

**PANDIT DEENDAYAL PETROLEUM UNIVERSITY, GANDHINAGAR**

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**Minutes of 13<sup>th</sup> meeting of Academic Council: 13<sup>th</sup> September 2017**

The 13th meeting of the academic council of the University was held on 13th September 2017 at 4.30 pm. in the committee room at E Block.

**The following members were present:**

1. Dr. T. Kishen Kumar Reddy	Chairman
2. Dr. S. A. Bari	Member
3. Dr. V. P. Sharma	Member
4. Dr. H.B. Raghavendra	Member
5. Dr. Anirbid Sircar	Member
6. Dr. Nigam Dave	Member
7. Prof. S. S. Kachhwaha	Member
8. Dr. Pramod Paliwal	Member
9. Dr. Nirendra Misra	Member
10. Dr. S. S. Bandyopadhyay	Member

**The following members were absent:**

1. Prof. Indira J. Parikh
2. Dr. Jayant Kelkar
3. Dr. Tajinderpal Singh

Dr. T. Kishen Kumar Reddy - Director General and Chairman Academic Council extended a cordial welcome to all the members. Thereafter, the agenda items were taken up in seriatim for discussion.

**The agenda-wise minutes has been stated hereunder:**

- 13/1: To confirm the minutes of the previous meeting of the Council held on 17<sup>th</sup> October 2016. (The minutes of the meeting have already been circulated to all the members; a copy of which is placed at annex.- 1.)

*Resolved that the minutes of previous meeting of Academic Council held on 16/2/2016 be confirmed.*

13/2: To consider the following Action Taken Report on the decisions taken at the previous meeting:

Agenda No.	Particulars of decision	Action Taken
12/1	Minutes of the 11 <sup>th</sup> meeting of Academic Council were confirmed.	Noted.
12/2	Noted and approved the Action Taken Report of the 11 <sup>th</sup> meeting.	Noted & implemented.
12/3	Ratified and noted of the approvals granted by the Director General u/s 20(3) of the PDPU Act, as presented in the Annexure-II-Ratify.	Noted & implemented.
12/4	<p>Resolved to approve the syllabus revision in Faculty of Liberal Studies as follows: Introducing the courses in B.A./B.B.A.(Hons.):</p> <ul style="list-style-type: none"> <li>▪ "Magazine Writing" and "Editing Print Media in for Batch 2013-17.</li> <li>▪ i) Advertising and Media Management, and ii) Public Relations and Corporate Communication.</li> <li>▪ Media Management in Sem. VII of Batch 2013-17.</li> <li>▪ "Urban Development and City Governance" in Semester II in place of the course of "Food Geography."</li> <li>▪ Elective course "Introduction to Law and Governance" in Semester III.</li> </ul> <p>Revision in the course structure of B.A. (Hons.) (Mass Communication) as presented in the Annexure.</p> <p>Revision in the course structure of B.A.- Public Administration and M.A.- Public Administration as presented in the Annexure.</p> <p>Introduction of audit courses under category of General Studies, w.e.f. academic year 2016-17:</p> <ol style="list-style-type: none"> <li>1. Indian heritage &amp; Modernity.</li> <li>2. Global Citizenship (Offerable to all students of all schools)</li> <li>3. Conflict resolution by Gandhi's Nonviolence way</li> <li>4. Exposure to NCC.</li> </ol>	Noted & implemented.
12/5	Resolved to approve course revision in Faculty of Management as presented in the annexure - 3.	Noted.
12/6/a	<p>Resolved to approve Ph.D. rules as per UGC notification 2016 for followings:</p> <ol style="list-style-type: none"> <li>1. Eligibility Criteria for Admission</li> <li>2. Admission Procedure</li> </ol>	Noted & implemented.

	<p>3. Duration of programme</p> <p>4. Recognition of Research Supervisor</p> <p>5. Course work as Ph.D. preparation</p> <p>6. Research 'Advisory Committee' or an equivalent body</p> <p>7. Evaluation &amp; Assessment Methods, minimum standards/credits for award of the degree etc.</p> <p>8. Relocation</p>	
12/6/b	<p>Resolved to revise the existing Ph.D. rules as below:</p> <p><b>I. Rule no. 1.2</b> The Programme of Research with the governing rules and regulations is formulated by the University. The Director General subject to approval by the Standing Committee or Board of Governors can modify or change the structure, the governing rules and regulations from time to time which shall be binding to all.</p> <p><b>II. Resolved not to revise rule no. 1.5</b></p> <p><b>III. Rule no. 6.1 (d)</b> By adding the requirement of "at least two nos. of international patents or published the research papers in an international peer reviewed journal as shown hereunder: Regular professor with at least 5 research publications, any regular Associate/Asst. Prof. with PhD and at least 2 research publications in referred journals" for recognition of research Supervisor; and also "In case of areas/discipline where there is no or only a limited no. of referred journals this condition may be relaxed with reasons recorded in writing."</p> <p><b>IV. Resolved to consider 55% as prescribed by the UGC 2016 regulations to pass entire course work of Ph.D.</b></p> <p><b>V. Rule no. 6.19</b> If the performance of the research student in the Oral Examination is satisfactory, he will be awarded Ph.D. Degree based on the recommendation of the Academic Council and with the approval of the Board of Governors of this University.</p> <p><b>VI. The first draft of the thesis must be ready at the time of pre-synopsis seminar and one copy should be made available to the DC.</b></p>	Noted & implemented.

	<p>VII. Approved to hold the admission process now once in a year i.e. at the start of Academic Year.</p> <p>VIII. Recommended to put on hold for further discussion, to introduce submission of a form regarding Copy Right &amp; Consent to publish the research work of Ph.D. awardee to the University.</p>	
12/7	<p>a. Resolved to add an elective course on entrepreneurship as an audit course at UG &amp; PG level w. e. f. 2016 batch as presented in the annexure-6.</p> <p>b. Resolved to approve revision of CPI requirement for award of the M.A. degree:</p> <ul style="list-style-type: none"> <li>o Min. 5 CPI for M.A. degree, instead of 3.6 CPI at present.</li> </ul> <p>c. To consider &amp; adopt UGC notification on Massive Open On line Courses (MOOC) – SWAYAM Regulations July 2016 as presented in the annexure-7.</p>	Noted & implemented.
12/8	Resolved to approve the FoET course revisions as presented in the annexures.	Noted & implemented

*Resolved to consider the Action Taken Report as mentioned above.*

13/3: To ratify various approvals granted by the Director General u/s 20 (3) of the PDPU Act, as mentioned in the annex.- 2.

*Resolved to ratify the approvals granted by the Director General u/s 20(3) of the PDPU Act, as per the annex.-2.*

13/4: To approve the list of the students who completed successfully the following programmes, for conferring upon them the respective Degree/Diploma at the sixth Convocation:

Programme-Discipline	No. of pass outs students		
	Male	Female	Total
MBA	32	12	44
PGDPM-X	8	0	8
B.Tech. (Petro. Engg.)	112	8	120
B.Tech. (Civil Engg.)	85	9	94
B.Tech.(Mech. Engg.)	106	0	106
B.Tech. (Elect. Engg.)	84	7	91
B.Tech. (Chem. Engg.)	47	6	53
B.Tech. (Ind. Engg.)	45	4	49
M.Tech. (Petro. Engg.)	22	5	27
M.Tech. (Civil)	18	7	25
M.Tech. (Elect.)	10	2	12

M.Tech. (Mech.)	20	0	20
M.Tech. (Solar Energy)	14	4	18
M.Tech. (Nuclear Engg.)	4	1	5
M.Tech.(Env. Engg.)	4	4	8
B.Com.(Hons) + Diploma	16	10	26
B.A. (Hons.) + Diploma	14	41	55
B.B.A. (Hons.) + Diploma	24	35	59
M.A. (English)	0	3	3
M.A. (IR)	2	0	2
M.A. (Pub. Adm.)	4	2	6
Ph.D.	6	2	8
<b>Total</b>	<b>677</b>	<b>162</b>	<b>839</b>

As per the lists attached herewith in annex.- 3.

*Approved as above.*

**13/5: Agenda item pertaining to UGC**

To discuss & decide on the UGC guidelines for determination of a uniform span period within which a student may be allowed to qualify for a Degree, as per the annex. - 4

- The general formula mentioned there in is  
Time span = N+2 years for the completion of the program,  
Where N stands for the normal or minimum duration prescribed for completion of the program.
- In exceptional circumstances a further extension of one more year may be granted. The exceptional circumstances be spelt out clearly by relevant statutory body concerned of the University.
- During the extended period the student shall be considered as a private candidate and also not be eligible for ranking.

*Approved as above.*

**13/6: Agenda items pertaining to Faculty of Management**

Year	Course (s)	Addition/ Deletion of Course	Justification
I	MBA (E&I)	Credits for MIS course to be reduced to 1.5 from 3.0	As most of the students come with basic knowledge of Information Systems (IS) and hence duplication needs to be avoided. Moreover many contemporary aspects are also covered in IS elective courses.
II	MBA (E&I)	Introducing new course i.e. "Renewable Energy Project Management" (1.5	Students need more inputs on this area of Renewable Energy. It's contemporary and also suggested by recruiters and alumni during Course

		Credits) as an elective in second year	Review exercise.
II	MBA (E&I)	Introducing new course i.e. Business Analytics (1.5 Credits) as an elective in second year.	Contemporary course having Energy Industry perspective. Suggested by recruiters and alumni during Course Review exercise.
II	MBA (E&I)	To be deleted the course i. e. Operations Analytics (1.5 Credit )	Replaced with contemporary, domain specific and enriched course i.e. Business Analytics.
I	MBA (General Management)	Credits for MIS course to be reduced to 1.5 from 3.0	As most of the students come with basic knowledge of Information Systems (IS) and hence duplication needs to be avoided. Moreover many contemporary aspects are also covered in IS elective courses.
II	MBA (General Management)	Introducing new course i.e. Business Analytics (1.5 Credits) as an elective in second year.	Contemporary course having Energy Industry perspective. Suggested by recruiters and alumni during Course Review exercise.
II	MBA (General Management)	To be deleted the course i. e. Operations Analytics (1.5 Credit )	Replaced with contemporary, domain specific and enriched course i.e. Business Analytics.

