

## 1.1.2 Percentage of Programmes where the syllabus revision was carried out during the last five years

The percentage of program revision was calculated for an entire duration of the last five years (2017-18 to 2021-22).

Number of courses having 20% syllabus content revision in the last five years and number of new courses introduced during the same period were taken into taken in consideration for the calculation of program revision by the following formula;

Overall % change in the program = 

(Number of courses with change of the syllabus in the last five years + Number of new courses introduced in the last five years)

Total number of courses offered in the last five years

Registrar Marwadi University WANNAMA WASHINGTON

Provost Marwadi University



Program Name	Program Code	Course name	Semeste	er Course code	Year of Introduction	Year o Revisio	. or courtage	No. of Rev & New Course	
B.Tech Mechanical Engineering	01ME	Basics of Environmental Studies	1	01EN1101	2016-17	2021-2	2 21%	13	
B.Tech Mechanical Engineering	01ME	Elements of Civil Engineering	g 1	01CI1101	2016-17			-	
D. Tark March	01ME	Elements of Mechanical				2021-2	2 20%		
B. Tech Mechanical Engineering		Engineering	1	01ME1101	2016-17	2021-2	2 22%		
B.Tech Mechanical Engineering B.Tech Mechanical Engineering		Physics	1	01GS2101	2016-17	2021-2	2 30%	-	
B.Tech Mechanical Engineering		Engineering Graphics	2	01ME1102	2016-17	2021-22		1	
b. rech Mechanical Engineering	01ME	Mechanical Workshop	2	01ME1104	2016-17	2021-22		1	
B.Tech Mechanical Engineering	01ME	Basic Electrical and Electroni Engineering	ics 2	01EE1101	2016-17	2021-22			
B.Tech Mechanical Engineering	01ME	Matrix Algebra and Vector Space	2	01MA1151	2016-17	2018-19	50%		
B.Tech Mechanical Engineering		Differential And Integral Calculus	2	01MA1101	2018-19	2021-22	50%		
B.Tech Mechanical Engineering	01ME	Fluid Mechanics	3	01ME1301	2017-18	2018-19	40%		
B. Tech Mechanical Engineering	01ME	Kinematics of Machines	3	01ME2302	2017-18	2021-22			
3.Tech Mechanical Engineering	01ME	Material Science and							1
Took Machaninal Facility		Metallurgy	4	01ME1403	2017-18	2018-19	23%		
B.Tech Mechanical Engineering	01ME	Data Mining	7	01ME1722	2019-20	2020-21	100%		
3.Tech Mechanical Engineering	01ME	Computer Programming	1	01CE0101	2018-19	-	100%	54	-
3.Tech Mechanical Engineering	01ME	Reading & Writing for Technology	1	01SL0102	2017-18	-	100%	54	
3.Tech Mechanical Engineering	01ME	Speaking & Presentation Skills	s 1	01SL0103	2017-18	-	100%		
Tech Mechanical Engineering	01ME	Value Education	1	01CR0102	2018-19	-			
Tech Mechanical Engineering	01ME	NCC	1	01AU0101	2018-19	+=	100%		
Tech Mechanical Engineering	01ME	Career Readiness Program	3	01CR0301	2021-22	+=	100%		
.Tech Mechanical Engineering	01ME	Applied differential equations		01MA0301	2018-19	+-			
Tech Mechanical Engineering	01ME	Mechanics of Solid	3	01Cl0301	2017-18		100%		
.Tech Mechanical Engineering	01ME	Fundamental of machine design		01ME0305	2019-20	_	100%		
Tech Mechanical Engineering	01ME	Manufacturing Process - I	3	011451200			100%		
Tech Mechanical Engineering	01ME	Professional Ethics	3	01ME1303	2017-18	-	100%		
Tech Mechanical Engineering	01ME	Design Thinking and Problem	3	01CR0302 01ME0304	2018-19	-	100%		
Tech Mechanical Engineering	01145	Solving Skills		0110160304	2018-19	-	100%		
Tech Mechanical Engineering	01ME	Numerical Analysis	4	01MA0271	2017-18	-	100%		
The state of the s	01ME	Manufacturing Processes II  Machine Design & Industrial	4	01ME1402	2017-18	_	100%		
Tech Mechanical Engineering	01ME	Drafting	4	01ME1401	2017-18	-	100%		
Tech Mechanical Engineering	01ME	Engineering Thermodynamics	4	01ME0404	2017-18	-	100%		
Tech Mechanical Engineering	01ME	Human Centric Design Approach	4	01ME0405	2018-19	_	100%		
Tech Mechanical Engineering	01ME	Dynamics of Machine-I	5	01ME0501	2018-19				
Tech Mechanical Engineering	01ME	Fluid Power Engineering	5	01ME0502	2018-19	_	100%		
Tech Mechanical Engineering	01ME	Machine Design-1	5	01ME0503	2018-19	_	100%		1
Tech Mechanical Engineering	01ME	Metrology	5	01ME0504	2018-19	_	100%		
Tech Mechanical Engineering	01ME	Business Benchmark	5	01CR0501	2018-19	-	100%		
Tech Mechanical Engineering	01ME	Reverse Engineering	5	01ME0508	2018-19	_	100%		
ech Mechanical Engineering ech Mechanical Engineering	01ME	Power Plant Engineering	5	01ME0505	2018-19	_	100%		
ech Mechanical Engineering	01ME	Design for Manufacturing	5	01ME0507	2018-19	-	100%		
ech Mechanical Engineering	01ME	Computer Graphics	5	01ME0506	2018-19	_	100%		
ech Mechanical Engineering	01ME 01ME	Dynamics of Machine –II	6	01ME0601	2018-19	-	100%		
ech Mechanical Engineering	01ME	Heat and Mass Transfer	6	01ME0602	2018-19	_	100%		
ech Mechanical Engineering		Machine Design-II	6	01ME0603	2018-19	_	100%		
- Chighteening		Operation Research Design Engineering & Project	6	01ME0604	2018-19	-	100%		1
ech Mechanical Engineering	01ME	Management	6	01ME0610	2018-19	-	100%		
ech Mechanical Engineering		IC Engines & Automobiles Design of Material Handling	6	01ME0605	2018-19	-	100%		
ech Mechanical Engineering	OTIME	Equipments Advance Manufacturing	6	01ME0606	2018-19	-	100%		
ech Mechanical Engineering	OTIVIE	processes	6	01ME0607	2018-19	-	100%		
ech Mechanical Engineering		Finite Elements Method	7	01ME0701	2019-20	-	100%		
ech Mechanical Engineering		Project-1	7	01ME0702	2019-20	-	100%		
ech Mechanical Engineering		Rapid Casting :I	7	01ME0703	2019-20	_	100%		
con Mechanical Engineering		Advanced Machine Design Computer Aided Process	7	01ME0711	2019-20	-	100%		
ech Mechanical Engineering	OIME	Management	7	01ME0721	2019-20	-	100%		
ech Mechanical Engineering		Ref. & Air conditioning Pneumatic and Hydraulic	7	01ME0731	2019-20	_	100%		
ch Mechanical Engineering		control	7	01ME0741	2019-20	-	100%		
ch Mechanical Engineering		Renewable Energy Engineering	7	01ME0732	2019-20	-	100%		
ch Mechanical Engineering ch Mechanical Engineering		Sensorics		01ME0742	2019-20	-	100%		
ch Mechanical Engineering		Production Technology		01ME0801	2019-20	-	100%		
ch Mechanical Engineering		Project-II		01ME1802	2019-20	-	100%		
ch Mechanical Engineering		Rapid Casting :II		01ME0803	2019-20	-	100%		
ch Mechanical Engineering		Design of Pressure vessels		01ME0811	2019-20	-	100%		
ch Mechanical Engineering		Machine Tool Design		01ME0812	2019-20	-	100%		
ch Mechanical Engineering		Computer Integrated Mfg.		D1ME0821	2019-20	-	100%		
ch Mechanical Engineering		OT for Manufacturing		01ME0822	2019-20	_	100%		
th Mechanical Engineering		team and Gas Turbine omputational Fluid Dynamics		01ME0831	2019-20	-	100%		
th Mechanical Engineering		obotics & FMS		01ME0832	2019-20	_	100%		
h Mechanical Engineering		rtificial Intelligence		01ME0841 01ME0842	2019-20	-	100%		
			3 10	2.010042	2019-20	-	100%		
			AND DESCRIPTION OF THE PARTY OF						



% of Program Revision 97.10%



			UII	iver	SILY		
		Program Revision calculation	1-			T	T
		B.Tech Mech					
		No. of revised courses  No. of new courses	13				
		Total number of courses in	54				
		the program	69				
		Overall % change in the	97.10%				
		program	57.12070				
	01CI	Reading and Writing	_				
B.Tech Civil Engineering		Technology	1	01SL0101	2016-17	2017-18	50%
B.Tech Civil Engineering B.Tech Civil Engineering	01CI 01CI	Elements of Civil Engineering	1	01Cl1101	2016-17	2021-22	22%
or con civil Engineering		Engineering Physics Basics of Enviornemental	1	01GS2101	2016-17	2021-22	43%
B.Tech Civil Engineering	01CI	Studies	1	01EN1101	2016-17	2021-22	20%
D. Tark Civil Service	01CI	Matrix Algebra and Vector					
B.Tech Civil Engineering B.Tech Civil Engineering	01CI	Space	2	01MA0103	2016-17	2021-22	25%
or con civil chighreening		Engineering Graphics Basics of Electrical and	2	01ME1102	2016-17	2021-22	20%
B.Tech Civil Engineering	01CI	Electronics Engineering	2	01EE1101	2016-17	2021-22	32%
B.Tech Civil Engineering	01Cl	Professional Ethics	4	01CR0401	2017-18	2018-19	60%
B.Tech Civil Engineering	010	Advanced Surveying &	4	01Cl1404			
b. recti civii Etigilleeting		Geomatics Basics of Geology &	-	0101404	2017-18	2018-19	30%
B.Tech Civil Engineering	01Cl	Geotechnical Engineering	4	01Cl1403	2017-18	2019-20	25%
	01CI	Speaking and Presentation					
B.Tech Civil Engineering B.Tech Civil Engineering		Skills	1	01SL0103	2017-18	-	100%
B.Tech Civil Engineering	01Cl	Value Education Indian Constitution	1	01CR0103	2018-19	_	100%
3.Tech Civil Engineering	01Cl	Engineering Mathematics-III	1	01GS0103	2021-22	-	100%
3.Tech Civil Engineering	01Cl	Mechanics of Solids	3	01MA0201	2017-18	-	100%
3.Tech Civil Engineering	01Cl	Building Planning & Drawing	3	01Cl0301 01Cl0302	2017-18	-	100%
3.Tech Civil Engineering	01Cl	Surveying	3	01010302	2017-18	-	100%
3.Tech Civil Engineering	01Cl	Flui Mechanics	3	01Cl0303	2017-18	-	100%
T 1 5 1 5 1 5 1	01CI	Software Application in Civil			2017-18	-	100%
3.Tech Civil Engineering	0101	Engineering - I	3	01Cl0305	2017-18	-	100%
Tech Civil Engineering	01CI	Project Based Community	3	01Cl0306	2018-19	_	1000/
Tech Civil Engineering	01Cl	Service-I Structural Analysis-I	4			-	100%
		Software Applications in Civil		01Cl0402	2017-18	-	100%
.Tech Civil Engineering	01CI	Engineering-II	4	01Cl0406	2017-18	-	100%
.Tech Civil Engineering	010	Project Based Community	4	01Cl0407	2010.10		
. reen civil Engineering		Service-II Creativity, Problem Solving	-	01010407	2018-19	_	100%
Tech Civil Engineering	01CI	and Innovation	4	01Cl0408	2021-22	_	100%
	01CI	Hydrology and Water					20070
Tech Civil Engineering		Resource Management	5	01Cl0501	2018-19	-	100%
Tech Civil Engineering	01CI	Structural Analysis-II	5	01Cl0502	2018-19	_	100%
Tech Civil Engineering	01Cl	Highway Engineering	5	01Cl0503	2018-19	_	100%
Tech Civil Engineering	01Cl	Enviornmental Engineerijng	5	01Cl0504	2018-19	_	100%
Tech Civil Engineering	01CI	Software Applications in Civil	5	01Cl0505			
reen civil Engineering		Engineering-III Project Based Community		01010303	2018-19	_	100%
Tech Civil Engineering	01CI	Service-III	5	01Cl0506	2018-19	_	100%
Tech Civil Engineering	01Cl	Enviornmental Pollution	5	01Cl0507			
Tech Civil Engineering	01Cl	Disaster Management	5	01Cl0507	2018-19	-	100%
Tech Civil Engineering	01Cl	Traffic Engineering	5	0100509	2018-19	-	100%
Tech Civil Engineering	01Cl	Buisness Benchmark	5	01CR0501	2018-19	-	100%
Tech Civil Engineering	01Cl	Transportation Engineering	6	01Cl0601	2018-19	_	100%
Fech Civil Engineering	01CI	Elementary Design of	6	01Cl0602			
reen civil Engineering		Structures Advanced Geotechnical			2018-19	_	100%
Tech Civil Engineering	01CI	Engineering	6	01Cl0603	2018-19	_	100%
	01CI	Professional Practice and					
ech Civil Engineering	010	Valuation	6	01Cl0604	2018-19	-	100%
ech Civil Engineering	01CI	Construction Technology and	6	01Cl0605	2010 10		
cerr civii ciigineeriiig		Safety Engineering Software Applications in Civil		0100003	2018-19	-	100%
ech Civil Engineering	01Cl	Engineering-IV	6	01CI0606	2018-19	_	100%
	016	Project Based Community			101010		100%
ech Civil Engineering	01CI	Service-IV	6	01CI0607	2018-19	-	100%
ech Civil Engineering	01Cl	Energy Science & Engineering	6	01CI0608	2018-19	_	100%
och Civil Faminanata	01CI	Design of Concrete Structures	7	21.010.701			
ech Civil Engineering ech Civil Engineering				01Cl0701	2019-20	-	100%
een civil Engineering	01CI	Irrigation Engineering Construction Project	7 (	D1CI0702	2019-20	_	100%
ech Civil Engineering	01CI	Management	7	01CI0703	2019-20	_	100%
ech Civil Engineering	O1CI	Project-I					100%
ech Civil Engineering	O1CI	Earthquake Engineering		01Cl0704	2019-20	-	100%
ech Civil Engineering	01Cl	Smart Citites		01Cl0705 01Cl0706	2019-20	-	100%
	01CI	Modern Transportation			2019-20	-	100%
ech Civil Engineering	OICI	System	7 0	1CI0707	2019-20	-	100%
ech Civil Engineering	01CI	Environmental Impact	7 0	1CI0708	2010.20		
ech Civil Engineering		Assessment			2019-20	-	100%
ch Civil Engineering	01Cl	Foundation Engineering		1CI0801	2019-20	_	100%
ech Civil Engineering	01Cl	Design of Steel Structures		1CI0802	2019-20	-	100%
ch Civil Engineering	01Cl	Project-II	8 0	1CI0803	2019-20	_	100%
- Sincernig		Advanced Structural Analysis Rehibilitation and Retrofitting	8 0	1CI0804	2019-20	-	100%
ch Civil Engineering	01Cl	of Structures	8 0	1CI0805	2019-20	_	100%
ch Civil Engineering	01Cl						
ch Civil Engineering	010	Bridge Engineering	8 0	1CI0806	2019-20	-	100%



10

52

86.1%



R Took Civil Family and	010	Sustainable Building		vers			
B.Tech Civil Engineering		Technology Prestressed Concrete	. 8	01CI0808	2019-20	-	100%
B.Tech Civil Engineering	01CI	Technology	8	01Cl0809	2019-20	-	100%
B.Tech Civil Engineering	01CI	Infrastructure Engineering Management	& 8	01Cl0810	2019-20	_	100%
B.Tech Civil Engineering	01CI	Design of Formwork	8	01Cl0811			
B.Tech Civil Engineering	01CI	Masonry Structures	8	01Cl0812	2019-20 2019-20	-	100%
		Program Revision calculation	on-				100%
		B.Tech Civil					
		No. of revised courses	10				
		No. of new courses	52				
		Total number of courses in	72				
		the program Overall % change in the					
		program	86.1%				
BBA (Honors)	0488	Microeconomics	1	04154400			
BBA (Honors)	04BB	Principles Of Management	1 1	04LS1103 04LS1102	2016-17	2017-18	
BBA (Honors)	O4BB	Fundamentals Of Accountin	g 1	04LS1105	2016-17	2017-18	
BBA (Honors)	0488	Computer Essentials & Offic	e 1	04BB0104	2016-17		
BBA (Honors)	04BB	Applications  Mathematics For Business	1	04BB0106		2021-22	
2014		Business organization &			2016-17	2017-18	20%
BBA (Honors) BBA (Honors)	04BB 04BB	Structure	1	04LS1104	2016-17	2017-18	40%
BBA (Honors)	04BB	Career Readiness Program Tally	1	04CR1101	2016-17	2018-19	50%
BBA (Honors)	04BB	COST ACCOUNTING	2	04BH2101 04LS1202	2017-18	2021-22	20%
BBA (Honors)	04BB	Macro Economics	2	04LS1202	2016-17 2016-17	2017-18	100%
BBA (Honors) BBA (Honors)	04BB	Organizational Behaviour	2	04LS1204	2016-17	2017-18	25%
BBA (Honors)	04BB 04BB	Statistics in Business E-Commerce	2	04880203	2016-17	2021-22	10%
	0,00	Human Resource	2	04LS1206	2016-17	2017-18	40%
BBA (Honors)	0488	Management	2	04880204	2017-18	2021-22	20%
BBA (Honors) BBA (Honors)	04BB 04BB	Entrepreneurship	4	04882405	2017-18	2019-20	70%
JOA (Honors)	0488	Advanced Excel Re+B21:B80search	2	04BH0202	2017-18	2021-22	25%
BBA (Honors)	04BB	Methodology	3	04BB0304	2017-18	-	100%
BBA (Honors)	0488	Reading and Writing for Business	1	04SL0102	2017-18	_	100%
BBA (Honors)	0488	Speaking and Presentation	1	04SL0103	2017.10		
BBA (Honors)	04BB 04BB	Skills English for Workplace			2017-18	-	100%
BBA (Honors)	04BB	English through Films	2 2	04SL0152 04SL0153	2017-18	-	100%
BA (Honors)	O4BB	Application Of Spreadsheet	2	04LS0212	2017-18	-	100%
BBA (Honors)	04BB	Marketing Management	3	04BB0301	2017-18	_	100%
BA (Honors)	04BB 04BB	Business Environment Financial Management	3	04BB0303	2017-18	_	100%
BA (Honors)	04BB	Business Laws	3	04BB0305 04BB0306	2017-18	-	100%
BA (Honors)	0400	Fundamentals of Digital	3	04BB030B	2017-18	-	100%
	04BB	Marketing Production & Operations		04880307	2017-18	-	100%
BA (Honors)	04BB	Management	4	04BB0401	2017-18	-	100%
BA (Honors)	O4BB	Management Information System	4	04BB0402	2017-18	_	100%
BA (Honors)	0400	Income Tax – Law and Practice	4	04BB0403	2017.10		
BA (Honors)	04BB 04BB	Indian Financial System			2017-18	-	100%
BA (Honors)	O4BB	Management of Services	4 4	04BB0404 04BB0406	2017-18	_	100%
BA (Honors) BA (Honors)	0488	Basics of French Language	4	04BB0407	2017-18	_	100%
BA (Honors)	04BB 04BB	Logistics Management	4	04BH0401	2017-18	-	100%
BA (Honors)	0488	Operations Research Strategic Management	5	04880501	2018-19	-	100%
BA (Honors)	04BB	Project Management	5	04BB0502 04BB0503	2018-19 2018-19	_	100%
BA (Honors)	0488	Understanding Corporate	5	04880505			100%
JA (Honors)	04BB 04BB	Financial Statements Internship			2021-22	_	100%
A (Honors)	04BB	Career Readiness Program	5	04BB0506 04CR0501	2018-19 2018-19	-	100%
A (Honors)	0400	Management of Financial	5	04BB0507		-	100%
A (Honors)	04BB 04BB	Markets Banking			2018-19	-	100%
A (Honors)	04BB	Taxation	5	04BB0508 04BH0501	2018-19	-	100%
A (Honors)	0488	Consumer Behaviour	5	04BB0509	2018-19 2018-19	-	100%
A (Honors) A (Honors)	04BB	Retail Marketing	5	04880510	2018-19	_	100%
· (Hellers)	04BB	Sales & Marketing Employee Welfare & Social	5	04BH0502	2018-19	_	100%
A (Honors)	04BB	Securities	5	04880511	2018-19	-	100%
A (Honors) A (Honors)	04BB	Compensation Management	5	04BB0512	2018-19	_	100%
A (Honors)	04BB 04BB	Recruitment & Selection	5	04BH0503	2018-19	_	100%
	0408	International Marketing International Human Resource	5	04BB0513	2019-20	-	100%
A (Honors)	O4BB	Management	5	04BB0514	2019-20	-	100%
A (Honors)	0488	Fundamentals of International Business	5	04BH0504	2019-20	-	100%
(Honors)	04BB	Modern Banking Theory & Practices	5	04880515	2019-20	_	100%
A (Honors)		Financial Analysis & Risk		04880516			
	O4BB	Management in Banks Fundamentals of Operational			2019-20	-	100%
(Honors)	04BB 04BB	Banking		04BH0505	2019-20	-	100%
	0400	Inventory Management	5	04BB0518	2021-22	-	100%



100%



BBA (Honors) BBA (Honors)	0488	Warehousing, Distribution &						
BBA (Honors)	I 04BB		-					
		Transportation Management	5	04BB0519	2021-22	-	100%	
BBA (Honors)	O4BB	Packaging Management	5	04BH0507	2021.22			
BBA (Honors)				04600507	2021-22		100%	
	O4BB	Essentials of Digital Marketing	5	04BB0520	2021-22	_	1000/	
	0400				2021-22	_	100%	
PRA (Honoss)		Applications of SEO, SEM &	5	04000534				
BBA (Honors)	O4BB	Web Analytics	3	04BB0521	2021-22	-	100%	
BBA (Honors)	04BB	Website Development	5	04BH0508	2021-22	_	1000/	
		Innovation & Start-Up		0.0110300	2021-22		100%	
BBA (Honors)	04BB	Management	5	04880522	2021-22	_	100%	
		Social Entrepreneurship and					100%	
BBA (Honors)	04BB		5	04880523	2021 22		10001	
DOM (HOHOTS)	0488	Corporate Entrepreneurship		04000323	2021-22	-	100%	
		International Business						-
BBA (Honors)	O4BB	Procedures	5	04BH0506	2021-22	-	100%	
		Business Ethics & Corporate				-		
BBA (Honors)	04BB	Governance	6	04880601	2018-19	_	100%	
BBA (Honors)	O4BB	Management Accounting					100%	
BBA (Honors)			4	04BB0602	2017-18	-	100%	
	O4BB	International Business	6	04BB0603	2018-19	_	100%	
BBA (Honors)	04BB	Project	6	04BB0604	2018-19	_		
BBA (Honors)	04BB	Six Sigma	6	04BH0601		_	100%	-
		Advance Financial		040110001	2018-19		100%	
BBA (Honors)	O4BB		6	04880605	2018-19	_	1000	
BBA (Honors)		Management			2018-19	_	100%	
	04BB	Asset Management	6	04BH0602	2018-19	_	100%	
BBA (Honors)	04BB	Advertising Management	6	04BB0606	2018-19	_		-
BBA (Honors)	04BB	Social Media Marketing	6	04BH0603			100%	-
BBA (Honors)	04BB	Change Management	6		2018-19	-	100%	
BBA (Honors)	04BB			04BB0607	2018-19	-	100%	
	0.00	Payroll Management	6	04BH0604	2018-19	_	100%	
PRA (Hamana)		International Supply Chain	5	04BB0608				
BBA (Honors)	04BB	Management	3	04880608	2021-22	-	100%	
		International Trade Finance &						1
BBA (Honors)	04BB	Forex Risk Management	6	04BH0605	2021-22	_	100%	
		Rural Banking and Micro						
BBA (Honors)	04BB	Finance	6	04BB1609	2019-20	_	1000	
(	0488			0.1001003	2019-20		100%	
204 (11)		Investment Banking &						1
BBA (Honors)	04BB	Insurance	6	04BH0606	2019-20	-	100%	
BBA (Honors)	04BB	IT in Logistics Management	6	04880610	2024.22	-	-	
BBA (Honors)	04BB	International Logistics	6		2021-22	-	100%	
		Contemporary Practices of	0	04BH0607	2021-22	_	100%	
BBA (Honors)	O4BB		6	04880611	2021 22			
(Honors)	0488	Digital Marketing		04000011	2021-22	-	100%	
24.6.		Marketing Through Social	-					
BA (Honors)	04BB	Media Platforms	6	04BH0609	2021-22	_	100%	
		Legal Aspects of Startups and				-		
BA (Honors)	04BB	IPR	6	04880612	2021-22	-	100%	
BA (Honors)	04BB	Funding for Start-Ups					10070	
	0400	randing for start-ops	6	04BH0608	2021-22	_	100%	
		Program Revision calculation						
		BBA (H)						
		N	16					
		No. of revised courses						
		No. of new courses	69					
			69					
		Total number of courses in	69 85					
		Total number of courses in the program	85					
		Total number of courses in the program Overall % change in the						
		Total number of courses in the program	85					
		Total number of courses in the program Overall % change in the program	85					
Tech Electrical Engineering	O1EE	Total number of courses in the program Overall % change in the program	100%	01551100	2020.24			
Tech Electrical Engineering		Total number of courses in the program Overall % change in the program  Basic Electrical Engineering	85	O1EE1109	2020-21	2021-22	25%	3
	01EE 01EE	Total number of courses in the program Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL	100%					3
Tech Electrical Engineering	O1EE	Total number of courses in the program  Overall % change in the program  Basic Electrical Engineering  Basics MECHANICAL  ENGINEERING	1 1	01ME1109	2020-21	2021-22	25% 20%	3
Tech Electrical Engineering Tech Electrical Engineering	O1EE O1EE	Total number of courses in the program Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING	100% 1 1 2	01ME1109 01CE1101		2021-22	20%	3
Tech Electrical Engineering Tech Electrical Engineering Tech Electrical Engineering	O1EE O1EE O1EE	Total number of courses in the program Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science	1 1	01ME1109	2020-21		20%	
Tech Electrical Engineering Tech Electrical Engineering Tech Electrical Engineering Tech Electrical Engineering	01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics	100% 1 1 2	01ME1109 01CE1101 01EN1109	2020-21 2020-21 2020-21	2021-22 2021-22 —	20% 22% 100%	3
Tech Electrical Engineering	O1EE O1EE O1EE	Total number of courses in the program Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science	1 1 1 2 1 1	01ME1109 01CE1101 01EN1109 01GS1109	2020-21 2020-21 2020-21 2020-21	2021-22 2021-22 —	20% 22% 100% 100%	
Tech Electrical Engineering Tech Electrical Engineering Tech Electrical Engineering Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics	100% 1 1 2 1 1 1	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109	2020-21 2020-21 2020-21 2020-21 2020-21	2021-22 2021-22 — —	20% 22% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II	85 100% 1 1 2 1 1 1 1	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01EE1110	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21	2021-22 2021-22 —	20% 22% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English	100% 1 1 2 1 1 1 1	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01EE1110 01GS0103	2020-21 2020-21 2020-21 2020-21 2020-21	2021-22 2021-22 — —	20% 22% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I	85 100% 1 1 2 1 1 1 1	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01EE1110	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21	2021-22 2021-22 — — — —	20% 22% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01EE1110 01GS0103 AU001	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22	2021-22 2021-22 — — — — — —	20% 22% 100% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design	100% 1 1 2 1 1 1 1	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01EE1110 01GS0103	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22	2021-22 2021-22 ——————————————————————————————————	20% 22% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And	1 1 2 1 1 1 1 1 1 1	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01EE1110 01GS0103 AU001 01PY0101	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22	2021-22 2021-22 — — — — — —	20% 22% 100% 100% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basic SMECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop	1 1 2 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 2 1	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01EE1110 01GS0103 AU001 01PY0101 01EC1109	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21	2021-22 2021-22 — — — — — —	20% 22% 100% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education	1 1 2 1 1 1 1 1 1 2 2 2 2	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01EE1110 01GS0103 AU001 01PY0101 01EC1109 01MA1110	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22	2021-22 2021-22 — — — — — —	20% 22% 100% 100% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2	1 1 2 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 2 1	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01EE1110 01GS0103 AU001 01PY0101 01EC1109	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21	2021-22 2021-22 — — — — — — —	20% 22% 100% 100% 100% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution	1 1 2 1 1 1 1 1 1 2 2 2 2	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01ES1110 01GS0103 AU001 01PY0101 01EC1109 01MA1110 01SL1109	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21	2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution	1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01EE1110  01GS0103  AU0001  01PY0101  01EC1109  01MA1110  01SS1109  01ME1110	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21	2021-22 2021-22 - - - - - - - - - - - - -	20% 22% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1	1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	01ME1109  01CE1101  01EN1109  01GS1109  01ME1110  01GS0103  AU001  01PY0101  01EC1109  01MA1110  01SL1109  01ME1110  01KE1110	2020-21 2020-21 2020-2: 2020-2: 2020-2: 2020-2: 2021-2: 2021-2: 2021-2: 2020-2:	2021-22 2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga	1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01EE1110  01GS0103  AU0001  01PY0101  01EC1109  01MA1110  01SS1109  01ME1110	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21	2021-22 2021-22 - - - - - - - - - - - - -	20% 22% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program  Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem	1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01EE1110 01GS0103 AU0001 01PY0101 01EC1109 01MA1110 01SL1109 01ME1110 01CR1103 AU0002	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21	2021-22 2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving	1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01ME1110  01GS0103  AU001  01PY0101  01EC1109  01MA1110  01SL1109  01ME1110  01KE1110	2020-21 2020-21 2020-2: 2020-2: 2020-2: 2020-2: 2021-2: 2021-2: 2021-2: 2020-2:	2021-22 2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis	1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01EE1110  01GS0103  AU0001  01PY0101  01EC1109  01MA1110  01SL1109  01ME1110  01CR1103  AU0002  01EE0305	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22	2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving	1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 3 3 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01ME1110  01ES1109  01FE1110  01GS0103  AU001  01PY0101  01EC1109  01ME1110  01SL1109  01ME1110  01CR1103  AU0002  01EE0305	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2021-22	2021-22 2021-22 - - - - - - - - - - - - -	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basic SMECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Gricuit Analysis Electrical Machines-I	1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 3 3 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01EE1110  01GS0103  AU0001  01PY0101  01EC1109  01MA1110  01SL1109  01ME1110  01CR1103  AU0002  01EE0305	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22	2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Machines-I Applied Mathematics For	1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 3 3 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01ME1110  01ES1109  01FE1110  01GS0103  AU001  01PY0101  01EC1109  01ME1110  01SL1109  01ME1110  01CR1103  AU0002  01EE0305	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2021-22 2021-22	2021-22 2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Grapineering Electrical Mathematics For Electrical Engineering	1 1 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 3 3 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01ES1110  01GS0103  AU001  01PY0101  01EC1109  01MA1110  01SL1109  01ME1110  01CR1103  AU0002  01EE03005  01EE0301  01EE0303	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2021-22	2021-22 2021-22 - - - - - - - - - - - - -	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Machines-I Applied Mathematics For Electrical Engineering Analog and Digital Electronics	1 1 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 3 3 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01EE1110  01GS0103  AU0001  01PY0101  01EC1109  01MA1110  01SL1109  01ME1110  01CR1103  AU0002  01EE0305  01EE0301	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2021-22 2021-22	2021-22 2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basic SMECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Gircuit Analysis Electrical Engineering Analog and Digital Electronics Measurement Lab	1 1 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 3 3 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01ES1110  01GS0103  AU001  01PY0101  01EC1109  01MA1110  01SL1109  01ME1110  01CR1103  AU0002  01EE03005  01EE0301  01EE0303	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22	2021-22 2021-22 - - - - - - - - - - - - -	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Machines-I Applied Mathematics For Electrical Engineering Analog and Digital Electronics	1 1 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 3 3 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01EE1110  01GS0103  AU001  01PY0101  01EC1109  01MA1110  01SL1109  01ME1110  01CR1103  AU0002  01EE0305  01EE0303  01MA0303  01EE0302  01EE0304	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22	2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program  Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II Engilish Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Machines-I Applied Mathematics For Electrical Engineering Analog and Digital Electronics Measurement Lab Power System - I	1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01EE1110  01FC1109  01MA1110  01SU1109  01MA1110  01SU1109  01ME1110  01EE1109  01ME1100  01EE0305  01EE0305  01EE0301  01EE0303	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22	2021-22 2021-22 - - - - - - - - - - - - -	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Grautics For Electrical Engineering Analog and Digital Electronics Measurement Lab Power System - I Power Electronics	1 1 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 3 3 3 3	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01ES1100  01ES1100  01FV0101  01EC1109  01MA1110  01SL1109  01ME1110  01CR1103  AU0002  01EE0305  01EE0301  01EE0302  01EE0302  01EE0304  01EE0402	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22	2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Machines-I Applied Mathematics For Electrical Engineering Analog and Digital Electronics Measurement Lab Power System - I Power Electronics Control System Engineering	1 1 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01ES1109  01HE1110  01SS0103  AU001  01PY0101  01EC1109  01MA1110  01SL1109  01ME1110  01CR1103  AU0002  01EE0305  01EE0301  01EE0303  01MA0303  01EE0304  01EE0304  01EE0304  01EE0304  01EE04001  01EE0403	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22	2021-22 2021-22 - - - - - - - - - - - - -	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Gricuit Analysis Electrical Engineering Analog and Digital Electronics Measurement Lab Power System - I Power Electronics Control System Engineering Field Theory	1 1 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01ES1100  01ES1100  01FV0101  01EC1109  01MA1110  01SL1109  01ME1110  01CR1103  AU0002  01EE0305  01EE0301  01EE0302  01EE0302  01EE0304  01EE0402	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22	2021-22 2021-22	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Machines-I Applied Mathematics For Electrical Engineering Analog and Digital Electronics Measurement Lab Power System - I Power Electronics Control System Engineering	1 1 2 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01ES1109  01HE1110  01FV1010  01EC1109  01MA1110  01SL1109  01ME1110  01CE1109  01ME1100  01ME1303  01ME0305  01EE0301  01EE0303  01MA0303  01EE0401  01EE0401  01EE0402  01EE0403  01EE04040	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22	2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program  Overall % change in the program  Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Machines-I Applied Mathematics For Electrical Engineering Analog and Digital Electronics Measurement Lab Power System - I Power Electronics Control System Engineering Field Theory	1 1 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01ES1109 01MA1109 01ES1110 01FO1109 01MA1110 01SU1109 01MA1110 01SU1109 01ME1110 01EE0305 01EE0305 01EE0301 01EE0302 01EE0304 01EE0402 01EE0402 01EE0403 01EE0403 01EE0404	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22	2021-22 2021-22         	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program  Overall % change in the program  Basic Electrical Engineering  Basics MECHANICAL  ENGINEERING  COMPUTER PROGRAMMING  Environmental Science  Physics  Basic Electronics  Maths-II  English  Maths I  Engineering Graphics And  Design  Workshop  Value Education  National Cadet Corps-2  Indian Constitution  National Cadet Corps-1  Physical/Sports/Yoga  Design Thinking And Problem  Solving  Electrical Circuit Analysis  Electrical Machines-I  Applied Mathematics For  Electrical Engineering  Analog and Digital Electronics  Measurement Lab  Power System - I  Power Electronics  Control System Engineering  Field Theory - Lab  Community Services	1 1 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	01ME1109  01CE1101  01EN1109  01GS1109  01MA1109  01ES1109  01HE1110  01FV1010  01EC1109  01MA1110  01SL1109  01ME1110  01CE1109  01ME1100  01ME1303  01ME0305  01EE0301  01EE0303  01MA0303  01EE0401  01EE0401  01EE0402  01EE0403  01EE04040	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22	2021-22 	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program  Overall % change in the program  Basic Electrical Engineering  Basics MECHANICAL  ENGINEERING  COMPUTER PROGRAMMING  Environmental Science  Physics  Basic Electronics  Maths-II  English  Maths I  English  Maths I  English  Maths I  Engineering Graphics And  Design  Workshop  Value Education  National Cadet Corps-2  Indian Constitution  National Cadet Corps-1  Physical/Sports/Yoga  Design Thinking And Problem  Solving  Electrical Machines-I  Applied Mathematics For  Electrical Engineering  Analog and Digital Electronics  Measurement Lab  Power Electronics  Control System Engineering  Field Theory  Field Theory  Field Theory  Field Theory  For Manage in the program of the program	1 1 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01GS1109 01MA1109 01EE1110 01GS0103 AU001 01PV0101 01EC1109 01MA1110 01SL1109 01ME1110 01CR1103 AU0002 01EE0305 01EE0301 01EE0303 01MA0303 01MA0303 01EE04001 01EE04001 01EE04001 01EE04001 01EE04003 01EE04003 01EE04003 01EE04003 01EE04003 01EE04005 01EE04005 01EE04005 01EE04005	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22	2021-22	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Engineering Analog and Digital Electronics Measurement Lab Power System - I Power Electronics Control System Engineering Field Theory - Lab Community Services Community Services Communication Skills For Engineers	1 1 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01ES1109 01MA1109 01ES1110 01FO1109 01MA1110 01SU1109 01MA1110 01SU1109 01ME1110 01EE0305 01EE0305 01EE0301 01EE0302 01EE0304 01EE0402 01EE0402 01EE0403 01EE0403 01EE0404	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22	2021-22 2021-22         	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Machines-I Applied Mathematics For Electrical Engineering Analog and Digital Electronics Measurement Lab Power System - I Power Electronics Control System Engineering Field Theory - Lab Community Services Community Services Communication Skills For Engineers Engineers Creativity, Problem Solving	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01ME1109  01CE1101  01EN1109  01GS1109  01ME1109  01ES1109  01HE1110  01GS0103  AU001  01PV0101  01EC1109  01MA1110  01SL1109  01ME1110  01CR1103  AU0002  01EE0305  01EE0305  01EE0301  01EE0303  01ME0302  01EE0304  01EE0404  01EE0404  01EE0405  01EE0405  01EE0407  01SL0401	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22	2021-22 2021-22	20% 22% 100% 100% 100% 100% 100% 100% 10	
Tech Electrical Engineering	01EE 01EE 01EE 01EE 01EE 01EE 01EE 01EE	Total number of courses in the program Overall % change in the program Basic Electrical Engineering Basics MECHANICAL ENGINEERING COMPUTER PROGRAMMING Environmental Science Physics Basic Electronics Maths-II English Maths I Engineering Graphics And Design Workshop Value Education National Cadet Corps-2 Indian Constitution National Cadet Corps-1 Physical/Sports/Yoga Design Thinking And Problem Solving Electrical Circuit Analysis Electrical Engineering Analog and Digital Electronics Measurement Lab Power System - I Power Electronics Control System Engineering Field Theory - Lab Community Services Community Services Communication Skills For Engineers	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01ME1109 01CE1101 01EN1109 01GS1109 01MA1109 01GS1109 01MA1109 01EE1110 01GS0103 AU001 01PV0101 01EC1109 01MA1110 01SL1109 01ME1110 01CR1103 AU0002 01EE0305 01EE0301 01EE0303 01MA0303 01MA0303 01EE04001 01EE04001 01EE04001 01EE04001 01EE04003 01EE04003 01EE04003 01EE04003 01EE04003 01EE04005 01EE04005 01EE04005 01EE04005	2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2021-22	2021-22	20% 22% 100% 100% 100% 100% 100% 100% 10	



