
B.O.S. for Department of Microbiology

Date: 29/06/2021		Meeting No: 03																			
Start Time: 11.30 AM		End Time: 12:30noon																			
Presented by		Dr. Gaurav Sanghvi																			
Agenda – 1		UG syllabus review																			
Resolution	<ul style="list-style-type: none"> NCC – 2 credit course is introduced in the first and second semester of B. Sc. Microbiology. Along with this, Value Education (2 credits) and Professional Ethics (2 credits) having relevance in skill development is introduced in the first and second semester respectively. 																				
Agenda – 2		Introduction of enzymology syllabus in microbiology (M.Sc.)																			
Resolution	<ul style="list-style-type: none"> Enzymology subject was added as per suggestion of industrial expert and also its relevance in life science skill development and employability. 																				
Agenda – 3		Biomolecular engineering subject deletion (M.Sc. Microbiology semester 4)																			
Resolution	<ul style="list-style-type: none"> Biomolecular engineering subject will be omitted from M.Sc. microbiology 																				
Agenda – 4		Shuffling of subjects in M.Sc. Microbiology.																			
Resolution	<ul style="list-style-type: none"> Following subjects are shuffled in the syllabus as per the recommendation of experts. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 40%;">Subject</th> <th style="width: 20%;">Current course</th> <th style="width: 40%;">New course (w.e.f 2021-2022)</th> </tr> </thead> <tbody> <tr> <td>Biostat and Bioinfo</td> <td>semester 1</td> <td>semester 2</td> </tr> <tr> <td>Immunology</td> <td>Semester 3</td> <td>Semester 2</td> </tr> <tr> <td>Microbial diversity and molecular phylogenetic</td> <td>Semester 2</td> <td>Semester 1</td> </tr> <tr> <td>Environmental Biotechnology</td> <td>Semester 2</td> <td>Semester 3</td> </tr> <tr> <td>Pharmaceutical Microbiology</td> <td>Semester 4</td> <td>Mandatory instead of elective</td> </tr> </tbody> </table>			Subject	Current course	New course (w.e.f 2021-2022)	Biostat and Bioinfo	semester 1	semester 2	Immunology	Semester 3	Semester 2	Microbial diversity and molecular phylogenetic	Semester 2	Semester 1	Environmental Biotechnology	Semester 2	Semester 3	Pharmaceutical Microbiology	Semester 4	Mandatory instead of elective
Subject	Current course	New course (w.e.f 2021-2022)																			
Biostat and Bioinfo	semester 1	semester 2																			
Immunology	Semester 3	Semester 2																			
Microbial diversity and molecular phylogenetic	Semester 2	Semester 1																			
Environmental Biotechnology	Semester 2	Semester 3																			
Pharmaceutical Microbiology	Semester 4	Mandatory instead of elective																			
Note: Meeting was scheduled virtually on Google Meet.																					
Meeting Attended By: External Experts		Meeting Attended By: Marwadi University																			
1. Dr. Satya P Singh 2. Dr. Neepa Pandhi 3. Dr. Mehul Jivrajani 4. Dr. Nishith Vachhani		1. Dr. Gaurav Sanghvi 2. Dr. Ujwalkumar Trivedi 3. Dr. Mahendrapalsingh Rajput 4. Ms. Jasmita Chauhan																			