*Approved as above. The Chairman of the Council advised to introduce research Paper publication for M.B.A. students.*

**13/7: Agenda items pertaining to Faculty of Engineering & Technology, as per Annex. 5A & 5B.**

*Approved the FoET proposals as contained in Annex. 5A & 5B, with the following revisions:*

- a) *To offer i) a course on Scientific Writing Methods as a part of the present curriculum of Communication Skills ii) Elective courses relevant to GATE examination course, and iii) MOOC courses as a part of elective courses.*
- b) *Publication of a conference paper & a Journal paper should not be made compulsory as a part of M.Tech. dissertation requirement. However the same should be encouraged as desirable for it. & further that the dissertation work should be of the quality reasonable for its publication.*
- c) *A provision for a degree of B. Tech. (Hons.) is introduced with effect from the students admitted in the academic year 2017-18 the academic year 2017-18 and onward, subject to the following conditions:*



- i. The option for B. Tech. (Hons.) will be available after the completion of 4<sup>th</sup> semester. A student if having at least 6.5 CPI at the end of 4<sup>th</sup> semester can chose to pursue B. Tech. (Hons.) from 5<sup>th</sup> to 8<sup>th</sup> semester.
- ii. Such students shall have to pass minimum 4 no. of courses each of 3 credits, additionally. Such students shall have to maintain minimum 6.5 CPI from 5<sup>th</sup> semester to 8<sup>th</sup> semester continuously without any break, otherwise they will have to discontinue pursuing B. Tech. (Hons.). These additional courses shall have to be the core courses only.

**13/8: Agenda items pertaining to Faculty of Liberal Studies**

- i) To introduce Majors and Minors in B. Com.( Hons.) the existing course structure of B.Com (Hons.) from Sem V to Sem VIII to be replaced by Revised course structure. The detail is enclosed as annexure.-6.
- ii) To interchange the courses of "Soft Skills" and "Work Place Communication" in B.Com (Hons.).

Existing	Modification	Justification
Soft Skills (Sem. 3) And Work Place Communication (Sem. 4)	Interchange	To align the subjects offered in B.Com with the same subjects offered in BA/ BBA program for better utilization of resources.

- iii) To introduce more subjects in each area of specialization (Marketing, Finance and Human Resource Management) in BBA ( Hons.) and accordingly a revised course structure is proposed from Sem V to Sem VIII. The detail is enclosed as annexure.6
- iv) To revise the syllabus of the courses related to Language & Literature in BA/BBA (Hons.), B.Com. (Hons.) & B.Sc. (Hons.) w. e. f. Academic year 2017-18 as per the annex.-7.

*Approved as above.*

**13/9: To deliberate and decide on following points of advice stressed in a meeting headed the Chairman-Standing Committee, as a part of shifting our paradigm to take quantum jump for excellence in research and academics in particular for Engineering programmes:**

- i) From the year 2018 batch, we may start 4+1 year program for preparing industry ready graduates at least as a pilot project. \

*The members expressed the following concerns for proposed 4+1 program:*

- *Nomenclature of such program is not included in the UGC specified program list. So its acceptability for employment & in higher study may be very less & further it may be questionable for its validity with reference to UGC nomenclatures.*
- *It is a general trend across Indian employment organizations & higher education institutions to look at such initiatives in conservative way.*
- *After completion of such extended duration program. the employability & deployability for the students may be marginalized.*

- ISM Dhanbad had to struggle for similar program with PSUs to avail more weightage for such students who passed one more year of their stud. & those efforts remained finally unsuccessful.
- Such students have again to compete with their junior batch passing out along with them in the job market & higher study.  
To attract students to such program there should be provision of early exit after 4 years with B.Tech. Degree. However by introducing such provision the objective of 4+1 year program may be lost.

So, the Council advised not to go for 4+1 program, & suggested to offer 5 year integrated B.Tech. +M.Tech. program.

ii) Capsule programs may be offered as electives, to raise employability of the students.

*Approved as above.*

iii) We should sensitize the students for broad areas of their career after graduation i.e. Industry Employment/ Innovation and Entrepreneurship/Research/Further study when they enter in the first year, so that they can start thinking and make up their mind to pursue their career in a particular direction. Accordingly, we should provide proper environment to let them nurture their career choice. We may offer relevant courses from 3<sup>rd</sup> year of the study, in this regard.

*The members raised following concerns:*

- The above referred broad areas may be offered in final year, instead in prefinal year.
- Offering such area wise courses may lead to steel jacketing the students during formative years of their career.
- As such the undergraduate course structure needs to be holistic in nature, instead chammelizing into Research/Employment/Entrepreneurship.
- Electives being offered during normal 04 year program may serve to an extent the same purpose of career choices.
- Career flexibility of the students will be at stake, when they come out in the competitive world after graduation.
- The present versatility of graduation may be lost.
- Even at MBA level i.e. PG level the students are found in dilemma in selecting different core areas like HR/Finance/Operations Management/Marketing etc.

13/10: Any other item with the permission of the Chair.

*It was discussed & resolved that each school /department should offer two courses/ 8 credits in addition to the minimum courses / credit required to earn B.Tech./M.Tech degree. CGPA would be counted on the minimum credit required for the completion of program. This additional course would enable student to drop any two courses( maximum 8 credits) for the purpose of CGPA calculation, provided he fulfils all other criteria to earn degree.*



**PANDIT DEENDAYAL PETROLEUM UNIVERSITY, GANDHINAGAR**

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**Minutes of 14<sup>th</sup> meeting of Academic Council: 30<sup>th</sup> October 2018**

The 14th meeting of the academic council of the University was held on 30<sup>th</sup> October 2018 at 4.00 pm. in the committee room at C Block.

**The following members were present:**

1. Prof. C Gopalkrishnan	Chairman
2. Dr. S. A. Bari	Member
3. Prof. Indira J. Parikh	Member
4. Dr. Tajinderpal Singh	Member
5. Dr. Anirbid Sircar	Member
6. Dr. Nigam Dave	Member
7. Prof. S. S. Kachhwaha	Member
8. Dr. Pramod Paliwal	Member
9. Dr. Nirendra Misra	Member
10. Dr. D. M. Parikh	Member

**The following members were absent:**

1. Dr. V. P. Sharma
2. Dr. Jayant Kelkar

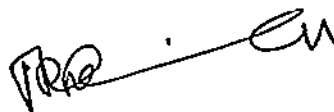
Prof. C Gopalkrishnan - Director General and Chairman Academic Council extended a cordial welcome to all the members. Thereafter, the agenda items were taken up in seriatim for discussion.

**The agenda-wise minutes has been stated hereunder:**

1/14: To confirm the minutes of the previous meeting of the Council held on 13<sup>th</sup> September 2017.

(The minutes of the meeting have already been circulated to all the members; a copy of which is placed at annex.- 1.)

*Resolved that the minutes of previous meeting of Academic Council held on 13/9/2017 be confirmed.*



2/14: To consider the following Action Taken Report on the decisions taken at the previous meeting:

Agenda No.	Particulars of decision	Action Taken
13/1	Minutes of the 12 <sup>th</sup> meeting of Academic Council were confirmed.	Noted.
13/2	Noted and approved the Action Taken Report of the 12 <sup>th</sup> meeting.	Noted & implemented.
13/3	Ratified and noted of the approvals granted by the Director General u/s 20(3) of the PDPU Act, as presented in the Annexure-II-Ratify.	Noted & implemented.
13/4	Approved the list of the students who completed successfully the following programmes, for conferring upon them the respective Degree/Diploma at the sixth Convocation.	Noted.
13/5	Resolved to approve UGC guidelines for determination of a uniform span period within which a student may be allowed to qualify for a Degree, as per the annex. - 4 The general formula mentioned there in is a) Time span = N+2 years for the completion of the program, Where N stands for the normal or minimum duration prescribed for completion of the program. b) In exceptional circumstances a further extension of one more year may be granted. The exceptional circumstances be spelt out clearly by relevant statutory body concerned of the University. c) During the extended period the student shall be considered as a private candidate and also not be eligible for ranking.	Noted & implemented:
13/6	Resolved to approve Agenda items pertaining to Faculty of Management & the Chairman of the Council advised to introduce research Paper publication for M.B.A. students.	Noted & implemented.
13/7	Resolved to approved the FoET proposals as contained in Annex. 5A & 5B, with the following revisions: a) To offer i) a course on Scientific Writing Methods as a part of the present curriculum of Communication Skills ii) Elective courses relevant to GATE examination course, and iii) MOOC courses as a part of elective courses. b) Publication of a conference paper & a Journal	Noted & implemented.

	<p><i>paper should not be made compulsory as a part of M.Tech. dissertation requirement. However the same should be encouraged as desirable for it, &amp; further that the dissertation work should be of the quality reasonable for its publication.</i></p> <p>c) <i>A provision for a degree of B. Tech. (Hons.) is introduced with effect from the students admitted in the academic year 2017-18 the academic year 2017-18 and onward, subject to the following conditions:</i></p> <p>i. The option for B. Tech. (Hons.) will be available after the completion of 4<sup>th</sup> semester. A student if having at least 6.5 CPI at the end of 4<sup>th</sup> semester can chose to pursue B. Tech. (Hons.) from 5<sup>th</sup> to 8<sup>th</sup> semester.</p> <p>ii. Such students shall have to pass minimum 4 no. of courses each of 3 credits, additionally. Such students shall have to maintain minimum 6.5 CPI from 5<sup>th</sup> semester to 8<sup>th</sup> semester continuously without any break, otherwise they will have to discontinue pursuing B. Tech. (Hons.). These additional courses shall have to be the core courses only.</p>	
13/8	Resolved to approve the FoLS course revisions as presented in the annexures.	Noted & implemented

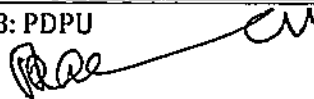
*Resolved to consider the Action Taken Report as mentioned above.*

3/14: To ratify various approvals granted by the Director General u/s 20 (3) of the PDPU Act, as mentioned in the annex.- 2.