100%



B. Tech Electrical Engineering	01EE	Automobile Funda		ivers	,		
0		Automobile Engineering Object Oriented Programmir	4	01AE0409	2021-22	-	100%
B. Tech Electrical Engineering	O1EE	With Java	1g 4	01CE0432	2021-22		1000
B. Tech Electrical Engineering	01EE	Computer Networks	-				100%
B. Tech Electrical Engineering	01EE	Fundamentals of Robotics	4	01CE0431	2021-22	_	100%
	OILL	Fundamentals of Robotics	4	01EC0431	2021-22	_	100%
		Program Revision calculation	1-				
		B.Tech Electrical					
		No. of revised courses	3				
		No. of new courses	32				
		Total number of courses in	35				
		the program	33				
		Overall % change in the	100%				
	-	program	10076				
	-	5 1 1 2 2 2					
B.Tech ICT	33	Foundation Skills in Sensors	1	OLD: 01CT0103	2010 10		
B.Tech ICT	22	Interfacing	-	NEW: 01CT1103	2018-19	2020-21	50%
B.Tech ICT	33	Engineering Mathematics - I	1	01MA0101	2017-18	_	100%
3. recir ici	33	Electrical Circuits	1	01EE0104	2017-18	_	100%
B.Tech ICT	33	Introduction to Computer	1	01CT0101			
s. recir ici		Programming	1	01010101	2017-18	-	100%
B.Tech ICT	33	Reading and Writing for	1	01510100			
). Tech ICT		Technology	1	01SL0102	2017-18	-	100%
3.Tech ICT	33	Speaking and Presentation	1	01510100	1		
3.Tech ICT		Skills	1	01SL0103	2017-18	-	100%
A TECH ICI	33	Computer Workshop	1	01CE0102	2017-18	_	100%
Toch ICT	33	Bas ics of Electronics			2027-10		100%
3.Tech ICT 3.Tech ICT		Engineering	1	01EC0101	2017-18	-	100%
	33	ICT Workshop	1	01CT0104	2018-19	_	1000/
Tech ICT	33	Sports/Physical Education	1	01PY0101	2017-18	-	100%
Tech ICT	33	Indian Constitution	1	01GS0103	2021-22	-	100%
Tech ICT	33	NCC-1	1	AU001	2021-22		100%
Tech ICT	33	Engineering Mathematics II	2	01MA0151	2021-22	-	100%
	33	Engineering Drawing and			2017-18	-	100%
Tech ICT	33	Computer Aided Design	2	01ME0105	2017 10	-	100%
	22	Basics of Environmental			2017-18		
.Tech ICT	33	Studies	2	01EN0101	2017.10	_	100%
Tech ICT	33	Digital Electronics	2	01EC0102	2017-18		
	2.0			0120102	2017-18	-	100%
Tech ICT	33	Data Structure and Algorithm	2	01CT0102		_	100%
		Electrical and Electronic			2017-18		10070
Tech ICT	33	Workshop	2	01EE0102		-	100%
Tech ICT	33	Career Readiness Program	2	01000101	2017-18		
Tech ICT	33	NCC-2		01CR010 1	2017-18	-	100%
		Discrete Mathematics and	2	AU002	2021-22	_	100%
Tech ICT	33	Graph Theory	3	01MA0 231		_	100%
		Computer Organiza tion and			2018-19		100%
Tech ICT	33	Architecture	3	01CT0301		_	1000/
Tech ICT	33	Signals and Systems			2018-19		100%
Tech ICT	33		3	01CT0302	2018-19	-	100%
	- 33	Professional Ethics	3	01CR0302	2018-19	-	100%
Tech ICT	33	Introduction to	3	01 CT0303			
		Communication Engineering		01 010303	2018-19	-	100%
ech ICT	33	Object Oct 1	3	01CT0304			4000
		Object Oriented Programming		01010304	2018-19	-	100%
Tech ICT	33		3	01CT0305			
Fech ICT		Introduction to R and R Studio		01010303	2018-19	-	100%
ech ICT	33	Design Engineering	3	01CT0306	2018-19	-	100%
ech ICT	33	Programming with Python	3	01CT0309	2021-22	-	100%
ech ICT	33	Data Structure using C++	3	01CT0308	2021-22	_	100%
con ici	33	Probability and Statistics	4	01CT0401	2018-19	_	100%
inch ICT	33						100%
ech ICT		Proble m Solving Using Python	4	01CT0402	2018-19	-	100%
anh ICT	33	Microcontr oller and			2010 15		
ech ICT		Interfacing	4	01CT0403	2018-19	-	100%
	33	Analog and Digital			2010-13		
ech ICT		Communication	4	01CT0404	2018-19	-	100%
ech ICT	33	Engineering Electrodynamics	4	01CT0405	2018-19		10001
ech ICT	33	Operating System	4	01CE0401	2018-19	-	100%
ech ICT	33	Technical Writing	4	01CT0406		-	100%
ech ICT	33	Optimization Techniques	5	01 CT 0501	2018-19	-	100%
	22				2019-20	-	100%
ech ICT	33	Database Management System	5	01CT0502	2010.22	-	100%
ech ICT	33	Computer Networks	5	01070503	2019-20		
				01CT0503	2019-20	-	100%
ech ICT	33	Internet and Web Technology	5	01 CT0504		_	100%
	25	Introduction to Single Board			2019-20		200/0
ech ICT	33	Computer Programming	5	01CT0505		_	100%
ech ICT	33	Human Centered Design			2019-20		100%
				01CT0506	2019-20		100%

100%

33	Advanged Missesses					
	Advanced Microprocessor	5	01CT0507	2019-20	-	100%
33	Optical Communication	5	01CT0508	2019-20	_	100%
		5	01CT0509	2019-20	_	100%
33	Applied Linear algebra	5			_	100%
33	Theory of Computation	5				100%
33	Cognitive Aptitude 1	5				100%
33	Digital Signal Processing					100%
22	Wireless Communication and			2013-20	_	100%
33	Mobile Computing	6	01CT0602	2019-20	-	100%
33	Software Engineering	6	0.1170601			100%
33					-	
33	Embedded System Design				_	100%
			01010004	2019-20	-	100%
33		6	01CT0605	2010.20	_	100%
				2019-20	-	
33	Advanced Computer Networks	6	01CT0606		_	100%
33		-	01070111			
					-	100%
					_	100%
						100%
					_	100%
33		6	01CT0611	2019-20	_	100%
33		6	01CT0612			100%
				2019-20		100%
			01CT0613	2019-20	_	100%
33		6	01GS0601	2019-20	-	100%
33	Cryptography and Network	7	01070701			
			010/01	2020-21	-	100%
33		7	01070702		THE THE	
	Coding	/	01010702	2020-21	-	100%
33	Artificial Intelligence	7	01CT0703		_	100%
22	Management Information					
33	System	/	01CT070 4	2020-21	-	100%
33	Digital Design using Verilog	7	01CT0705		_	100%
33	Computer Vision	7				100%
33	Multimedi a Computing	7				100%
33						100%
33	Advance Java					100%
			01010703	2020-21		100%
33	Embedded Operating System	7	01CT0710	2020.21	-	100%
33		7	01CT0711			
33						100%
			01010712	2020-21		100%
33		7	01CT0713		_	100%
	Development			2020-21		
33	Human Computer Interaction	7	01CT0714		_	100%
33		-				
- 33		8	01010801	2020-21		100%
33		8	01CT0802			100%
22						10076
				2020-21	_	100%
				2020-21	-	100%
			01CT0805	2020-21	_	100%
		8	01CT 0806	2020-21	_	100%
		8	01CT0807	2020-21	_	100%
		8	01CT0808	2020-21	_	100%
		8	01CT0809		_	100%
33	Game Development	8	01CT0810		_	100%
33						
33	Introduction to DevOps Tools	8	01CT0811	2020-21	_	100%
22	Deep Learning for Computer Vi			102021		
33	sion	8	01CT0812	2020-21	-	100%
33	Embedde d Linux	8	01CT0813	2020-21	_	100%
				1 /U/U-/1		700%
						10076
33	Spread Spectrum communications	8	01CT0814	2020-21	_	100%
	33 33 33 33 33 33 33 33 33 33	33 Linux Administration 33 Applied Linear algebra 33 Theory of Computation 33 Cognitive Aptitude 1 33 Digital Signal Processing 33 Wireless Communication and Mobile Computing 33 Software Engineering 33 Embedded System Design 34 RF and Microwave 35 Communication 36 Advanced Computer Networks 37 Machine learning 38 Compiler Design 39 VLSI Designs 30 Satellite Communication 30 Compiler Design 31 Octoor Computing 32 Compiler Design 33 VLSI Designs 34 Net Tech nology 35 Cognitive Aptitude 2 36 Cryptography and Network Security 37 Information Theory and Coding 38 Artificial Intelligence 39 Management Information System 30 Digital Design using Verilog 30 Computer Vision 31 Multimedi a Computing 32 Computer Vision 33 Advance Java 34 Embedded Operating System 35 Wireless System Design 36 Internet of Things 37 Programming with Application Development 38 Development 39 Designal Marketing 30 Designal Marketing 31 Designal Marketing 32 Programming with Application Development 33 Data Visualization 34 Advance Database 35 Data Visualization 36 Advance C++ Programming 37 Game Development 38 Introduction to DevOps Tools 39 Deep Learning for Computer Vi	33	33	33	333

Program Revision calculation-	
B.Tech ICT	
No. of revised courses	1
No. of new courses	92
Total number of courses in the program	93
Overall % change in the	100%



## B. Tech Mechanical Engineering Faculty of Technology Marwadi University

## 1.1.2 Board of Studies meeting minutes

(Program revision)

Established Under Gujarat Private Universities Act No. 9 of 2016

## Minutes of Meeting B.O.S. for B.Tech. Mechanical Engineering

Date: 13/05/20	16	<b>D.O.3. 101 D. 1ecil.</b>	Meeting No: 01				
Start Time: 11:0	00 AM	End Time: 01:00 PM		Total Time: 2 Hours			
Presented by		Dr. Pinank A Patel		L			
Agenda – 1	Review	of Vision and Mission, PS	O, PEO				
Resolution	•	<ul> <li>Based on the feedback received from the different stakeholders like industrial experts, subject experts from other institute and with reference to AICTE model curriculum and syllabus of renowned universities such as IIT madras, VIT Vellore SRM-Chennai a draft is created and a few revisions are made to the statements of Vision and Mission in alignment with the university's Vision and Mission statements. (Annexure-1)</li> <li>Based on feedback received from different stakeholders a draft was created for PSC and PEO and the same was presented among the BOS committee. Based on minor corrections given by the BOS committee PSO and PEO were finalized. (Annexure-2)</li> </ul>					
Agenda - 2	progran	1		come of Mechanical Engineering for UG			
Resolution	<ul> <li>Syllabus and CO for 1<sup>ST</sup> year subjects are discussed with BOS committee and approval was taken from the committee (Annexure-3)</li> <li>The CBCS scheme for the entire program has been discussed and approved by the BOS committee.</li> <li>Contact hours for students should ideally be 25 to 30 hours per week.</li> <li>1<sup>ST</sup> Year course should be common for all branches of engineering.</li> <li>Percentage of continuous evaluation and end semester evaluation should either be 60:40 or 50:50 for theory and practical subjects.</li> <li>Passing criterion for theory and laboratory should ideally be 3:2:1 hours should be allowed for End semester, mid semester and internal evaluation examination.</li> <li>Based on discussion with BOS committee and with reference to model curriculum of AICTE following courses are included in the 1st year curriculum</li> <li>General Basic science courses such as - Physics, Basic environmental studies, Differential integral and calculus.</li> <li>Engineering science course such as - Elements of Mechanical, civil engineering, computer programming, Engineering graphics, and Mechanical workshop.</li> <li>Humanities and Social Sciences &amp; Management Courses such as Value education, Reading Writing/Speaking Skills, professional ethics.</li> </ul>						
Agenda - 3	Propose	ed Attainment for Course	Outcome				
Resolution	•		mbers that CO ta	arget attainment for this year's student is e more than 55% marks.			



Agenda – 4	Review of the teaching scheme
	Based on discussion with BOS committee ,with reference to model curriculum o
	AICTE and Reputed universities such as IIT-Madras, VIT-Vellore Engineering core
	courses such as Fluid mechanics, Kinematics of machine, Fundamental of machine
Resolution	design, Manufacturing process-1 & 2, Material science and metallurgy, are proposed
	in the 3rd year curriculum
	<ul> <li>Provide tutorials of 1 hours in the courses Mechanics of Solids, Maths-III, Kinematics</li> </ul>
	of Machines, Thermal, Material Science, Fluid mechanics, of sem-III and sem-IV.
Agenda – 5	Inclusion of state of art topics and contents suitable to the current and futuristic learning
	and development paradigms for the graduates.
	Reduce theory contact hours and increase practical contact hours for computer
	programing and engineering graphics, provide tutorials for the Elements of Electrica
Resolution	& Electronics, Elements of Civil engineering subjects.
	<ul> <li>The Learning and Development department would be offering SPT and SIG programs</li> </ul>
	designed for the overall development of the student.
Agenda – 6	Suggestion on making the curriculum inclined towards industrial integration.
Resolution	<ul> <li>Workshop is essential in all branches, (Workshop-I and Workshop-II) or increase</li> </ul>
	hours of contact in case there is a single course on Workshop
	<ul> <li>Workshop should be performance based instead of demonstration.</li> </ul>
	<ul> <li>For every tutorial 1 contact hour, 1 credit weightage to be given.</li> </ul>
	Allow to earn credits early and permit final year projects in industries.
Agenda – 7	Feedback from Members of Board of Studies
Resolution	Viva can be replaced by quiz, performance evaluation, and surprise test.



### Faculty of Technology Mechanical Engineering

Minutes of Meeting - Board of Studies A.Y. 2016-17

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В	OS Committee members:	Signature
Me	eeting attended by: External Expert	S
1.	Dr. D. P. Vakharia	Lum
2.	Dr. Puneet Tandon	£8007
3.	Dr. Leenus Martin	Munis
4.	Dr. Bharat Ramani	Bring
Me	eting Attended by: Marwadi Unive	rsity
1.	Dr. R. L. Jhala	A DESTRUCTION OF THE PARTY OF T
2.	Dr. Sarang Pande	Sande
3.	Prof. Nikunj Rachchh	A
4.	Prof. Pinank Patel	Paparte



	Annexure
	Department Vision:
Annexure - 1	<ul> <li>To be recognized globally for quality education and enrich our society with dedicated and competent engineers</li> <li>Department Mission:</li> </ul>
	<ul> <li>Delivering quality education to the graduates and enhancing their skills related to different subjects offered</li> </ul>
	<ul> <li>To create awareness of the current technologies by conducting regular industrial visits, training on latest technology and encouraging technical events</li> <li>To make the graduates understand the impact of their work on society and encourage ethical values</li> </ul>
	<ul> <li>To promote innovative ideas and utilize modern equipment &amp; tools to encourage research.</li> </ul>
	<ul> <li>To motivate and prepare the graduates for higher education and competitive exams by conducting seminars, tests and mock interviews</li> </ul>
	PSO1: Students will have knowledge and skills in core mechanical and allied
	engineering subjects, to identify, analyze, design and develop mechanical systems,
	meeting needs of society
	PSO2: Students will have competence to take challenges associated with future
	technological issues such as biofuel, alternate energy, 3D printing, Robotics, Drones
	etc.
	• PEO:
	<ul> <li>Demonstrate sustained learning and adapt to the constantly changing technologies through higher studies, professional development and self-study.</li> </ul>
	<ul> <li>Have technological skills, soft skills and social skills towards Industry readiness and for contribution to society.</li> </ul>
Annexure - 2	<ul> <li>Have professional ethics, good communication and leadership capabilities for continued success in life.</li> </ul>
Amexare 2	To promote next level education
	• PO
	<ul> <li>PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.</li> </ul>
	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 modelling
	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.
	B.Tech - Year-1, Sem-1
	Subject Code Subject Name
	01MA0101 Engineering Mathematics I 01Cl0101 Elements of Civil Engineering
	01ME0101 Elements of Mechanical Engineering
	01SL0102 / Reading & Writing for Technology /
Annexure - 3	01SL0103 Speaking & Presentation Skills
Allilexule - 3	01GS0101 / Physics /
	01GS0102 Chemistry
	01EN0101 Basics of Environmental Studies
	01CR0101 Career Readiness Programme
	P. Toch Voor 1 Com 2
	B.Tech - Year-1, Sem-2 Subject Code Subject Name
	Subject Code Subject Name



01CE0101 Computer Programming 01ME0102 Engineering Graphics 01EE0103 Basic Electrical and Electronics Engineering 01ME0104 Mechanical Workshop 01PE0101 Physical Education/Sports/Yoga	01MA0151	Engineering Mathematics :II
01EE0103 Basic Electrical and Electronics Engineering 01ME0104 Mechanical Workshop	01CE0101	Computer Programming
01ME0104 Mechanical Workshop	01ME0102	Engineering Graphics
·	01EE0103	Basic Electrical and Electronics Engineering
01PE0101 Physical Education/Sports/Yoga	01ME0104	Mechanical Workshop
	01PE0101	Physical Education/Sports/Yoga

Established Under Gujarat Private Universities Act No. 9 of 2016

## Minutes of Meeting B.O.S. for B.Tech. Mechanical Engineering

Date: 28/05/20	17		Meeting No: 02			
Start Time: 10:0	00 AM	End Time: 12:30 PM		Total Time: 2:30 Hours		
Presented by Prof. Ramesh Bhoraniya						
Agenda – 1						
	progran		waar subjects	are discussed with BOC committee and		
		•	•	are discussed with BOS committee and		
	<ul> <li>approval was taken from the committee (Annexure-1)</li> <li>Based on discussion with BOS committee and with reference to model curriculum of</li> </ul>					
		AICTE and reputed unive	ersities such as	IIT Madras, VIT Vellore, SRM-Chennai		
		following courses are incl				
	•	General Basic science cou	rse - Numerical a	nalysis		
	•	Humanities and Social Scie	ences & Managei	ment Courses - Professional ethics		
	•	Based on discussion with E	3OS committee a	nd with reference to model curriculum of		
		following courses are inclu	uded in the 2nd y	ear curriculum		
	• (	Engineering core courses	such as Fundan	nental of machine design, Kinematics of		
		machine, MP-1, Engineerii	ng thermodynam	nics, MDID, MSM		
		•	ial and student f	eedback following courses are included in		
		curriculum				
Resolution			-	(6 credits) such as Human centric design		
11000101011	approach, Design thinking and problem solving skill must be added to the curriculum					
	as it is going to be mandatory by UGC in the coming future.					
	Based on feedback received with various industries such as Bosch Rexroth, Jyoti CNC  Automatical Ltd. and with reference to report of FICCL (The Foderation of Indian					
	Automation Ltd. and with reference to report of FICCI (The Federation of Indian Chambers of Commerce & Industry), CII (The Confederation of Indian Industry)					
			• • •	ance Manufacturing processes, Computer		
				anufacturing, Computer Integrated Mfg.,		
				raulic control are discussed and approved		
		for 3rd and 4th year stude	•			
		·		y be blended with subject content of IC		
		·		e to keep the subject in line with latest		
		trends in industries.	-			
	•	Solid modelling: software	should be introd	uced in the earlier semester (may be as a		
		non-credit subject) before	student studies	CAD in semester 6.		
				_		
Agenda – 2	Review	and Revision of Teaching	Scheme			
Resolution	•	It is advised to swap ET &	FM in 3 <sup>rd</sup> and 4 <sup>th</sup>	semester.		



	Based on industrial feedback New subject Professional ethics is added to understand
	the organizational behaviour in industry.
	<ul> <li>Project based subject Human centric design approach is added to sem-4.</li> </ul>
	<ul> <li>Course of Value Education is introduced</li> </ul>
Agenda - 3	Proposed Attainment for Course Outcome
Resolution	<ul> <li>The CO attainment for the previous year was slightly less than the target set. Since university is in its nascent stage and students are not converse with the evaluation system, only few students were able to achieve more than 60% marks.</li> <li>CO attainment not completely achieved in subjects such as Fluid mathematics, Mechanics of solids and Engineering Mathematics-II. To improve the attainment percentages extra sessions and more tutorials are added in these subjects.</li> <li>It was decided by BOS member that the same target of 55% CO attainment is set for the 2017-18 academic year students.</li> </ul>
Agenda – 4	Feedback from Students, Teachers and Employers – participation of students in various Technical event
Resolution	Students are encouraged to participate in various events such as SAE-BAJA, Go-cart,
	ASME- HPVC and Funding also provided for the same
Agenda – 5	ASME- HPVC and Funding also provided for the same  Addition of Value added course in curriculum for skill development and increase the employability
Agenda – 5 Resolution	Addition of Value added course in curriculum for skill development and increase the
Resolution	Addition of Value added course in curriculum for skill development and increase the employability  Based on Feedback received from students and industries to practice brainstorming, critical thinking, application of scientific principle in the early stage of Design of product, a Design integrated course by Avesha introduced for odd semester students.
	Addition of Value added course in curriculum for skill development and increase the employability  Based on Feedback received from students and industries to practice brainstorming, critical thinking, application of scientific principle in the early stage of Design of product, a Design integrated course by Avesha introduced for odd semester



B	OS Committee members:	Signature				
M	Meeting attended by: External Experts					
1.	Dr. D. P. Vakhariya	Luce				
2.	Dr. Bharat Ramani	Burnel				
3.	Dr. S. B. Jadeja	Spodera				
4.	Mr. Anand Savaliya	Show				
Me	eting Attended by: Marwadi Unive	ersity				
1.	Dr. R. L. Jhala	hA				
2.	Dr. Sarang Pande	Sande				
3.	Dr. Nikunj Rachchh	JA-				
4.	Dr. Amit Sata	dea				
5.	Prof. Ramesh Bhoraniya	Ro				



		Annexure		
	B.Tech -	Year-2, Sem-3		
	Subject Code	Subject Name		
	01Cl0301	Mechanics Of Solids		
	01MA0201	Engineering Mathematics III		
	01ME0301	Fluid Mechanics		
	01ME0302	Kinematics of Machines		
A 1	01ME0303	Manufacturing Processes I		
Annexure-1	01CR0302	Professional Ethics		
	B.Tec	h - Year-2, Sem-4		
	Subject Code	Subject Name		
	01MA0271	Numerical Analysis		
	01ME0401	Machine Design & Industrial Drafting		
	01ME0402	Manufacturing Processes II		
	01ME0403	Material Science and Metallurgy		
	01ME0404	Engineering Thermodynamics		

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## Minutes of Meeting B.O.S. for B.Tech. Mechanical Engineering

<b>Date:</b> 29/05/20	018	Meeting No: 03			
Start Time: 10:00 AM		End Time: 01:00 PM		Total Time: 3:00 Hours	
Presented by		Prof. Ramesh Bhoraniya and Dr. Nikunj Rachchh			
Agenda – 1	1 Review of Curriculum structure and Course outcome of Mechanical Engineering for program				
Resolution	•	was taken from the committee The BOS committee suggest Manufacturing process- I subj Based on discussion with BOS Madras, SRM-Chennai, follow Engineering core courses such transfer, Dynamics of Machine Project based course - Rev management, Based on student feedback of the curriculum. From the feedback received f elective courses - Design Manufacturing process, etc. a BOS committee has suggested do interaction with industry p	e (Annexure ted changing ect. committee ting courses at as Fluid powerse engine festudents, and the indure added in odd conducting ersons and gersons are gersons and gersons and gersons and gersons and gersons and gersons and gersons are gersons and gersons and gersons and gersons and gersons are gersons and gersons and gersons and gersons and gersons are gersons and gersons are gersons and gersons and gersons are gersons and gersons and gersons are gersons and gersons are gersons and gersons and gersons are gersons are gersons are gersons are gersons are gersons and gersons are gersons	with reference to model curriculum of IITare included in the 3rd year curriculum wer engineering, MD-I & II, Heat and mass eering, Design engineering and project in Operational research course is added to astry cluster of Rajkot MSME Professional acturing, Computer graphics, Advance	
Agenda – 2	Review	and Revision of Teaching sch	eme		
Resolution				r 6 was discussed and approved by BOS  in 3rd sem and Mechanics of solid subject	
Agenda - 3	Propose	d Attainment for Course Out	come		
Resolution	The target for CO attainment was set to 55% and same was achieved for Mechanical Engineering.				



