

AC.1819.1

BIRLA VISHVAKARMA MAHAVIDYALAYA
 (Engineering College)
 VALLABH VIDYANAGAR
 [An Autonomous Institution]

No.F/AC/1/MT/18-1

03.08.18

MINUTES OF ACADEMIC COUNCIL MEETING HELD ON 25.07.18

Minutes of the meeting of the Academic Council of BVM Engineering College held on 25.07.18 at 3.30 pm in the office of the Principal, BVM.

Following members were present:

Sr. No.	Name	Designation
1.	Dr. I. N. Patel	Chairman, Academic Council
2.	Shri V. B. Kalyankar	Member, Industry
3.	Shri. Jagdishbhai Patel	Member, Industry
4.	Dr. P. M. George	Dean, Academic, Chairman, BOS, Mechanical Engineering
5.	Dr. Vinay J. Patel	Member Secretary
6.	Dr. A. K. Verma	Chairman, BOS, Structural Engineering
7.	Dr. L. B. Zala	Chairman, BOS, Civil Engineering
8.	Dr. D. G. Thakore	Chairman, BOS, Computer Engineering
9.	Dr. T. D. Pawar	Chairman, BOS, Electronics Engineering
10.	Dr. A. M. Trivedi	Chairman, BOS, Production Engineering
11.	Dr. K. N. Brahmbhatt	Chairman, BOS, Information Technology
12.	Dr. B. C. Goradia	Chairman, BOS, Electronics and Commu. Engineering
13.	Dr. T. A. Desai	Chairman, BOS, Mathematics
14.	Dr. D. M. Patel	Member, Professor
15.	Prof. A. A. Shaikh	Member, Associate Professor
16.	Dr. Snehal V. Mevada	Member, Assistant Processor
17.	Dr. H. V. Patel	Associate Dean, Academics
18.	Dr. S. D. Dhiman	Member, Associate Professor

The following members expressed their inability to attend the meeting :

19.	Dr. Sanjay K. Vij	Member, VC Nominee
20.	Shri. R. C. Patel	Member, Research Institute
21.	Dr. N. Ramakrishnan	Member, Noted Academician
22.	Dr. K. N. Mistry	Member, VC Nominee

The meeting was started with welcome and opening remarks by Dr. I. N. Patel, Chairman, Academic Council. He invited Dr. V. J. Patel, Associate Dean, Academic & Member Secretary, Academic Council to present the Agenda items:

AC.1819.1.1 To approve the Minutes of meeting held on 24.03.2018.

Meeting of Curriculum Development Board (CDB) was held on 18.07.18. It was decided in the meeting that the curriculum of all B.Tech. Branches shall be revised as per suggestions made by AICTE Model



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Curriculum published in February, 2018 for B.Tech. The items from AC.1819.1.2 to AC.18.19.1.11 are suggested by respective Board of Studies which are in line with the AICTE Model Curriculum.

The Minutes of the meeting held on 24.03.18 was approved.

AC.1819.1.2 To approve credit for each component of courses.

The following credit distribution is suggested for each component:

Sr. No.	Component	Hours	Credit
1.	Lecture (L)	1	1
2.	Tutorial (T)	1	1
3.	Practical (P)	1	0.5

The Credit distribution for each component was approved.

After due discussion it was unanimously **resolved that** First Year B.Tech. structure for each courses shall be implemented as per item no. **AC.1819.1.3 to AC.1819.1.10** from **A.Y. 2018-19**, to balance the resources in both the semesters.

AC.1819.1.3 To approve the following Course Structure of **Civil Engineering** for B.Tech. First Year offered by Board of Studies – Civil & Structural.

Semester I

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS101	Advanced Calculus	3	2	0	5	5
2	ES103	Basic Electrical Engineering	3	0	2	5	4
3	ES110	Basic Mechanical Engineering	3	0	2	5	4
4	ES111	Workshop	0	0	4	4	2
5	HS102	Environmental Science	2	2	0	4	0
		Total	11	4	8	23	15

Semester II

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS102	Linear Algebra and Fourier Series	3	2	0	5	5
2	BS103	Physics	3	0	2	5	4
3	ES106	Programming for Engineers	1	0	4	5	3
4	ES109	Engineering Graphics & Design	2	0	4	6	4
5	ES115	Basic Civil Engineering	3	0	2	5	4
6	HS101	English	2	0	2	4	3
		Total	14	2	14	30	23



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AC.1819.1.4 To approve the following Course Structure of **Computer Engineering** for B.Tech First Year offered by Board of Studies – Computer :