*Resolved to ratify the approvals granted by the Director General u/s 20(3) of the PDPU Act, as per the annex.-2, with a correction that the revision in the syllabus in the course of Engg. Mech., Introduction to Civil Engg., and of Chemistry for B.Tech. sem. III to be implemented w.e.f. 2019-20.*

4/14: To approve the list of the students who completed successfully the following programmes, for conferring upon them the respective Degree/Diploma at the sixth Convocation:

Programme-Discipline	No. of pass outs students		
	Female	Male	Total
MBA (E & I)	8	54	62
MBA (General)	24	19	43
PGDPM-X	1	6	7
B.Tech. (Petro. Engg.)	6	128	134



B.Tech. (Civil Engg.)	13	118	131
B.Tech.(Mech. Engg.)	3	131	134
B.Tech. (Elect. Engg.)	11	92	103
B.Tech. (Chem. Engg.)	7	47	54
B.Tech. (Ind. Engg.)	6	50	56
M.Tech. (Petro. Engg.)	1	15	16
M.Tech. (Civil)	8	18	26
M.Tech. (Elect.)	2	8	10
M.Tech. (Mech.)	0	25	25
M.Tech. (Solar Energy)	0	10	10
M.Tech. (Nuclear Engg.)	2	3	5
M.Tech.(Env. Engg.)	5	4	9
M.Tech.(Chem. Engg.)	3	4	7
B.Com.(Hons) + Diploma	20	17	37
Bachelor of Arts (Hons.) + Diploma	53	6	59
Bachelor of Business Administration (Hons.) +Diploma	23	18	41
M.A. (English)	2	1	3
M.A. (IR)	3	3	6
M.A. (Pub. Adm.)	3	8	11
Ph.D.	1	8	9
<b>Total</b>	<b>205</b>	<b>793</b>	<b>998</b>

As per the lists attached herewith in annex.- 3.

*Approved as above.*

**5/14: Agenda item pertaining Ph.D.**

1. Proposed that different kind of admission test may be conducted for very senior level applicants for Ph.D. Accordingly, they should be tested in preparing a detailed research proposal based on a chosen topic. Such proposal writing will test their ability to think clearly on a technical/managerial/administrative problem with policy implication, analyze problem, understand the previous research in some area through literature survey and some aspects of research methodology suitable for study of the problem on hand.

*Approved as above with a direction that such admission test would be applicable to the candidates having at least 10 years of experience of working on a senior level position in a govt. /semi govt. /Industry organization.*

2. Proposed to consider UGC (Promotion of Academic Integrity and Prevention of plagiarism in Higher Educational Institutions) Regulations, 2018 as per annex. 4.



*Approved as above. It has also been directed that the supervisor also should certify the absence of plagiarism for his/her student submitting the thesis.*

**6/14: Agenda items pertaining to Faculty of Management**

1. Proposed a new executive programme Post Graduate Diploma in General Management-Executive (PGDGM-X) for the academic year 2019-20 in addition to the existing Post Graduate Diploma in Petroleum Management-Executive (PGDPM-X) to address the demand of industry executives who want to pursue an executive programme in General Management. Moreover this programme shall have synergy with existing academic programmes as per annex. 5.

*Approved as above.*

2. Following changes are proposed w. e. f. 2018-19 as per annex.

Sr. No.	Programme	Addition/ Deletion of Course	Justification
1	MBA (E&I) & MBA (GM)	<b>Deletion:</b> Financial Accounting for Managers (3.0 Credit)  <b>Addition:</b> <ul style="list-style-type: none"> <li>▪ Financial Accounting for Managers (1.5 Credits)</li> <li>▪ Financial Statement Analysis and Reporting (1.5 Credits)</li> </ul>	To make 'Financial Accounting for Managers' course (having a theoretical construct) somewhat compact and also having separate emphasis on the aspect of 'Financial Statement Analysis and Reporting' (which is more applied in nature).
2	MBA (E&I) & MBA (GM)	<b>Deletion:</b> Corporate Restructuring (1.5 Credits) Merger and Acquisitions (1.5 Credits)  <b>Addition:</b> Corporate Restructuring and Business Valuation (3.0 credit)	To tackle overlapping of contents in the two courses and introduce the learning of Business Valuation
3	MBA (E&I)	<b>Renaming:</b> Information System in Oil and Gas Value Chain (1.5 Credits)  <b>As</b> Digital Technologies in Oil and Gas Value Chain (1.5 Credits)	To reflect the required and expected 'Digital' learning skill set for industry visibility
4	MBA (GM)	<b>Deletion (from elective courses' set):</b> <ul style="list-style-type: none"> <li>▪ Business Analytics (1.5 Credits)</li> </ul>	These courses are important from employability skill set point of view and hence should be learnt by all students. This shall also help the MBA (GM) course to

		<ul style="list-style-type: none"> <li>▪ Business Consulting (1.5 Credits)</li> </ul> <p>Addition (in core courses' set):</p> <ul style="list-style-type: none"> <li>▪ Business Analytics (1.5 Credits)</li> <li>▪ Business Consulting (1.5 Credits)</li> </ul>	have a differentiation from other similar programmes offered by other B-Schools.
5	PGDPMX	<p>Delete:</p> <p>Requirement of two electives each from 7<sup>th</sup> &amp; 8<sup>th</sup> terms respectively (Thus there shall be 2 electives each in these terms instead of requirement of 4 earlier)</p> <p>Add:</p> <p>Two compulsory comprehensive Independent Study Projects (ISPs) in the 7<sup>th</sup> and 8<sup>th</sup> modules respectively.</p>	<p>The participants may select the project depending upon their area of interest. This will help them learn more about the industry or functional area in which they wish to have their future in terms of the career path. Integrating experiential learning with conceptual learning can be formally consolidated by introduction of these courses.</p> <p>Moreover the requirement of ISPs shall also ensure that the candidates also give significant amount of time towards these courses when they are away from campus, and thus learning continuously.</p>

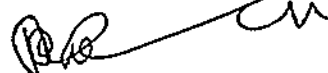
*Approved as above.*

3. Accepting NMAT Score (in addition to CAT/XAT) for future MBA admissions. NMAT is conducted by reputed international agency GMAC (who is the owner of GMAT) and has a wide acceptance among students. NMAT is a rigorous test that assesses all requisite aptitudes for B-School aspirants. Inclusion of NMAT is comparable testing mechanism with existing CAT/XAT and shall also widen the cache of quality applicants for SPM MBA Programmes. Moreover SPM has been included in the list of prominent Indian B-Schools accepting NMAT on the basis of our long standing, industry- accepted MBA Programmes.

*Approved as above.*

4. Providing makeup examination chance for students with an F grade and operationalizing the same under consultation with Director-SPM/Faculty considering all aspects of academic standards and quality.

*Approved as above. It was also discussed and decided that such students will be awarded only the minimum passing grade if they secure at least the minimum passing score in that examination with a view that the provision of makeup examination should*



*not result in indirect encouragement to the students to underperform knowingly and thereby to avail provision of makeup exam.*

**7/14: Agenda items pertaining to Faculty of Engineering & Technology.**

1. To approve various proposals of Faculty of Engg. & Technology as detailed in Annex. 6.

*Approved as above.*

2. To discuss & decide on proposal of arranging a research week celebration as per annex. 7.

*The council appreciated this initiative while approving it.*

3. To discuss & decide on following guidelines of AICTE:
  - a) "A student will be eligible to get Under Graduate degree with Honours or Additional Minor Engineering, if he/she completes an additional 20 credits. These could be acquired through MOOCs."  
These will be over and above present 180 credits required to earn the degree.  
This will be over and above the minimum no. of total credit needed to earn the normal B.Tech. degree i.e. without Hons. The additional credits to be earned by students are through NPTEL ( Indian version of MOOC) & will not involve/ call for routine class room teaching –learning process.  
However faculties can facilitate/ mentor the students in assignment submission & provide guidance for examination.

*Approved as above with direction to drop the term 'Indian version of MOOC' and instead to mention SWAYAM platform. While discussing at this agenda, Dr. Nirendra Mishra suggested to consider the Student Research Project be credited in formal semester performance index. The Chairman advised all first to deliberate sufficiently on this, and then to propose to the council through FoET.*

*It was further directed that the respective Board of studies will have to work out further modalities for proper implementation of this provision, after which this can be offered to the students.*

*Prof. S. A. Bari suggested to check in SWAYAM rules for whether the MOOC courses credits are inclusive of the total institute credits for non-Hons. Program. It*

has been then confirmed that "the MOOC courses credits are inclusive of the total institute credits for non-Hons. Program."

- b) The joint NPTEL-AICTE FDP certificate can be used for promotions under CAS with the conversion as below.
  - i) A 4-week NPTEL online course is equivalent to a half-week FDP.
  - ii) An 8-week NPTEL online course is equivalent to a one-week FDP.
  - iii) A 12-week NPTEL online course is equivalent to a one-and half-week FDP.

*Approved as above.*

- 4. To discuss & decide on mechanism proposed for monitoring & evaluation of Comprehensive Project for B. Tech. students, as per annex. 7.