Agenda – 4	Review of Vision and Mission, PSO, PEO for Mechanical Engineering PG program				
Resolution	<ul> <li>Based on the feedback received from the different stakeholders, a draft is created and a few revisions are made to the statements of Vision and Mission in alignment with the university's Vision and Mission statements. (Annexure-2)</li> <li>Based on feedback received from different stakeholders a draft was created for PO, PSO and PEO and the same was presented among the BOS committee. Based on minor corrections given by the BOS committee following PSO and PEO were finalized. (Annexure-3)</li> </ul>				
Agenda – 5	Review of Curriculum structure and Course outcome of Mechanical Engineering for PG				
	program				
Resolution	<ul> <li>Syllabus and CO for 1<sup>st</sup> year subjects are discussed with BOS committee and approval was taken from the committee (Annexure-3)</li> <li>Contact hours for students should ideally be 25 to 30 hours per week.</li> <li>Percentage of continuous evaluation and end semester evaluation should either be 60:40 or 50:50 for theory and practical subjects.</li> <li>Passing criterion for theory and laboratory should ideally be 3:2:1 hours should be allowed for End semester, mid semester and internal evaluation examination.</li> <li>Based on discussion with the BOS committee and with reference to the model curriculum of AlCTE following courses are included in the 1st year curriculum.</li> <li>Courses based on advanced core subjects -Advanced Machine Design, Computer Aided Design, Computer Aided Manufacturing, Computer Aided Production Management, Finite Element Analysis, Optimization Techniques</li> <li>Courses based on Research Methodology</li> <li>Courses based on Critical thinking - Computational Methods in Mechanical Engineering</li> <li>Program elective- I- Advanced Material Processing Techniques, Design for Manufacturing and Assembly, Advanced Stress Analysis</li> <li>Program Elective- II- Oil Hydraulics and Pneumatics; Noise and Vibration, Multibody dynamics</li> <li>Based on discussion with the BOS committee and with reference to the model curriculum of reputed universities such as IIT-Madras, SRM-Chennai, VIT-vellore etc. Engineering core courses such Advanced Machine Design, Computer Aided Design, Finite Element Analysis, Computer Aided Manufacturing etc.</li> </ul>				
Agenda – 6	Addition of Value added course in curriculum for skill development and increase the				
	employability				
Resolution	Based on feedback received from various MSME industries and with reference to				
	report of industrial organization such as FICCI, CII to improve the industry oriented				



	skill and employability of students, value added course such as CNC/VMC, CAD club,			
	Automation are proposed and approved for 3rd and 4th year students.			
	<ul> <li>Following Two value aided courses are recommended for PG students of CAD/CAM in 1<sup>st</sup> and 2<sup>nd</sup> semester</li> </ul>			
	Numerical Methods using MATLAB & Robotics and AI			
Agenda – 7	Review of syllabus contents proposed.			
Resolution	<ul> <li>Provide tutorials of 2 hours in the courses Research Methodology, Computational methods for PG program of Mechanical Engg. for 1<sup>st</sup> year</li> </ul>			
Agenda – 8	Inclusion of state of art topics and contents suitable to the current and futuristic learning and development paradigms for the postgraduates.			
Resolution	Program Elective will offer in each semester to give inclination towards their interest.			
Agenda – 9	Suggestion on making the curriculum inclined towards industrial integration			
Resolution	For every tutorial 1 contact hour, 1 credit weightage to be given.			
	Allow to earn credits early and permit Dissertation work in industries.			
Agenda – 10	Any special points/ advise by members of Board of Studies			
	The BOS committee suggested introducing a minor group.			
Danalustiau	• It was suggested to have a minor in the field of Smart manufacturing, Mechanica			
Resolution	Engineering Design, Automation and Thermal Engineering in B.Tech.			
	Viva to be replaced by quiz, performance evaluation, and surprise test			



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BC	OS Committee members:	Signature				
Me	Meeting attended by: External Experts					
1.	Dr. D. P. Vakharia	Lune				
2.	Dr. Bharat Ramani	Bunn				
3.	Dr. S. B. Jadeja	Spadyas				
4.	Anand Savaliya	Star				
Me	Meeting Attended by: Marwadi University					
1.	Dr. Sarang Pande	Sande				
2.	Dr. Nikunj Rachchh	Ab				
3.	Dr. Amit Sata	due				
4.	Prof. Ramesh Bhoraniya	Pm3.				
5.	Dr. R. L. Jhala	h 1				
6.	Dr. Pinank Patel	Pep				



Annexure				
	B.Tech - Year-3, Sem-5			
	Subject Code	Subject Name		
	01ME0501	Dynamics of Machine-I		
	01ME0502	Fluid Power Engineering		
	01ME0503	Machine Design-1		
	01ME0504	Metrology		
	01ME050*	Programme Elective I		
	01CR0501	Business Benchmark		
	01ME0508	REVERSE ENGINEERING		
		me Elective 1		
	Subject Code	Subject Name		
	01ME0505	Power Plant Engineering		
	01ME0507	Design for Manufacturing		
	01ME0506	-		
Annexure-1	OTIVIEO300	Computer Graphics		
	B.Tec	h - Year-3, Sem-6		
	Subject Code	Subject Name		
	01ME0601	Dynamics of Machine –II		
	01ME0602	Heat and Mass Transfer		
	01ME0603	Machine Design-II		
	01ME0604	Operation Research		
	01ME060*	Programme Elective II  Design Engineering & Project Management		
	01ME0610 *Program	Design Engineering & Project Management me Elective 2		
	Subject Code	Subject Name		
	01ME0605	IC Engines & Automobiles		
	01ME0606	Design of Material Handling Equipment		
	01ME0607	Advance Manufacturing processes		
	<ul><li>Vision</li></ul>			
	To be recognized globally for quality education and enrich our society with dedicate			
	<ul><li>and competent engineers</li><li>Mission:</li></ul>			
		on: ring quality education to the graduates and enhancing their skills related to		
Annexure - 2		ent subjects offered		
		ate awareness of the current technologies by conducting regular industrial		
		training on latest technology and encouraging technical events		
		ake the graduates understand the impact of their work on society and		
	encou	rage ethical values		



	T				
	<ul> <li>To promote innovative ideas and utilize modern equipment &amp; tools to encourage research.</li> </ul>				
	<ul> <li>To motivate and prepare the graduates for higher education and competitive exams by conducting seminars, tests and mock interviews</li> </ul>				
	<ul> <li>Based on feedback received from different stakeholders a draft was created for</li> </ul>				
	PSO ar	nd PEO and the same was presented among the BOS committee. Based on			
	minor corrections given by the BOS committee following PO, PSO and PEO were finalized.				
	PSO1: Students will be able to apply principles of CAD and CAM in the field				
	engineering applications for research and development.				
	<ul> <li>PSO2: Students will be able to develop software for design and development in the</li> </ul>				
	field of	Mechanical Engineering.			
	• PEO:	Demonstrate sustained learning and adapt to the constantly changing			
	techno	logies through higher studies, professional development and self-study.			
	<ul> <li>Have t</li> </ul>	echnological skills, soft skills and social skills towards Industry readiness and			
	for cor	stribution to society.			
	Have professional ethics, good communication and leadership capabilities				
	continued success in life.				
	To promote next level education				
	M.Tech	- Year-1, Sem-1			
	Subject Code	Subject Name			
	01RM0101	Research Methodology			
	01CA0101	Computational Methods in Mechanical Engineering			
	01CA0102	Advanced Machine Design			
	01CA0103	Computer Aided Design			
	01CA0104 Advanced Material Processing Techniques				
Annexure - 3	Annexure - 3				
	M.Tech - Year-	1, Sem-2			
	Subject Code	Subject Name			
	01CA0201	Computer Aided Manufacturing			
	01CA0202	Computer Aided Production Management			
	01CA0203	Finite Element Analysis			
	01CA0204	Optimization Techniques			
	01CA0205	Oil Hydraulics and Pneumatics			

## **Minutes of Meeting**

### **B.O.S. for B.Tech. Mechanical Engineering**

Date: 29/05/2019		Meeting No: 04		1	
Start Time: 10:01 AM		<b>id Time:</b> 01:00 AM		Total Time: 3:00 Hours	
Presented by		Dr. Sarang Pande and Dr. R. M. Bhoraniya			
Agenda – 1	To finalize o	curriculum structure of	B.Tech Mechan	ical UG Program	
	•			are discussed with BOS committee and	
• Resolution		approval was taken from the committee (Annexure-1)  Experts suggested including polarized ray diagrams and measurement of stresses to be covered as practical in the subject of fundamental machine design.  Expert suggested to include the IS standard for design of mechanical components  Based on discussion with BOS committee and with reference to model curriculum of AICTE and with model curriculum of IIT-Madra, SRM-Chennai, following courses are included in the 4th year curriculum  Project based course - Project-I and II  Engineering core courses such as Finite element method, Rapid casting-1 & 2, Production technology  Professional elective courses - Computer aided process management, Renewable energy engineering, Data mining and analysis, CFD, AI, Robotics, etc.			
Agenda – 2		Curriculum structure a	and Course outo	come of Mechanical Engineering for PG	
Resolution	<ul> <li>Syllabus and CO for 2nd year subjects are discussed with BOS committee approval was taken from the committee. (Annexure-2)</li> <li>Based on discussion with BOS committee and with reference to model curriculur AICTE and with model curriculum of IIT-Madras, SRM-Chennai, following courses included in the 2nd year curriculum</li> <li>Rapid prototyping and Tooling. IoT for Manufacturing,</li> <li>Seminar in each semester.</li> <li>Dissertation Phase-I and Dissertation Phase-II</li> <li>Based on feedback received with various industries such as Bosch Automation, J CNC, Macpower and with reference to report of FICCI (The Federation of Indian Industries of Commerce &amp; Industry), CII (The Confederation of Indian Industries, Rapid prototyping and Tooling, IoT for Manufacturing, Pressure Ve and Piping Design, Micro and Nano Manufacturing.</li> </ul>			Annexure-2) and with reference to model curriculum of odras, SRM-Chennai, following courses are nufacturing,  e-II adustries such as Bosch Automation, Jyoti eport of FICCI (The Federation of Indian (The Confederation of Indian Industry) ering, Mechanics and Manufacturing of g, IoT for Manufacturing, Pressure Vessel	
Agenda – 3	Review and	Revision of syllabus			
Resolution	• Exp	•		ested the topic of recent manufacturing uring processes.	



	Expert suggested to increase weightage of marks for project-1 and project-2 in		
	semester-7 and semester-8		
Agenda - 4	Proposed Attainment for Course Outcome		
	The target for CO attainment was set to 57% and the same was achieved .		
Resolution	• It was decided by BOS members that a revised target of 59% for CO attainment is		
	set for 2019-20 academic year students.		
Agenda – 5	Introduction of course for skill development and employability		
Resolution	<ul> <li>Based on Industry survey, to promote on industry academic interaction and to improve employability a skill improvement program has been started with the industry tie up-under which Rapid casting-1 and Rapid casting-2 subjects are approved for 4th year students. In which student will learn following four different modules of manufacturing industries - (1) Rapid methodology in metal casting (2) Rapid Tooling in metal casting (3) Inspection and Quality control (4) Automation and</li> </ul>		
	Simulation		
Agenda – 6	Addition of Seminar in curriculum to spread awareness about latest technologies/new		
	research/Innovation		
Resolution	Based on Feedback received from students, industries and Research organizations		
	to start the dissertation phase, student should rigorously go through the literature		
	for one semester and present the report in seminar in M.Tech program.		
Agenda – 7	Feedback of Teacher, student and professional bodies		
Resolution	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.		
A manual in C	Annual and a state of a decision from a substant and a fine and a		
Agenda – 8	Any special points/ advise by members of Board of Studies		
Resolution	<ul> <li>Experts suggested to encourage students to use the online open learning platform I such as swayam, where students can learn basic and advanced NPTEL courses.</li> <li>Expert suggested to include case study for the subject of FEA, Data mining and analysis, Artificial intelligence</li> <li>Dissertation phase- I and II should have equal weightages in both semesters of M.Tech program</li> </ul>		

В	BOS Committee members: Signature		
M	Meeting attended by: External Experts		
1.	Dr. D. P. Vakhariya	Lum	
2.	Dr. B. M. Ramani	Burn	
3.	Dr. S. B. Jadeja	Spadett	
4.	Mr. Anand Savaliya	A.	
Μe	eeting Attended by: Marwadi Unive	ersity	
1.	Dr. R. L. Jhala	Ant +	
2.	Dr. Sarang Pande	Gande	
3.	Dr. Nikunj Rachchh	de	
4.	Dr. R. M. Bhoraniya	Rm3	
5.	Dr. Amit Sata	See	
ó.	Dr. Pinank Patel	Par	

		Annexure	
	B.Tech - Year-4, Sem-7		
	Subject Code	Subject Name	
	01ME0701	Finite Elements Method	
	01ME0702	Project-1	
	01ME0703	Rapid Casting :I	
	01ME07**	Prog.Elec.3	
	01ME07**	Prog.Elec.4	
	*Program	me Elective 3	
	Subject Code	Subject Name	
	01ME0711	Advanced Machine Design	
	01ME0721	Computer Aided Process Management	
	01ME0731	Ref. & Air conditioning	
	01ME0741	Pneumatic and Hydraulic control	
	*Programm	ne Elective 4	
	Subject Code	Subject Name	
	01ME1722	Data Mining and Analysis	
	01ME0732	Renewable Energy Engineering	
	01ME0742	Ref. & Air conditioning	
Annexure-1			
	B.Tec	h - Year-4, Sem-8	
	Subject Code	Subject Name	
	01ME0801	Production Technology	
	01ME0802	Project-II Project-II	
	01ME0803	Rapid Casting :II	
	01ME08** 01ME08**	Prog.Elec.5 Prog.Elec.6	
		ramme Elective 3	
	Subject Code	Subject Name	
	01ME0811	Design of Pressure vessels	
	01ME0821	Computer Integrated Mfg.	
	01ME0831	Steam and Gas Turbine	
	01ME0841	Robotics & FMS	
		ne Elective 4	
	Subject Code	Subject Name	
	01ME0812	Machine Tool Design	
	01ME0822	IOT for Manufacturing	
	01ME0832	Computational Fluid Dynamics	
	01ME0842	Artificial Intelligence	
	M.Tech - Year	<u> </u>	
Annexure-2	Subject Code	Subject Name	
	Subject Code	Subject Name	



01CA0301	Seminar
01CA0302	Dissertation Phase-I
01CA0305	Rapid prototyping and Tooling
	The process of the second seco
M.Tech - Year-2, Sem-4	
Subject Code	Subject Name
01CA0401	Seminar
01CA0402	Dissertation Phase-II
01CA0403	IoT for Manufacturing

## **Minutes of Meeting**

## **B.O.S. for B.Tech. Mechanical Engineering**

<b>Date:</b> May - 2020		Meeting No: 05	5 (online mode)	
Start Time: 02:00 PM End Tin		End Time: 04:00 PM		Total Time: 2:00 Hours
Presented by		Dr. Nikunj Rachchh		
Agenda – 1 Review of Curriculum structure and Cours		nd Course outco	ome of Mechanical Engineering for UG &	
Resolution		As per the expert's sugg	ering as per guid	
	•	and a few revisions are ma		different stakeholders, a draft is created M.tech curriculum.
Agenda – 2	Review	and Revision of syllabus	of UG	
Resolution	<ul> <li>Experts suggested to include basic concepts of Data mining and analysis</li> <li>The Experts suggested to remove civil engineering drawing detail study in the subjet of engineering drawing and engineering graphics.</li> <li>Review of contents of metacentric height analysis, elementary theory of notch and vertex flow analysis in Fluid mechanics subject</li> </ul>		neering drawing detail study in the subject aphics.  analysis, elementary theory of notch and	
Agenda – 3	Review	and Revision of syllabus	of PG	
Resolution	<ul> <li>Courses based on advanced core subjects – Advanced Thermodynamics and Heat transfer, Advanced Fluid Mechanics, Experimental Techniques and Instrumentation In Thermal Engineering, Computational Fluid Dynamics, Solar Energy Engineering, Design and Optimization of the Thermal Systems are included in program.</li> <li>Courses based on Research Methodology and based on Critical thinking i.e. Computational Method for Mechanical Engineers are included in teaching scheme</li> <li>Based on discussion with BOS committee and with reference to model curriculum of reputed universities such as IIT-Madras, SRM-Chennai, VIT-Vellore etc. Engineering core courses such Advanced Thermodynamics and Heat transfer, Advanced Fluid Mechanics Energy Conservation &amp; Management, Combustion Engineering, Advanced Refrigeration Engineering etc. are also included</li> <li>Program Elective will offer in each semester (annexure-1)</li> <li>Provide tutorials of 2 hours in the courses Research Methodology, Computational methods for Mechanical Eng. for 1st year.</li> </ul>			
Agenda - 4	Propose	ed Attainment for Course	Outcome	
Resolution		· ·	mbers that a revi	9% and the same was achieved. ised target of 60% for CO attainment is set



Agenda – 5	Suggestion on making the curriculum inclined towards industrial integration.
Resolution	For every tutorial 1 contact hour, 1 credit weightage to be given.
	Allow to earn credits early and permit Dissertation work in industries.
Agenda - 6	Proposed Value Aided Courses for M.Tech
	It was decided by BOS member that value aided courses will be offered for M.tech
Resolution	Students. Two courses proposed in meeting are Smart Manufacturing and Hands or
	Practice – Open foam.
Agenda – 7	Implementation of MOOC course
Resolution	<ul> <li>University has purchased bulk licenses of coursera courses, so under MILAP (Marwad</li> </ul>
	Integrated Learning & Analysis Programme) scheme free coursera courses are offered
	to students for improvement of their skill and knowledge.
Agenda – 8	Any special points/ advise by members of Board of Studies
Danalistias	Ethical practices and Plagiarism norms recommended by UGC/AICTE for the
Resolution	dissertation should be follow properly in M.tech program.



BC	OS Committee members:	Signature
Meeting attended by: External Experts		
1.	Dr. D. V. Bhatt	Dutt
2.	Dr. B. M. Ramani	Bung
3.	Dr. S. B. Jadeja	Spodeja
4.	Mr. Anand Savaliya	A
Me	eeting Attended by: Marwadi Unive	ersity
1.	Dr. R. L. Jhala	h + -
2.	Dr. Sarang Pande	Sande
3.	Dr. Nikunj Rachchh	LA
4.	Dr. R. M. Bhoraniya	Pma
5.	Dr. Amit Sata	De
6.	Dr. Pinank Patel	Fel

### **Annexure**

M.Tech - Year-1, Sem-1

Subject Code Subject Name

01RM0101 Research Methodology

01CA0101 Computational Methods in Mechanical Engineering

01CA01\*/01TH01\* Program Elective-I 01CA01\*/01TH01\* Program Elective-II 01CA01\*/01TH01\* Program Elective-III

\*Programme Elective-I

**Subject Code** Subject Name

01CA0102 **Advanced Machine Design** 

01TH0102 Advanced Thermodynamics and Heat Transfer

\*Programme Elective-II

01CA0103 Computer Aided Design 01TH0104 **Advanced Fluid Mechanics** 

\*Programme Elective-III

01CA0104 **Advanced Material Processing Techniques** 

01TH0106 Design of Heat Exchanger

### M.Tech - Year-1, Sem-2

### Annexure-1

Subject Code	Subject Name
01CA020*/ 01TH020*	Program Elective-I
01CA020*/ 01TH020*	Program Elective-II
01CA020*/ 01TH020*	Program Elective-III
01CA020*/ 01TH020*	Program Elective-IV
01CA020*/01TH020*	Program Elective-V

### \*Programme Elective-I

**Subject Code Subject Name** 

01CA0201 Computer Aided Manufacturing

01TH0201 Experimental Techniques and Instrumentation In Thermal Engineering

\*Programme Elective-II

**Subject Code Subject Name** 

01CA0202 **Computer Aided Production Management** 

Computational Fluid Dynamics 01TH0202

\*Programme Elective-III

Subject Code **Subject Name** 01CA0203 Finite Element Analysis 01TH0203 Solar Energy Engineering

\*Programme Elective-IV



**Subject Code Subject Name** 

01CA0204 **Optimization Techniques** 

01TH0204 Design and Optimization of the Thermal Systems

\*Programme Elective-V

**Subject Code Subject Name** 

Oil Hydraulics and Pneumatics 01CA0205

01TH0205 **Energy Conservation & Management** 

M.Tech - Year-2, Sem-3

**Subject Code Subject Name** 

01CA0301/01TH0301 Seminar-I

01CA0302/01TH0302 Dissertation Phase-I 01CA030\*/01TH030\* Program Elective-I

\*Programme Elective-I

**Subject Code Subject Name** 

01CA0305 Rapid prototyping and Tooling 01TH0304 **Exergy Analysis of Thermal Systems** 

M.Tech - Year-2, Sem-4

**Subject Code Subject Name** 

01CA0401/01TH0401 Seminar-II

01CA0402/01TH0402 Dissertation Phase-II 01CA040\*/01TH040\* program Elective-I

\*Programme Elective-I

Subject Code **Subject Name** 01CA0403 IoT for Manufacturing

01TH0404 Advanced Air conditioning Engineering

### **Minutes of Meeting**

## **B.O.S. for B.Tech. Mechanical Engineering**

<b>Date:</b> 19/06/20	021 Meeting No: 06 (online mode)				
Start Time: 11:	:00 AM End Time: 12:00 PM Total Time: 1 Hours				
Presented by	Dr. Pinank A Patel				
Agenda – 1	Review of Mechanical Engineering Department for Academic Year 2020-21				
	The Theory classes and lab with demonstration of experiments	online were			
Resolution	conducted during the last one year because of the pandemic.				
11000101011	The teaching & learning process in online mode during the particle.	ndemic was			
	appreciated.				
Agenda – 2	Teaching Scheme of Semester-I & Semester-II as per new UGC/AICTE Guideling				
	Course credits for engineering courses need to be revised to 160 credit to the course of the co	•			
	guidelines provided by UGC/AICTE. To comply with this following r	evisions are			
	approved by the BOS committee.				
	Semester - I and Semester - II teaching schemes are redesigned as per required to a seminary control to a	evised AICTE			
	guidelines.				
	<ul> <li>Teaching hours for students can be kept around 27 hours per week.</li> <li>Subjects with end semester exams should not be more than 5 per semester.</li> </ul>				
	<ul> <li>Subjects with end semester exams should not be more than 5 per seme</li> <li>The contact hours for laboratory sessions can be increased to ma</li> </ul>				
	proficient for industry.	ike students			
	<ul> <li>Revision in syllabus of 01ME1101 - Elements of Mechanical Engineering</li> </ul>	Resolution			
Resolution	01ME1102 Engineering Graphics and 01ME1104 - Mechanical V				
	approved.				
	<ul> <li>NCC is introduced with a teaching scheme of 1 hour theory and 2 hour</li> </ul>	s 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> <li>Value Education - Semester - I</li> </ul>				
	<ul> <li>Indian Constitution - Semester - I</li> </ul>				
	<ul> <li>Physical Education/Sports/Yoga - Semester - I</li> </ul>				
	o Professional Ethics – Semester - II				
<u> </u>					
Agenda - 3	Teaching Scheme of Semester-I & Semester-II as per new UGC/AICTE Guideline	s for M.Tech			
	<ul> <li>Course credits for engineering courses need to be revised to 66 credit</li> </ul>	ts as per the			
	guidelines provided by UGC/AICTE.				
Resolution	Semester - I and Semester - II teaching schemes are redesigned as per redesigned.	evised AICTE			
	guidelines. (Annexure-1)				
	Teaching hours for students can be kept around 20 to 22 hours per wee     Subjects with and semester exams should not be more than 5 per semester.				
	Subjects with end semester exams should not be more than 5 per seme	ડાલા.			



Resolution  Resolu		1		
Resolution  Resol		Revision in various subject syllabus carried out.		
Resolution  Resol				
In line with the guidelines of UGC/AICTE Audit course is proposed in Semester - I and Semester - II Following courses are discussed and proposed for the semester 01AU9001- English for Technical writings; 01AU9002- Value Education; 01AU9003- Constitution of India, 01AU9004- Stress Management by Yoga, 01AU9005- Sanskrit for Technical Knowledge. As per new scheme 1 open elective offer in PG degree program Student have flexibility to take their subjects of interest for enhance the knowledge. Any one open elective during their entire PG course.  Agenda - 3 Proposed Attainment for Course Outcome  The target for CO attainment was set to 60% and the same was achieved. It was decided by BOS members that a revised target of 60% for CO attainment is set for 2021-22 academic year students.  Agenda - 4 Introducing Creativity, Problem Solving and Innovation as a University Elective Subject  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  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  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 reports of 15 industries of various fields of Mechanical Engineering before completion of his/her graduation.	Agenda – 4	Review of syllabus for PG program		
The target for CO attainment was set to 60% and the same was achieved.  It was decided by BOS members that a revised target of 60% for CO attainment is set for 2021-22 academic year students.  Agenda – 4 Introducing Creativity, Problem Solving and Innovation as a University Elective Subject  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  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  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 reports of 15 industries of various fields of Mechanical Engineering before completion of his/her graduation.	<ul> <li>In line with the guidelines of UGC/AICTE Audit course is proposed in Ser Semester – II</li> <li>Following courses are discussed and proposed for the semester 01AU9 for Technical writings; 01AU9002- Value Education; 01AU9003- Constitution 01AU9004- Stress Management by Yoga, 01AU9005- Sanskrit for Knowledge.</li> <li>As per new scheme 1 open elective offer in PG degree program</li> <li>Student have flexibility to take their subjects of interest for enhance the</li> </ul>			
The target for CO attainment was set to 60% and the same was achieved.  It was decided by BOS members that a revised target of 60% for CO attainment is set for 2021-22 academic year students.  Agenda – 4 Introducing Creativity, Problem Solving and Innovation as a University Elective Subject  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  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  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 reports of 15 industries of various fields of Mechanical Engineering before completion of his/her graduation.	A	Beautiful State of St		
It was decided by BOS members that a revised target of 60% for CO attainment is set for 2021-22 academic year students.      Agenda – 4	Agenda - 3	•		
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	Resolution	<ul> <li>It was decided by BOS members that a revised target of 60% for CO attainment is set</li> </ul>		
Resolution  semester where interested students can choose as university elective course for 2 credits.  Agenda – 5  Resolution  Introduction of Indian Constitution Subject  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  Introducing NCC / NSS as a subject in the curriculum is appreciated.  Interest of 1 hour theory as mandatory course as per AICTE guidelines  Feedback from Members of Board of Studies  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 reports of 15 industries of various fields of Mechanical Engineering before completion of his/her graduation.	Agenda – 4	·		
Indian Constitution subject is introduced with a teaching scheme of 1 hour theory as mandatory course as per AICTE guidelines      Regenda – 6      Feedback from Members of Board of Studies	Resolution	<ul> <li>Creativity, Problem Solving and Innovation subject is to be offered in 4th, 6th or 8t semester where interested students can choose as university elective course for 2</li> </ul>		
Indian Constitution subject is introduced with a teaching scheme of 1 hour theory as mandatory course as per AICTE guidelines      Regenda – 6      Feedback from Members of Board of Studies	Agenda – 5	Introduction of Indian Constitution Subject		
<ul> <li>Introducing NCC / NSS as a subject in the curriculum is appreciated.</li> <li>The students can have flexibility to earn more credits during the semester based on the subjects offered.</li> <li>Experts suggested to make it mandatory for all students to visit and prepare reports of 15 industries of various fields of Mechanical Engineering before completion of his/her graduation.</li> </ul>	Resolution	Indian Constitution subject is introduced with a teaching scheme of 1 hour theory		
<ul> <li>The students can have flexibility to earn more credits during the semester based on the subjects offered.</li> <li>Experts suggested to make it mandatory for all students to visit and prepare reports of 15 industries of various fields of Mechanical Engineering before completion of his/her graduation.</li> </ul>	Agenda – 6	Feedback from Members of Board of Studies		
Note: Meeting was scheduled virtually on Google Meet.	Resolution	<ul> <li>The students can have flexibility to earn more credits during the semester based on the subjects offered.</li> <li>Experts suggested to make it mandatory for all students to visit and prepare reports of 15 industries of various fields of Mechanical Engineering before completion of</li> </ul>		
	Note: Meeting	was scheduled virtually on Google Meet.		



во	S Committee members:	Signature		
Meeting attended by: External Experts				
1.	Dr. D. V. Bhatt	Duktt		
2.	Dr. B. M. Ramani	Bung		
3.	Mr. Anand Savaliya	April		
4	Amit chotai	Acheti		
Me	eeting Attended by: Marwadi Unive	ersity		
1.	Dr. R. L. Jhala	A NEW YORK		
2.	Dr. Sarang Pande	Sande		
3.	Dr. Nikunj Rachchh			
4.	Dr. R. M. Bhoraniya	R		
5.	Dr. Amit Sata	Sor		
6	Dr. Pinank Patel	Paratel		

### **Faculty of Technology**

#### M.Tech - Year-1, Sem-1

#### Subject Code Subject Name

01CA11\*/01TH01\* Program Elective-I 01CA11\*/01TH01\* Program Elective-II 01CA11\*/01TH01\* Program Elective-III 01CA01\*/01TH11\* Program Elective-IV 01CA11\*/01TH11\* Program Elective-V 01CA11\*/01TH11\* Program Elective-V

010E900\* Open Elective 01AU900\* **Audit Course** 

### \*Programme Elective-I

### Subject Code Subject Name

01CA1101 Program Core-I (CAD)

01TH0102 Program Core-I (Advanced Heat Transfer)

#### \*Programme Elective-II

01CA1102 Program Core-II (AMD)

01TH0104 Program Core-II (Advanced Fluid Mechanics)

#### \*Programme Elective-III

01CA1103 Lab I: Program Core (CAD Lab)

#### Lab I: Program Core (Heat Exchanger Design) Annexure-1 01TH0106

#### \*Programme Elective-IV

01CA0104 Lab-II: Program Core (AMD Lab)

01TH1104 Lab-II: Program Core (Thermal Engg. Lab)

### \*Programme Elective-V

01CA1111 Computational Methods in Mechanical Engg.

01TH1111 Computational Methods in Mechanical Engineering

#### \*Programme Elective-VI

01CA1121 **Advanced Material Processing Techniques** 

01TH1121 Advanced Refrigeration Engineering

### M.Tech - Year-1, Sem-2

Subject Code	Subject Name
01CA020*/ 01TH020*	Program Elective-I
01CA020*/ 01TH020*	Program Elective-II
01CA020*/ 01TH020*	Program Elective-III
01CA020*/01TH020*	Program Elective-IV
01CA020*/ 01TH020*	Program Elective-V
01CA020*/ 01TH020*	Program Elective-VI
01SL1210	Research Methodology & IPR



### **Faculty of Technology**

\*Programme Elective-I

**Subject Code Subject Name** 

01CA1201 Program Core-III (CAM)

01TH1201 Program Core-III (Design and Optimizations of Thermal Systems)

\*Programme Elective-II

**Subject Code Subject Name** 

01CA1202 Program Core-IV (FEM)

01TH1202 Program Core-IV (Solar Energy Engg.)