Semester I

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS101	Advanced Calculus	3	2	0	5	5
2	BS104	Semiconductor Physics	3	0	2	5	4
3	ES103	Basic Electrical Engineering	3	0	2	5	4
4	ES108	Computer Workshop	0	0	2	2	1
5	ES112	Basics of Manufacturing Practices	0	0	2	2	1
6	HS101	English	2	0	2	4	3
		Total	11	2	10	23	18

Semester II

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS102	Linear Algebra and Fourier Series	3	2	0	5	5
2	ES101	Basic Electronics	3	0	2	5	4
3	ES105	Programming for Problem Solving	3	0	2	5	4
4	ES107	Open Source Platforms and Tools	0	0	2	2	1
5	ES109	Engineering Graphics & Design	2	0	4	6	4
6	HS102	Environmental Science	2	2	0	4	0
		Total	13	4	10	27	18

AC.1819.1.5 To approve the following Course Structure of **Electrical Engineering** for B.Tech First Year offered by Board of Studies – Electrical Engineering :

Semester I

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS101	Advanced Calculus	3	2	0	5	5
2	BS104	Semiconductor Physics	3	0	2	5	4
3	ES104	Electrical Workshop	0	0	2	2	1
4	ES109	Engineering Graphics & Design	2	0	4	6	4
5	ES110	Basic Mechanical Engineering	3	0	2	5	4
6	HS102	Environmental Science	2	2	0	4	0
		Total	13	4	10	27	18



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Semester II

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS102	Linear Algebra and Fourier	3	2	0	5	5
2	BS105	Electromagnetic Physics	3	0	2	5	4
3	ES103	Basic Electrical Engineering	3	0	2	5	4
4	ES105	Programming for Problem	3	0	2	5	4
5	ES112	Basics of Manufacturing	0	0	2	2	1
6	HS101	English	2	0	2	4	3
		Total	14	2	10	26	21

AC.1819.1.6 To approve the following Course Structure of Electronics Engineering for B.Tech First Year offered by Board of Studies – Electronics :

Semester I

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS101	Advanced Calculus	3	2	0	5	5
2	BS104	Semiconductor Physics	3	0	2	5	4
3	ES103	Basic Electrical Engineering	3	0	2	5	4
4	ES109	Engineering Graphics & Design	2	0	4	6	4
5	HS101	English	2	0	2	4	3
		Total	13	2	10	25	20

Semester II

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS102	Linear Algebra and Fourier Series	3	2	0	5	5
2	BS105	Electromagnetic Physics	3	0	2	5	4
3	ES101	Basic Electronics	3	0	2	5	4
4	ES102	Electronics Workshop	0	0	2	2	1
5	ES105	Programming for Problem Solving	3	0	2	5	4
6	ES112	Basics of Manufacturing Practices	0	0	2	2	1
7	HS102	Environmental Science	2	2	0	4	0
		Total	14	4	10	28	19



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AC.1819.1.7 To approve the following Course Structure of **Mechanical Engineering** for B.Tech First Year offered by Board of Studies -- Mechanical Engineering :

Semester I

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS101	Advanced Calculus	3	2	0	5	5
2	ES106	Programming for Engineers	1	0	4	5	3
3	ES109	Engineering Graphics & Design	2	0	4	6	4
4	ES115	Basic Civil Engineering	3	0	2	5	4
5	HS101	English	2	0	2	4	3
		Total	11	2	12	25	19

Semester II

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS102	Linear Algebra and Fourier Series	3	2	0	5	5
2	BS103	Physics	3	0	2	5	4
3	ES103	Basic Electrical Engineering	3	0	2	5	4
4	ES110	Basic Mechanical Engineering	3	0	2	5	4
5	ES111	Workshop	0	0	4	4	2
6	HS102	Environmental Science	2	2	0	4	0
		Total	14	4	10	28	19

AC.1819.1.8 To approve the following Course Structure of **Production Engineering** for B.Tech First Year offered by Board of Studies – Production Engineering :

Semester I

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS101	Advanced Calculus	3	2	0	5	5
2	BS103	Physics	3	0	2	5	4
3	ES102	Electronics Workshop	0	0	2	2	1
4	ES103	Basic Electrical Engineering	3	0	2	5	4
5	ES113	Workshop Practices - I	0	0	4	4	2
6	HS102	Environmental Science	2	2	0	4	0
		Total	11	4	10	25	16



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Semester II

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS102	Linear Algebra and Fourier Series	3	2	0	5	5
2	ES106	Programming for Engineers	1	0	4	5	3
3	ES109	Engineering Graphics & Design	2	0	4	6	4
4	ES110	Basic Mechanical Engineering	3	0	2	5	4
5	ES114	Workshop Practices - II	0	0	2	2	1
6	HS101	English	2	0	2	4	3
		Total	11	2	14	27	20