*Approved as above.*

- 5. Proposed to start following new M. Tech. programs from academic year 2019-20:

- 1. M. Tech. (Petroleum Exploration) as per annex. 8.

*Approved as above.*

- 2. M. Tech. (Material Science & Engg.)

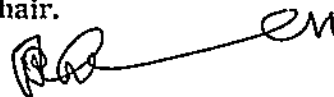
*Directed to get this recommended through the respective Board of Studies, with complete course structure and the syllabus for at least the first semester course.*

- 6. To discuss & decide on suggestion of council made in previous meeting to offer 5 year integrated B. Tech.+ M. Tech. program instead going for 4+1 B. Tech. program.

*Recommended to go for NBA approval first & then again put up in the next academic council meeting with due course structure & syllabus outline for the approval. Prof. S. A. Bari suggested keeping lateral entry as well as exiting clause in the said program to attract more students.*

8/14: Any other item with the permission of the Chair.

The meeting ended thanking the chair.





## PANDIT DEENDAYAL PETROLEUM UNIVERSITY, GANDHINAGAR

### **Minutes of 15<sup>th</sup> meeting of Academic Council:: 5<sup>th</sup> June 2019**

The 15<sup>th</sup> meeting of the academic council of the University was held on 5<sup>th</sup> June 2019 at 4.00 pm. in the committee room at C Block.

The following members were present:

1. Prof. C Gopalkrishnan	Chairman
2. Dr. S. A. Bari	Member
3. Dr. V. P. Sharma	Member
4. Dr. Jayant Kelkar	Member
5. Dr. Nigam Dave	Member
6. Dr. R. K. Vij	Member
7. Dr. D. M. Parikh	Member
8. Dr. Pramod Paliwal	Member
9. Prof. S. S. Kachhwaha	Member
10. Dr. T. P. Singh	Member
11. Dr. Indrajit Mukhopadhyay	Member
12. Dr. Ashvin Dave	Member

The following members were absent:

1. Prof. Indira J. Parikh

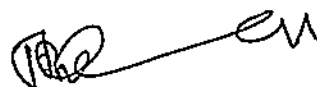
Prof. C Gopalkrishnan - Director General and Chairman Academic Council extended a cordial welcome to the members. Thereafter, the agenda items were taken up in seriatim for discussion.

The agenda-wise minutes has been stated hereunder:

1/15: To confirm the minutes of the previous meeting of the Council held on 30<sup>th</sup> October 2018.

(The minutes of the meeting have already been circulated to all the members; a copy of which is placed at annex.- I.)

*Resolved that the minutes of previous meeting of Academic Council held on 30/10/2018 be confirmed.*



2/15: To consider the following Action Taken Report on the decisions taken at the previous meeting:

Agenda No.	Particulars of decision	Action Taken
1/14	Minutes of the 13 <sup>th</sup> meeting of Academic Council were confirmed.	Noted.
2/14	Noted and approved the Action Taken Report of the 13 <sup>th</sup> meeting.	Noted & implemented.
3/14	Ratified and noted of the approvals granted by the Director General u/s 20(3) of the PDPU Act, as presented in the Annexure-II-Ratify.	Noted & implemented.
4/14	Approved the list of the students who completed successfully the following programmes, for conferring upon them the respective Degree/Diploma at the sixth Convocation.	Noted.
5/14	Approved agenda item pertaining Ph.D.: <ol style="list-style-type: none"> <li>1. Different kind of admission test may be conducted for very senior level applicants for Ph.D.</li> <li>2. To consider UGC (Promotion of Academic Integrity and Prevention of plagiarism in Higher Educational Institutions) Regulations, 2018, a presented in annex. 4.</li> </ol>	Noted & implemented.
6/14	Resolved to approve agenda items pertaining to Faculty of Management: <ol style="list-style-type: none"> <li>1. A new executive programme Post Graduate Diploma in General Management-Executive (PGDGM-X) for the academic year 2019-20, as presented in the annex. 5.</li> <li>2. Revision in courses as presented.</li> <li>3. To consider NMAT Score (in addition to CAT/XAT) for MBA admissions.</li> <li>4. Providing makeup examination chance to the fail students.</li> </ol>	Noted & implemented.
7/14	Resolved to approve agenda items pertaining the FoET <ol style="list-style-type: none"> <li>1. Revision in courses of B.Tech. &amp; M.Tech. as presented in annex. 6.</li> <li>2. To arrange a research week celebration as presented in annex. 7.</li> <li>3. <ol style="list-style-type: none"> <li>i) A student will be eligible to get Under Graduate degree with Honours or Additional Minor Engineering, if he/she completes an additional 20 credits. These could be acquired through SWAYAM.</li> </ol> </li> </ol>	Noted & implemented.

	ii) The joint NPTEL-AICTE FDP certificate can be used for promotions under CAS as per the prescribed conversions. 4. Mechanism for monitoring & evaluation of Comprehensive Project for B. Tech. students, as presented annex. 7. 5. i) To start a new M. Tech. program in Petroleum Exploration. ii) Directed to recommend the proposed new M. Tech. program in Material Science & Engg., through the respective Board of Studies with complete course structure and the syllabus for at least the first semester. 6. Resolved to offer 5 year integrated B. Tech.+ M. Tech. program instead going for 4+1 B. Tech. program, after NBA approval.	
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*Resolved to consider the Action Taken Report as mentioned above.*

3/15: To ratify various approvals granted by the Director General u/s 20 (3) of the PDPU Act, as mentioned in the annex.-2, and also a one shown hereunder:

*Resolved to ratify the approvals granted by the Director General u/s 20(3) of the PDPU Act, as per the annex.-2*

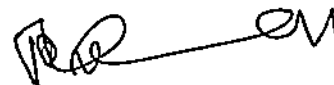
Additional new Master's program to start from Academic year 2019-20 as per annex. 3

Master's Program	No. of seats	School
M. Tech. (Mechanical Engg. (Manufacturing Engg.))	18	SoT
M. Tech. (Petro. Tech. (Exploration))	18	SPT
M. Tech. (Civil Engg. (Transportation Engg.))	18	SoT
M. Sc. (Finance)	30	SIS

*Resolved to approve the introduction of above referred new M. Tech. programs.*

*It was remarked that a degree nomenclature should be reflective of general perception and unhesitating acceptability in academic domain, so that it can also have its swift acceptability from the employers, and further it should not be conflicting with any other degree program of similar nature in the University.*

*In view of this, it was further directed to rename the program proposed in the name of M. Sc. (Finance) as M. Com. (Finance).*



4/15: To approve the list of the students who completed successfully the following programmes, for conferring upon them the respective Degree/Diploma at the seventh Convocation:

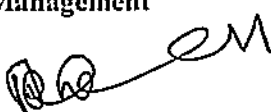
Programme-Discipline	No. of pass outs students		
	Female	Male	Total
MBA (E & I)	8	54	62
MBA (General)	24	19	43
PGDPM-X	1	6	7
B.Tech. (Petro. Engg.)	6	133	139
B.Tech. (Civil Engg.)	14	119	133
B.Tech.(Mech. Engg.)	3	134	137
B.Tech. (Elect. Engg.)	11	92	103
B.Tech. (Chem. Engg.)	7	48	55
B.Tech. (Ind. Engg.)	6	50	56
M.Tech. (Petro. Engg.)	1	15	16
M.Tech. (Civil)	8	18	26
M.Tech. (Elect.)	2	8	10
M.Tech. (Mech.)	0	25	25
M.Tech.(Env. Engg.)	5	4	9
M.Tech. (Solar Energy)	0	10	10
M.Tech. (Nuclear Engg.)	2	3	5
M.Tech.(Chem. Engg.)	3	4	7
B.Com.(Hons) + Diploma	20	19	39
Bachelor of Arts (Hons.) + Diploma	45	16	61
Bachelor of Business Administration (Hons.) +Diploma	32	10	42
M.A. (English)	2	1	3
M.A. (IR)	3	3	6
M.A. (Pub. Adm.)	3	7	10
Ph.D.	13	16	29
<b>Total</b>	<b>219</b>	<b>814</b>	<b>1033</b>

As per the list attached herewith in annex.- 4.

*Approved as above.*

5/15: Agenda items pertaining to Faculty of Management

- i) To consider and approve to start following PG Diploma programmes, with effect from availability of the new infrastructure facility.