\*Programme Elective-III

**Subject Code Subject Name** 

01CA1203 Lab III: Program Core (CAM Lab) 01TH1203 Lab III: Program Core (HVAC Lab)

\*Programme Elective-IV

**Subject Code Subject Name** 

01CA1204 Lab-IV: Program Core (FEM Lab)

01TH1204 Lab-IV: Program Core (Computational Fluid Flow & Heat Transfer Lab)

\*Programme Elective-V

**Subject Code Subject Name** 

01CA1211 Computer Aided Production Management

01TH1211 **Energy Conservation & Management** 

\*Programme Elective-VI

**Subject Code Subject Name** 01CA1221 **Optimization Techniques** 

01TH1221 **Computational Fluid Dynamics** 

# B. Tech Civil Engineering Faculty of Technology Marwadi University

# 1.1.2 Board of Studies meeting minutes

(Program revision)

# **Minutes of Meeting**

Date: 13/05/2017 Mee			Meeting No: 02	
Start Time: 10.30 AM		End Time: 02:30 PM		Total Time: 3 Hours
Presented by		Dr. Tarak Vora		
Agenda – 1	Welcon	ne of Board of Studies M	lember	
Resolutions	• Dr.	Tarak Vora, Professor &	Head, Civil Eng	gineering Department welcomed all
the distinguished BoS M BoS Member: Dr. B. J. Modasa; BoS Member: Member-Industry Exper  Introduction of invited members. Internal BoS Member: D Chirag Patel, Associate F  All the invited members		S Member: Dr. B. J. Shodasa; BoS Member: Dr. ember-Industry Expert: Ember-Industry Expert: Embers.  Bernal BoS Member: Dr. Andread Profesting Patel, Associate Profesting Invited members we	. Shah, Principal, Government Engineering College, Dr. S. V. Deo, Associate Professor, NIT, Raipur; BoS t: Er. Manish Doshi, Structural Consultant, Rajkot, BoS BoS Member was given by Dr. Tarak Vora to all BoS Dr. Ankur Bhogayata, Associate Professor & Head; Dr.	
			_	
Agenda – 2	+	tment of Member Secre		
Resolutions	Dr. Sidd	harth Shah was appointe	ed as member s	secretory for the Bos.
Agenda – 3		nation of Minutes on the property of the prope	•	and action taken report on
circulated to all members. Dr.			3. J. Shah and Dajor comment	eld on 06/06/2016 were already Or. S. V. Deo accept the minutes of from any member, the chairman
Agenda – 4	Review	of Civil Engineering Dep	artment for Ac	ademic Year 2016-17
Resolutions	<ul> <li>Dr. Ankur Bhogayata gave a brief presentation on various activities academics, teaching learning methodology, student participation in and non-technical events, students and faculty achievements du 2016-17.</li> <li>Since B. Tech Civil Engineering program had started in A.Y 2016-17 so have pass out from first year only.</li> <li>In the first year, courses are common for all branches of engine curriculum was designed in such a way that in all subjects students</li> </ul>		tion on various activities related to y, student participation in technical faculty achievements during A. Y. d started in A.Y 2016-17 so students or all branches of engineering and	

	practical approach with number of experimentations in labs and also improve their various skills.			
	their various skills.			
Agenda – 5	Teaching Scheme of B. Tech. in Civil Engineering and detailed syllabus of Sem-3 & Sem-4.			
	<ul> <li>Semester – 3 and Semester – 4 teaching schemes and detailed syllabus are presented and approved in BoS meeting with gross agreement of all member present.</li> <li>Teaching and evaluation scheme for second year is courses are finalized and reported for the final approval.</li> <li>Course structure for third and fourth year of B. Tech Civil Engineering Program was finalized and present in BoS.</li> <li>The course structure in terms of credits and academic level should be mapped with learning level according Bloom's Taxonomy for all semesters.</li> <li>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.</li> <li>Following subjects are introduced in semester 3 and 4.</li> </ul>			
Resolutions	Semester Subject Code Subject Title  01MA0201 Engineering Maths-III  01Cl0301 Mechanics of Solids  01Cl0302 Building Planning & Drawing  3 01Cl0303 Surveying  01Cl0304 Fluid Mechanics  01Cl0305 Software Applications in Civil Engineering-I  01CR0301 Career Readiness Programme			
	01VE400 Entrepreneurship & Engineering Ethics 01Cl0401 Civil Engineering Materials & Construction 01Cl0402 Structural Analysis-1 4 01Cl0403 Basics of Geology & Geotechnical Engineering 01Cl0404 Advanced Surveying 01Cl0405 Concrete Technology 01Cl0406 Software Applications in Civil Engineering-II			
Agenda – 6 Discussion and approval of minor changes in syllabus.				
Resolutions	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 1 <sup>st</sup> year courses.			

		Subject Code	Subject Title		
	0:	1SL0102	Reading and Writing for Technology		
		1SL0103	Speaking and Presentation Skills		
				l	
	1				
Agenda – 7	Discussion and app	proval of sk	ill-based/ humanity-based courses in th	ne coming year.	
Resolutions	<ul> <li>In each se</li> </ul>	mester hu	manity or skill based course are introdu	iced viz. career	
	readiness	program,	entrepreneurship engineering & et	thics, business	
	benchmar	rk.			
	T				
Agenda – 8			eived from students, faculties, paren		
		ing teachir	ng-learning process in order to review	and design the	
	syllabus.	f A V 2016	47 have been discussed with the state	-   -   -   -	
	,		<ul><li>-17 have been discussed with the stake ing student/faculty/employee/alumn</li></ul>		
Resolutions			e collected from them for academic pr	• •	
	1	•	conected from them for academic pr	Ovision in new	
	semester courses.				
Agenda – 9	enda – 9 Any other matter with the permission of the Chair.				
	Couse outcomes for all the courses of 1st and 2nd year, Program outcomes and				
	Program-specific of	outcome w	as discussed in detail.		
	The following high	nlights wer	e discussed/appreciated by the membe	ers.	
			each subject should map effectively v	with respective	
			program-specific outcomes.		
			ment is less than 50% which is not a		
	target attainment. Modification in teaching-learning process is suggested.				
Noto, Mastin	و المارية و المارية و المارية و المارية و	sically at A	ADOC 2		
	was scheduled phy	-		University	
Meeting Attended By: External Experts  1. Dr. B. J. Shah			Meeting Attended By: Marwadi  1. Dr. Tarak Vora	Oniversity	
2. Dr. S. V. Deo			2. Dr. Ankur Bhogayata		
2. 5 5.			3. Dr. Siddharth Shah		
Meeting Atter	nded By: Industry Ex	kpert .	4. Dr. Chirag Patel		
_	nish Doshi	•			

# **Faculty of Technology**

# Department of Civil Engineering

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

Sr. No.	Name	Designation	Sign
1	Dr. Shirish V. Deo	Member – BOS	13.5.17
2	Dr. B. J. Shah	Member – BOS	John
3	Mr. Manish V. Doshi	Member – BOS	Parallo
4	Dr. Ankur Bhogayata	Member – BOS	<b>₽</b> ✓
5	Dr. Tarak Vora	Member – BOS	Jin
6	Dr. Siddharth Shah	Member – BOS	611
7	Dr. Chiragbhai Patel	Member – BOS	Cirleda



# **Minutes of Meeting**

Date: 07/04/2018			Meeting No: 03		
Start Time: 10.30 AM End Ti		<b>End Time:</b> 01:30 PM		Total Time: 3 Hours	
Presented by		Dr. Tarak Vora			
Agenda – 1	Welcom	ne of Board of Studies M	lember		
Resolutions	the		mbers. Introduc	ineering Department welcomed all ction of invited BoS Member was s.	
	Мс	odasa; BoS Member: Dr.	S. V. Deo, Ass	Government Engineering College, ociate Professor, NIT, Raipur; BoS, Structural Consultant, Rajkot, BoS	
	Invited BoS Member: Dr. A.K. Varma, Professor & Head, BVM Engineering College, V.V.Nagar; Dr. Yogesh Shah, Associate Professor, IITRAM, Ahmedabad				
	Internal BoS Member: Dr. Ankur Bhogayata, Associate Professor & Head; Dr. Siddharth Shah, Professor & Head; Prof. Mazhar Dhankot, Assistant Professor				
	All the invited members were welcomed by all BoS Members.				
All the faculty members     Vora.			esent in the Bo	S-03 were welcomed by Dr. Tarak	
Agenda – 2	Confirm	nation of Minutes (	of Meeting	and action taken report on	
Agenua – 2			•	and action taken report on	
circulated to all members. Dr.			ting no. 02 he B. J. Shah and D ajor comment	eld on 13/05/2017 were already or. S. V. Deo accept the minutes of from any member, the chairman	
Agenda – 3	Review	of Civil Engineering Dep	artment for Ac	ademic Year 2017-18	
Resolutions	act ach tec	ivities related to acade nievements, participation hnical and non-technica J-Fest event is organi	mic performand n in FDP/STTP/\ l events A. Y. 20 zed in year 2	2017-18. Majority students have	
	par	ticipated in various tech	nical and non-to	echnical events.	

Agenda – 4	Teaching Scheme of B. Tech. in Civil Engineering and detailed syllabus of Sem-5 & Sem-6.			
	<ul> <li>presented a</li> <li>Teaching a and reporte</li> <li>Course struwas finalize</li> <li>Introduction is introduced</li> <li>Department specialization</li> </ul>	and approved in and examination ed for the final and cture for the fored and presented in of mini projected in semester 3 at professional eleman.	scheme for the third year is courses are finalized pproval.  urth year of the B. Tech Civil Engineering Program I in BoS.  named Project-based community services (I to IV)	
	Semester	Subject Code	Subject Title	
	Semester	<u> </u>		
		01Cl0501	Hydrology and Water Resource Management	
		01Cl0502 01Cl0503	Structural Analysis - II	
Resolutions			Highway Engineering	
l		01Cl0504 01Cl0505	Environmental Engineering	
	5		Software Applications in Civil Engineering - III	
		01Cl0506	Project Based on Community Services - III  Business Benchmark	
		01CR0501		
		01Cl0507	Environmental Pollution	
		01Cl0508	Disaster Management	
		01Cl0509	Traffic Engineering	
		01Cl0601	Transportation Engineering	
		01Cl0602	Elementary Design of Structures	
		01Cl0603	Advanced Geotechnical Engineering	
	6	01Cl0604	Professional Practice & Valuation	
		01Cl0605	Construction Technology & Safety Engineering	
		01Cl0606	Software Applications in Civil Engineering - IV	
		01Cl0607	Project Based on Community Services - IV	
		01Cl0608	Energy Science & Engineering	
	ı			
Agenda – 5	Discussion and approval of M. Tech. in Civil Engineering teaching scheme and detailed syllabus of Sem-I & Sem-II.			
Resolutions	<ul> <li>New Program M.Tech in Civil Engineering with Specialization in Structural Engineering, Transportation Engineering and Geotechnical Engineering is introduced in this Academic year.</li> </ul>			

- Teaching schemes for M. tech Civil Engineering is proposed & detailed syllabus of 1<sup>st</sup> and 2<sup>nd</sup> 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				
	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				
1	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				
	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				
2	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> <li>In place of Engineering Mathematics-1 &amp; Engineering Mathematics-II, the course of Differential and Integral Calculus (DAIC) and Matrix Algebra and Vector Calculus (MAVC) are implemented</li> <li>In place of Career Readiness Program, Revised course of Value Education is introduced</li> <li>As per the feedback received by the students in the previous academic year, more practical subjects are introduced. The revised courses, Material Testing &amp; Evaluations (MTE), Advanced Surveying &amp; Geomatics (AS&amp;G), and Software Application in Civil Engineering-II (SACE-II).</li> <li>The subject name was suggested to be changed for Maths-3 with Applied Differential Equations (ADE).</li> <li>The course Entrepreneurship &amp; Engineering Ethics is revised as Profession Ethics in 4<sup>th</sup> semester.</li> </ul>		
Agenda – 7	Discussion and approval of proposed open elective courses		
Resolutions	Open elective subject Energy Science and Engineering is proposed in semester 6.		
Agenda –8	Discussion and approval of proposed value-added courses		
Resolutions	<ul> <li>Learning and Development department would be offering SPT and SIG programs designed for the overall development of the student.</li> <li>Onsite training on Field Testing in Geotechnical Engineering to be given to students.</li> </ul>		
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.		
Syllabus of A.Y 2017-18 have been discussed with the stakehold department including student/faculty/employee/alumni/pare necessary inputs are collected from them for academic procourses.			
Agenda – 10	Any other matter with the permission of the Chair.		
Resolutions	Couse outcomes for all the courses of 1 <sup>st</sup> and 2 <sup>nd</sup> year, Program outcomes and Program-specific outcome was discussed in detail.  The following highlights were discussed/appreciated by the members.		



# Faculty of Technology Department of Civil Engineering

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

- 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**

1. Dr. B. J. Shah

2. Dr. S. V. Deo

### **Meeting Attended By: Industry Expert**

1. Er. Manish Doshi

#### **Meeting Attended By: Marwadi University**

- 1. Dr. Tarak Vora
- 2. Dr. Ankur Bhogayata
- 3. Dr. Siddharth Shah
- 4. Prof. Mazhar Dhankot

Sr. No.	Name	Designation	Sign
1	Dr. Shirish V. Deo	Member – BOS	Deo
2	Dr. B. J. Shah	Member – BOS	30am
3	Mr. Manish V. Doshi	Member – BOS	Processo
4	Dr. Ankur Bhogayata	Member – BOS	P
5	Dr. Tarak Vora	Member – BOS	Jm
6	Dr. Siddharth Shah	Member – BOS	61
7	Prof. Mazhar Dhankot	Member – BOS	8



# **Minutes of Meeting**

decisions/suggestions of the previous BoS.  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  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 &	<b>Date:</b> 24/05/2	019		Meeting No: 0	4
Agenda – 1  Resolutions  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-04 were welcomed by Dr. Tarak Vora.  Agenda – 2  Appointment of Member Secretory  Resolutions  Prof. Kunal P. Shukla was appointed as member secretory for the BoS.  Agenda – 3  Confirmation of Minutes of Meeting and action taken report or decisions/suggestions of the previous BoS.  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 chairmar 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.  Resolutions  Resolutions  Teaching Scheme of B. Tech. in Civil Engineering and detailed syllabus of Sem-VII & Agenda – 5  Teaching Scheme of B. Tech. in Civil Engineering and detailed syllabus of Sem-VII & Agenda – 5  Teaching Scheme of B. Tech. in Civil Engineering and detailed syllabus of Sem-VII & Agenda – 5	Start Time: 10	.30 AM	End Time: 01:00 PM		Total Time: 2.5 Hours
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	• Semester – VII and Sel proposed.	mester – VIII teaching schemes are designed and
	proposeu.	
	Subject Code	Subject Title
	01Cl0701	Design of Concrete Structure
	01Cl0702	Irrigation Engineering
	01Cl0703	Construction Project Management
	01Cl0704	Project - I
	01Cl0705	Earthquake Engineering
	01Cl0706	Smart Cities
	01Cl0707	Modern Transportation Systems
	01Cl0707	·
Resolutions		Environment Impact Assessment
	01Cl0801	Foundation Engineering
	01Cl0802	Design of Steel Structure
	01Cl0803	Project - II
	01Cl0804	Advanced Structural Analysis
	01Cl0805	Rehabilitation & Retrofitting of Structures
	01Cl0806	Bridge Engineering
	01Cl0807	Solid Waste Management
	01Cl0808	Sustainable Building Technologies
	01Cl0809	Prestressed Concrete Technology
	01Cl0810	Infrastructure Engineering & Management
	01Cl0811	Design of Formwork
	01Cl0812	Masonry Structures
	<u> </u>	
Agenda – 6	Teaching Scheme of M. Te	ch. in Civil Engineering and detailed syllabus of
_	Sem-III & Sem-IV.	
	M.Tech in Civil Enginee	ring with Specialization in Structural Engineering,
Resolutions		ng and Transportation Engineering, Semester – III and
	Semester – VI teaching	schemes are designed and proposed.
	The number of Progra	m Elective Courses are offered to give more liberty
	students to gain knowle	edge as per their choice.
	Subject Code	Subject Title
	01ST0301	Major Project -1
	01ST0302	Seminar
	01ST0303	Analysis of Laminated Composite Plates
	01ST0304	Design of Prestressed Concrete Structures
	01TR0303	Airport System Planning and Design
	01TR0304	Transportation Facility Design
	01GT0301	Environmental Geotechniques  Major Project 2
	01ST0401 01ST0402	Major Project -2 Seminar
	013T0402 01ST0403	Fracture Mechanics of Concrete Structures
	01ST0404	Design of Plates and Shells
	52510101	Design of Fraces and Strens



# Faculty of Technology Department of Civil Engineering

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

		nutes of Meeting - Board of Studies A.Y. 2019-20		
	01TR0403	Soft Computing Techniques		
	01TR0404	Pavement Management System		
	01GT0401	Soil Structure Interaction		
Accords 7	Diamaian and annual of a			
Agenda – 7	<u> </u>	proposed value-added courses		
		shop/ FDPs are planned for upcoming academic year.		
	SPT and SIG are plant	ned for each semester by L&D department.		
	<ul> <li>Field Testing Training is proposed for UG and PG students.</li> </ul>			
Resolutions	<ul> <li>Software hands on t</li> </ul>	raining is proposed to BOS member at various level of		
	students based on th	ne application of software.		
	<ul> <li>Students will partici</li> </ul>	pate in different technical and non-technical national		
	events.			
Agondo 0	Discussion on foodbook rose	ived from the students foculties requests and industry.		
Agenda – 8		ived from the students, faculties, parents and industry earning process in order to review and design the		
	syllabus.	carring process in order to review and design the		
	• •	nd detailed syllabus are proposed in A.Y. 2018-19 have		
		th the stakeholders of the department including		
Resolutions		oloyee/alumni/parents and necessary inputs are		
	collected from them for academic improvisation.			
	concecca ir om them	Tor deductine improvisation		
Agenda – 9	Any other matter with perm	ission of the Chair.		
	<ul> <li>Course outcomes of</li> </ul>	final year subjects are presented with its mapping with		
	PO and PSO.	PO and PSO.		
	<ul> <li>Course attainment for A.Y 2018-19 is analyzed. As a result of analysis, the</li> </ul>			
	average attainment of all the courses of 2018-19 year is not attained			
Resolutions	compared to target a	attainment. The Course outcome which are not attained		
	for each subjects, f	or that changes in methodology in teaching-learning		
	process is suggested.			
	<ul> <li>As per the suggestio</li> </ul>	n of the BOS members, The subject based site visit for		
	majority subjects sho	ould be increase.		
Note: Meeting	g was scheduled at MB050-Dep	partmental library.		
Meeting Atter	nded By: External Experts	Meeting Attended By: Marwadi University		
1. Dr. B.	•	Dr. Tarak Vora		
2. Dr. S. V		2. Dr. Ankur Bhogayata		
2. 01.3.	500	3. Dr. Siddharth Shah		
Meeting Atter	nded By: Industry Expert	5. Dr. Siddilartii Silari		
_	anish Doshi			
I. IVII. IVI	annan Duam			
<u> </u>				



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



# **Minutes of Meeting**

Date: 04/05/2020 Meeting No: 05			95	
Start Time: 10		End Time: 01:30 PM		Total Time: 3.0 Hours
Presented by		Dr. Tarak Vora		
•				
Agenda – 1	Welcon	ne of Board of Studies N	/lember	
Resolutions	the Bot Mo Me Raj	e distinguished BoS Men S Member: Dr. B. J. S odasa; BoS Member: Dr ember-Industry Expert: kot.	nbers. hah, Principal, of S. V. Deo, Ass Er. Manish Dos	ineering Department welcomed all Government Engineering College, ociate Professor, NIT, Raipur; BoS hi, Veteran Structural Consultant, given by Dr. Tarak Vora to all BoS
	<ul> <li>members.</li> <li>Invited BoS Member: Dr. A.K. Varma, Professor &amp; Head, BVM Engineering College, V.V.Nagar, Dr. Yogesh Shah, Associate Professor, IITRAM, Ahmedabad</li> <li>All the invited members were welcomed by all BoS Members.</li> <li>All the faculty members present in the BoS-05 were welcomed by Dr. Tarak Vora.</li> </ul>			ate Professor, IITRAM, Ahmedabad y all BoS Members.
Agenda – 2	Appoint	tment of Member Secre	etorv	
Resolutions				per secretory for the BoS.
	<u> </u>	<u> </u>		,
Agenda – 3	Confirm decision	nation of Minutes ns/suggestions of the p	•	and action taken report on
Resolutions	<ul> <li>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.</li> </ul>			
Agenda – 4	Review	of Civil Engineering De	partment for Ac	ademic Year 2019-20
Resolutions	<ul> <li>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.</li> <li>The teaching &amp; learning process adopted in online mode during the pandemic is appreciated by reviewing syllabus coverage and student feedback.</li> </ul>			

# Faculty of Technology Department of Civil Engineering

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

	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	Member	g are the minor changes was proposed in the control of the control	,	
Agenda – 6 Resolutions	<ul> <li>Discussion and approval of proposed value-added courses</li> <li>One value added course will be offered by MU-IIR center based on research activities.</li> <li>Various faculty development programs, Short term Training programs and workshops are planned for students and faculties.</li> </ul>			
Agenda – 7	Discussion at	nd approval for inclusion of new MO	OC courses proposed by the	

	semester. Syll Learning of th	Two MOOC courses from COURSERA are proposed to the students of 4 <sup>th</sup> and 6 <sup>th</sup> 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 (%)		
Resolutions	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				ties, parents, alumni and r to review and design the		
	Teaching school	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.					
	Average CO-PO attainment was achieved and  Then, the forum was kept open for the discussion and suggestion. Following highlights were discussed/appreciated by the members.  • 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					
	offere	offered to meritorious students.				

Note: Meeting was scheduled virtually on Google Meet.

students.

industry requirement can be filled.

Additional option to earn minor degrees can be given to meritorious

Practical assignment shall be given to the students so that the gap as per

Introduction of NCC/NSS as a course in curriculum is appreciated.

# Faculty of Technology Department of Civil Engineering

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

### **Meeting Attended By: External Experts**

- 1. Dr. B. J. Shah
- 2. Dr. S. V. Deo
- 3. Dr. A. K. Verma
- 4. Dr. Yogesh Shah

### **Meeting Attended By: Industry Expert**

1. Er. Manish Doshi

### **Meeting Attended By: Alumni Member**

1. Er. Harsh Sanghvi

### **Meeting Attended By: Marwadi University**

- 1. Dr. Tarak Vora
- 2. Dr. Ankur Bhogayata
- 3. Dr. Siddharth Shah
- 4. Prof. Amit Thoriya

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**

<b>Date:</b> 29/06/2	021		Meeting No: 0	06	
Start Time: 11		End Time: 02:30 PM		Total Time: 3.5 Hours	
Presented by		Dr. Tarak Vora			
	51. Tarak void				
Agenda – 1	Welcom	ne of Board of Studies I	Member		
Resolutions	Dr. Tarak Vora, Professor & Head, Civil Engineering Department welcomed all				
	the distinguished BoS Members.				
		o .		Government Engineering College,	
	Мс	dasa; BoS Member: D	r. S. V. Deo, Ass	ociate Professor, NIT, Raipur; BoS	
	Me	mber-Industry Expert:	Er. Jayant Lakhla	ani, Veteran Structural Consultant,	
	Raj	kot, BoS Member-Alum	ni: Er. Harsh Sar	nghvi.	
			S Member was	given by Dr. Tarak Vora to all BoS	
		mbers.			
			-	ofessor & Head, BVM Engineering	
	Col	lege, V.V.Nagar; Dr. Yog	gesh Shah, Associ	iate Professor, IITRAM, Ahmedabad	
	- 411	*h-a :':*h-a-da-d-a-d-a-d-		u all DaC Marahara	
	All the invited members were welcomed by all BoS Members.			y all Bos Members.	
	• All	the faculty members n	resent in the Bo	S-06 were welcomed by Dr. Tarak	
	<ul> <li>All the faculty members present in the BoS-06 were welcomed by Dr. Tarak Vora.</li> </ul>				
	voia.				
Agenda – 2	Appoint	ment of Member Secre	etory		
Resolutions	Prof. An	nit Thoriya was appoint	ed as member se	ecretory for the BoS.	
	JI				
Agenda – 3	Confirm	ation of Minutes	of Meeting	and action taken report on	
	decision	ns/suggestions of the p	revious BoS.		
Resolutions	The mi	nutes of previous me	eting no. 05 he	eld on 04/05/2020 were already	
	circulate	ed to all members. Sind	ce there was no	comment from any member, the	
				B. J. Shah proposed the minutes to	
	be accepted. Dr. S. V. Deo gave acceptance subsequently. The minutes were then				
	accepted.				
	T -				
Agenda – 4	Review of Civil Engineering Department for Academic Year 2020-21				
	Dr. Tarak Vora gave a brief presentation on various activities related to				
	academics, student development, faculty development, research			, ,	
Resolutions		nsultancy done by the d	-		
			· ·	n online mode during the pandemic	
	is a	ppreciated by reviewin	g syllabus covera	age and student feedback.	

# Faculty of Technology

Department of Civil Engineering

Minutes of Meeting - Board of Studies A.Y. 2021-22

	Demonstration of appreciated specific	experimentation in online mode in various labs cally.		
Agenda – 5	Teaching Scheme of B. 7 Sem-II.	Tech. in Civil Engineering and detailed syllabus of Sem-I		
	<ul> <li>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.</li> <li>Number of Program Elective Courses and Open Elective Courses are increased to give more liberty to students to gain knowledge as per their choice.</li> <li>Either project or field/industry training is to be given in final semester.</li> <li>NCC is introduced with teaching scheme of 1 hour theory and 2 hour laboratory for 2 credit course in Semester – I and Semester – II.</li> <li>The student who opt for NCC will be given exemption from below mentione courses.</li> <li>Value Education – Semester – I</li> <li>Indian Constitution – Semester – I</li> <li>Physical Education/Sports/Yoga - Semester – I</li> <li>Professional Ethics – Semester – II</li> </ul>			
	Subject Code Subject Title			
	01MA2101	Differential and Integral Calculus		
Resolutions	01Cl1101	Elements of Civil Engineering		
	01ME1101	Elements of Mechanical Engineering		
	01GS2101	Engineering Physics		
	01SL0102/	Reading writing for Technology/ Speaking &		
	01SL0103	Presentation Skills		
	01EN1101	Basics of Environmental Studies		
	01CR1103 01GS0103	Value Education		
	01GS0103 01AU0101	Indian Constitution  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		



Agenda – 6	Teaching Scheme of M. Tech. Civil Engineering (Structural Engineering) and					
	detailed syllabus of Sem-I & Sem-II.					
	<ul> <li>Semester – I and Semester – II teaching schemes are redesigned as per revised</li> </ul>					
	AICTE guidelines.					
	Total course credits for Civil Engineering Course to be revised to 68 credits					
	per the guidelines provided by AICTE.					
	• Number of Program Elective Courses and Open Elective Courses are increas					
	to give more liberty to students to gain knowledge as per their choice.					
	Subject Subject Title					
	Code					
	01ST2101 Advanced Concrete Design					
	01ST1102 Advanced Structural Analysis					
	01ST1106 Computer Application in Structural Engineering-I					
	01ST1107 Material Testing Lab					
	01ST1108 Application of Numerical & Statistical Methods in					
	Structural Engineering					
	01ST1109 Optimization Techniques					
	01ST1110 Advanced Solid Mechanics					
Resolutions	01ST1111 Design of Prestressed Concrete Structures					
	01ST1112 Design of Masonry Structures					
	01ST1113 Design of Bridge					
	01ST1201 Advanced Steel Design					
	01ST2202 Structural Dynamics					
	01ST1207 Computer Application in Structural Engineering-II					
	01ST1208 Experimental Techniques in Structural Engineering					
	01ST1209 Design of Tall Structures					
	01ST1210 Blast Resistant Design of Structure					
	01ST1211 Advanced Design of Foundation					
	01ST1212 Structural Health Monitoring & Retrofitting of Structures					
	01ST1213 Design of Offshore Structures					
	01ST1214 Design of Fiber Reinforced Composite Structures					
	01ST1215 Design of Industrial Structures					
	01SL1210 Research Methodology & IPR					
Agenda – 7	Teaching Scheme of M. Tech. Civil Engineering (Transportation Engineering )and					
	detailed syllabus of Sem-I & Sem-II.					
Resolutions	Semester – I and Semester – II teaching schemes are redesigned as per revised					
Resolutions	AICTE guidelines.					

- Total course credits for Civil Engineering Course to be revised to around 68 credits as per the guidelines provided by UGC/AICTE.
- Number of Program Elective Courses and Open Elective Courses are increased to give more liberty to students to gain knowledge as per their choice.

Subject	Subject Title		
Code			
01TR0106	Urban Mass Transit System		
01TR2102	Traffic Engineering		
01TR0107	Traffic Engineering Field Studies		
01TR0108	Computer Aided Design in Transportation Engineering		
01TR0109	Application of Numerical & Statistical Methods in		
	Transportation Engineering		
01TR0110	Economics and Evaluation of Transportation Projects		
01TR1103	Rail Transportation System Planning and Design		
01TR0111	Highway Geometric Design		
01TR0112	Planning , Design and construction of Rural Roads		
01TR1105	Environment Impact Assessment of Transportation Project		
01TR1201	Pavement Design & Maintenance		
01TR1202	Road Safety Audit		
01TR0207	Pavement Engineering Lab - Flexible pavement		
01TR0208	Pavement Engineering Lab - Rigid pavement		
01TR1203	Traffic Flow Theory		
01TR0209	Transportation System Management		
01TR0210	Public Transportation Planning		
01TR0211	Transportation Facility Design		
01TR1205	Advance Highway Material and Construction		
01TR0212	Regional and Mass Transportation System Planning		
01SL1210	Research Methodology & IPR		

Agenda – 8	Teaching Scheme of M. Tech. Civil Engineering (Geotechnical Engineering) and			
	detailed syllabus of Sem-I & Sem-II.			
Resolutions	<ul> <li>Semester – I and Semester – II teaching schemes are redesigned as per revised AICTE guidelines.</li> <li>Total course credits for Civil Engineering Course to be revised to around 68 credits as per the guidelines provided by UGC/AICTE.</li> <li>Number of Program Elective Courses and Open Elective Courses are increased to give more liberty to students to gain knowledge as per their choice.</li> </ul>			

	Subject Code	Subject Title			
	01GT1102	Advanced Soil Mechanics			
	01GT1102 01GT1103	Advanced Foundation Engineeri	ing		
	01GT1103 01GT1107	Lab - I (Soil Mechanics)	IIIB		
	01GT1108	Lab - II ( Highway Material Testi	<u>.</u>		
	01GT2104	''	Statistical Methods in		
	01070100	Geotechnical Engineering			
	01GT0109	Critical Soil Mechanics			
	01GT0110	Unsaturated Soil Mechanics			
	01GT1105	Pavement Engineering			
	01GT1106	Rock Mechanics			
	01GT0111	Offshore Geotechnical Engineer	ring		
	01GT1201	01GT1201 Ground Improvement Technique			
	01GT1202	Soil Dynamics & Earthquake eng	gineering		
	01GT0207	lab - III ( Sub Surface Investigation	on)		
	01GT0208	lab - IV (Computer Application in	lab - IV (Computer Application in Geotehnical Engineering)		
	01SL1210	Research methodology and IPR			
	01GT1206	Earth & Rockfill dams  Earth Retaining Structures  Subsurface Investigation and Instrumentation			
	01GT0209				
	01GT0210				
	01GT1204	Geosynthetics and Its Application	Geosynthetics and Its Application		
	01GT0211	Forensic Geotechnical Engineer	ing		
Agenda – 9	Discussion and a	oproval of minor changes in syllab	us of various courses of UG &		
	PG.				
	upto 4 <sup>th</sup> sem	syllabus of Mathematics is done a ester.  Ilabus of 01Cl0101—Elements of Cl			
	Subject Su Code	bject Title	Remarks		
		ements of Civil Engineering	Brief introduction of the development of smart cities and construction projects added in module -		
	01MA2101 Di	fferential and Integral Calculus	Vector differential calculus     and Vector Integral		

			calculus are changed from	
			semester 2 to semester 1.	
01MA010	)3	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 preengineered 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.