AC.1819.1.9 To approve the following Course Structure of **Electronics & Communication Engineering** for B.Tech First Year offered by Board of Studies – Electronics & Communication :

Semester I

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS101	Advanced Calculus	3	2	0	5	5
2	BS104	Semiconductor Physics	3	0	2	5	4
4	ES101	Basic Electronics	3	0	2	5	4
3	ES102	Electronics Workshop	0	0	2	2	1
5	HS101	English	2	0	2	4	3
6	HS102	Environmental Science	2	2	0	4	0
7	HS103	Introduction to EC Department	0	0	2	2	1
		Total	13	4	10	27	18

Semester II

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS102	Linear Algebra and Fourier Series	3	2	0	5	5
2	ES103	Basic Electrical Engineering	3	0	2	5	4
3	ES105	Programming for Problem Solving	3	0	2	5	4
4	ES109	Engineering Graphics & Design	2	0	4	6	4
5	ES112	Basics of Manufacturing Practices	0	0	2	2	1
6	ES116	Introduction to Digital Electronics		1	0	2	2
		Total	12	2	12	25	20



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AC.1819.1.10 To approve the following Course Structure of **Information Technology** for B.Tech First Year offered by Board of Studies – Information Technology :

Semester I

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS101	Advanced Calculus	3	2	0	5	5
2	BS104	Semiconductor Physics	3	0	2	5	4
3	ES103	Basic Electrical Engineering	3	0	2	5	4
4	ES105	Programming for Problem Solving	3	0	2	5	4
5	ES108	Computer Workshop	0	0	2	2	1
6	HS102	Environmental Science	2	2	0	4	0
		Total	14	4	8	26	18

Semester II

Sr. No.	Course Code	Name of Course	L	T	P (1 hr=0.5 Credit)	Hr	Credit
1	BS102	Linear Algebra and Fourier Series	3	2	0	5	5
2	ES101	Basic Electronics	3	0	2	5	4
3	ES109	Engineering Graphics & Design	2	0	4	6	4
4	ES112	Basics of Manufacturing Practices	0	0	2	2	1
5	ES116	Introduction to Web Programming	0	0	4	4	2
6	HS101	English	2	0	2	4	3
		Total	10	2	14	26	19

AC.1819.1.11 To approve the **Syllabus** for all above courses for B.Tech First Year.

The **Syllabus** of all the following courses were discussed thoroughly and it was **resolved that** the Syllabus shall be implemented in the course structure of First Year B.Tech. from the **A.Y. 2018-19**, incorporating the changes suggested as below:

Sr. No.	Course Title	Remarks
1	Mathematics – I New Title: Advanced Calculus	Approved – with change in Title & Teaching Hrs. (New Title is incorporated in Structure of F.Y. B.Tech. as per item No. AC.1819.1.3 to AC.1819.1.10)
2	Mathematics – II New Title: Linear Algebra and Fourier Series	Approved – with change in Title & Teaching Hrs. (New Title is incorporated in Structure of F.Y. B.Tech. as per item No. AC.1819.1.3 to AC.1819.1.10)
3	English	Dr. T. A. Desai will provide the corrected Copy of the syllabus.



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4	Physics	Approved – Module of Super Conductivity be replaced by Module of Optics – Dr. Trivedi will provide the content. – Teaching Hrs. to be corrected
5	Semiconductor Physics	The syllabus of this course was proposed by EC & EL Board of Studies. It is suggested that there should be one common syllabus of this course for all circuit branch. Dr. Pawar & Dr. Goradia will finalize the same. Dr. Parekh will coordinate for the same.
6	Electromagnetic Physics	Approved
7	Basic Electronics	The syllabus of this course was proposed by EC & EL Board of Studies. It is suggested that there should be Common course for EL & EC. Dr. T. D. Pawar will finalize the same in consultation with Dr. Goradia
8	Electronics Workshop	Approved
9	Basic Electrical Engineering	Corrected copy will be provided by Dr. Parekh as per standard Format.
10	Electrical Workshop	Approved
11	Programming for Problem Solving	Approved – Teaching Hrs. to be corrected
12	Programming for Engineers	Approved – Teaching Hrs. to be corrected
13	Open Sources Platforms and Tools	Approved
14	Computer Workshop	Approved
15	Engineering Graphics & Design	Approved
16	Basic Mechanical Engineering	Approved
17	Workshop	Approved – Teaching Hrs. to be corrected
18	Manufacturing Practices New Title : Basics of Manufacturing Practices	Approved with change in Title & – Teaching Hrs. to be corrected. . (New Title is incorporated in Structure of F.Y. B.Tech. as per item No. AC.1819.1.3 to AC.1819.1.10)
19	Workshop Practices for Production Engineering New Title: Workshop Practices - I	Dr. A. M. Trivedi will provide. . (New Title is incorporated in Structure of F.Y. B.Tech. as per item No. AC.1819.1.3 to AC.1819.1.10)
20	Workshop Practices - II	Dr. A. M. Trivedi has suggested new course in F.Y. B.Tech. (Production). The Syllabus will be provided by Dr. Trivedi.
21	Basic Civil Engineering	Approved – Teaching Hrs. to be corrected
22	Environmental Science	Approved – Teaching Hrs. to be corrected
23	Introduction to Web Programming	Approved