Program Name	EMBA on Energy Management 	Post-Graduate Diploma in Advanced Financial Management	Data Analytics for Business
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Duration	1 year	1 year (Course will be spread into 3 Terms of 3-4 months each)	1 year (48 contact days- alternate weekend for 2 days Saturday and Sunday)
Intake	30	20-30	---
Full-Time/Part-Time	Full time Residential		Part-Time
Fees	Rs.10,71,000/- (Payable over 1 year)	Rs.1,50,000/-	---
Eligibility	<ul style="list-style-type: none"> <li>▪ Bachelor's Degree or an equivalent qualification with at least 50% marks (45% for SC/ST candidates)</li> <li>▪ Minimum 3 years of relevant work experience</li> </ul>	<ul style="list-style-type: none"> <li>▪ Bachelor's Degree in any stream with 50% marks</li> <li>▪ 3 years of relevant work experience as an executive after graduation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Bachelor's Degree from a recognized University</li> <li>▪ Minimum 3 years of relevant work experience</li> </ul>

*Approved above referred PG Diploma programs with a direction to change the nomenclature of EMBA program on Energy Management, as PG Diploma in Energy Management.*

ii) To consider and approve the new/modified courses/syllabus as shown below:

Sr. No.	Programme	Addition/ Deletion/Credit Revision/Renaming of Course(s) with effect from Academic Session 2019-20	Justification
1	MBA (E&I) and MBA (General Management)	<b>Addition:</b> 3.0 credit 'Business Dissertation' (Course Code to be assigned) course to be made compulsory for all 2nd year students from coming session. 'Business Dissertation' shall pertain to any functional area (of the choice of students) and credit earned shall be included in particular functional area specialization.	This enables students to carry out research oriented business dissertation writing that shall also have potential for research based publication. Moreover students shall be able to delve deep into at least one of the functional areas contemporary topics with a research perspective.
2	MBA (E&I) and MBA (General Management)	<b>Credit Revision:</b> 'Cost & Management Accounting' (AC -502) course having 3.0 credits shall now	Finance & Accounting Area has deliberated on this in detail and have taken this decision so that course contents'

		have 1.5 credits	duplication and overlapping can be tackled. Also this shall give scope to introduce other contemporary courses.
3	MBA (E&I) and MBA (General Management)	<b>Addition:</b> New Course: 'Financial Investigation and Forensic Accounting'(Course Code to be assigned) in 1 <sup>st</sup> year	Enable students to undergo this cutting edge contemporary developments in Finance & Accounting area.
4	MBA (E&I) and MBA (General Management)	<b>Credit Revision:</b> 'Corporate Restructuring & Business Valuation' (FN-617) currently offered as full (3.0) credit finance elective course is proposed to be offered as half (1.5) credit finance elective course.	Finance & Accounting Area has deliberated on this in detail and have taken this decision so that course contents' duplication and overlapping can be tackled. Also this shall give scope to introduce other contemporary courses
5	MBA (E&I) and MBA (General Management)	<b>Credit Revision:</b> 'Management Control Systems' (FN-610) currently offered as a full (3.0) credit core course is proposed to be made half (1.5) credit core course.	Based on students', alumni and Finance Area industry experts' feedback; this course has also been had duplication and overlapping from other courses like Strategic Management, which were necessary to be removed. Moreover this shall also provide the opportunity to offer other contemporary courses.
5	MBA (GM)	<b>Renaming:</b> Course on 'Bank Management' (FN-601) to be renamed as 'Management of Banking Operations'	To correctly reflect the overall course offering
6	MBA (GM)	<b>Addition:</b> New elective Course: 'FinTech & Blockchain'(Course Code to be assigned)	Enable students to undergo this cutting edge contemporary developments in Finance & Accounting area.
7	MBA (GM)	<b>Credit Revision :</b> Business Analytics (GM-609) course's credits to be enhanced from 1.5 to 3.0	To make the course more broad base by adding more contemporary contents
8	MBA (E&I)	<b>Credit Revision :</b> Business Analytics (GM-609) course's	To make the course more broad base by

		credits to be enhanced from 1.5 to 3.0	adding more contemporary contents
9	MBA (E&I)	<b>Renaming:</b> MIS (IS-501) course (1.5 Credit credits) to be renamed as 'Information Systems in Energy Value Chain'(Course Code to be assigned)	To correctly reflect the overall course offering, that is from Energy Sector perspective
10	MBA (E&I)	<b>Deletion:</b> Course 'Business Intelligence & Data Mining' (OM-601)	Contents of this course and coverage of this course have been incorporated in the enhanced credit course 'Business Analytics'.

*Approved as above.*

**6/15: Agenda items pertaining to Faculty of liberal studies.**

- i) To introduce following new M.A. programs, as per the course structure and syllabus mentioned into annex. 5.
- M. A. (Media and Communication)
  - M. A. (Economics)

*Approved as above, with a direction to emphasis on Econometrics in M. A. (Economics) programme.*

- ii) To consider and approve the new/modified courses/syllabus as per annex. 6.

*Approved as above.*

**7/15: Agenda items pertaining to Faculty of Engineering & Technology.**

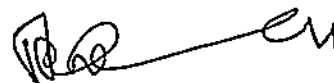
To consider and approve the following proposals:

- i) New/modified courses/syllabus as per annex. 7.

*Approved as above.*

- ii) Basket of Open elective as per annex. 8.

- All students are required to earn 3 credits from Open Elective (OE) out of total 180 credits for required for getting graduation degree.
- These three credits are to be earned through open elective offered within SoT OR they can earn this through on line courses. By now total ten open electives are kept in the basket at PDPU from which students can select based on their choice & liking of the subject. Baskets of open electives are compiled to facilitate students to decide about choosing the OE & when it is offered.



- It is desired that more than 80 % students should register from department other than the department offering the open elective to serve the purpose of floating open elective.
- Further if students fail in the open elective subject then he/she needs to re-register next year as & when this open elective is offered else students can opt for on line course. .
- The open elective can be offered if the numbers of students registered are minimum 45 else it should not be offered.

*Approved as above.*

iii) **Introduction of communication laboratory from 1st year to 3rd year**

Subject	Communication Skills/ English Language and Communication Lab	Total credit:1 (2 hours/week)
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**Objectives:**

- The course aims to impart understanding of the fundamental elements of communication in the English language.
- The course caters to know and understand different practices of verbal and non-verbal communication with inputs to improve basic language skills.
- The course is primarily activity-oriented, and the instructor will provide students with practical exposure to English usage, in addition to lectures. At the end of the semester, students are expected to be better equipped in the following areas:
- Listening: Understanding basic content in lectures and common everyday situations
- Speaking: Correct expression in the English language at a basic level
- Reading: Understanding, retaining, and critically analysing technical/non-technical content
- Writing: Using appropriate vocabulary, grammar, effective paragraph construction, writing in day-to-day scenarios. including digital platforms

Unit	Topics	Percentage %)
<b>First Year (1 Credit)</b>		
I	Structure of English Language Academic, Research and Technical Vocabulary Phonetics and Accent	25
II	Listening Skills Note Taking and Note Making Collective note-taking and note-making on digital platforms	25
III	Reading Reading Comprehension Speed Reading	25
IV	The art of introducing oneself Public speaking and articulation	25



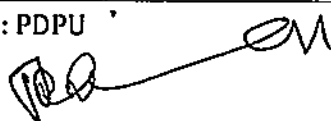
Second Year (1 Credit)		
I	Technical Writing Report Writing Creating Lab Journals and Manuals Portfolio of Critical Writing and Creative Writing Essay, Story-writing, etc.	25
II	Summarizing Writing Reviews (Books/Articles/Movies/websites) Reading Skills (Advanced)	25
III	Digital Literacy Emails Creating e-content Editing and proofreading online Using grammar and spell check software Using plagiarism checkers	25
IV	Group Discussion Resume Writing Interview Skills	25
Third Year (1 Credit)		
I	Writing Research proposals Writing technical projects	30
II	The Art of Presentation - Sapiens: A Brief History of Humankind (2011), Yuval Noah Harari - Thank You for Being Late: An Optimist's Guide to Thriving in the Age of Accelerations (2016), Thomas L. Friedman - (Presentation in teams of 4 students each, not more than two from the same branch, with a view to promote cross-disciplinary research)	40
III	Uploading portfolios on Slide Share Uploading Video modules	30

*Approved as above with a direction that the students should give class-presentation as a part of the course-conduct.*

- iv) To consider the concept note on introducing new academic programmes at SPT w. e. f. A. Y. 2020-21.

**1. Program: Bachelors of Technology in Natural Gas Engineering**

The proposed Bachelor's degree programs in Natural Gas Engineering introduces the concept of natural gas systems encompassing conventional and unconventional gas reservoirs, wells, gas gathering and processing facilities, storage, and transmission and distribution pipelines. The program gives a broad understanding of natural gas engineering design as related to growing energy demands, economic stability, national security, and further exploration in the Petroleum and Natural Gas. It is aimed at solving challenges faced by the petroleum and natural gas industry today. Individuals interested in natural gas engineering may pursue a



bachelor's, were they will learn about students the fundamental principles of engineering design, structural geology and drilling including detailed concepts of Natural Gas Utilization, Natural Gas Engineering, Natural Gas Processing, LNG, CGD. Other aspects also includes pipeline operations and construction, Measurement and storage, Safety practices, Facility optimization, Natural gas dehydration. This program prepares students to assume responsibility in the technical and managerial areas within the oil and gas industry. The B. Tech. in Natural Gas Engineering at Pandit Deendayal Petroleum University prepares students to do cutting edge research for solving complex problems of our earth and environment.

Program Snapshot:

- Program type: Bachelor's Degree
- Format: Regular -On-campus
- Duration: 4 years (8 semester)
- Total Credit : approx. 180 credits (in eight semester)

*The council cautioned against offering Four year UG programme in Gas Engineering, as there may not be enough number of courses relevant to Gas Engg. to spread across a larger span of four years/eight semesters; and further there would be less viability for placement in comparison with other general program like B. Tech. (Petroleum Engg.)/B. Tech. (Chemical Engg.). The closure of such program in premier institutions like ISM-Dhanbad was also cited in the meeting. In view of all this, the proposal is referred back.*

**2. Program: Master of Technology in Geological Engineering**

Geological Engineering is an interdisciplinary program focused on the engineering application of the Earth System Science knowledge in general with geological understanding and technical knowhow of specific practical challenges we face in our day to day life. Our teaching and research focuses virtually all aspects of understanding the endrogenic and surface processes of our planet, we live in, as well as management of its resources and the environment in sustainable manner. This program focuses on many important aspects of mineral production and mining, geotechnology including construction, environmental protection, transportation, energy, water, and natural hazards management. The M. Tech. in Geological Engineering at Pandit Deendayal Petroleum University prepares students to do cutting edge research for solving complex problems of our earth and environment.

Areas of specialization:

Energy and Environmental Engineering

- Engineering geology/geotectonic.
- Groundwater engineering.
- Mineral and mining geological engineering.