Agenda – 10

only.

# Faculty of Technology Department of Civil Engineering

Minutes of Meeting - Board of Studies A.Y. 2021-22

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 methodolog and skills module i modified.
Л.Tech Civil Eng	gineering (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 analysi 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 so and analysis of SDO system was introduced.
01GT1206	Earth & Rockfill dams	Graphical method o earthfill dam wa introduced
01GT1204	Geosynthetics and Its Application	Experimentations of Geosynthetics has been introduced.
01SL1210	Research Methodology & IPR	Research methodolog and skills module i modified.
iscussion and a	approval of proposed open elective co	urses

	have withir offere depar • For N	to opt any two such n 3 <sup>rd</sup> to 6 <sup>th</sup> semester. ed from any departr tment.	open elective subjective subjective students are given on the universe, student have to	e teaching scheme, student ects and have to complete choice to select any subject versity other than its own choose 2 audit course and ester.
Agenda – 11	<ul><li>Learn progr</li><li>Softw</li><li>Cente</li><li>Softw</li><li>Rajko</li></ul>	ams designed for the are training on ETA or, Rajkot to the stude are training on Civil 3 to the students.	ot department woul overall developmen BS to be done with ents. D is done with collab	d be offering SPT and SIG
Agenda – 12	faculty.	ourses from COURSE	RA are proposed to	the students of 4 <sup>th</sup> and 6 <sup>th</sup>
	_	e content shall be do	• •	ntent of the MOOC course and evaluation will be done
	Learning of th	e content shall be do	• •	
	Learning of the	e content shall be done tfaculty.  Subject code-	one through MOOC a	and evaluation will be done



1. Er. Harsh Sanghvi

# Faculty of Technology Department of Civil Engineering Minutes of Meeting - Board of Studies A.Y. 2021-22

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.				
	Teaching scheme proposed in A.Y. 2016-17 and revised Teaching Scheme to be				
Resolutions	proposed in A.Y. 2021-22 have been discussed with the stakeholders of t				
Resolutions	department including student/faculty/employee/alumni/parents and nec				
	inputs are collected from them for academic improvisation.				
Agenda – 14	Any other matter with permission of the Chair.				
	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.				
	Then, the forum was kept open for the discussion and suggestion. Following				
	highlights were discussed/appreciated by the members.				
	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 and physically at MB050-Departmental library.

Meeting Attended By: External Experts	Meeting Attended By: Marwadi University
1. Dr. B. J. Shah	1. Dr. Tarak Vora
2. Dr. S. V. Deo	2. Dr. Ankur Bhogayata
3. Dr. A. K. Verma	3. Dr. Siddharth Shah
4. Dr. Yogesh Shah	
Meeting Attended By: Industry Expert	
1. Er. Jayant Lakhlani	
Meeting Attended By: Alumni Member	

# **Faculty of Technology**

# **Department of Civil Engineering**

# Minutes of Meeting - Board of Studies A.Y. 2021-22

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

# B. Tech Automobile Engineering Faculty of Technology Marwadi University

# 1.1.2 Board of Studies meeting minutes

(Program revision)



#### **Faculty of Liberal Studies**

### Second Board of Studies Meeting in Bachelor of Business Administration (BOS-BBA)

#### Minutes

Chaired by:

Dr. Sunil Kumar Jakhoria, Professor & Dean, Faculty of Liberal

Studies

Date:

10th August' 2017

Time:

3:25 PM - 6:40 PM

Venue:

BOARD ROOM-3rd Floor

The attendees:

The following members attended the meeting:

Dr. Sunil Kumar Jakhoria,

Professor & Dean, Faculty of Business Management and Faculty of Liberal Studies

Dr. Sanjay Bhayani,

Professor, Department of Business Management, Saurashtra University, Rajkot.

Dr. Hitesh Shukla,

Professor, Deptt. of Business Management, Saurashtra University, Rajkot.

Dr. Suneet Saxena,

Professor, Faculty of Management Studies

Dr. M. Srinivas Rao,

Professor, Faculty of Management Studies

Dr. Kapil Shrimal,

Assistant Professor, FOLS and Program Coordinator B. Com & BBA(FM)

2-BOS (10-August -2017)

Page 1 of 17

Faculty of Liberal Studies Marwadi University

Rajkot - 360003, Gujarat

Minutes

Prof. Paras Rughani, Assistant Professor and Program Coordinator BBA(H)

Prof. Amar Vijay Gandhi, Assistant Professor and Program Coordinator BBA.

Dr. Monica Verma, Assistant Professor and Member Secretary BoS

### Agenda for discussion and approval:

Item No.BOS/02/01:To confirm the minutes of 1st meeting of BOS held on 13.08.2016.

The minutes of 1st BOS meeting held on 13.08.2016 were reviewed and confirmed as there were no comments from members.

Item No. BOS/02/02:

To report the action taken, where necessary, on the various decisions taken by the BOS in its 1st meeting held on 13.08.2016

The Board noted the action taken, where necessary, on the various decisions taken in its 1st meeting held on 13.08.2016. The Board also expressed its satisfaction on the action taken report on the various decisions taken in its 1st meeting held on 13.08.2016.

Item No. BOS/02/03: a) To consider and approve Introduction of New Programme Bachelor of Business Administration in Financial Markets

- b) To consider and approve pogramme structure, teaching and evaluation scheme, and credit distribution.
- c) To consider and approve syllabus of 1st year i.e. semester -1 & 2

Based on the feedback received from the students, industry and alumni the Programme Assessment Committee (PAC) approved and recommended the introduction of 3year **Bachelor of Business Administration in Financial Markets [BBA(FM)]**. The programme details were presented to the board members for their suggestions and approval.

2-BOS (10-August -2017)

Page 2 of 17

Minutes

Dean
Faculty of Liberal Studies
Faculty of University
Rajke, 200003, Gujarat

#### Conclusion:

The board reviewed and discussed the programme structure, teaching and evaluation scheme, and the syllabi of semester 1 and 2. The members suggested developing a similar course for the post graduate level. The board approved the introduction of the new programme **Bachelor of Business**Administration in Financial Markets. It was resolved as under:

"Resolved that the new program titled "Bachelor of Business Administration in Financial Markets", with 3years duration, intake of 60 students and to be introduced from academic year 2017- 18 stands approved and is recommended for presentation to the Academic Council.

Programme details are provided in- Annexure-1(a); Programme structure, teaching and evaluation scheme, and credit distribution- Annexure-1(b) and Syllabus of 1st year i.e., semester -1 & semester- II - Annexure-1(c)

Item No. BOS/02/04:

Bachelor of Business Administration (Honours) - Approval of syllabus for 2<sup>nd</sup> year i.e., semester III & IV for the batch of 2016-19 and 2017-20

BBA(H) programme was introduced in the academic year 2016-2017. The Curricula, Syllabi and Scheme of examination for the introduction of the courses offered in Semesters III and IV for the candidates admitted in the BBA(H) Programme during the academic year 2016-2017 was presented to the board members for deliberation and approval.

#### Conclusion:

The syllabi of semester III and IV were discussed and approved. The same to be implemented for academic year 2017- 18. It was resolved as under:

"Resolved that all the syllabi for each course stands approved and are recommended for presentation to the Academic Council. Annexure -2

Item No. BOS/02/05:

Bachelor of Business Administration - Approval of syllabus for 2<sup>nd</sup> year i.e., semester III & IV for the batch of 2016-19 and 2017-20

BBA programme was introduced in the academic year 2016-2017. The Curricula, Syllabi and Scheme of examination for the introduction of the courses offered in Semesters III and IV for the candidates

Page 3 of 17

2-BOS (10-August -2017)

Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat Minutes

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admitted in the BBA Programme during the academic year 2016-2017 was presented to the board members for deliberation and approval.

#### Conclusion:

The syllabi of semester III and IV were discussed and **approved**. The same to be implemented for academic year 2017- 18. It was resolved as under:

"Resolved that all the syllabi for each course stands approved and are recommended for presentation to the Academic Council. Annexure -3

Item No. BOS/02/06: : Bachelor of Business Administration (Honors) (2017-20)

a) Approval of revision in course structure of 1<sup>st</sup> Year i.e., Semester I & II.

b) Approval of 1st Year syllabus after changes i.e., semester I & II

The revision in 1<sup>st</sup> year curricula, Syllabi and Scheme of examinations for the candidates admitted in the BBA(H) Programme during the academic year 2017-2018 presented to the members for discussion and approval. The details of the same are as follows:

Revision in Programme structure of 1st Year i.e. Semester I & II

for the candidates admitted in the BBA(H) Programme during the academic year 2017-2018

#### Comparative

Old/Existing

New/ Revised

Old/Exiloting			245	7.04 m 1.04 m 14 4 4 4	,
Subject Code	Subject Name	Credits	Subject Code	Subject Name	Credits
		Sem	ester I		
04LS0101	Communication Skills-I*	4	04LS1102	Principles of Management	4
04LS0102	Principles of Management	4	04LS1103	Micro Economics	4
04LS0103	Micro Economics	4	04LS1104	Business Organizations & Structures	4
04LS0104	Business Organizations& Structures	4	04LS1105	Fundamentals of Accounting	4
04LS0105	Fundamentals of Accounting	4	04CR0101	Career Readiness Programme**	2
	Electives	4	04BH0101	Tally ERP 9.0**	4

2-BOS (10-August -2017)

Page 4 of 17

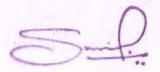
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04LS0106	<b>Business Mathematics</b>	4	04BB0106	Mathematics for Business	4
04LS0107	Computer Essentials	4	04LS1107	Computer Essentials	4
			04SL0102	Reading and Writing for Business***	2
			04SL0103	Speaking and Presentation Skills***	2

## Semester II

04LS0201	Communication Skills-II*	4	04LS1202	Cost Accounting	4
04LS0202	Cost Accounting	4	04LS1203	Macro Economics	4
04LS0203	Macro Economics	4	04LS1204	Organizational Behaviour	4
04LS0204	Organizational Behaviour	4	04LS0205	Statistics in Business	4
04LS0205	Statistics in Business	4	04LS1206	E-Commerce	4
04LS0206	E-Commerce	4	04LS0212	Applications of Spreadsheet***	2
04LS0210	Career Readiness Programme **	2	04BH0201	Corporate Communication & Etiquette***	2
04LS0211	Tally ERP 9**	4	04SL0152	English for Workplace***	2
			04SL0153	English through Films***	2

### Note:

- 1. \* Courses discontinued
- 2. \*\* shifted to semester I
- 3. \*\*\* courses introduced

# **Introduction of New Courses**

Reason for Introduction of New Courses — Batch: 2017-2019

Course Name	Feedback from stakeholders	Rational	Action to be taken
Reading and Writing for Business (RWB)	Recommendation from the Communication	To make learning of English easy and interesting. Give	RWB & SPS to be offered as elective course
Speaking and Presentation Skills (SPS)	Department of the University.	scholars coming from varied background to	in semester-I
English for Workplace (EW)		learn English the way it suits them and focus on	EW & ETF to be offered as
English through Films (ETF)		what they lack. For eg., a student already has good written English but is not good in	elective course in semester-II

2-BOS (10-August -2017)

Dean Page 5 of 17
Faculty of Liberal Studies
Marwadi University
Rojkat- 380000, Gujafat

54

		presentation then such a student can opt for course of SPS rather than RWB.	
Applications of Spreadsheet	Suggestion from Programme coordinator	Most of the job openings require spreadsheet and word-processing software skills. Knowledge of excel will help Organize data in an easy-to-navigate way, Do basic and complex mathematical functions, Analyze data and make forecasting predictions and many more things	To be offered as core course in semester-II
Corporate Communication & Etiquette	Suggestion from Programme coordinator	Corporate Communication & etiquette training is useful for teaching graduates to act in ways that will create a positive public image and help build a company's brand. It gives confidence too.	To be offered as Value added course in semester-II

# Details of the new courses introduced:

Name of the Programme	Name of the Course	Semester	Batch	Year of Introduction
BBA(Hons)	Reading and Writing for Business	I	2017-20	2017-18
	Speaking and Presentation Skills	I	2017-20	2017-18

2-BOS (10-August -2017)

Page 6 of 17

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Minutes

Dean
Faculty of Liberal Studies
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English for Workplace	111	2017-20	2017-18
English through Films	П	2017-20	2017-18
Applications of Spreadsheet	.11	2017-20	2017-18
Corporate Communication & Etiquette	II	2017-20	2017-18

# Revision in the syllabus of the course

# Reason for Revision

Course Name	Feedback from stakeholders	Rational	Action to be taken
Principles of Management	The subject faculty was of opinion that the existing course is covering topics already read by the student in 12th std. and there are no advance level topics.	Will help student to learn over and above the knowledge he/she already has.	Principles of Management course revised
Micro Economics	Faculty felt the need to add few topics that were not there	Essential to be known at the UG level.	Micro Economics course revised
Business Organizations & Faculty feedback. The course was too basis and need was felt to topics giving student knowledge of contemporary business organizations		Important to understand the changed and new for of business organizations.	Business Organizations & Structures course revised
Fundamentals of Accounting	Faculty feedback to make the course content relevant to the BBA programme	Student of business administration need to acquite different set of knowledge when compared to commerce graduate.	Fundamentals of Accounting course revised

2-BOS (10-August -2017) Dean

Dean
Faculty of Liberal Strage 7 of 17
Marwadi University
Rajkot - 360003, Gujarat

Computer Essentials	Faculty feedback to remove theoretical component and add more of MS office.	Impart greater skills that help in employability	Computer Essentials course revised
Faculty feedback to make the course con relevant to the BBA programme. And the course was too length to be completed in allotted time.		Student of business administration need to acquire different set of knowledge when compared to commerce graduate.	Cost Accounting course revised
Macro Economics	Faculty felt the need to add few topics that were not there.	Essential to be known at the UG level.	Macro Economics course revised
Organizational Behaviour	Faculty feedback to incorporate topics relevant at UG level	differentiate it from the PG course	Organizational Behaviour course revised
E-Commerce	Faculty feedback to remove theoretical component.	Impart greater skills that help in employability	E-Commerce course revised

# Revision & shifting from one semester to other

Reason for Shifting & Revision

Course Name	Feedback from stakeholders	Rational	Action to be taken	
Career Readiness Programme	Proposed by programme coordinator and reviewed in the PAC meeting	Shifting of the course is required for the program structure.	Career Readiness Programme course revised and shifted.	
Tally ERP 9.0	Tally ERP 9.0 Proposed by programme coordinator and reviewed in the PAC meeting		Tally ERP 9.0 shifted without any revision.	

2-BOS (10-August -2017)

Page 8 of 17

Minutes

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# Details of the courses shifted

Course Name	S	emester	Batch	Year of Introduction
	From	То		
Career Readiness Programme	11	Ī	2017-20	2017-18
Tally ERP 9.0	11	1	2017-20	2017-18

#### Courses Discontinued

Course Name	Feedback from stakeholders	Rational	Action to be taken
Discontinue course on Communication Skills in semester 1 & 2	PAC	To incorporate courses- Reading and Writing for Business, Speaking and Presentation Skills, English for Workplace and English through Films in the programme structure.	Discontinue from batch of 2017-20.

#### Conclusion:

The board deliberated on the proposal. The introduction of courses designed to make learning of English effective -Reading and Writing for Business, Speaking and Presentation Skills, English for Workplace and English through Films. Similarly, the inclusion of courses like Tally ERP 9.0, Applications of Spreadsheet, Corporate Communication & Etiquette, Fundamentals of Digital Marketing etc., were applied as the members felt that the programme catered to the current market needs and offer industry specific skills accordingly it was resolved as under:

"Resolved that all the revision in course structure of 1st Year BBA(H) programme, courses, syllabi and teaching and evaluation scheme for each course stands approved and is recommended for presentation to the Academic Council."

(Annexure 4- Approved syllabi of 1st Year i.e., semester I, &II)

2-BOS (10-August -2017) Dean
Faculty of Liberal St.Page 9 of 17
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## Item No. BOS/02/07: Bachelor of Business Administration (2017-20)

- a) Approval of revision in course structure of 1st Year i.e., Semester I & II.
- b) Approval of 1st Year syllabus after changes i.e., semester I & II

The revision in 1<sup>st</sup> year curricula, Syllabi and Scheme of examinations for the candidates admitted in the BBA Programme during the academic year 2017-2018 presented to the members for discussion and approval.

# Revision in course structure of 1st Year i.e., Semester I & II

for the candidates admitted in the BBA Programme during the academic year 2017-2018

## Comparative

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# New/ Revised

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Subject Code	Subject Name	Credits	Subject Code	Subject Name	Credits
		Sem	ester I		
04LS0101	Communication Skills-I*	4	04LS1102	Principles of Management	4
04LS0102	Principles of Management	4	04LS1103	Micro Economics	4
04LS0103	Micro Economics	4	04LS1104	Business Organizations & Structures	4
04LS0104	Business Organizations& Structures	4	04LS1105	Fundamentals of Accounting	4
04LS0105	Fundamentals of Accounting	4	04CR0101	Career Readiness Programme**	2
	Electives				
04LS0106	Business Mathematics	4	04BB0106	Mathematics for Business	4
04LS0107	Computer Essentials	4	04LS1107	Computer Essentials	4
			04SL0102	Reading and Writing for Business***	2
		*:	04SL0103	Speaking and Presentation Skills***	2

### Semester II

04LS0201	Communication Skills-II*	4	04LS1202	Cost Accounting	4

2-BOS (10-August -2017)

Page 10 of 17

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04LS0202	Cost Accounting	4	04LS1203	Macro Economics	4
04LS0203	Macro Economics	4	04LS1204	Organizational Behaviour	4
04LS0204	Organizational Behaviour	4	04LS0205	Statistics in Business	4
04LS0205	Statistics in Business	4	04LS1206	E-Commerce	4
04LS0206	E-Commerce	4	04LS0212	Applications of Spreadsheet***	2
04LS0210	Career Readiness Programme **	2			
		4	04SL0152	English for Workplace***	2
			04SL0153	English through Films***	2

## Note:

- 1. \* courses discontinued
- 2. \*\* shifted to semester I
- 3. \*\*\* courses introduced

## Introduction of New Courses

Reason for Introduction of New Courses — Batch: 2017-2019

Course Name	Feedback from stakeholders	Rational	Action to be taken	
Reading and Writing for Business (RWB)	Recommendation from the Communication Department of the	To make learning of English easy and interesting. Give	RWB &SPS to be offered as elective course	
Speaking and Presentation Skills (SPS)	university.	scholars coming from varied	in semester-I	
English for Workplace (EW)		background to learn English the way it	EW & ETF to be	
English through Films (ETF)		suits them and focus on what they lack. For eg., a student already has good written English but is not good in presentation then such a student can opt for course of SPS rather than RWB.	offered as elective course in semester-II	
Applications of Spreadsheet	Suggestion from	Most of the job openings require	To be offered as core course in	

2-BOS (10-August -2017)

Page 11 of 17

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat

	Programme coordinator	spreadsheet and word-processing software skills. Knowledge of excel will help Organize data in an easy-to-navigate way, Do basic and complex mathematical functions, Analyze data and make forecasting predictions and many more things	semester-II
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# Details of the new courses introduced:

Name of the Programme	Name of the Course	Semester	Batch	Year of Introduction
BBA	Reading and Writing for Business	I	2017-20	2017-18
	Speaking and Presentation Skills	I	2017-20	2017-18
	English for Workplace	11	2017-20	2017-18
	English through Films	II	2017-20	2017-18
	Applications of Spreadsheet	II	2017-20	2017-18

# Revision in the syllabus of the course

# Reason for Revision

Course Name	Feedback from	Rational	Action to be
	stakeholders		taken

2-BOS (10-August -2017)

Page 12 of 17

Minutes

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Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat

Principles of Management	The faculty as it was opinioned that the existing course is covering topics already read by the student in 12th . there are no advance level topics.	Will help student to learn over and above the knowledge he/she already has.	Principles of Management course revised
Micro Economics	Faculty felt the need to add few topics that were not there	Essential to be known at the UG level.	Micro Economics course revised
Business Organizations & Structures	Faculty feedback. The course was too basic and need was felt to add topics giving students knowledge of contemporary business organizations	Important to understand the changed and new for of business organizations.	Business Organizations & Structures course revised
Fundamentals of Accounting	Faculty feedback to make the course content relevant to the BBA programme	Student of business administration need to acquite different set of knowledge when compared to commerce graduate.	Fundamentals of Accounting course revised
Computer Essentials	Faculty feedback to remove theoretical component and add more of MS office.	Impart greater skills that help in employability	Computer Essentials course revised
Cost Accounting	Faculty feedback to make the course content relevant to the BBA programme. And the course was too lengthy to be completed in allotted time.	Student of business administration need to acquire different set of knowledge when compared to commerce graduate.	Cost Accounting course revised
Macro Economics	Faculty felt the need to add few topics that were not there.	Essential to be known at the UG level.	Macro Economics course revised
Organizational Behaviour	Faculty feedback to	differentiate it from	Organizational

2-BOS (10-August -2017)ean Page 13 of 17
Faculty of Liberal Studies
Marwadi University Rajkot - 360003, Gujarat



	incorporate topics relevant at UG level	the PG course	Behaviour course revised
E-Commerce	Faculty feedback to remove theoretical component.	Impart greater skills that help in employability	E-Commerce course revised

# Revision & shifting from one semester to other

Reason for Shifting & Revision

Course Name	Feedback from stakeholders	Rational	Action to be taken
Career Readiness Programme	As reviewed in the Department meeting	Shifting of the course is required for the program structure.	Career Readiness Programme course revised and shifted.

Details of the courses shifted

Course Name	Semester		Semester		Course Name Semester		Batch	Year of Introduction
	From	То		introduction				
Career Readiness Programme	II	1	2017-20	2017-18				

## **Courses Discontinued**

Course Name	Feedback from stakeholders	Rational	Action to be taken
Discontinue course on Communication Skills in semester 1 & 2	PAC	To incorporate courses- Reading and Writing for Business, Speaking and Presentation Skills, English for Workplace and English through Films in the programme structure.	Discontinue from batch of 2017-20.

2-BOS (10-August -2017)

Page 14 of 17

Faculty of Liberal Flories Marwadi University Indian - 360003, Gujarat

### Conclusion:

The board deliberated on the proposal.

The Members reviewed the periodical updation of the course syllabi that offer industry specific skills. The introduction of courses designed to make learning of English effective -Reading and Writing for Business, Speaking and Presentation Skills, English for Workplace and English through Films. Similarly, the inclusion of course Applications of Spreadsheet, Fundamentals of Digital Marketing, etc., were applicated as the members felt that the programme catered to the current market needs and accordingly it was resolved as under:

"Resolved that all the revision in course structure of 1st Year BBA courses, syllabi and teaching and evaluation scheme for each course stands approved and is recommended for presentation to the Academic Council."

(Annexure 5- Approved syllabi of 1st Year i.e., semester I, &II)

Item No. BOS/02/08: Non-Credit courses in addition to the courses included in the Programme Structure of BBA, BBA(Hons) and BBA(FM).

The Board was informed that based on the feedback from the industry experts, the PAC proposed certification courses which a student has to complete in addition to the regular courses included in the programme structure of BBA, BBA(H) and BBA(FM). These courses are incorporated to enhance the skills and abilities of the scholars. These courses are applicable from the batch of 2016 -19 for BBA and BBA(H) Following courses were proposed:

a) Corporate Etiquettes Semester III b) Corporate Correspondence Semester IV c) Personal Finance Semester V

c) Personal Finance Semester V d) SPSS Semester VI

The board reviewed the proposed courses and after due deliberation approved the same and resolved:

"Resolved that all the four *course titles and the* syllabi stand approved and is recommended for presentation to the Academic Council."

Annexure 6

Item No.BOS/02/09: To consider and approve PEO, PO and PSO of Bachelor of Business Administration (BBA), Bachelor of Business Administration

2-BOS (10-August -2017) Page 15 of 17

Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat

# (Honours) (BBA(H)) and Bachelor of Business Administration (Financial Markets) (BBA(FM)).

The Proposed Programme Educational Objectives, Programme Outcomes and Programme Specific outcomes were presented before the board. The members were informed that the feedback from the industry, faculty and students was taken before finalizing the PEOs, POs and PSOs for BBA, BBA(H) and BBA(FM). The same are presented as below:

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO 1: To provide knowledge in the management discipline with an understanding of its applicability in business decision-making for positive social impact.
- PEO 2: To comprehend the challenges and opportunities of leading and working in inclusive and diverse teams and environments.
- PEO 3: To be able to identify, analyze and recommend appropriate actions given international influences, issues, and situations at the industry, business, and individual levels
- PEO 4: To demonstrate an understanding and appreciation of ethical principles at both the personal and professional levels.
- PEO 5: To engage in life-long learning through research adopting contemporary modes of learning.

## PROGRAM LEARNING OUTCOMES (PLOs)

- PLO 1: To define, analyze, and devise solutions for structured and unstructured business problems and issues using cohesive and logical reasoning methods.
- PLO2: To demonstrate competence in domestic and global business through the study of major disciplines within the fields of business.
- PLO3: To develop an ability to function effectively as an individual and as a member or leader in diverse teams and multidisciplinary settings.
- PLO4: To demonstrate comprehensive knowledge and understanding of various areas of management PLO5: To be able to demonstrate domain-specific skills to solve critical issues of the concerned domain.
- PLO6: To recognize the need for, and have the ability to engage in independent and lifelong learning.
- PLO7: To train the students as efficient managers equipped with innovation, rationality, and application-oriented decision-making in the context of the ever-changing business environment.
- PLO8: To understand the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

### PROGRAM SPECIFIC OUTCOMES (PSOs)

- PSO 1: To be able to gain an understanding, of the legal, financial, marketing, production & operational activities of the business.
- PSO2: To be able to demonstrate the ability to develop models/frameworks to reflect critically on a specific business context.
- PSO3: To be able to apply their theoretical learnings in the business setting and achieve maximum industry exposure through live projects, internships, and workshops.

2-BOS (10-August -2017)

Page 16 of 17

Faculty of Liber 2002 ANS Marwadi University Ralkot - 360003, Gujarat

The Board reviewed the proposed PEOs, Pos and PSOs and approved the same for BBA, BBA(H) and BBA(FM). And resolved:

"Resolve that Item No.BOS/02/09 is approved (to be applicable from batch of 2016-19 for BBA and BBA(H)) and is recommended to be presented to the Academic Council" Annexure 7

# Item No. BOS/02/10: Discussion on Programme Outcome and Course Outcome attainment

The Board was informed that an analysis of CO attainment revealed that the targets set for the academic year 2016-17 at 40%, have been achieved.

Since the CO attainment for BBA and BBA(H) is well above the target, a revised target of 42% for CO attainment was proposed by PAC.

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 42%.

Resolved to approve and recommend the same to the Academic Council.

Item No. BOS/02/11: Stakeholders Feedback

The Board was informed that the new programme BBA(FM) and the Programme Structure have been framed after take in account the feedback collected by PAC from industry, academia experts, faculty, students and the alumni. The revision in the courses has also been done taking into account the feedback of the stakeholders.

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

There being no other business, the meeting ended with a vote of thanks to all present.

(Dr. Monica Verma)

Member Secretary BOS.

(Dr. Sunil Kumar Jakhoria)

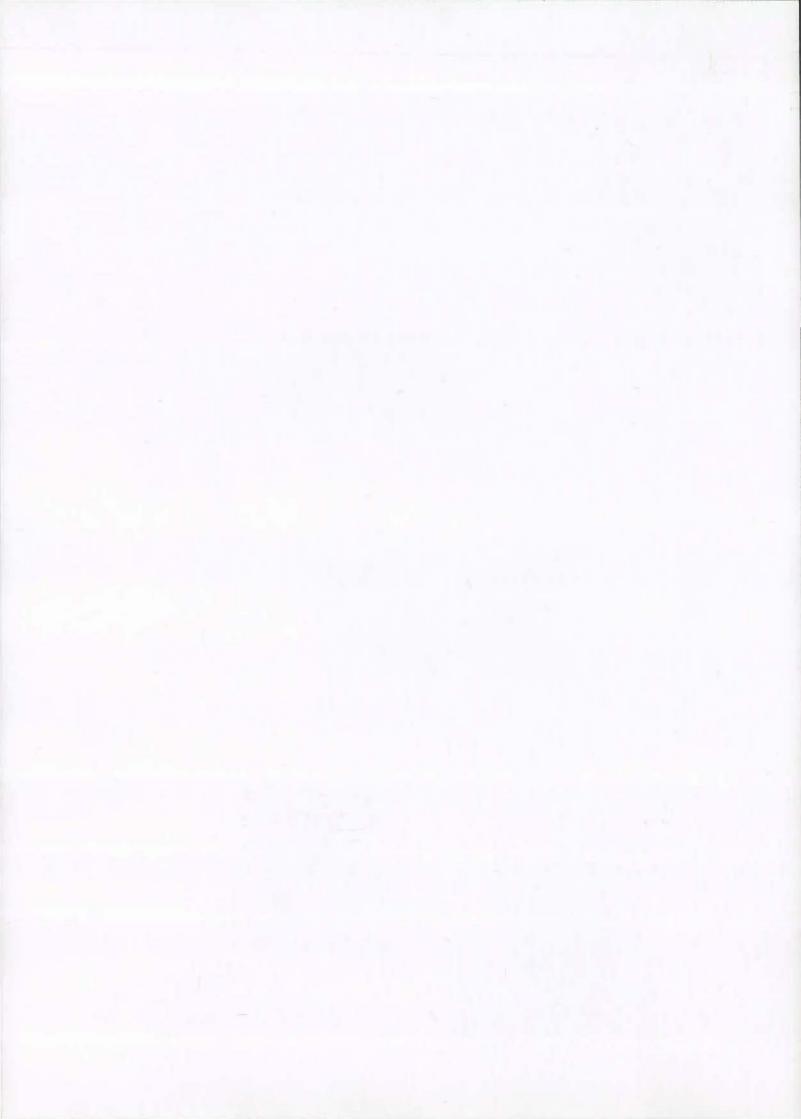
Chairman

Dean
Faculty of Liberal Studies

Marwadi University Rajkot - 360003, Gujarat

2-BOS (10-August -2017)

Page 17 of 17





### **Faculty of Liberal Studies**

# Third Board of Studies Meeting in Bachelor of Business Administration (BOS- BBA)

#### Minutes

Chaired by:

Dr. Sunil Kumar Jakhoria, Professor & Dean, Faculty of Liberal

Studies

Date:

Saturday 26th May 2018

Time:

4:00 PM - 5:00 PM

Venue:

BOA

RD ROOM-3rd Floor

The attendees:

Dr. Sunil Kumar Jakhoria,

Professor & Dean, Faculty of Liberal Studies and Faculty of

**Business Management** 

Dr. Sanjay Bhayani,

Professor, Department of Business Management, Saurashtra

University, Rajkot.

Chairperson

Member, External

Academia

Mr. Murali Prashad,

Managing Director, Head Hunt HR Consultants Pvt Ltd.

Special Invitee

Dr. M. Srinivasa Rao

Professor.

Special Invitee

Prof. Paras Rughani,

Assistant Professor and Program Coordinator BBA(H)

Special Invitee

Dr. Alpesh Gajera

Assistant Professor and Program Coordinator BBA(FM)

Special Invitee

Dr. Monica Verma,

Assistant Professor and Member Secretary BoS

Member Secretary

3-BOS (26th May 2018)

Page 1 of 4

July 2 000

[Minutes]

Dean
Faculty of Liberal Studies
Marwadi University

Rajkot - 360003, Gujarat

The leave of absence was granted to:

Dr. Karunesh Saxena.