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24	Introduction to Digital Electronics	Approved – Teaching Hrs. to be corrected
25	Introduction to EC Engineering New Title: Introduction to EC Department	Title should be re-phrased by Dr. Goradiya – Teaching Hrs. to be corrected. (New Title is incorporated in Structure of F.Y. B.Tech. as per item No. AC.1819.1.3 to AC.1819.1.10)

As per the suggestions made above the corrections were made. The **modified syllabi** is attached here with as **Annexure – I**.

AC.1819.1.12 To decide Assessment Scheme. The following Assessment Scheme was proposed to implement in new Structure of B. Tech. admissions from **A.Y. 2018-19** :

1. Weightage of Theory/Practical and End Semester Evaluation (ESE) / Continuous Evaluation (CE) shall be as follows:

Theory		
ESE	CE	Total
70 %	30 %	100 %

Practical / Tutorial		
ESE	CE	Total
60%	40%	100 %

2. Maximum Theory marks for the Subjects which has Theory only, Theory and Practical/ Tutorial component:

Sr. No.	Credit of Theory Component for the Subject	Maximum Theory Marks
1	1 – 2	50
2	3 – 4	100

3. Maximum Practical marks for the Subjects which has Theory and Practical both component:

Sr. No.	Credit of Practical / Tutorial Component for the Subject	Maximum Practical / Tutorial Marks
1	1 – 2	50
2	3 – 4	100

4. Maximum marks for the Subjects which has **No Theory** component:

Sr. No.	Credits of the Subject with no theory component	Maximum Marks
1.	1 to 5	100
2.	6 to 10	200
3.	11 to 15	300
4.	16 to 20	400
5.	21 to 25	500
6.	26 and above	600

Above Assessment Scheme was approved.



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AC.1819.1.13 To revise AR(UG)25.2, 25.3, AR(PT)24.2, 24.3 and AR(PG)24.2, 24.3

Current Regulation:

AR(UG)25.2, AR(PT)24.2 and AR(PG)24.2: The board of studies shall appoint one examiner for the reassessment of the end semester examination (theory) for both sections. If the difference in original marks and reassessment marks is more than or equal to 14 marks then those answer books will be re-assessed by another examiner duly appointed by the respective board of studies (called as second reassessment). In such cases, average of first reassessment and second reassessment shall be considered as final marks.

AR(UG)25.3, AR(PT)24.3 and AR(PG)24.3: The marks obtained by the candidate shall be considered for grading after re-assessment, only if, the change in mark is more than or equal to 10% of total mark of End Semester Examination.

Proposed Regulation:

AR(UG)25.2, AR(PT)24.2 and AR(PG)24.2: The board of studies shall appoint two examiners (one is Convener of original exam and other is new examiner) for the reassessment of the end semester examination (theory) for both sections. Both examiners shall jointly reassess both the sections.

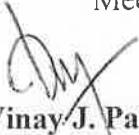
AR(UG)25.3, AR(PT)24.3 and AR(PG)24.3: The marks obtained by the candidate shall be considered for grading after re-assessment, only if, the change in mark is more than or equal to 10% of total mark of End Semester (Theory) Examination.

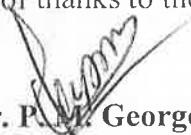
The revision in above regulations was approved.

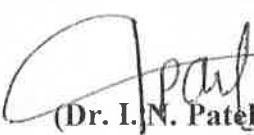
AC.1819.1.14 Any other item with the permission of the Chair.

1. There shall be Performance & Viva in the End Semester Examination for all the courses.

Meeting ended with vote of thanks to the Chair.


(Dr. Vinay J. Patel)
Member secretary


(Dr. P. M. George)
Dean, Academics


(Dr. I. N. Patel)
Principal

To: All Members, BVM Academic Council

CC to:

1. Registrar, Gujarat Technological University for information
2. Chairman, Academic Council
3. Dean, Academics

Encl: Modified Syllabus - Annexure I