**Program Snapshot:**

- Program type: Master's Degree
- Format: Regular -On-campus
- Duration: 2 years (4 semester)
- Total Credit : 92 (in four semester)

*The Council advised to review the degree nomenclature of above mentioned new program M. Tech. (Geological Engg.), it may be renamed as M. Tech. (Engg. Geology). It was also advised to explore on introducing PG program in Remote Sensing and Earth Science.*

**v) Guidelines for Earning Certificate of Honors & Minor with B. Tech.**

Following guidelines are proposed for Honors Certificate for vertical in his /her OWN branch for Research Orientation; Minor in any OTHER branch for Improving Employability. A student can receive B. Tech. degree with normal 180 credits. Students opting Honors/Minor; UG program will require to earn 200 credits and will get additional certificate for its successful completion.

**Features of the scheme**

1. Students from any discipline is eligible to register for minor from any other discipline in FoET.
2. The scheme will start from 5th semester of UG program and applicant must have a minimum CGPA of 7.0 up to 4th semester without any back log.
3. If students get any back log after registering for Honors/Minor his/her registration will automatically get cancelled.
4. Students will be required to earn twenty (20) credits for earning certificate of Hons. OR Minor.
5. Students opting for Honors will not be entitled to register for Minor.
6. Students can register for only one Honors OR one Minor.
7. On line courses eligible for earning the credits will be identified by concerned department offer.
8. Department to identify and appoint a faculty member as Honors/Minor coordinator for this.
9. Certificate of Honors OR Minor will be separate from the normal certificate of B. Tech.
10. Students need to complete his/her Honors/Minor course during the tenure of UG. Time to complete Honors/Minor can be extended for maximum one year subject to students not opting for B. Tech. graduation certificate.



11. No case or disciplinary action to be pending for students registering for Honors OR Minor.

12. The course/s offered should be distinctive only, and cannot be part of the normal courses offered for graduation degree.

Department wise details of Honors & Minor proposed are as under:

**B. Tech. (Petroleum Engineering) 2019-20**

Sr. No.	Honors Course Name	credits
1	Big data analytics and IOT for Oil industry	4
2	Petroleum Resources Management	4
3	Well site geology	4
4	Deep sea Production system	4
5	Directional Drilling	4
6	Enhanced Oil recovery techniques	4
7	Application, design and Optimization of Artificial Lift Methods	4
8	Contracts in Hydrocarbon Industry	4
9	Well Completion	4
10	Well Control	4
11	Reservoir Modelling and Simulation	4
12	Drilling fluid and Cementation	4
	Minor Course Name	
13	Production Engineering	4
14	Drilling Engineering	4
15	Oil and Gas Pipeline Engineering	4
16	Enhanced Oil Recovery	4
17	City Gas Distribution	4

**B. Tech. (Computer Engineering) 2019-20**

Minor in CE Area: Programming, Data Structures and Algorithms, Operating Systems, Software Engineering, DBMS, Computer Networks, Open Source Technologies, Web Technologies

Sr. No.	Minor Course Name	Credits
1	Computer Architecture and Organisation	3
2	Database Management System	3
3	Design and Analysis of Algorithms	3
4	Programming, Data Structures and Algorithms using Python	3
5	Problem solving through Programming In C	3
6	Data Science for Engineers	3
7	AI: Knowledge Representation and Reasoning	3

8	Cryptography and Network Security	3
9	Big Data Computing	3
10	Cloud Computing	3
11	Introduction of Internet of Things	3
12	Machine Learning for Engineering and Science Applications	3

**B. Tech. (Information & Communication Technology) 2019-20**

Minor in ICT Area: Programming, Circuit Analysis and Digital Logic/Electronics, Signals and Systems, Computer Organization/Architecture; Microprocessors, Computer Networks, IoT.

Sr. No.	Minor Course Name	Credits
1	Discrete Mathematics	3
2	Introduction to Internet of Things	3
3	Computer Architecture	3
4	Artificial Intelligence Search Methods for problem Solving	3
5	Switching Circuits and Logic Design	3
6	Hardware Modelling using Verilog	3
7	Embedded Systems-- Design Verification and Test	3
8	Analogue Communication	3
9	Principles of Digital Communications	3
10	Introduction to Wireless and Cellular Communications	3
11	Fiber-Optic Communication Systems and Techniques	3
12	Computational Electromagnetics & Applications	3
13	Computer Networks and Internet Protocol	3
14	Deep Learning; Digital Signal Processing	3
15	Signals and systems; RF Antenna Design	3
16	Digital Image Processing	3
17	Database management Systems	3
18	Object Oriented concepts; Sensors Technology	3

**B. Tech. (Industrial Engineering) 2019-20**

Minor in Industrial Engineering: A student graduating in any another discipline of B. Tech. & chooses to take a minor in Industrial Engineering must complete 20 credit of coursework consisting of the courses listed below.

Sr. No.	Course Name	Credits
1	Introduction to Industrial Engineering/Production system engineering	3

2	Engineering Probability and statistics/ Operation Research I	3
<b>Remaining 14 Credits from any of following topics/course</b>		
1	Simulation Modeling and analysis	3
2	Statistical Quality control and Quality management	3
3	Logistics and Supply chain management	3
4	Analysis and control of manufacturing systems	3
5	Work design and Ergonomics	3
6	Operation Research II	3
7	Project Management for engineers	3
8	Industrial Safety analysis	3
9	Engineering economy	3
10	Plant layout and materials handling	3
11	Lean manufacturing and Six Sigma methodology	3
12	Sustainable Manufacturing	3
13	Design and Analysis of Experiment	3
14	Course on Descriptive; Predictive & Prescriptive analysis	2
	<b>Total Semester Credit needed 20</b>	

#### **B. Tech. (Engineering Management) 2019-20**

**Minor in Engineering Management:** A student graduating in any another discipline of B. Tech. & chooses to take a minor in Engineering Management must earn 20 credit of coursework consisting of the courses listed below.

Sr. No.	Course Name	Credits
1	Cost & Management Accounting	3
2	Principles & Practice of Management	3
<b>Remaining 14 Credits from any of following topics/course</b>		
1	Managerial Economics	3
2	Operation Research	3
3	Supply Chain Analytics	3
4	Project Management for Engineers	3
5	Total Quality Management	3
6	Working Capital Management	3
7	Course on Descriptive; Predictive & Prescriptive analysis	2
8	Data Analysis & Decision making	3
9	Toyota Production System	3
10	Innovation; Business Models & Entrepreneurship	3
11	Industrial Safety & Design	3
12	Finance for Engineers	3
13	Fundamentals of Artificial Intelligences	3
	<b>Total Semester Credit needed 20</b>	

**B. Tech. (Mechanical Engineering) 2019-20**

A student graduating in any other discipline of B. Tech. program and opt for a minor degree in Mechanical Engineering must complete 20 credits of course work from the courses listed below.

Sr. No.	Course Name	Credits
1.	Fundamentals of manufacturing processes	3
2.	Joining Technologies for metals	2
3.	Principles of Casting Technology	2
4.	Introduction to Machining and Machining Fluids	2
5.	Principles of Metal Forming Technology	2
6.	Principles of Mechanical Measurement	3
7.	Introduction to Fluid Mechanics	3
8.	Concepts of Thermodynamics	3
9.	Refrigeration and air-conditioning	2
10.	Conduction and Convection Heat Transfer	3
11.	Heat Exchangers: Fundamentals and Design Analysis	3
12.	Energy Conservation and Waste Heat Recovery	3
13.	Steam and Gas Power Systems	2
14.	Product Design and Development	1
15.	Product Design and Manufacturing	3
16.	Kinematics of Mechanisms and Machines	2
17.	Design Practice	2
18.	Industrial Automation and Control	3
19.	Engineering Mechanics - Statics and Dynamics	2
20.	Robotics	2
21.	Work System Design	3
22.	Product Design Using Value Engineering	1
23.	Introduction To Composites	3

**B. Tech (Civil Engineering) 2019-20**

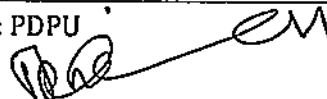
List of Courses for Minor in Civil Engineering

**(A) Core Courses**

Sr. No.	Subject	Credits
1.	Building materials and Construction	3
2.	Mechanics of Material	3

**(B) Other Courses**

Sr. No.	Subject	Credits
1	Introduction to Accounting and Finance for Civil Engineers	2
2	Sustainable Engineering Concepts And Life Cycle Analysis	2
3	Watershed Management	3
4	Energy Efficiency, Acoustics and daylighting in Building	3
5	Fire protection, Services and Maintenance Management for Building	3



6	Foundation Engineering	3
7	Concrete Technology	3
8	Glass In Buildings : Design And Applications	3
9	Principles of Construction Management	2
10	Wastewater Treatment and Recycling	3
11	Sustainable Materials and Green Buildings	3
12	Ecology and Environment	2

**B. Tech (Electrical Engineering) 2019-20**

**List of subject/areas for earning 20 credits Minor courses in EE**

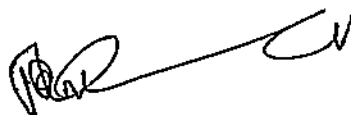
Sr. No.	Subject	Credits
1	Transducers & Sensors	4
2	Electric Vehicles	4
3	Electric Drives	4
4	Renewable Energy Sources	4
5	Energy Management	4
6	Electrical Safety	4

*Approved as above.*

8/15: Any other item with the permission of the Chair.

NIL.

The meeting ended thanking the chair.





**PANDIT DEENDAYAL PETROLEUM UNIVERSITY, GANDHINAGAR**

**Minutes of 16<sup>th</sup> meeting of Academic Council: 22<sup>nd</sup> November 2019**

The 16th meeting of the academic council of the University was held on 22<sup>nd</sup> November 2019 at 3.00 p. m..