Special Invitee

Director, Faculty of Management Studies, Mohanlal Sukhadia

University, Udaipur.

Dr. Hitesh Shukala.

Member, External

Professor, Deptt. of Business Management, Saurashtra

University, Rajkot.

Academia

Prof. Sunil Kumar Jakhoria, Chairman BOS and Dean, Faculty of Liberal Studies Chaired the meeting and welcomed all the members to the third BOS meeting. The Chairman further expressed special thanks to Dr. Sanjay Bhayani and Mr. Murali Prashad for sparing the time from their busy schedule to attend the meeting.

After that the agenda items were taken up and the Board decided/ recommended as under: -

Item No.BOS/03/01: To confirm the minutes of 2nd meeting of BOS held on 10.08.2017.

The minutes of 2<sup>nd</sup> BOS meeting held on 10.08.2017 were reviewed and confirmed as there were no comments from members

Item No. BOS/03/02:

To report the action taken, where necessary, on the various decisions taken by the BOS in its 2nd meeting held on 10.08.2017

The Board noted the action taken, where necessary, on the various decisions taken in its 2nd meeting held on 10.08.2017. And expressed its satisfaction on the action taken report on the various decisions taken in its 2nd meeting held on 10.08.2017.

Item No.BOS/03/03:

To consider and approve the syllabi of 3rd year i.e., semester V & VI of Bachelor of Business Administration for batch of 2016-19 and 2017-20

The Board went through the scheme and syllabus of 3rd year i.e., semester V & VI. Their suggestions are noted as given below:

- a) Add Credit at the top of each syllabus
- b) Use curriculum in place of Syllabus and Course in place of Subject as proposed by UGC.
- c) Insert details regarding Elective and Specialization courses i.e., CBCS to be incorporated in all the Programmes.
- d) Try and incorporate learning outcome in each unit
- e) Bifurcate the course content into Theory and Practical.
- f) Add specific case studies, List of speakers, Projects, skill imparted or to be imparted.

3-BOS (26th May 2018)

Page 2 of 4

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[Minutes]

Faculty of Liberal Studies Marwadi University Ralkot - 360003, Gujarat

"Resolved that the syllabus as noted above stands approved and is recommended for presentation to the Academic Council after incorporating the changes", Annexure 1

Item No.BOS/03/04:

To consider and approve the syllabi of 3rd year i.e., semester V & VI of Bachelor of Business Administration (Hons) for batch of 2016-19 and 2017-20

The Board went through the scheme and syllabus of 3<sup>rd</sup> year *i.e.*, semester V & VI. Their suggestions are noted as given below:

- a) Add Credit at the top of each syllabus
- b) Use curriculum in place of Syllabus and Course in place of Subject as proposed by UGC.
- c) Insert details regarding Elective and Specialization courses ie., CBCS to be incorporated in all the Programmes.
- d) Try and incorporate learning outcome in each unit
- e) Bifurcate the course content into Theory and Practical.
- f) Add specific case studies, List of speakers, Projects, skill imparted or to be imparted.
- g) Change the names of the course's social media marketing to Digital Marketing as the course name does not justify the content, and Recruitment and selection to Talent Hunt

"Resolved that the syllabus as noted above stands approved and is recommended for presentation to the Academic Council after incorporating the changes" Annexure 2

Item No.BOS/03/05:

To consider and approve the syllabus for 2nd year i.e., semester III & IV of Bachelor of Business Administration (Financial Markets)- (2017-20)

The Board went through the scheme and syllabus of 2nd year i.e., semester III & IV. Their suggestions are noted as given below:

- a) Add Credit at the top of each syllabus
- b) Use curriculum in place of Syllabus and Course in place of Subject as proposed by UGC.
- c) Insert details regarding Elective and Specialization courses i.e., CBCS to be incorporated in all the Programmes.
- d) Try and incorporate learning outcome in each unit
- e) Bifurcate the course content into Theory and Practical.
- f) Add specific case studies, List of speakers, Projects, skill imparted or to be imparted.
- g) Change the names of the course's social media marketing to Digital Marketing as the course name does not justify the content, and Recruitment and selection to Talent Hunt

"Resolved that the syllabus as noted above stands approved and is recommended for presentation to the Academic Council after incorporating the changes". Annexure 3

3-BOS (26th May 2018)

Page 3 of 4

[Minutes]

Pean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat

# Item No. BOS/03/06: Discussion on Programme Outcome and Course Outcome attainment

The Board was informed that an analysis of CO attainment revealed that the targets set for the academic year 2017-18 at 42%, have been achieved.

Since the CO attainment is well above the target, a revised target of 44% for CO attainment was proposed by PAC.

The Board noted the attainment levels for year 2017-18 and after due deliberations approved that CO attainment targets for year 2018-19 be set at 44%.

Resolved that Item No. BOS/03/06 is approved and recommend the same to the Academic Council.

Item No. BOS/03/07: : Stakeholders Feedback

The Board was informed that all the courses content has been designed base on the feedback collected by PAC from industry, academia experts, faculty, students and the alumni. The feedbacks received were incorporated in the curriculum.

The Board noted with satisfaction the feedback received and their incorporation in curriculum.

There being no other matter, the meeting was concluded with a vote of thanks to the chair and the members present.

(Dr. Monica Verma) Member Secretary BOS. (Dr. Sunil Kumar Jakhoria) Chairman

Rajkot-360003, Gujarat



## **Faculty of Liberal Studies**

## Fourth Board of Studies Meeting in Bachelor of Business Administration (BOS-BBA)

#### Minutes

Chaired by:

Dr. Sunil Kumar Jakhoria, Professor & Dean, Faculty of Liberal

Studies

Date:

Saturday 15th June 2019

Time:

3:00 PM - 6:00 PM

Venue:

BOARD ROOM-3rd Floor

Minutes of the Fourth Board of Studies in BBA, Faculty of Liberal Studies held on 15th June, 2019 at 03.00 p.m. in the Board Room-3rd Floor Marwadi Campus.

The attendees:

The following members attended the meeting:

Dr. Sunil Kumar Jakhoria,

Professor & Dean, Faculty of Liberal Studies and Faculty of

Business Management.

Chairperson

Dr. Sanjay Bhayani,

Professor, Department of Business Management, Saurashtra

University, Rajkot.

Member, External

Academia

Dr. Hitesh Shukla.

Professor, Deptt. of Business Management, Saurashtra

University, Rajkot.

Member, External

Academia

Dr. M.Srinivasa Rao.

Professor, Faculty of Management Studies

Member

Member

Prof. Paras Rughani,

Assistant Professor and Program Coordinator BBA(H) & BBA(FM)

Dr. Monica Verma

Member Secretary

Assistant Professor and Member Secretary BoS

4-BOS (15-June-2019)

Page 1 of 10

Minutes

Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat

Prof. Sunil Kumar Jakhoria, Dean, Faculty of Liberal Studies Chaired the meeting and welcomed the members for attending the 4<sup>th</sup> BOS meeting. The Chairman further expressed special thanks to Dr. Sanjay Bhayani and Dr. Hitesh Shukla for their valuable presence. He also briefed them about the progress of the faculty.

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

Item No.BOS/04/01:

To confirm the minutes of 3rd meeting of BOS held on 26th May'2018.

The minutes of 3rd BOS meeting held on 26th May, 2018 were circulated among the BOS members. Since no comment were received, the BOS approved the minutes of the 3rd BOS meeting.

Item No.BOS/04/02:

To report the action taken, where necessary, on the various decisions taken by the BOS in its 3rd meeting held on 26.05.2018

As part of the action taken on the resolutions of Third BOS meeting the members were informed that actions have been take on all the suggestions except bifurcate the course content into Theory and Practical and incorporating learning outcome in each unit; which is in process. The Board noted the action taken, where necessary, on the various decisions taken in its 3rd meeting held on 26.05.2018 and expressed their satisfaction.

Item No.BOS/04/03:

To consider and approve introduction of course titled "Career Readiness Program", its syllabus and scheme of evaluation in semester V of BBA (Financial Markets)

The members were informed about the introduction of 2 credit course titled "Career Readiness Program" to prepare the students for industry. The course title and syllabus were presented to the members for their suggestions and approval. The details are as follows:

### Comparative

Existing			Revised		
Course Code	Course Name	Credits	Course Code	Course Name	Credits
04BB0503	Project Management	4	04BB0503	Project Management	4
04BF0501	Business and Corporate	4	04BF0501	Business and Corporate	4

4-BOS (15-June-2019)

Page 2 of 10

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat

	Laws			Laws	
04BF0502	Foundation of Financial Mathematics	4	04BF0502	Foundation of Financial Mathematics	4
04BF0503	Management Information Systems	4	04BF0503	Management Information Systems	4
04BF0504	Wealth Management	4	04BF0504	Wealth Management	4
04BF0505	Derivative Market Operations	4	04BF0505	Derivative Market Operations	4
04BF0506	Summer Internship Project	2	04BF0506	Summer Internship Project	2
			04CR0501	Career Readiness Program	2
	Total semester Credits	26		Total semester Credits	28

Reason for Introduction of New Courses — Batch: 2017-2019

Course Name	Feedback from stakeholders	Rational	Action to be taken
Career Readiness Programme	Proposed by programme coordinator and reviewed in the Programme Academic Committee meeting	As in the entire programme structure there was no such course in offering	To be offered as ability enhancement course in semester V

### Details of the new courses introduced:

Name of the Programme	Name of the Course	Semester	Batch	Year of Introduction
BBA(FM)	Career Readiness Programme	V	2017-20	2019-20

The BOS discussed the item and expressed its satisfaction and finally resolved as under:

"Resolved that the course title, syllabus, scheme of evaluation and subsequent changes in the credits of semester – V of BBA (Financial Markets) stand approved and is recommended for presentation to the Academic Council". Annexure -1

Item No.BOS/04/04:

To consider and approve syllabus of semester V & VI of BBA (Financial Markets)

The BOS discussed the item and approved the syllabuses of semester V&VI and resolved as under:

4-BOS (15-June-2019) Dean

Page 3 of 10

Minutes

Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat "Resolved that the semester V & VI syllabus stands approved and is recommended for presentation to the Academic Council". Annexure 2

Item No.BOS/04/05:

To consider and approve introduction of two new specializations namely; Banking & Insurance, International Business in BBA(Hons); and the courses of reading in the same and their course content.

The Members were briefed about the proposal to introduce two new specializations namely; Banking & Insurance, International Business to the students admitted in 2017-18 w.e.f. 2019 to BBA(Hons) students and the courses to be taught in each of the specialization.

## Introduction of New Specialization & Courses of teaching in each

Reason for Introduction of New Specializations & courses for teaching — Batch: 2017-2019 w.e.f. 2019

Specialization Name	Feedback from stakeholders	Rational	Action to be taken
International Business	Industry, Students and Faculty; and deliberation at PAC	To provide students with the skills and experience needed to advance careers in foreign trade and impart knowledge to expand business overseas.	Introduced as specialization from the batch of 2017-20 w.e.f. 2019
Banking & Insurance	Industry, Students and Faculty; and deliberation at PAC	To provide students with the skills and experience needed to advance careers in the fast-growing finance industry.	Introduced as specialization from the batch of 2017-20 w.e.f. 2019

Details of the new courses introduced in each specialization:

Faculty of Liberal Stuffes

Name of the	Name of the Course	Semester	Course	Batch	Year of
Programme & Specialization			Credit		Introduction

4-BOS (15-June-2019)

Page 4 of 10

54

BBA(Hons)& International	International Marketing	V	4	2017-20	2019-20
Business	International Human Resource Management	V	4	2017-20	2019-20
	Fundamentals of International Business	V	3	2017-20	2019-20
	International Supply Chain Management	VI	4	2017-20	2019-20
	International Trade Finance & Forex Risk Management	VI	3	2017-20	2019-20
BBA(Hons) &	Modern Banking Theory & Practices	V	4	2017-20	2019-20
Banking & nsurance	Financial Analysis & Risk  Management in Banks	V	4	2017-20	2019-20
	Fundamentals of Operational Banking	V	3	2017-20	2019-20
	Rural Banking and Micro Finance	VI	4	2017-20	2019-20
	Investment Banking & Insurance	VI	3	2017-20	2019-20

The BOS reviewed the proposed specializations, courses of teaching and syllabi. Same was approved and resolved as under

"Resolved that the new specializations and the course of teaching along with the syllabi stand approved and is recommended for presentation to the Academic Council".

Annexure 3

Item No.BOS/04/06:

To consider and approve revision in the course content of Tally ERP 9. (04BH0101) in semester-5 of BBA(Hons)

The members were presented with details of revision in the syllabus of the course *Tally ERP 9*. The details are as follows:

Reason for Revision

Course Name	Feedback from	Rational	Action to be
	Dean Faculty of Liberal Studge 5 of 10 Marwadi University Rajkot - 360003, Gujarat	5=	Minutes

	stakeholders		taken
Tally ERP 9. (04BH0101) in BBA(Hons)	The subject faculty recommended the revision as the existing course content was too elementary and there is need to expand the content. And to use updated and latest version of tally that adds up the latest updates of the accounts or taxation policy like removing VAT and introducing GST. The suggestion was deliberated by PAC and accepted for presentation to the BoS	Will help student to acquire more understanding of tally and have hands on latest version so as to be market ready	Tally ERP 9. course revised

Details of the courses revised

Course Name	Semester	Batch	Year of Revision
Tally ERP 9. (04BH10101)	1	2019-22	2019-20

The BOS reviewed the item and resolved as under:

"Resolved that the suggested modification stand approved and is recommended for presentation to the Academic Council". Annexure 4

Item No.BOS/04/07:

To consider and approve Converting Corporate Communication & Etiquette (04BH0201) from credit to noncredit course in BBA(Hons)

The board was informed that the course titled "Corporate Communication & Etiquette (04BH0201)" was taught as a 2-credit course in semester 2 of BBA(H) but there is recommendation to convert it into a non-credit certification course for students admitted in 2019-20.

4-BOS (15-June-2019)

Page 6 of 10

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat

Course Name	Feedback from stakeholders	Rational	Action to be taken
Corporate Communication & Etiquette (04BH0201) in BBA(Hons)	The Learning and Development department recommended converting it into a certificate course and it should be delivered in a form of workshop to make it effective rather as a regular course. The suggestion was deliberated by PAC and accepted for presentation to the BoS	It will be more effective and the expected outcomes can be attained.	Convert Corporate Communication & Etiquette (04BH0201) from credit to non- credit course.

The BOS reviewed and approved the recommendation of converting course title "Corporate Communication & Etiquette (04BH0201)" from credit to non-credit course w.e.f., 2019 and resolved as under

Resolved that the suggested change stand approved and is recommended for presentation to the Academic Council". Annexure 5

Item No.BOS/04/08:

To consider and approve introduction of course titled "Understanding of Corporate Financial Statements" and its syllabus in BBA & BBA(Hons) semester V

The members were informed that course titled "Understanding of Corporate Financial Statements" will replace the courses titled Brand India: From Local to Global (04BB0504) in semester V of BBA & BBA(Hons) for the students admitted in 2019-20.

Course Name	Feedback from stakeholders	Rational	Action to be taken
Understanding of Corporate Financial Statements in semester V of BBA and BBA(Hons). (For students admitted in	Programme coordinator as it was observed that in the entire programme of BBA and BBA(H) there was no course which acquainted the students to corporate	Will help students to understand and interpret the corporate financial statements.	"Understanding of Corporate Financial Statements" to replace "Brand India: From

4-BOS (15-June-2019) Dean Faculty of Liberal Studi Page 7 of 10 Marwadi University Reikot - 360003, Gujarat

2019-20)	final statements and their analysis. The suggestion was deliberated by Programme Academic Committee (PAC) and accepted. PAC recommended for presentation to the BoS	Local to Global" from academic year 2021
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### Details of the changes:

Programme		Change	Semester	Batch	Year of Introduction
Name	From	То			
BBA & BBA(H)	Brand India: From Local to Global	Understanding of Corporate Financial Statements	V	2019-22	2019

The BOS discussed the item and approved it to be applicable on students admitted in 2019-20 w.e.f. 2021 and resolved as under:

"Resolved that the new course titled Understanding of Corporate Financial Statements and its syllabus stand approved and is recommended for presentation to the Academic Council". Annexure 6

Item No.BOS/04/09:

To consider and approve Discontinuing the courses titled Brand India: From Local to Global (04BB0504) in semester V of BBA & BBA(Hons) for the students admitted in 2019-20

### The members were informed about the Reasons for discontinuation:

Course Name	Feedback from stakeholders	Rational	Action to be taken
Brand India: From Local to Global (04BB0504) in semester V of BBA and BBA(Hons). (For students admitted in 2019-20)	Programme coordinator and course faculties observed that despite being a good course the delivery and assessment of the course was difficult. The UG students were unable to comprehend the essence of the	Will be more suitable to be delivered to Post graduate students as they will understand the relevance of the course.	"Brand India: From Local to Global" discontinued from 2021

4-BOS (15-June-2019) Dean

Page 8 of 10

Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat

course. The suggestion was deliberated by PAC and accepted for presentation to the BoS	

### Details of changes:

Programme Name	Course Name	Semester	Batch	Year of Discontinuation
BBA & BBA(H)	Brand India: From Local to Global	V	2019-22	2021

The BOS reviewed and approved that the courses titled "Brand India: From Local to Global" (04BB0504) in semester V to be discontinued and resolved:

"Resolved that Item No.BOS/04/09 stand approved and is recommended for presentation to the Academic Council". Annexure 7

Item No.BOS/04/10:

Any other item with permission of the chair.

Modification in course titled Entrepreneurship (04BB0405) in semester-IV taught in BBA and BBA(Hons)

The members were informed that the university has entered into MOU with Center for Entrepreneurship Development, Gandhinagar. And propose to modify the course content of course titled Entrepreneurship(04BB0405) in semester-IV taught in BBA and BBA(Hons) according to Introducing Entrepreneurship Development Program Module II offered by Center for Entrepreneurship Development

Under this agenda item the BOS discussed and approved the proposed revision and resolved as under

"Resolved that the suggested modification stand approved and is recommended for presentation to the Academic Council". Annexure 8

# Item No. BOS/04/11: Discussion on Programme Outcome and Course Outcome attainment

The Board was informed that an analysis of CO attainment revealed that the targets set for the academic year 2018-19 at 44%, have been achieved.

Since the CO attainment is well above the target, a revised target of 46% for CO attainment was proposed by PAC.

The Board noted the attainment levels for year 2018-19 and after due deliberations approved that CO attainment targets for year 2019-20 be set at 46%.

4-BOS (15-June-2019 Faculty of Liberal Studies

Marwadi University P

Raikot - 360003, Gujarat

Page 9 of 10

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Resolved that Item No. BOS/04/11 is approved and recommend the same to the Academic Council.

### Item No. BOS/04/12 : Stakeholders Feedback

The Board was informed that the PAC had collected feedback from students, industry and academic experts for curriculum development. The Board was further informed that the suggestions/feedback received were incorporated the same have been detailed in above agenda items.

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

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

(Dr. Monica Verma)

Member Secretary BOS.

(Dr. Sunil Kumar Jakhoria) Chairman

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat



## **Faculty of Liberal Studies**

## Fifth Board of Studies in Bachelor of Business Administration (BOS -BBA)

Minutes of the Fifth combined Board of Studies in BBA and Commerce, Faculty of Liberal Studies held on Saturday 5th September 2020|4:00 PM - 5:30 PM | Venue -Google Meet: meet.google.com/wjs-pakz-oc

Convener of Meeting

Dean, Faculty of Liberal Studies

In the Chair:

Dean, Faculty of Liberal Studies

The attendees:

Dr. Sunil Kumar Jakhoria,	In-Chair
Professor & Dean, Faculty of Liberal Studies and Faculty of Business Management	
Dr. Sanjay Bhayani, Professor, Department of Business Management, Saurashtra University, Rajkot.	Expert, External Academia
Dr. Hitesh Shukala, Professor, Deptt. of Business Management, Saurashtra University, Rajkot.	Expert, External Academia
Dr. Tarun Sharma, DGM- Strategy, Dalmia Cement Bharat Ltd., New Delhi	Expert, External Industry
Mr. Ketan Gandhi, CEO, KgGuruji.com, Pune.	Expert, External Industry
Dr. Dhìresh Kulshrestha, Associate Professor	Member, Internal
Dr. Prasanta Chatterjee Biswas, Associate Professor	Member, Internal
Dr. Monica Verma, Associate Professor	Member, Internal & BOS Coordinator
Dr. Kiran Kumar Agarwal, Associate Professor & Programme Coordinator BBA	Member, Internal
Mr. Paras Rughani Assistant Professor & Programme Coordinator, BBA(H) and BBA(FM)	Member, Internal
Mr. Ruturaj Doshi, Assistant Professor & Academic Coordinator	Member, Internal

5-BOS (5-September-2020)

Page 1 of 5

Minutes

Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat

The leave of absence was granted to:

Dr. H.C. Sardar,	Expert, External Academia
Professor, Sheth Damodardas School of Commerce, Gujarat	
University.	

At the outset, Prof. Sunil Kumar Jakhoria, Dean (Faculty of Business Management & Faculty of Liberal Studies) and chairman to the Board Of Studies warmly welcomed all the members for attending the 5<sup>th</sup> combined meeting of the Board Of Studies in Bachelors Of Business Administration. The Chairman appreciated the interest and the presence of external members Dr. Sanjay Bhayani, Dr. Hitesh Shukla, who have been a constant support and a source of encouragement to the faculty over the past years. He also introduced the two new members, Dr. Tarun Sharma and Mr. Ketan Gandhi and thanked them for accepting to be on the board and sparing the time from their busy schedule to attend the meeting. The Chair made a brief presentation on the various programmes run under the Faculty of Liberal Studies, the syllabus updation process adopted by the Faculty and about the progress of the Faculty.

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

Item No.BOS/05/01:

To confirm the minutes of 4nd meeting of BOS held on 15.06.2019.

The Board Considered and confirmed the minutes of 4th BOS meeting held on 15.06.2019 as there were no comments from members.

Item No.BOS/05/02:

To report the action taken, where necessary, on the various decisions taken by the BOS in its 2nd meeting held on 15.06.2019.

The Board noted the action taken, where necessary, on the various decisions taken in its 4<sup>th</sup> meeting held on 15.06.2019. The Board also expressed its satisfaction on the action taken report on the various decisions taken in its 2nd meeting held on 15.06.2019.

Item No.BOS/05/03:

All agenda items pertaining to BBA and BBA(H) programme

5-BOS (5-September-2020)

Page 2 of 5

Minutes

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat Item No.BOS/05/03i:

To consider and approve re -allocation of the sessions in course titled "Management of Services" (04BB0406) in semester-4 of BBA and BBA(H) programme.

The Board considered the suggested change and found it appropriate and positive.

"Resolved that the changes as noted above stands approved and is recommended for presentation to the Academic Council after incorporating the changes (Annexure-IA and IB)

Item No.BOS/05/03ii:

To consider and approve an additional text book in course titled "Management of Services" ( 04BB0406) in semester-4 of BBA and BBA(H) programme.

The Board considered the suggested change and found that the book "Service Marketing" authored by Rajendra Nargundkar published by McGraw is good and should be added to the list of existing two text books as additional text.

"Resolved that the addition book to be added to the list of text book as noted above stands approved and is recommended for presentation to the Academic Council after incorporating the changes (Annexure-IA and IB)

Item No.BOS/05/03iii:

To consider and approve change in evaluation scheme for course titled "Applications of Spreadsheet" course code 04LS0212 semester-2 BBA and BBA(H).

The Board went through the scheme of evaluation and found that the changes in the form of online multiple choice question for mid-term and; practical and viva for Marwadi University final exam is a positive change.

"Resolved that the changes in the evaluation as noted above stands approved and is recommended for presentation to the Academic Council after incorporating the changes (Annexure-IIA and IIB)

Item No.BOS/05/04:

All agenda items pertaining to BBA(FM) programme

Item No.BOS/05/04i:

To consider and approve the Removal of topic Value-Credit- Analysis in Unit -5 of the course titled "Financial

5-BOS (5-September-2020)

Page 3 of 5

54

Minutes

Dean
Faculty of Liberal Studies
Marwadi University
Rajkot - 360003, Gujarata

statement Analysis" course code 04BF0205 semester-2 of BBA(FM)

The Board considered the suggested change and found it appropriate.

"Resolved that the change as noted above stands approved and is recommended for presentation to the Academic Council after incorporating the changes (Annexure-IIIA and IIIB)

Item No.BOS/05/04ii::

To consider and approve a typing error in unit 5 of the course titled Modern Banking Operations And Services" subject code 04BB0404 of BBA(FM) Global Packet Radio Services to General Packet Radio Services

The Board approved the minor change of the correction in unit 5 of the course titled Modern Banking Operations And Services" subject code 04BB0404 taught in semester -4 of BBA(FM) Global Packet Radio Services to General Packet Radio Services

"Resolved that the above change stands approved and is recommended for presentation to the Academic Council after incorporating the changes (Annexure-IVA and IVB)

# Item No. BOS/04/05: Discussion on Programme Outcome and Course Outcome attainment

The Board was informed that an analysis of CO attainment revealed that the targets set for the academic year 2019-20 at 46%, have been achieved.

Since the CO attainment is well above the target, a revised target of 48% for CO attainment was proposed by PAC.

The Board noted the attainment levels for year 2019-20 and after due deliberations approved that CO attainment targets for year 2020-21 be set at 48%.

Resolved that Item No. BOS/04/05 is approved and recommend the same to the Academic Council.

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### Item No. BOS/04/06: : Stakeholders Feedback

The Board was informed that the PAC had collected feedback from students, industry and academic experts for curriculum development. The Board was further informed that the suggestions/feedback received were incorporated as shown in above agenda items.

5-BOS (5-September-2020)

Page 4 of 5

Minutes

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat The Board noted with satisfaction the suggestions received and actions taken on them.

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

(Dr. Monica Verma) Member Secretary BOS. (Dr. Sunil Kumar Jakhoria) Chairman

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat



### Faculty of Liberal Studies

# Sixth Board of Studies meeting in Bachelor of Business Administration (BOS-BBA)

#### Minutes

Chaired by:

Dr. Sunil Kumar Jakhoria, Professor & Dean, Faculty of Liberal

Studies

Date:

28-06-2021

Time:

4:00pm -6:00pm

Venue:

Virtual mode via Google link: meet.google.com/xzh-ebkx-dbh

Minutes of the Sixth combined Board of Studies meeting of Bachelor of Business Administration, Faculty of Liberal Studies.

The attendees:

The following members attended the meeting:

Dr. Sunil Kumar Jakhoria,

Chairperson

12.5

Professor & Dean, Faculty of Liberal Studies and Faculty of

Business Management.

Expert External -Academia

Dr. Sanjay Bhayani, Professor, Department of Business Management, Saurashtra

University, Rajkot.

Dr. Tarun Sharma,

Expert External -Academia

Dr. Hitesh Shukla, Professor, Deptt. of Business Management, Saurashtra University,

Rajkot.

Expert External -Industry

DGM-Strategy, Dalmia Cement Bharat Ltd., New Delhi.

Expert External –Industry

Mr. Ketan Gandhi,

CEO, KgGuruji.com, Pune.

Member, Internal Dr. Dhiresh Kulshrestha.

Associate Professor

Member, Internal

Dr. Prasanta Chatterjee Biswas,

Associate Professor

Member, Internal & BoS

Secretary

Dr. Monica Verma, Associate Professor

6-BOS (28-June-2021)

Page 1 of 7

Minutes

Esculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat

Dr. Kiran Kumar Agarwal, Associate Professor and Program Coordinator BBA Member, Internal

Mr. Paras Rughani, Assistant Professor and Program Coordinator BBA (Hons) & BBA(FM) Member, Internal

On confirming the presence of members and the quorum being present, the chairman commenced the meeting.

Prior to commencement of agenda, Prof. Sunil Kumar Jakhoria, chairman to Board of Studies welcomed all the members to the 6<sup>th</sup> combined BOS meeting of Bachelors of Business Administration. The Chairman further expressed special thanks to Dr. Sanjay Bhayani and Dr. Hitesh Shukla, Dr. Tarun Sharma and Mr. Ketan Gandhi, for attending the meeting. The Chair informed the members that now onwards the board of studies meeting will be scheduled twice in a year. He briefed the members that the revision in the curriculum of all the UG programmes namely BBA, BBA(Hons) and BBA(FM), has been done with a view a) to rationalize and streamline the common courses b) to emphasize on application-based assessment c) to offer more choices and specialization d) revising the course outcomes in light of blooms taxonomy e) provide skill enhancement courses. He also briefed about the process adopted to draft the Curriculum and the syllabi.

### Agenda under Discussion:

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

Item No.BOS/06/01:

To confirm the minutes of the previous combined BOS meeting of BBA and Commerce.

The minutes of the 5th combined BOS meeting of BBA and Commerce held on 5<sup>th</sup> September'20 was approved by chairman and mailed to the members on 11<sup>th</sup> September'20. Since no comments were received from any member, the minutes were confirmed.

Item No.BOS/06/02:

To report the action taken, where necessary, on the various decisions taken by the BOS in its 5<sup>th</sup> BOS meeting held on 5<sup>th</sup> September'20

As part of the action taken on the resolutions of 5<sup>th</sup> BOS meeting the members were informed that the action has been taken on all the matters as below:

Agend	da item	Action Taken
Bache	elor of Business Administration &	
Bache	elor of Business Administration (Honors)	Completed
i)	Re allocation of the sessions in "Management of Services" in semester-4	* ###*********************************
ii)	Recommendation of additional text book in "Management of Services" in semester-4	
iii)	Change in evaluation for course titled "Applications of	

6-BOS (28-June-2021) Dean

Page 2 of 7

Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat 54

	Spreadsheet" semester-2 BBA and BBA(H)	
Bache	elor of Business Administration (Financial Markets)	Completed
i)	Removal of topic Value-Credit- Analysis in Unit -5of the course titled financial statement Analysis semester-2	
ii)	Correction of Global Packet Radio Services to General Packet Radio Services	

The Board noted the action taken, and expressed their satisfaction on the action taken report.

Item No.BOS/06/03:

Items for Reporting/Information

No agenda item for information.

Item No.BOS/06/04(i):

To consider and approve revised Programme Structure for BBA Three Years program to be implemented from academic year 2021-22.

The members were briefed regarding the need for revising the curriculum/ programme structure of BBA. Dr. Kiran Agarwal, Programme coordinator BBA presented to the members the revised programme structure and the changes made in comparison to the previous curriculum. The members were informed that the new curriculum offers greater number of course choice in the form of General electives and specializations. The members were informed that as in the earlier years the students will continue to take noncredit courses intended to enhance skills and abilities namely; Corporate Etiquettes in semester 3, Corporate Correspondence in semester 4, Personal Finance in semester 5 and SPSS in semester 6 along with the credit courses. The members were also informed that from the academic year 2021 students will be offered a two-credit university open elective in semester 1,2,3 and 4.

### Courses Shifted

Following suggestion were received:

- 1) To offer course on a) Service marketing or service operations; b) innovation
- 2) To offer flexibility to the faculty in evaluation of the student.
- 3) To implement team work-based assessment.
- 4) If possible French language should be offered in more than one semester as one semester teaching is too less to learn a language.
- 5) If possible, for a 4-credit course there should be 3 theory classes and 1 practical/ field visit session so that the students have a greater practical exposure.

### Conclusion:

The suggestions were discussed and the change 1) was accepted and approved and the programme coordinator was advised to deliberate on feasibility of including suggestion 2 to 5 and come up with suggestions in next BoS. It was resolved as under:

"Resolved that the revised Programme structure stands approved and is recommended for presentation to the Academic Council. (Annexure-I)

6-BOS (28-June-2021)

Page 3 of 7

Minutes

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat Item No.BOS/06/04(ii):

To consider and approve syllabi of all six semesters as per Revised Curriculum for BBA Three Years program to be implemented from academic year 2021-22.