The following were present:

1. Prof. C Gopalkrishnan	Chairman
2. Dr. S. A. Bari	Member
3. Dr. Nigam Dave	Member
4. Dr. R. K. Vij	Member
5. Dr. D. M. Parikh	Member
6. Dr. Pramod Paliwal	Member
7. Prof. S. S. Kachhwaha	Member
8. Dr. T. P. Singh	Member
9. Dr. Indrajit Mukhopadhyay	Member
10. Dr. Ashvin Dave	Member
11. Prof. Tarun Shah	Registrar

The following members were absent:

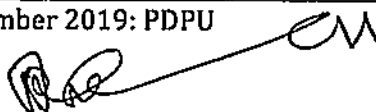
1. Dr. Jayant Kelkar
2. Prof. Indira J. Parikh
3. Dr. V. P. Sharma

Prof. C Gopalkrishnan - Director General and Chairman Academic Council extended a cordial welcome to the members. Thereafter, the agenda items were taken up in seriatim for discussion.

**The agenda-wise minutes has been stated hereunder:**

1/16: To confirm the minutes of the previous meeting of the Council held on 5<sup>th</sup> June 2019.

(The minutes of the meeting have already been circulated to all the members; a copy of which is placed at annex.- 1.)



*Resolved that the minutes of previous meeting of Academic Council held on 5/06/2019 be confirmed.*

2/16: To consider the following Action Taken Report on the decisions taken at the previous meeting:

Agenda No.	Particulars of decision	Action Taken
1/15	Minutes of the 14 <sup>th</sup> meeting of Academic Council were confirmed.	Noted.
2/15	Noted and approved the Action Taken Report of the 14 <sup>th</sup> meeting.	Noted & implemented.
3/15	Ratified and noted of the approvals granted by the Director General u/s 20(3) of the PDPU Act, as presented in the Annexure-II-Ratify, with the direction that it was remarked that a degree nomenclature should be reflective of general perception and unhesitating acceptability in academic domain, so that it can also have its swift acceptability from the employers, and further it should not be conflicting with any other degree program of similar nature in the University. In view of this, it was further directed to rename the program proposed in the name of M. Sc. (Finance) as M. Com. (Finance).	Noted.
4/15	Approved the list of the students who completed successfully the following programmes, for conferring upon them the respective Degree/Diploma at the seventh Convocation.	Noted.
5/15	Resolved to approve agenda items pertaining the FoM: i) Approved to start following PG Diploma programmes in: 1. Energy Management 2. Advanced Financial Management 3. Data Analytics for Business ii) Revision in courses/syllabus.	Noted & implemented.
6/15	Resolved to approve agenda items pertaining the FoLS: i) To introduce following new M.A. programs ▪ M. A. (Media and Communication) ▪ M. A. (Economics) ii) Revision in courses/syllabus as per annex. 6.	Noted & implemented.
7/15	Resolved to approve agenda items pertaining the FoET 1. Revision in courses of B.Tech. & M.Tech. as	Noted & implemented.

	<p>presented in annex. 7.</p> <p>2. Basket of Open elective as per annex. 8.</p> <p>3. Introduction of communication laboratory from 1st year to 3rd year</p> <p>4. The proposal of introducing B. Tech. in Natural Gas Engg. was referred back. Advised to review the degree nomenclature of proposed new program of M. Tech. in Geological Engg., may be renamed as M. Tech. (Engg. Geology). Advised to explore on introducing PG program in Remote Sensing &amp; Earth Science.</p> <p>5. Guidelines for Earning Certificate of Honors &amp; Minor with B. Tech.</p>	
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*Resolved to consider the Action Taken Report as mentioned above.*

3/16: To ratify various approvals granted by the Director General u/s 20 (3) of the PDPU Act, as mentioned in the annex.-2.

*Resolved to ratify the approvals granted by the Director General u/s 20(3) of the PDPU Act, as per the annex.-2.*

4/16: To approve the list of the students who completed successfully the following programmes, for conferring upon them the respective Degree/Diploma at the 8<sup>th</sup> Convocation:

Programme-Discipline	No. of pass outs students
	Total
MBA (E & I)	60
MBA (General)	58
PGDPM-X	7
B. Tech. (Petro. Engg.)	140
B. Tech. (Civil Engg.)	118
B. Tech.(Mech. Engg.)	130
B. Tech. (Elect. Engg.)	120
B. Tech. (Chem. Engg.)	64
B. Tech. (Ind. Engg.)	63
M. Tech. (Petro. Engg.)	12
M. Tech. (Civil)	18
M. Tech. (Elect.)	14
M. Tech. (Mech.)	18
M. Tech.(Env. Engg.)	18
M. Tech. (Solar Energy)	17
M. Tech. (Nuclear Engg.)	5
M. Tech.(Chem. Engg.)	3

B.Com.(Hons) + Diploma	57
Bachelor of Arts (Hons.) + Diploma	83
Bachelor of Business Administration (Hons.) +Diploma	77
M.A. (English)	8
M.A. (IR)	5
M.A. (Pub. Adm.)	5
Ph. D.	4
Total	1104

As per the list attached herewith in annex.- 3.

*Approved as above.*

- 5/16: To incentivise students innovators and start-ups, and accordingly to develop a policy for it. This has been suggested by the Education Dept. – Govt. of Gujarat vide a circular (suggestive framework) attached herewith annex.- 4.

*The Council directed to explore the feasibility of the suggestive framework recommended by the Government and thereby to recommend proper modalities to incentivize students innovators and star-ups. The said committee may also invite inputs from the senior faculty in this regard.*

- 6/16: Agenda items pertaining to Faculty of Liberal Studies.

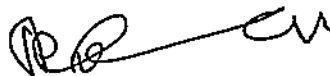
- I. To add elective in B.Com. (Hons.) as per annex. -5.

*While discussing on this agenda, the Director-SLS Dr. Nigam Dave stated that FoLS has been offering choice based selection of minor courses to BBA students in addition to their Major (core domain) courses. It has been proposed to extend the same also to the B. Com. students, without compromising the academic rigor. In order to facilitate it some changes in the first two years course basket are introduced. The new course structure would be implemented from the admission intake of 2020.*

*The Council directed to retain the courses like Business Economics as core subject/s and to reduce open electives in the first two years of B. Com program.*

- II. To consider and approve the new/modified courses/syllabus as per annex. -5.

*It is also directed to provide academic reason/s for removing a particular course, rather just mentioning casually that 'Not Required' in the proposal.*



*In view of all the above it is further directed to re-submit the proposal annex.5 to the Chairman*

- i) Providing academic reason/s wherever presently mentioned as 'Not Required',*
- ii) Providing correct (approved) nomenclature of the M. A. program mentioned in the proposal,*
- iii) Changing suitably 'with effect A.Y.', wherever the effect is mentioned from 2019-20,*
- iv) Removing ambiguity in the table of course structure of M. A. program.*
- v) Submitting approval note for the nomenclature mentioned as 'Public Policy & Admn.'" of M. A. programme.*

*The Chairman will decide regarding Approval to the proposals after getting it duly complied.*

**7/16: Agenda items pertaining to Faculty of Engineering & Technology.**

- I. To consider and approve the new/modified courses/syllabus as per annex. 6.**

*For the proposed new courses in M. Tech. sem.1 (Petroleum Engg.) it is directed to specify*

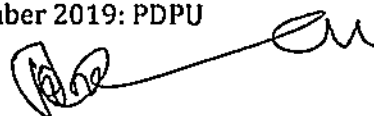
- i) How many course/s to be opted by the students, out of proposed 3 audit courses*
- ii) No. of credits for the proposed new courses*
- iii) Whether proposed foundation course would be considered as credit course, though it is proposed as only a month long course.*

*Directed to the BoS of SPT to provide credits in particular for the new proposed courses, also in future.*

*In view of all the above, it is directed to re-submit the proposal containing the clarifications sought as above. The Chairman will decide regarding Approval to the proposals after getting it duly complied.*

*It is also directed to re-submit the proposal for proposed changes in SoT courses, after changing suitably 'with effect A.Y.', wherever mentioned effect from 2019-20 and A.Y. prior it. The Chairman will decide regarding Approval to the proposals after getting it duly complied.*

- II. To introduce following new M. Tech. Programs w. e. f. 2020-2021:**



a. M. Tech (Structural Engineering) in Civil Engg. Dept.

*Approved, with direction to devise the entire course structure along with its syllabi and to submit the same to the Council.*

b. M. Tech. (Energy & Environment) in Chemical Engg. Dept.

*Directed to re-propose after ensuring the Degree Nomenclature in conformity with the nomenclatures approved by the AICTE/UGC.*

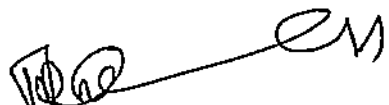
c. M. Tech. (Geological Engineering) in SPT.

*Directed to re-propose after ensuring the Degree Nomenclature in conformity with the nomenclatures approved by the AICTE/UGC.*

**Any other item with the permission of the Chair.**

*The Council Chair directed to the School Directors to conduct mid sem examinations for Foreign National students in case of their late admissions, only after conducting reasonable minimum no. of classes for them. Director-SoT emphasized on making the faculty follow to the schedule of such classes scrupulously.*

The meeting ended thanking the Chair.

  
\_\_\_\_\_  
Registrar

**Minutes of 17<sup>th</sup> meeting of Academic Council: 24<sup>th</sup> June 2020**

17<sup>th</sup> meeting of the Academic Council of the University was held on 24/6/2020 through online mode.