The Board went through the syllabi and approved it to be applicable w.e.f batch of 2021-22 and resolved as under:

"Resolved that the syllabi stand approved and is recommended for presentation to the Academic Council". (Annexure-II)

Item No.BOS/06/05(i):

To consider and approve revised Programme Structure for BBA (Hons) Three Years program to be implemented from academic year 2021-22.

Mr. Paras Rugani, Programme coordinator BBA(Hons) presented to the members the revised programme structure and the changes made in comparison to the previous curriculum. The members were informed that the new curriculum offers greater number of course choice in the form of General electives and specializations. The students will be offered eight credit certification courses during the three years programme and eight specializations to choose from. The members were informed that as in the earlier years the students will continue to take noncredit courses intended to enhance skills and abilities namely; Corporate Etiquettes in semester 3, Corporate Correspondence in semester 4, Personal Finance in semester 5 and SPSS in semester 6 along with the credit courses. The members were also informed that from the academic year 2021 students will be offered a two-credit university open elective in semester 1.2.3 and 4.

Following suggestion were received:

- 1) To offer course on Service marketing or service operations; b) innovation and C) Total Quality Management
- 2) To offer flexibility to the faculty in evaluation of the student.
- 3) To implement team work based assessment.
- 4) If possible French language should be offered in more than one semester as one semester teaching is too less to learn a language.
- 5) If possible for a 4 credit course there should be 3 theory classes and 1 practical/ field visit session so that the students have a greater practical exposure.

#### Conclusion:

The suggestions were discussed and the change 1) was accepted and approved and the programme coordinator was advised to deliberate on feasibility of including suggestion 2 to 5 and come up with suggestions in next BoS. It was resolved as under:

"Resolved that the revised Programme structure stands approved and is recommended for presentation to the Academic Council". (Annexure-III)

> Dean Faculty of Liberal Studies Marwadi University

Rajkot - 360003, Gujaraþage 4 of 7

6-BOS (28-June-2021)

Item No.BOS/06/05(ii):

To Consider and approve syllabi of all six semesters as per Revised Curriculum for BBA(Hons) Three Years program to be implemented from academic year 2021-22.

The Board went through the syllabi and approved it to be applicable w.e.f batch of 2021-22 and resolved as under:

"Resolved that the syllabi stands approved and is recommended for presentation to the Academic Council". (Annexure-IV)

Item No.BOS/06/05(iii):

To consider and approve a) offering additional specializations namely; Digital Marketing, Entrepreneurship and Logistics Management, b) the course of reading and c) the syllabi for BBA(Hons) batch of 2019-22 Three Years program.

The details are as follows:

Specialization Name	Course Name	Semester	Batch	Year of Introduction
Logistics	Inventory Management	V	2019-22	2021
	Warehousing, Distribution & Transportation Management	V	2019-22	2021
	Packaging Management	V	2019-22	2021
	IT in Logistics Management	VI	2019-22	2022
	International Logistics	VI	2019-22	2022
<b>Digital Marketing</b>	Essentials of Digital Marketing	V	2019-22	2021
	Applications of SEO, SEM & Web Analytics	V	2019-22	2021
	Website Development	V	2019-22	2021
	Contemporary Practices of Digital Marketing	VI	2019-22	2022
	Social Media Marketing	VI	2019-22	2022
Entrepreneurship		V	2019-22	2021
	Social Entrepreneurship and Corporate Entrepreneurship	V	2019-22	2021
	Fundamentals of International Business	V	2019-22	2021
	Legal Aspects of Startups and IPR	VI	2019-22	2022
	Funding for Start-Ups	VI	2019-22	2022

The Board considered and approved the three new specializations namely, Digital Marketing, Entrepreneurship and Logistics Management, the five course of reading in each specialization and the syllabi for the same to be offered for the batch of 2019-22 i.e., w.e.f. 2021.

"Resolved that the proposed specializations along with courses of reading and the syllabi stands approved. It is recommended for presentation to the Academic Council". (Annexure-V)

6-BOS (28-June-2021)

Page 5 of 7

Minutes

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat Item No.BOS/06/06(i):

To consider and approve revised Programme Structure for BBA(FM) Three Years program to be implemented from academic year 2021-22.

Mr. Paras Rugani, Programme coordinator BBA(FM) presented to the members the revised programme structure and the changes made in comparison to the previous curriculum. The students will be offered eight credit courses of NCFM during the three years programme. The members were informed that as in the earlier years the students will continue to take noncredit courses intended to enhance skills and abilities namely; Corporate Etiquettes in semester 3, Corporate Correspondence in semester 4, Personal Finance in semester 5 and SPSS in semester 6 along with the credit courses. The members were also informed that from the academic year 2021 students will be offered a two-credit university open elective in semester 1,2,3 and 4.

Following suggestion were received:

- 1) To offer course on Financial Behaviour.
- If possible, for a 4-credit course there should be 3 theory classes and 1 practical/field visit session so that the students have a greater practical exposure.

#### Conclusion:

The suggestions were discussed and the programme coordinator was advised to deliberate on feasibility of including the same and come up with suggestions in next BoS. It was resolved as under:

"Resolved that the revised programme structure stands approved and is recommended for presentation to the Academic Council. (Annexure-VI)

Item No.BOS/06/06(ii):

To consider and approve syllabi of all six semesters as per Revised Curriculum for BBA(FM) Three Years program to be implemented from academic year 2021-22.

The Board went through the syllabi and approved it to be applicable w.e.f batch of 2021-22 and resolved as under:

"Resolved that the syllabi stand approved and is recommended for presentation to the Academic Council". (Annexure-VII)

Item No. BOS/06/07: Discussion on Programme Outcome and Course Outcome attainment

The Board was informed that an analysis of CO attainment revealed that the targets set for the academic year 2020-21 at 48%, have been achieved.

Since the CO attainment is well above the target, a revised target of 50% for CO attainment

6-BOS (28-June-2021)

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat Page 6 of 7

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Minutes

was proposed by PAC.

The Board noted the attainment levels for year 2021-22 and after due deliberations approved that CO attainment targets for year 2021-22 be set at 50%.

Resolved that Item No. BOS/06/07 is approved and recommend the same to the Academic Council.

Item No. BOS/06/08: : Stakeholders Feedback

The Board was informed that the PAC had collected feedback from students, industry and academic experts for curriculum development. The Board was further informed that the suggestions/feedback received were incorporated and accordingly the programe structure has been revised.

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

#### Vote of Thanks

There being no other business, the meeting ended at 6:10 pm with a vote of thanks to the chair.

(Dr. Monica Verma) Member Secretary BoS. (Dr. Sunil Kumar Jakhoria) Chairperson

Dean Faculty of Liberal Studies Marwadi University Rajkot - 360003, Gujarat



#### **Faculty of Management Studies**

### Seventh Board of Studies meeting in Bachelor of Business Administration (BOS-BBA)

#### Minutes

Chaired by:

Dr. Sunil Kumar Jakhoria, Professor & Dean, Faculty of

Management Studies

Date:

27-12-2021

Time:

4:00pm -6:10pm

Venue:

Virtual mode via Google link: meet.google.com/mzw-szya-orb

The attendees:

The following members attended the meeting:

Dr. Sanjay Bhayani,

Expert External -Academia

Professor, Department of Business Management, Saurashtra

University, Rajkot.

Dr. Hitesh Shukla,

Expert External -Academia

Professor, Deptt. of Business Management, Saurashtra

University, Rajkot.

Dr. Tarun Sharma,

Expert External -Industry

DGM-Strategy, Dalmia Cement Bharat Ltd., New Delhi.

Mr. Ketan Gandhi,

CEO, KgGuruji.com, Pune.

Expert External -Industry

Dr. Prasanta Chatterjee Biswas,

Associate Professor

Member, Internal

Dr. Monica Verma,

Associate Professor

Member, Internal & BoS

Secretary

Dr. Kiran Kumar Agarwal,

Associate Professor and Program Coordinator BBA

Member, Internal

Mr. Paras Rughani,

Assistant Professor and Program Coordinator BBA(H) & BBA(FM)

Dean

Univer

Member, Internal

On confirming the presence of members and the quorum being present, the chairman

commenced the meeting

7-BOS (27-Dec-2021)

Page 1 of 6

Minutes

Prior to commencement of agenda, Prof. Sunil Kumar Jakhoria, chairman, Board of Studies welcomed all the members to the 7<sup>th</sup> BOS meeting of Bachelors of Business Administration and expressed special thanks to Dr. Sanjay Bhayani and Dr. Hitesh Shukla, Dr. Tarun Sharma and Mr. Ketan Gandhi, for attending the meeting.

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

#### Agenda under Discussion:

Item No.BOS/07/01:

To confirm the minutes of the previous combined BOS meeting of BBA and Commerce.

The minutes of the 6th combined BoS meeting of BBA and Commerce held on 28th June'21 was approved by chairman and mailed to the members on 24th July'21. Confirmation for same was received from all the members by 27th July'21, the minutes were confirmed.

Item No.BOS/07/02:

To report the action taken, where necessary, on the various decisions taken by the BOS in its 6th BOS meeting held on 28th June'21

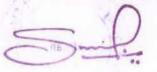
As part of the action taken on the resolutions of 6th BOS meeting the members were informed that the action has been taken on all the matters as below:

Sr. No	Suggestions	Action Taken
1	To incorporate course on	Noted and completed
	a) Service marketing or Service operations  b) Total Quality Management c) Innovation	After deliberation following was decided:  a) Course titled 'Management of services' to be offered as elective in semester 4 to BBA, BBA(H) and BBA(FM)  b) Unit on innovation added to the course titled Start – up Management. After incorporating the change, the new title of the course is 'Innovations and Start-up Management.'
2	To offer course in French language in more than one semester.	
3	Faculty should have liberty to decide Evaluation Scheme.	The members were informed that we already have provision for the same, which are as follows:  a) Faculty in all the courses offered in a programme have complete autonomy to decide the evaluation scheme for 50 %

7-BOS (27-Dec-2021)

Page 2 of 6

Dean



Minutes

<ul> <li>(internals) of the total marks and;</li> <li>b) in courses identified as departmental courses the faculty has complete autonomy to decide evaluation scheme for whole 100%</li> </ul>

The Board noted the action taken, and expressed their satisfaction on the action taken report.

#### Item No.BOS/07/03:

#### Items for Reporting/Information

 Henceforth, Faculty of Business Management and Faculty of Liberal Studies are merged and will be known as Faculty of Management Studies (FMS).

2) In the 6th BoS the FMS decided on offering Open elective of 2 credits across 1st to 4th semester of all the Under Graduate courses ie., BBA, BBA(H) and BBA (FM),. The same was reflected in the programme structure of all the programmes and the same was presented in 6th BoS meeting. However, later at the university level it was decided that the Open Electives shall be of 3 credits and offered in 3rd and 4th semester. As a result, the subsequent changes in the Programme structure of BBA, BBA(H) and BBA (FM) are being informed to all the board members. Annexure-I

Item No.BOS/07/04:

Changes in the course of teaching in semester V of Entrepreneurship specialization and course of teaching in semester VI of Digital Marketing specialization. And their respective syllabuses.

The members were informed that in the 6th BoS it was approved that in BBA(Hons) programmed

- i) In semester 5 course titled "International Business Procedures" with course code 04BH0506 will be the common course to be offered in Entrepreneurship and International Business specialization.
- ii) Similarly, in semester -6 course titled "Social Media Marketing" with course code 04BH1603 will be the common course for teaching in Marketing and Digital Marketing specialization.

But the central examination department was of the opinion that same course cannot be offered in two specializations because there will be some administrative issues. This was deliberated by respective subject area committees and the Programme Academic committee; and finally decided that hence forth:

- a) In Semester- 5
  - i) Course titled "Fundamentals of International Business" with course code 04BH0504 will be taught in International Business specialization; and
  - ii) Course titled "International Business Procedures" with course code 04BH0506 will be taught in Entrepreneurship specialization
- b) In Semester- 6
  - i) Course titled "Social Media Marketing" with course code 04BH1603 will be taught in Marketing specialization

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7-BOS (27-Dec-2021)

Page 3 of 6

ii) Course titled "Marketing Through Social Media Platforms" with course code 04BH0609 will be taught in Digital Marketing specialization

Details of the changes are as follows:

Programme Name	Specialization	Ch	Semester	Batch	
		From	То		
BBA(H)	International Business	Fundamentals of International Business (04BH0504)	Fundamentals of International Business (04BH0504)	V	2021-24
	Entrepreneurship	Fundamentals of International Business (04BH0504)	International Business Procedures (04BH0506)	V	2021-24
	Marketing	Social Media Marketing (04BH1603)	Social Media Marketing (04BH1603)	VI	2021-24
	Digital Marketing	Social Media Marketing (04BH1603)	Marketing Through Social Media Platforms (04BH0609)	VI	2021-24

The members reviewed and approved the proposed changes and the syllabuses of "International Business Procedures" and "Marketing Through Social Media Platforms". It was resolved:

"Resolved that Item No.BOS/07/04 stands approved and are recommended for presentation to the Academic Council". Annexure-II

Item No.BOS/07/05:

To consider and approve syllabus and teaching scheme of University Open Elective to be offered by FMS

Dr. Sunil Kumar Jakhoria informed and explained to the board members that university (keeping in line with one of the major proposals of NEP to offer greater flexibility in courses offered to the students) has decided to introduce University open electives, a concept approved by the Academic Council. The student on commencement of 3<sup>rd</sup> semester has to choose 2 electives during the entire duration of his/her programme and those electives will be deemed as university wide open elective. To begin with, these electives will be offered in under graduate programmes and later extended to Post Graduate programmes. A pool of such university electives will be

7-BOS (27-Dec-2021)

Page 4 of 6

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Minutes

created where every department in the university will contribute. In addition, courses like music, NCC, sports, performing arts etc. are also to be included. These courses will be available to the students other that the department/ faculty offering it. As a common guideline these courses shall not be too technical in nature, there is no lab component and there is no pre-requisite to the course. The Faculty of Management Studies, to begin with will offer nine courses, four in management and five in commerce.

The courses and teaching and evaluation were presented before the members for discussion and approval:

Course Title	Course code	Credits	Contact Hours
Entrepreneurship	04OP0006	3	36 hr
Digital Marketing	04OP0007	3	36 hr
Data Analysis using Spreadsheet	04OP0008	3	36 hr
Basics of Supply Chain Management	04OP0009	3	36 hr

And the evaluation scheme for each course shall be:

	Component	Weightage
Α	Continuous Evaluation Component (Assignments / Quizzes /Class Participation etc.)	20% (C.S.E)
В	Internal Assessment	30% (I.A.)
С	End-Semester Examination	50% (External assessment)

Following comments and suggestion were received:

1) Course titled "Entrepreneurship", "Tax Planning for Individuals" and "Basics of Supply Chain Management" were approved by the members.

2) In the Course titled "Digital Marketing" more teaching hour should be allocated to unit 3 as the topic to be dealt in the unit have great potential for skilling and employability.

3) In the Course titled "Data Analysis using Spreadsheet" solver and Pivot table should be mentioned in unit -1 for greater clarity during course delivery.

#### Conclusion:

The suggestions were discussed and the changes were accepted and approved. It was resolved as under:

"Resolved that all the syllabi and teaching and evaluation scheme for each course stands approved and are recommended for presentation to the Academic Council". Annexure-III

### Item No. BOS/07/06: Discussion on Programme Outcome and Course Outcome attainment

The Board was informed that an analysis of CO attainment revealed that the targets set for the academic year 2021-22 at 50%, have been achieved.

7-BOS (27-Dec-2021)

Page 5 of 6

Minutes

PAC proposed the CO attainment target for academic year 2022-23 at 50%.

The Board noted the attainment levels for year 2021-22 and after due deliberations approved that CO attainment targets for year 2022-23 be set at 50%.

Resolved that Item No. BOS/07/06 is approved and recommend the same to the Academic Council.

Item No. BOS/07/07: : Stakeholders Feedback

The Board was informed that the PAC had collected feedback from students, industry and academic experts on the syllabi and curriculum. The Board was further informed that the suggestions/feedback received were incorporated.

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

#### Vote of Thanks

After discussion on the agenda Dr. Sunil Kumar Jakhoria informed the members about the progress made by the faculty and the university; and decision by the University for the academic development of faculty and over all research environment since the last BOS.

There being no other business, the meeting ended with a vote of thanks to all present.

(Dr. Monica Verma) Member Secretary BoS. (Dr. Sunil Kumar Jakhoria) Chairperson



### B. Tech Electrical Engineering Faculty of Technology Marwadi University

#### 1.1.2 Board of Studies meeting minutes

(Program revision)



<b>Date:</b> 28/05/2019			Meeting No: 01	
Start Time: 1	1:00 AM	End Time: 1:00 PM	Total Time:	2 Hours
Chaired by		Dr. Sarang Pande		
Agenda – 1	Welcome of Board of Studies Member			
	The Chairman BOS, Dr. Sarang Pande, welcomed all the members and experts of the			
Resolution	BOS pre	sent in the meeting. Co	nmittee members put their inn	novative ideas, views,
	suggestio	ons and fruitful discussion	n for the syllabus.	
	_			
Agenda – 2			Program Outcomes (PO), Pro	-
	Outcom	es (PSO) & Course Ou	comes (CO) for 1st Year PG	and UG (starting
		xt academic year).		
Resolution	The depa	artment established Miss	on and Vision (Annexure – II)	).
	As per	laid out procedure for s	llabus design by Marwadi Un	iversity, stakeholders
	like Inc	lustrial experts, subject	experts from other institute	were consulted. Also
	syllabus of AICTE model curriculum, GATE syllabus and syllabus of various			
	renowned institute/university was considered & a draft was presented in department			
	meeting.			
	Departn	Department had presented PSO & PO as prescribed by NBA and course structure		
	for 1st y	for 1st year subjects of PG.		
	The PO	presented are in line wi	h OBE implementation and as	suggested by various
	accredit	ation agencies/councils.	PO and PSO were finalized a	as per the attachment
	(Annex	ure III).		
Agenda – 3			starting new PG program in	Electrical
	Enginee			
	Discussion	on carried out on introdu	cing the new PG program in e	electrical engineering.
	Head of	department suggested	the first specialization of Po	ower Electronics and
	Resolution Electric Drives as per the current trends in the industry and industry expert agrees with the suggestion. Reports from FAME-I, FAME-II, Global EV out			industry expert also
Resolution				, Global EV outlook
report 2019 were discussed and so, specialization of Electric vehicle wa				
while keeping the future trends and development and possible emp			possible employment	
	opportun	ities which may be creat	ed locally and globally.	
1				



Agenda – 4	To discuss and approve the overall teaching scheme of Post-Graduation
	Programme to be offered by Marwadi University in Electrical Engineering.
	Teaching schemes of Master of Technology Electrical Engineering with
Resolution	specialization "Electric Vehicle" & "Power Electronics & Electric Drive" are
Resolution	discussed and finalized. Alterations of few titles and credit hours are suggested and
	updated among syllabus.
Agenda – 5	Discussion on faculty feedback.
Resolution	As per the faculty feedback received the faculties have proposed syllabus/ change in
	syllabus which discussed in BOS meeting and following resolution were made. After
	due discussion & incorporation of suggestions from BOS members.
Aganda 6	To discuss and approve the syllabus of Sem-1 and Sem-2 of Master of
Agenda – 6	**
D 1 4'	Technology (Electrical Engineering) Program.
Resolution	Syllabus of all subjects are discussed and updated. Alterations of few topics, books
	and elective subjects are suggested and updated among syllabus as per the
	feedback/comments by the industry experts.
Agenda – 7	Value Added Course, Co-Curricular, Extra Curricular activity and skill
	development course.
Resolution	Discussion to regularly conduct Co-Curricular, Extra Curricular activity considering
	the skill course, few workshops/Seminar/Trainings should be provided to improve
	the soft skills, software used in industries & other programs helping students to
	improve the employability/Skill Development/ Entrepreneurship. Marwadi
	University has separate vertical in the form of Learning & Development centre so
	their program like Special Interest Group (SIG), SPT & soft skills related program
	should be offered similarly. Department can offer Hardware academy, courses on
	should be offered similarly. Department can offer Hardware academy, courses on PLC SCADA automation, energy audit, Renewable energy source, Latex (For report
	PLC SCADA automation, energy audit, Renewable energy source, Latex (For report
	PLC SCADA automation, energy audit, Renewable energy source, Latex (For report writing), Software (i.e. MATLAB) related training & Electric Vehicle (EV) etc.
Agenda – 8	PLC SCADA automation, energy audit, Renewable energy source, Latex (For report writing), Software (i.e. MATLAB) related training & Electric Vehicle (EV) etc.
Agenda – 8 Resolution	PLC SCADA automation, energy audit, Renewable energy source, Latex (For report writing), Software (i.e. MATLAB) related training & Electric Vehicle (EV) etc. looking to the current & future trends in industry.
	PLC SCADA automation, energy audit, Renewable energy source, Latex (For report writing), Software (i.e. MATLAB) related training & Electric Vehicle (EV) etc. looking to the current & future trends in industry.  Implementation of Choice Based Credit System and non-credit courses.



Note: Masting was sale duled abusically at MD250				
Note: Meeting was scheduled physically at MB3  Meeting Attended By: External Experts	Meeting Attended By: Internal Experts			
1. Dr. Vivek Pandya	1. Dr. Sarang Pande			
2. Mr. Dinesh Kapadiya	2. Dr Rajesh Patel			
3. Dr Ranjan Behera	3. Dr Jignesh Makwana			
	4. Mr. Amit Ved			
	5. Prof. Nishant Kothari			



#### Annexure - I

#### From:

Dr. Jignesh Makwana Associate Professor, Department of Electrical Marwadi University, Rajkot, Gujarat – 360 003

Date: 28th May, 2019

#### To,

The Registrar, Marwadi University, Rajkot, Gujarat – 360 003

**Sub**: Attendance sheet of 1<sup>st</sup> Board of Studies (BOS) meeting for Post graduate program, Electrical Engineering department, Faculty of PG Studies, Marwadi University

Dear Sir,

Please find herewith attendance sheet of Committee members:

Name of Committee Member	Designation & Affiliation	Signature
Prof.( Dr.) Sarang Pande Chairman (M) 757301280	Professor & Dean, PG Studies, Marwadi University	Sande
Prof.(Dr.) Vivek Pandya External Member (M)9824225220	Professor, EE Department School of Technology Pandit Dindayal Petroleum University	
Mr. Dinesh Kapadiya External Member (M)9712910816	Self Employed, Retd. General Manager, Hitachi Hirel Power Electronics Pvt. Ltd. Gandhinagar.	D. 7'
Dr. Rajesh Patel Internal Member (M)9601260123	Professor, Head, Electrical Engineering. Department, FOE, MEFGI	
Dr. Jignesh A. Makwana Internal Member (M) 8141879821	Associate Professor, EED, PG Studies. Marwadi University	John (
Mr. Amit Ved Internal Member (M) 9925148051	Associate Professor, & Head, Electrical Engineering. Department., FOT, MEFGI	sur!
(M) 9925148051 Nismant Lettran Mr. Fapankumar Trivedi Internal Member (M)9879419806 99981343	Sr. Assistant Professor, & Head, CECA) Power electronic & Electrical drives, FOPG, MEFGI	1993

Dr. Yignesh Makwana

Program Coordinator, EED, PG Studies

Marwadi University, Rajkot.



#### Annexure - II

#### Department Vision: -

To contribute in improving living quality by developing responsible, technical skilled, creative and industry ready Electrical Engineers in the global context.

#### Department Mission: -

- 1. To provide pleasant learning environment, platform to strengthen the skills and expand the interest of graduates
- 2. To develop individual research and thinking power to understand and solve society's and industry's problems related to electrical and electronics systems.
- 3. To encourage and provide support to be an entrepreneur by arranging idea sharing sessions with business mentors and motivating them to discover new opportunities including becoming Energy Auditor, Energy Manager and Consulting Engineer.
- 4. Inculcating attitudes, values, morals and vision that will prepare students for lifetime continued learning and leadership in their chosen careers.



#### Annexure - III

The Program Outcomes (PO) & Program Specific Outcomes (PSO) are as follows -

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
104	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
<b>D</b> 00	need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and
DOO	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
1010	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.

The Program Specific Outcomes (PSO) for UG Program are as follows –

PSO1	Students shall have knowledge and skills in Electrical and Electronics fields so as to grasp
	engineering trade-offs, analyse, design, and synthesize data and technical concepts to form
	products and solutions for the real life problems.
PSO2	Students shall have competence to take challenges associated with future technological
	issues associated with green energy, energy harvesters, energy conservators, energy cells,
	ocean energy, smart grid, wire-less energy transmission etc.

The Program Specific Outcomes (PSO) for PG Program are as follows –

PSO1 Ability to design, develop and troubleshoot i		Ability to design, develop and troubleshoot major components of electric vehicle
	PSO2	Acquire skills for the design and control of power electronics-based solutions for energy
		efficiency in industrial and residential applications



#### Faculty of Technology Electrical Engineering

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

<b>Date:</b> 31/10/2020			<b>Meeting No:</b> 0	)2	
Start Time: 10	:30 AM	<b>End Time:</b> 01:00 PM		Total Time: 02:30	
Presented by		Dr. Amit Ved			
Agenda – 1	Welcome of Board of Studies Member				
	Dr. An	nit Ved Head Electric	al Engineering	Department, welcomed all the	
Resolution	membe	rs and experts of the B	OS present in t	he meeting. Committee members	
Resolution	put their innovative ideas, views, suggestions and fruitful discussion for the				
	syllabus.				
Agenda – 2	MOM	of last meeting.			
Danalastian	The Mo	OM was read by Chairi	man (BOS), wi	th consent from all members, the	
Resolution	minutes	s of meeting was passed	l.		
Agenda – 3	B. Tech	Electrical Engineerin	g Draft teachin	g scheme for sem-1 to sem-8	
Resolution	All con	nmittee members agree	d to scheme of	f B. Tech. Electrical Engineering	
	sem-1	and sem-2 as it is and	suggested no	modification in the scheme. The	
	scheme	will be effective from	2020-21.		
	Prof. S	antoshkumar Vora sug	gested that the	e course of 01EE0403 - control	
	system	engineering should be i	introduced in se	em-3 as it helps in study of Power	
	Electro	nics and Power System	at early stages	s. Prof. Amit Ved highlighted the	
	importa	ance of the course in s	em-4 to which	Prof. Santoshkumar Vora, Prof.	
	Ranjan	Behera and committee	members agree	ed.	
	Dr. Jigi	nesh Makwana suggeste	ed that Electric	al Machine-I has been introduced	
	at the a	ppropriate stage of learn	ning. However,	student should learn fundamental	
	of Elec	tromagnetics in details	in the course	Basic of Electrical Engineering	
	(01EE0	109).			
	Prof. N	A. C. Chudasama clar	ified that topic	cs of electrical machine require	
	prelimi	nary knowledge of ele	ctrical science	to understand the principle and	
	operation	on and hence no mod	ification is rec	quired. The committee members	
	agreed	to suggestion of Prof. M	I. C. Chudasan	na.	
		anjan Behera proposed	that student sh	ould undergo industrial training -	
	summe	r training after sem-6 fo	r at least 4 weel	ks. The committee appreciated the	
		•		students of electrical engineering.	
		= =	=	of DSP based control of Power	
				introduced in the scheme before	
		o which all committee i	• .		
sem-7 to which an committee					



	Prof. Santoshkumar Vora suggested that (Program Elective-III) – Battery
	Chargers for Electric Vehicles should be combined with smart grid interface of
	EV (Program Elective- IV) course and proposed as a single course. A course on
	special machine for electric vehicles should be added in Program Elective – IV.
	Prof. Behera and Mr. Vinod Patel suggested that closed loop control of DC-DC
	converter should also be added in the course Battery Chargers for Electric
	Vehicles.
	Prof. Behera and Prof. Vora suggested that the course Microgrid (Program
	Elective – III) should be introduced in sem-8 whereas Power System Operation
	& Control (Program Elective - IV) should be introduced in sem-7. The
	committee members agreed to suggestions.
	Mr. Vinod Patel suggested that simulation-based learning should be considered
	important tool for teaching and learning to impart skills as well as necessary
	understanding to learner at various levels. All committee members agreed to
	suggestion of Mr. Vinod Patel.
	It was unanimously decided that separate form should be shared with all
	committee members to comment on the course learning outcomes. It was shared
	and agreed upon by all committee members that design of course learning
	outcomes should not be too specific to any topic.
	Prof. M. C. Chudasama, Prof. Santoshkumar Vora and Prof. Ranjan Behera
	emphasized the importance of theory course on Electrical Measurement and
	Measuring Instruments. Based on the suggestions, the course of EMMI will be
	introduced in sem-6 in the revised scheme whereas the course on solid state drives
	will be taught as Program Elective in sem-VI under the group Power Electronics.
Agenda – 4	Draft Syllabus of B. Tech. sem-1 and sem-2
	The committee members suggested addition of two experiments in the course
D 14	Basics of Electrical Engineering(01EE0109) and Elements of Electrical
Resolution	Engineering(01EE0101)
	1. Verification of two wattmeter method for three phase power measurement
	2. Study of energy measurement using energy meters
Agenda – 5	Draft Syllabus of B. Tech. sem-3 and sem-4
Resolution	Prof. Santoshkumar Vora, Prof. Ranjan Behera and Prof M C Chudasama
110501441011	suggested that there should be additional topic of Permanent Magnet DC
	machine and special purpose transformer in the course Electrical Machine-1.
	Prof. Vora suggested that specific topics such as
	Study of different error in measurement



	2. Study of current shunt and voltage divider
	Should be added in the course Measurement Lab.
Agenda – 6	Revised draft teaching scheme for M. Tech Electrical Engineering in
	specialization of Electric and Hybrid Vehicle and Power Electronics and Electrical
	Drives with effect from AY 2020-21
Resolution Mr. Vinod Patel suggested that the course in DSP based control of the course in industrial application as	
Electronic Converters has little relevance in industrial application and	
replaced by relevant course. Prof. Santoshkumar Vora suggested the	
on Special Machines / Advanced Electrical Machines should	
suggested course.	
	In revised scheme, a course on Advanced Electrical Machines is introduced as
	mandatory course.
	All committee members agreed to remaining courses in the revised scheme.
Agenda – 7	Syllabus of M. Tech. – Electrical Engineering sem-3 and sem-4 for Academic
	Year 2020-21
Resolution	Syllabus of M. Tech. – Electrical Engineering sem-3 and sem-4 for Academic
	Year 2020-21
Agenda – 8	Revised syllabus of M. Tech. – Electrical Engineering – sem-1 and sem-2
Agenda – 8 Resolution	Revised syllabus of M. Tech. – Electrical Engineering – sem-1 and sem-2  Mr. Vinod Patel, Dr. Jignesh Makwana and Prof. Ranjan Behera suggested a
	Mr. Vinod Patel, Dr. Jignesh Makwana and Prof. Ranjan Behera suggested a
	Mr. Vinod Patel, Dr. Jignesh Makwana and Prof. Ranjan Behera suggested a unit on state-space modelling and control of power electronic converter,
	Mr. Vinod Patel, Dr. Jignesh Makwana and Prof. Ranjan Behera suggested a unit on state-space modelling and control of power electronic converter, switching function of power electronic converter in the course Power Electronic
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erved that the few CO's were not attain in previous year, the committee
ent level of course outcomes (CO's), Program Outcomes (PO's) is
pasics of control technique. The revised syllabus will include Unit-4 Digital Control Techniques.
Unit-2 which is advanced control technique, should be introduced after
Unit-3 should be promoted to Unit-2
discrete time domain should be included in Unit-1.
Discretization of signal and conversion from continuous time domain to
ggestions.
Electronic Systems (01PEED0205). The revised syllabus will include
nmittee suggested following correction in the course Digital Control of
course on advanced / special machine for EVs.
Removal of SRM and associated control. The content should be part of
Removal of Salient Pole synchronous machine and associated control
Tux Estimation digorithms in tivi
al Drives (01PEED0201) Flux Estimation algorithms in IM



Resolution	In addition to Core courses, electi attention will be paid to skills corequired by industries.	emphasizes on the overall development of learner. ves courses and humanity science courses, special burses, entrepreneurship course and course that is span as per the requirement of students in Electrical	
	The committee accepted the proposal and applauded the move by the department and university.		
	The syllabi of these courses are designed by Learning and Development department and recommended by the committee.		
	was scheduled virtually on Google M	leet.	
	google.com/qdg-oejv-wuz	Meeting Attended By: Internal Experts	
Meeting Attended By: External Experts  1. Dr. M C Chudasama		1. Dr Rajendrasinh Jadeja	
	ntoshkumar Vora	2. Dr. Jignesh Makwana	
3. Dr Ranjan Behera		3. Dr. Rajesh Patel	
4. Mr. Vi	•	4. Dr Amit D. Ved	
		5. Dr. Tapankumar Trivedi	
		6. Prof. Nishant Kothari	

#### Attendee:

Sr. No.	Name of BOS Member	Organization	Signature
1	Dr. Rajendrasinh B. Jadeja	Professor & Dean, Marwadi University, Rajkot	Online Mode
2	Dr. M. C. Chudasama	Head, Electrical Engineering, L. D. College of Engineering, Ahmedabad	Online Mode
3	Dr. Santoshkumar Vora	Professor and Head of Department, Electrical Engineering, Nirma University, Ahmedabad	Online Mode
4	Dr. Ranjan Bahera	Professor, Dept. of Electrical Engineering, IIT Patna, Patna, Bihar	Online Mode
5	Mr. Vinod Patel	AGM (R & D), Amtech Electronics India Ltd., Gandhinagar	Online Mode
6	Dr. Jignesh Makwana	Director, RhyMak Electronics, Bhavnagar,	Online Mode



Head of the Department Electrical Engineering Marwadi University



#### Faculty of Technology Electrical Engineering

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

7	Dr. Rajesh Patel	Professor, Marwadi University, Rajkot	Online Mode
8	Dr. Amit D. Ved	Head, Electrical Engineering, Marwadi University, Rajkot	Online Mode
9	Dr. Tapan Trivedi	Head-PG (Power Elect. & Ele. Drives), Marwadi University, Rajkot	Online Mode
10	Mr. Nishant Kothari	Head-PG (Power System), Marwadi University	Online Mode

Head of the Department Electrical Engineering Marwadi University



#### **Minutes of Meeting**

<b>Date:</b> 26/06/2	2021		<b>Meeting No:</b>	03
Start Time: 2	2.30 PM	<b>End Time:</b> 4:30 PM		<b>Total Time:</b> 2 Hours
Presented by		Dr. Amit Ved		
J				
Agenda – 1	Welcom	Welcome of Board of Studies Member		
8				Department, welcomed all the
			= =	he meeting. Committee members
Resolution		_	_	ns and fruitful discussion for the
	syllabus.			
Agenda – 2	MOM o	f last meeting: 31/10	0/2020	
David d'acc	The MO	M was read by Chair	man (BOS), wi	th consent from all members, the
Resolution	minutes	of meeting was passe	ed.	
Agenda – 3	<b>Draft Sy</b>	llabus of B. Tech. s	em-5 and sem	<mark>-6</mark>
	• Draf	t syllabus for B. Te	ch sem-5 and	6 was presented and following
	points were suggested:			
	• Power System-II (01EE0501) - No of contact hours for Unit:			
	Overvoltage and Transient should be increased to 12. A reference book:			
	computer aided power system analysis by M. A. Pai to be included.			
	• Electrical Machine-II (01EE0503) - No. of contact hours for Unit:			
	Special Machines is less than expected to discuss all topics. It was			
	sugg	gested to increase no	. of sessions fo	or special machines. It was also
	sugg	gested to change a ke	yword in Cours	se Outcome 2. In addition to this,
	it wa	as recommended to a	dd induction go	enerators and their fundamentals
	in th	e unit of Induction N	Iachine.	
Resolution	• High	n Voltage Engineeri	ng (01EE0507	) - It was suggested that more
		-		added in the Non-Destructive
				ould be added in the Unit-1
		trostatic fields, contr	•	
		•	′ .	pic on traction drives should be
		ed to the Unit-6 Appl		
			•	603) - The student version of
	_		=	eriments should be added in the
	_	bus. This will enhan		_
				gy Storage Systems (01EE0606)
			ation on grid sl	hould be added as a topic in Unit-
	4 of	proposed syllabus.		



	<ul> <li>Switch Mode Power Supplies (01EE0607) - A separate Unit on Synchronous Rectifiers should be added after the Unit-2 Resonant Converters.</li> <li>Power System Practice and Design (01EE0608) - The title of Unit-6 be revised to Performance Improvement of Power System.</li> <li>In addition to this, it was suggested that the title of the experiment be checked in all draft syllabus and they should be more specific. Any vague word should be immediately replaced with an appropriate action word.</li> <li>All above suggestions are accepted and incorporated in the revised syllabus document.</li> <li>The syllabus of B. Tech. sem-5 and sem-6 was passed with given suggestions.</li> </ul>
Agenda – 3	Introducing Creativity, Problem Solving and Innovation as a University
	Elective Subject
	Creativity, Problem Solving and Innovation subject is to be offered in
Resolution	4 <sup>th</sup> , 6 <sup>th</sup> or 8 <sup>th</sup> semester where interested students can choose as university
	elective course for 2 credits.
Agenda – 4	B. Tech. – Electrical Engineering Draft teaching scheme from sem-1 to
Agenda – 4	B. Tech. – Electrical Engineering Draft teaching scheme from sem-1 to sem-8 w.e.f 2021-22
Agenda – 4  Resolution	
Resolution	<ul> <li>Sem-8 w.e.f 2021-22</li> <li>The committee accepted the revised teaching scheme of B. Tech Electrical Engineering from sem-1 to sem-8 with effect from Academic year 2021-22 with following modifications:</li> <li>In the Professional Elective IV- Power System Group, a course on Restructured Power System should be introduced.</li> <li>In Professional Elective III - Power System Group, a separate course on Smart Grid should be introduced.</li> <li>National Cadet Corps (NCC) is introduced with teaching scheme of 1 hour theory and 2 hours laboratory for 2 credit courses in Semester – I and Semester – II.</li> <li>The student who opts for NCC will be given exemption from below mentioned courses.</li> <li>Value Education – Semester – I</li> <li>Indian Constitution – Semester – I</li> <li>Physical Education/Sports/Yoga - Semester – I</li> <li>Professional Ethics – Semester – V</li> </ul>
	<ul> <li>Sem-8 w.e.f 2021-22</li> <li>The committee accepted the revised teaching scheme of B. Tech         Electrical Engineering from sem-1 to sem-8 with effect from Academic         year 2021-22 with following modifications:</li> <li>In the Professional Elective IV- Power System Group, a course on         Restructured Power System should be introduced.</li> <li>In Professional Elective III - Power System Group, a separate course on         Smart Grid should be introduced.</li> <li>National Cadet Corps (NCC) is introduced with teaching scheme of 1         hour theory and 2 hours laboratory for 2 credit courses in Semester – I         and Semester – II.</li> <li>The student who opts for NCC will be given exemption from below         mentioned courses.         <ul> <li>Value Education – Semester – I</li> <li>Indian Constitution – Semester – I</li> <li>Physical Education/Sports/Yoga - Semester – I</li> </ul> </li> </ul>



Resolution	8(11)		
	code: 01EE1101) was passed with minor modification mentioned below:		
	The contents related to Field Effect Transistors - JFET and MOSFET		
	should be added. Hence, the name of Unit - 5 will be revised to Transistor		
	instead of Bipolar Junction Transistor.		
	instead of Bipolar function Transistor.		
Agenda – 6	da – 6 University Electives to be offered by Electrical Engineering Department		
Resolution	The Department of Electrical Engineering will offer university electives		
	in higher semesters as per the choice of students in respective semesters.		
	The department will offer courses as per list mentioned below:		
	Renewable Energy (01EE1531)		
	<ul> <li>Industrial Electronics (01EE1532)</li> </ul>		
l	<ul> <li>Microcontrollers and Embedded Systems (01EE1533)</li> </ul>		
l	<ul> <li>Fundamentals of Electric and Hybrid Vehicles (01EE1534)</li> </ul>		
	<ul> <li>Electrical Machines and Drives (01EE1631)</li> </ul>		
	<ul> <li>Fundamentals of Electrical Power Utilization (01EE1632)</li> </ul>		
	<ul> <li>Introduction to Battery Management Systems (01EE1633)</li> </ul>		
	<ul> <li>Principles of Control Systems (01EE1634)</li> </ul>		
	The teaching scheme of the course will be as follows:		
	$  \cdot   \cdot  $ $  \cdot T \rangle =   \cdot   \cdot C \rangle =   \cdot   \cdot  $		
	$\begin{array}{c ccccc} L & T & P & C \\ \hline 2 & 0 & 0 & 2 \\ \end{array}$		
	3 0 0 3		
	3 0 0 3		
Agenda – 7	3 0 0 3		
Agenda – 7	3 0 0 3 Where L – Lecture, T – Tutorial, P – Practical, C-Credit		
Agenda – 7	3 0 0 3 Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical		
Agenda – 7  Resolution	3 0 0 3 Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and		
	3 0 0 3 Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22		
	3 0 0 3 Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22  • The draft teaching scheme and syllabus of M. Tech Electrical		
	3 Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22  • The draft teaching scheme and syllabus of M. Tech Electrical Engineering with specialization in Electric and Hybrid Vehicle and		
	3		
	Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22  • The draft teaching scheme and syllabus of M. Tech Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22 were accepted in their original form		
Resolution	3		
Resolution	Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22  • The draft teaching scheme and syllabus of M. Tech Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22 were accepted in their original form  Attainment level of course outcomes (CO's), Program Outcomes (PO's)		
Resolution  Agenda – 8	Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22  • The draft teaching scheme and syllabus of M. Tech Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22 were accepted in their original form  Attainment level of course outcomes (CO's), Program Outcomes (PO's) is discussed.		
Resolution  Agenda – 8	Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22  • The draft teaching scheme and syllabus of M. Tech Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22 were accepted in their original form  Attainment level of course outcomes (CO's), Program Outcomes (PO's) is discussed.  It is observed that the few CO's were not attain in previous year, the committee has suggested to take proper action for CO attainment		
Resolution  Agenda – 8	Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22  • The draft teaching scheme and syllabus of M. Tech Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22 were accepted in their original form  Attainment level of course outcomes (CO's), Program Outcomes (PO's) is discussed.  It is observed that the few CO's were not attain in previous year, the committee has suggested to take proper action for CO attainment improvement. The process of PO attainment & the PO attainment of various		
Resolution  Agenda – 8	Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22  • The draft teaching scheme and syllabus of M. Tech Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22 were accepted in their original form  Attainment level of course outcomes (CO's), Program Outcomes (PO's) is discussed.  It is observed that the few CO's were not attain in previous year, the committee has suggested to take proper action for CO attainment improvement. The process of PO attainment & the PO attainment of various courses of PG were discussed and agreed by all the members. Discussed		
Resolution  Agenda – 8	Where L – Lecture, T – Tutorial, P – Practical, C-Credit  Draft teaching scheme and syllabus for M. Tech. – Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22  • The draft teaching scheme and syllabus of M. Tech Electrical Engineering with specialization in Electric and Hybrid Vehicle and Power Electronics and Electrical Drives with effect from AY 2021-22 were accepted in their original form  Attainment level of course outcomes (CO's), Program Outcomes (PO's) is discussed.  It is observed that the few CO's were not attain in previous year, the committee has suggested to take proper action for CO attainment improvement. The process of PO attainment & the PO attainment of various		



Agenda – 9	Discussion on faculty feed	back, parent's feedback and student's	
	feedback.		
Resolution	ion As per the faculty feedback received the faculties have proposed syllabus/		
	change in syllabus which discussed in BOS meeting and following resolution		
	were made. After due discussion & incorporation of suggestions from BOS		
	members. Based on the Feedback from different stack holders on action taken		
	report has been prepared and E	SOS members are agree with the action taken	
	reports.		
Agenda – 8	Specific agenda with permission of chair		
Resolution	<ul> <li>No specific agenda was p</li> </ul>	roposed by any of the committee members.	
	Hence, the meeting was called off after a thank speech from the		
	Chairman - BoS.		
	•		
Note: Meetin	Note: Meeting was scheduled virtually on Google Meet.		
meet.google.d	meet.google.com/ynx-umzj-whb		
Meeting Atte	ended By: External Experts	Meeting Attended By: Internal Experts	
1. Dr. M	C Chudasama	1. Dr Amit Ved	
2. Dr. Santosh Vora		2. Dr Rajendrasinh Jadeja	
3. Dr Ra	njan Behera	3. Dr. Rajesh Patel	
		4. Dr. Tapankumar Trivedi	
		5. Prof. Nishant Kothari	

Head of the Department Electrical Engineering Marwadi University



#### **Minutes of Meeting**

Deta: 20/02/2	022	1	Mastine No.	24
Date: 26/02/2				1
			Total Time: 2 Hours	
Presented by Dr. Amit Ved				
Agenda – 1	Approval of N	10M of 2nd BOS he	ld on 26th Jur	ne 2021
The MOM was read by Chairman (BOS), with consent from all mer			i), with consent from all members,	
Resolution	the m	inutes of meeting w	as passed	
Agenda – 2	<b>Draft Syllabus</b>	of B.Tech. sem-7 a	nd sem-8	
	<u> </u>			and sem-8 were discussed in the
		•		owing changes in courses.
		_		(3) - Increase the weightage of
		_	•	
		•		elays have replaced conventional
	1	in majority applicat		
		_		- Reconsider hours of Computer
		Design of Machine	s, it is not pos	ssible to cover all topics in allotted
	time			
	Batter	y Chargers for Elect	ric Vehicles (0	01EE0707) - Introduce standards of
	charger and protocols in syllabus e.g., OCCP – for communication			
	Microgrid (01EE0710) - Reconsider the title or reduce the weightage of			
	renew	able sources, Cont	rol of freque	ency in islanded mode should be
	cover	ed LVRT, Virtual Inc	ertia concepts	s should be added PLL, and angle
Resolution	estim	ation should also be	covered	
	• Testin	g and Commission	ing of Electri	cal Equipment (01EE0802) - Non-
	Destr	uctive Testing of elec	trical equipm	ent should be covered as it is a core
	cours	_		
	• FACTS	and HVDC (01EE08)	06)- Reduce co	ontents of FACTS – in depth analysis
		•	-	ole to cover all contents in the given
	1	rame Similarly, redu	•	
		•		(01EE0807) - Reduce contents that
				eration and control – all contents
	1	•		apter 5 and Chapter 6 from syllabus
		· · · · · · · · · · · · · · · · · · ·		
			accepted and	incorporated in the revised syllabus
	docur			
			. sem-5 and	sem-6 was passed with given
	sugge	stions.		
	T			
Agenda – 3	-			.f. Academic Year(AY) 2022-23
Resolution	• The co	ommittee suggested	following cha	anges in the draft syllabus of course
	Electr	ical and Electronic Ir	nstruments (0	1EE1304):

### Faculty of Technology Electrical Engineering

Minutes of Meeting - Board of Studies A.Y. 2022-23

Г	T		
	Digital Storage Oscilloscope should be discussed in detail.		
	All above suggestions are accepted and incorporated in the revised syllabus		
	document.		
	• The syllabus of B.Tech. sem-3 and sem-4 was passed with given		
	suggestions.		
Agenda – 4	Introduction of Soft skill related courses from 1st to 6th semester with 1 hour and		
	non-credit with effect from AY: 2022-23		
	It was discussed that the university emphasizes on the overall development		
	of learner. In addition to Core courses, electives courses and humanity		
	science courses, special attention will be paid to soft skills courses.		
	It was proposed in the meeting to introduce 1-hour mandatory non-credit		
	courses in the curriculum of B.Tech. Electrical Engineering with effect from		
Resolution	Academic Year 2022-23.		
	Such courses will be offered over a span of 6 semesters as per the		
	requirement of students in Electrical Engineering branch.		
	The committee accepted the proposal and applauded the move by the		
	department and university.		
	The syllabi of these courses are designed by Learning and Development		
	department and recommended by the committee.		
Agenda – 5	University electives to be offered by the Electrical Engineering department		
Resolution	The Department of Electrical Engineering will offer university		
	electives/open electives for all students at the university.		
	The syllabus of the university elective on Sustainable Energy is discussed.		
	The committee accepted the syllabus document.		
_			
Agenda – 6	Revision in teaching scheme of B. Tech sem 1 & 2 as per MU guidelines		
Resolution	The revised teaching scheme of B.Tech. sem-1 and sem-2 Electrical		
	Engineering was proposed by the Chairman-BoS.		
	The committee accepted the proposed scheme and recommended it for		
	the approval.		
Agenda – 7	Draft Teaching scheme of B.Tech. Electrical Engineering with minor in Electric		
7.80	Vehicles with B.Tech. Electrical Engineering with minor in Electrical and		
	Computer engineering		
Resolution	The AICTE in the revised guidelines has specified specialization that can be		
	offered to students pursuing B.Tech. Electrical Engineering. Such		
	specialization is offered as minor degree to respective branches.		
	approximation is a second as in the second conference and in the second co		
	The draft teaching scheme of R Tech Flectrical Engineering with minor		
	The draft teaching scheme of B.Tech. Electrical Engineering with minor degree in Electric Vehicles and B.Tech. Electrical Engineering with minor		



	Electrical and Computer Engineering. This teaching scheme is inline with the requirement of the AICTE.		
	<ul> <li>It was proposed that students desirous of obtaining minor degree will obtain minimum 18 credits with electives of that specializations.</li> </ul>		
	·		
	The list of electives for each minor degree was presented to the committee		
	and accepted unanimously.		
Agenda – 8	Swayam courses as part of full credit or partial credit (as part of internal		
Agenda 0	assessment)		
Resolution	As per the gazette of India in No. 332 published on August 22, 2016, the		
	guidelines for credit transfer through online learning courses SWAYAM		
	were published.		
	<ul> <li>It was discussed and agreed upon by all members to include SWAYAM</li> </ul>		
	courses towards full credit transfer in students' grade sheet.		
	Alternatively, such MOOC courses can be included for partial assessment		
	(internal assessment) in any course with relevant contents.		
Agenda – 9	Discussion on Stakeholder feedback		
Resolution			
Resolution	As per the faculty feedback received the faculties have proposed syllabus/     about a syllabus which discussed in DOS months and fallowing receiving.		
	change in syllabus which discussed in BOS meeting and following resolution		
	were made. After due discussion & incorporation of suggestions from BOS		
	members.		
	Parent's feedback of UG, PG and alumni feedback and exit feedback for PG		
	courses, analysis and action taken report on same were presented. The		
	BOS members were satisfied with the action taken report. There was a		
	discussion on taking feedback from other stakeholders. HOD had informed		
	that the university is conducting employer's feedback where students are		
	placed and alumni feedback also. The form and process were presented.		
	BOS members had resolved to continue with the process as decided by		
	university.		
Agenda – 10	Attainment level of course outcomes (CO's), Program Outcomes (PO's) is		
	discussed.		
Resolution	It is observed that the few CO's were not attain in previous year, the committee		
	has suggested to take proper action for CO attainment improvement. Care		
	should be taken for mathematical subjects and subjects which has only theory		
	component. The process of PO attainment & the PO attainment of various		
	courses of PG were discussed.		
Agenda – 11	Specific agenda with permission of chair		
	<ul> <li>No specific agenda was proposed by any of the committee members.</li> </ul>		
	Hence, the meeting was called off after a thank speech from the Chairman		
	- BoS.		



#### **Faculty of Technology**

**Electrical Engineering** 

Minutes of Meeting - Board of Studies A.Y. 2022-23

Note: Meeting was scheduled virtually on Google Meet.			
https://meet.google.com/bxa-xndb-cfy?hs=224			
Meeting Attended By: External Experts	Meeting Attended By: Internal Experts		
1. Dr. M C Chudasama	1. Dr Amit Ved		
2. Dr. Santosh Vora	2. Dr Rajendrasinh Jadeja		
3. Dr Ranjan Behera	3. Dr. Rajesh Patel		
	4. Dr. Tapankumar Trivedi		
	5. Prof. Nishant Kothari		

Head of the Department Electrical Engineering Marwadi University

# B. Tech Information and Communication Technology Faculty of Technology Marwadi University

1.1.2 Board of Studies meeting minutes

(Program revision)

#### 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 mer	mbers 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> <li>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.</li> <li>Program outcomes (PO) were adopted as per the recommendation of UGC policy and Faculty of Technology policy of Marwadi University for outcome-based education.</li> <li>Program Specific Outcomes (PSO) for ICT department were proposed and approved by the Board Members.</li> </ul>		
Agenda - 2	Designing of syllabus framework for 1st year (Credits and teaching scheme)		
Discussion and Resolution	<ul> <li>Designing of syllabus framework for 1st year (Cred and teaching scheme)</li> <li>Subjects covered are appropriate. There shall be of change in Engineering Graphics. The subject show be like Engineering Drawing and Comput Graphics.</li> <li>Credit should be given according to hours i.e. credit per hour for theory, 1 credit per 2 hours a laboratory/tutorial.</li> <li>Total Contact hours for the students should not more than 30 hours.</li> <li>The suggestion regarding the conduction of the Viant Exam was brainstormed among the committed members and was decided that the subject faculty going to conduct the Viva exam.</li> <li>In tutorial there shall be no teaching in continuing syllabus covered in class but there shall be does solutions and practice should be carried out. should not be necessary to solve only examples. may also cover connection of mathematics we engineering problems.</li> <li>The suggestion from the expert was discuss regarding Evaluation scheme. Evaluation should carried out for 100 marks instead of 150 mar. The bifurcation of 100 marks is 50 (End semes exam), 20 (Mid semester exam) and 30(continuous semester evaluation). The suggestion was reserved.</li> </ul>		



- feasible as per the uniformity in the evaluation scheme across the University.
- 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.

### Suggestion from Dr. S. L. Maskara for Marwadi University Engineering Program.

- 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



	1', C C' ,	
	<ul> <li>prepared it for first year)</li> <li>There shall be limited main cluster of streams which have few common subjects. e.g. Electrical, EC, CSE, IT, ICT.</li> <li>Brain storming is required to decide for choice based flexible credit system implementation.</li> <li>There should be some audit subject included of less credit to increase the breadth of engineering knowledge.</li> </ul>	
A 1 2	Di co po po	
Agenda - 3	Discussion on CO-PO, PSO mapping and attainment	
<ul> <li>All the course outcomes for 1<sup>st</sup> year subject proposed and approved by the Board Member</li> <li>CO-PO and PSO mapping of 1<sup>st</sup> year subject brainstormed and finalized.</li> <li>Proposed CO-PO and PSO target for AY 2 was discussed and finalized to be 50% for most of the subjects and subject which is in high of in industry such as computer programming given more weight age i.e. 52%.</li> </ul>		
Agenda - 4	Suggestion for preparing students for industry ready	
Discussion and Resolution	<ul> <li>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 3<sup>rd</sup> year itself.</li> <li>Faculty should be trained for conducting certain subjects with "Learning By Doing" approach.</li> <li>Project/Problem Based Learning should be included in the assessment scheme of relevant subjects.</li> </ul>	

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	p: 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. Parma		
Section - A	Action taken based on previous n	neeting
Agenda - 1	Approval of Vision, Mission, PO and PSO	
Action taken	No further modification required.	
Agenda - 2	Designing of syllabus framework for	for 1st year (Credits and
	teaching scheme)	
Action taken	The elective domain was finalized.	
	scheme for all 4 years had been la	-
	the syllabus content, mode of exa	
	subjects were gained from the este	eemed members of the BoS
	committee.	
Agenda - 3	Discussion on CO-PO, PSO mappi	ng and attainment
Action taken	No further modification required.	
Agenda - 4	Suggestion for preparing students f	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	<ul> <li>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.</li> <li>Subjects are as per the required flow of learning for ICT specialization.</li> <li>Experts insist to promote project-based learning. One minor project can be assigned to the integration of various subjects.</li> <li>Canvas or similar LMS portals would be used for continuous evaluation purposes.</li> <li>They have also suggested some changes in flow for subjects offered in the first 3 semesters for a better learning curve.</li> </ul>		
	• Instead of Computer Workshop and Electrical and		



	<ul> <li>Electronics workshop subjects, ICT workshop subject is more suitable for ICT graduates which cover learning outcomes for both subjects.</li> <li>One subject focused on Project-based learning can be introduced in the 1st semester.</li> <li>All mathematics subjects in the first three semesters should be given an appropriate name as per the content covered in the syllabus.</li> <li>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.</li> <li>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.</li> <li>Some suggestions have been given by experts about the contents of subjects and it is implemented.</li> <li>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.</li> <li>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.</li> </ul>
Agenda - 2	Choice-Based Credit System and finalization of the possible specializations in ICT
Discussion and Resolution	<ul> <li>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.</li> <li>Teaching and examination scheme was prepared for batch 2017-21(semester 3 to 8) and 2018-22(semester 1 to 8) batch.</li> <li>Choice Based Credit System were discussed and implemented for the students from AY 2018-19 onwards as per guideline of university.</li> <li>All the teaching schemes and syllabus for 2<sup>nd</sup>,3<sup>rd</sup> and 4<sup>th</sup> have been proposed and courses and syllabi were designed keeping in mind that it should be relevant to the current</li> </ul>



	demands and needs of the industry, and students must gain contemporary skills and must provide the platform for any entrepreneurship roles as well.  • 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> <li>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.</li> <li>Upon further analysis it is decided that target attainment for AY 2018-19 will be kept 50%.</li> <li>For meeting a demand of industry subjects namely FSSI and IRRS in 1<sup>st</sup> year and subjects like Computer Organization and Architecture, OOP and Design Engineering in 3<sup>rd</sup> semester will be given more weightage i.e. 52%.</li> </ul>	

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 or	n the previous meeting
Agenda – 1	Designing of Syllabus	framework for 2nd year (Credits and
	teaching scheme) B.Te	ch. ICT
Action taken	All experts have ap	preciated the project-based learning
		e department. The challenges and its
		t the Industry Internship for summer
	break was discussed.	
Agenda – 2	1	ystem and finalization of the possible
	specializations in ICT	
Action taken	<u> </u>	all 8 semesters had been proposed and
	<u> </u>	he UGC guidelines of credit structures.
		ers gave their valuable feedback on the
		yllabus of MOOC-based credit courses
	for the final semester.	
Agenda – 3	Analysis and finalization	on of CO-PO and PSO attainment
Action taken	No further modification	n is required.

Section: B	Agenda for discussion		
Agenda - 1	Designing of Syllabus framework for 3 <sup>rd</sup> year, B.Tech.		
	ICT		
Discussion and Resolution	<ul> <li>All experts have reviewed the teaching scheme of all semesters and proposed a syllabus for 3<sup>rd</sup>-year subjects. The syllabus for compulsory and elective subjects has been brainstormed in the meeting.</li> <li>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.</li> <li>Suggestions have been given by experts about the contents of subjects for semesters 5 and 6.</li> <li>CO-PO and PSO mapping for semester 5 and 6 for academic year 19-20 were discussed and finalized.</li> </ul>		

Agenda - 2	Planning for value-added courses for the academic year
Discussion and Resolution	<ul> <li>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.</li> <li>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.</li> <li>For the physical health of the students, a value-added course "Frolic" should happen every year.</li> </ul>
Agenda -3	Analysis and finalization of CO-PO and PSO attainment
Discussion and Resolution	<ul> <li>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.</li> <li>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.</li> <li>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%.</li> </ul>

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 me	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 <sup>rd</sup> 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> <li>Active learning assignments and project-based learning experiences for semesters 1 to 6 were presented.</li> <li>Projects of the selected students were demonstrated as an outcome of project credit in various subjects.</li> </ul>
Agenda - 2	Designing of Syllabus framework for 4th year, B.Tech. ICT
Discussion and Resolution	All experts have reviewed the teaching scheme of all semesters and proposed a syllabus for 4 <sup>th</sup> -year subjects. The syllabus for compulsory and elective subjects has been brainstormed in the meeting.  • 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> <li>Summer internship experiences were discussed and certain modifications in the subject sequences were taken into brainstorming for the prerequisite of internships.</li> <li>Looking towards diversification of course, BoS members have promoted a choice-based flexible credit system for upcoming admitted students.</li> <li>Final structure of elective subjects will be proposed in next Academic year BoS.</li> <li>Teaching scheme and syllabus for semester 1 and 2 is discussed and proposed to continue as per the teaching scheme of the previous batch.</li> </ul>
Agenda - 4	Planning for value-added courses for the academic year 2020-21
Discussion and Resolution	• 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> <li>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.</li> <li>Increment of 2 per cent in all the core subjects for semester 1 has been successfully achieved in the batch 2019-23.</li> <li>On the further analysis, BoS committee members suggested that for the subjects which are not program core in the 1<sup>st</sup> year must be kept at 50 per cent and all the program electives and industry-driven subjects must have a minimum of 52% target.</li> <li>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%.</li> </ul>

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 me	mbers 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 <sup>th</sup> 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> <li>The software and hardware-based subjects are conducted with the help of IDE and simulator, respectively.</li> <li>The teaching &amp; learning process in online mode during the pandemic was appreciated.</li> <li>Summer internship carried out with help of industry expert's support in work-from-home execution.</li> <li>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.</li> <li>Placement of 1<sup>st</sup> batch is appreciated in terms of the highest and average package along with core and diversified profiles.</li> </ul>



	Teaching and assessment scheme for the batch 2018-22
Agenda -2	and 2019-23
Discussion and Resolution	<ul> <li>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.</li> <li>Similarly, 3rd year teaching scheme for the batch 2019-23 have been kept same as 3rd year syllabus of the batch 2018-22</li> </ul>
Agenda - 3	<b>Teaching Scheme of B.Tech. ICT Semester - I &amp; Semester</b>
rigenau 5	- II as per new UGC/AICTE Guidelines for the batch 2021-
	25.
Discussion and Resolution	<ul> <li>Course credits for engineering courses need to be revised to 160 credits as per the guidelines provided by UGC/AICTE.</li> <li>Semester – I and Semester – II teaching schemes are redesigned as per revised AICTE guidelines.</li> <li>Teaching hours for students can be kept around 23-25 hours per week.</li> <li>Subjects with end semester exams should not be more than 5 per semester.</li> <li>The contact hours for laboratory sessions can be increased to make students proficient in the industry.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>



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> <li>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.</li> <li>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.</li> <li>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.</li> <li>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</li> <li>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.</li> <li>Content of the subject 01CT0409 - Operating System has been modified.</li> <li>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.</li> <li>Subject 01CT0405 - Engineering Electrodynamics as per the old teaching scheme is proposed to offer as an elective in semester 5.</li> </ul>
Agenda - 5	Feedback from Members of Board of Studies
Discussion and Resolution	<ul> <li>NCC / NSS as a subject in the curriculum is appreciated.</li> <li>The students can have the flexibility to earn more credits during the semester based on the subjects offered.</li> <li>It was suggested to manage subjects with a maximum of 4 credits taking the syllabus of the subjects into consideration.</li> </ul>



	Internship with an industrial expert was appreciated.
Agenda - 6	Analysis and finalization of CO-PO and PSO attainment
Discussion and Resolution	<ul> <li>The targeted attainment for the academic year 20-21 has been achieved for most of the courses.</li> <li>The target attainment for the next academic year could be decided on the basis of course instructor's experience and</li> </ul>
	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.