The following were present:

1. Dr. S. Sundar Manoharan, Chairman
2. Dr. J. V. Kelkar
3. Dr. M. Ravi Kumar
4. Dr. Sunil Khanna
5. Dr. R. K. Vij
6. Dr. Gopalkrishnan
7. Dr. Nigam Dave
8. Dr. D. M. Parikh
9. Dr. Pramod Paliwal
10. Prof. S. S. Kachhwaha
11. Dr. T. P. Singh
12. Dr. Indrajit Mukhopadhyay
13. Dr. Ashvin Dave
14. Prof. Tarun Shah
15. HoDs/Sr. Faculty:  
(Dr. Swapnil Dharaskar/Dr. Tejaskumar Thaker/Dr. B. G. Desai /Dr. Uttam Bhui/ Dr. Pragnesh Bhatt/Dr. Mehul Raval/ Dr. Vishvesh J Badheka/Dr. Anurag Mudgal/ Dr. Rajib Bandyopadhyay/ Dr. Abhijit Dilipkumar Ray/ Dr. Pradeep Malik/ Dr. Samir Patel)

The following members could not join in the meeting because of online connectivity problem:

1. Dr. S. A. Bari
2. Prof. Indira J. Parikh
3. Dr. V. P. Sharma


At the start of the meeting, the DG welcomed and apprised on positioning of PDPU amidst COVID19 and thereby the new normal in terms of development of Course Curriculum 2024, Patents, Product Development, Hackathon for students' internship. Examinations and Evaluations.

1/17: To confirm the minutes of the previous meeting of the Council held on 22<sup>nd</sup> November 2019.

(The minutes of the meeting have already been circulated to all the members; a copy of which is placed at annex.- 1.)

*Resolved that the minutes of previous meeting of Academic Council held on 22/11/2019 be confirmed.*

2/17: To consider the following Action Taken Report on the decisions taken at the previous meeting:

Agenda No.	Particulars of decision	Action Taken
1/16	Minutes of the 15 <sup>th</sup> meeting of Academic Council were confirmed.	Noted.
2/16	Noted and approved the Action Taken Report of the 15 <sup>th</sup> meeting.	Noted & implemented.
3/16	Ratified and noted of the approvals granted by the Director General u/s 20(3) of the PDPU Act, as presented in the Annex. – 2.	Noted.
4/16	Approved the list of the students who completed successfully the following programmes, for conferring upon them the respective Degree/Diploma at the 8 <sup>th</sup> Convocation.	Noted.
5/16	The Council directed to explore the feasibility of the suggestive framework recommended by the Government (Ref. Annex. – 4) and thereby to recommend proper modalities to incentivize student innovators and start-ups. The said committee may also invite inputs from the senior faculty in this regard.	Noted.
6/16	<p>Resolved to approve agenda items pertaining the FoLS:</p> <p>I. To add elective in B.Com. (Hons.) as presented vide annex. -5.</p> <p><i>While discussing on this agenda, the Director-SLS Dr. Nigam Dave stated that FoLS has been offering choice based selection of minor courses to BBA students in addition to their Major (core domain) courses. It has been proposed to extend the same also to the B. Com. students, without compromising the academic rigor. In order to facilitate it some changes in the first two years course basket are introduced. The new course structure would be implemented from the admission intake of 2020.</i></p> <p><i>The Council directed to retain the courses like Business Economics as core subject/s and to reduce open electives in the first two years of B. Com. program.</i></p> <p>II. To consider and approve the new/modified courses/syllabus as presented in annex. -5.</p> <p><i>It is also directed to provide academic reason/s for removing a particular course, rather just mentioning casually that 'Not Required' in the proposal.</i></p> <p><i>In view of all the above it is further directed to re-submit the proposal annex.5 to the Chairman</i></p> <p><i>i) Providing academic reason/s wherever presently mentioned as 'Not Required',</i></p> <p><i>ii) Providing correct (approved) nomenclature of the M. A. program mentioned in the proposal,</i></p> 	Noted & implemented.



	<p>iii) Changing suitably 'with effect A.Y.', wherever the effect is mentioned from 2019-20,</p> <p>iv) Removing ambiguity in the table of course structure of M. A. program.</p> <p>v) Submitting approval note for the nomenclature mentioned as 'Public Policy &amp; Admn.' of M. A. programme.</p> <p><i>The Chairman will decide regarding Approval to the proposals after getting it duly complied.</i></p>	
7/16	<p>Resolved to approve agenda items pertaining the FoET:</p> <p>I. To consider and approve the new/modified courses/syllabus as presented in annex. 6.</p> <p><i>For the proposed new courses in M. Tech. sem.1 (Petroleum Engg.) it is directed to specify</i></p> <ol style="list-style-type: none"> <li>i. How many course/s to be opted by the students, out of proposed 3 audit courses</li> <li>ii. No. of credits for the proposed new courses</li> <li>iii. Whether proposed foundation course would be considered as credit course, though it is proposed as only a month long course.</li> </ol> <p><i>Directed to the BoS of SPT to provide credits in particular for the new proposed courses, also in future.</i></p> <p><i>In view of all the above, it is directed to re-submit the proposal containing the clarifications sought as above. The Chairman will decide regarding Approval to the proposals after getting it duly complied.</i></p> <p><i>It is also directed to re-submit the proposal for proposed changes in SoT courses, after changing suitably 'with effect A.Y.', wherever mentioned effect from 2019-20 and A.Y. prior it. The Chairman will decide regarding Approval to the proposals after getting it duly complied.</i></p> <p>II. To introduce following new M. Tech. Programs w. e. f. 2020-2021:</p> <ol style="list-style-type: none"> <li>a. M. Tech (Structural Engineering) in Civil Engg. Dept.</li> </ol> <p><i>Approved, with direction to devise the entire course structure along with its syllabi and to submit the same to the Council.</i></p> <ol style="list-style-type: none"> <li>b. M. Tech. (Energy &amp; Environment) in Chemical Engg. Dept.</li> </ol>	Noted & implemented.

	<p><i>Directed to re-propose after ensuring the Degree Nomenclature in conformity with the nomenclatures approved by the AICTE/UGC.</i></p> <p>c. M. Tech. (Geological Engineering) in SPT.</p> <p><i>Directed to re-propose after ensuring the Degree Nomenclature in conformity with the nomenclatures approved by the AICTE/UGC.</i></p>	
Any other item with the permission of the Chair		
	<p>The Council Chair directed to the School Directors to conduct mid sem examinations for Foreign National students in case of their late admissions, only after conducting reasonable minimum no. of classes for them. Director-SoT emphasized on making the faculty follow to the schedule of such classes scrupulously.</p>	Noted & implemented.

*Resolved to consider the Action Taken Report as mentioned above.*

3/17 To ratify various approvals granted by the Director General u/s 20 (3) of the PDPU Act.

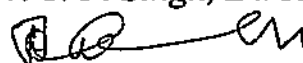
*Resolved to ratify the approvals granted by the Director General u/s 20 (3) of PDPU Act, as presented in the Annex.-2.*

4/17: To consider the UGC letter dated December, 2019 mentioning “Research and Publication Ethics (RPE)” to be made compulsory as Two (2) Credit Course with effect from forthcoming A. Y. 2020-21, attached herewith as Annex. – 3.

*The Council directed to offer an additional course on Research and Publication Ethics as compulsory two credit course w. e. f. new admission batch of Ph. D. program i. e. of Academic Year 2020-21. It was also directed to ensure uniform course delivery to all Ph. D. students across all Schools of the University.*

5/17: Agenda pertaining to Faculty of Management including the Course Curriculum 2020.

*The Dean – FoM explained the major revisions proposed as a part of development of course curriculum 2024. The Council noted the course curriculum revisions for M. B. A. program, containing Course Objectives and Program Objectives and also the examination pattern specified therein, and approved it after it was seconded by Dr. T. P. Singh, Director- AA.*



6/17: Agenda pertaining to Faculty of Liberal Studies including Course Curriculum 2024.

*The Director – SLS explained the major revisions proposed as a part of development of Course Curriculum 2024. The Council noted the course curriculum revisions for Faculty of Liberal Studies program, containing Course Objectives and Program Objectives and also the examination pattern specified therein and approved it, after it was seconded by Dr. T. P. Singh, Director- AA.*

7/17: Agenda pertaining to Faculty of Engineering & Technology including the Course Curriculum 2020.

*While opening up the agenda item for FoET, the Dean-FoET apprised to the Council that new Course Curriculum 2024 has been developed for all branches of B. Tech. under the able guidance of Director General of the University, to address in particular the needs of Industry 4.0. Then the HoDs of SoT apprised to the Council about major points of course revisions relevant to their department.*

*Dr. J. V. Kelkar expressed his observations that a well exhaustive work has been done in development of Course Curriculum 2024 by the faculty of the University while utilizing very meaningfully time to work from home during the lockdown period. He emphasized on deploying right kind of faculty to deliver the respective courses, likewise the new recruitment and training of the present faculty should take place. He desired to review the details of curriculum for Petroleum engineering, and also to interact and exchange ideas with SPT for the area of Petroleum Refining. Dr. M. Ravi Kumar sought how the best future technologies can be reflected in our curriculum so that young minds can be incited to cope with the new challenges. He also emphasized on importance of Industrial Chemistry in curriculum of Petroleum Engineering. He desired to know faculty profile with reference to their interest area for research.*

*Along the discussion on the agenda it was apprised by the HoD-Mech. Engg. that the emerging area of Electric Vehicles has also been included in the course curriculum of newly introduced program of B. Tech. (Automobile Engg.). The DG-PDPU apprised that Training the Trainers program has been held for the faculty of Mech. Engg. and of Elect. Engg. through International Automobile Centre of Excellence (iACE) run by M/s. Maruti Suzuki.*

*The Chair appreciated the School Directors for completing the quantum task of preparing Course Curriculum 2024 along with the Course Objectives and Program Objectives; and also appreciated for question papers now getting mapped with the COs.*

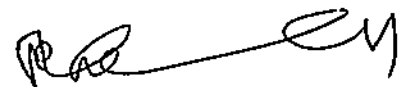
*The Chair directed to circulate the course curriculum duly vetted by the concerned Board of Studies for newly introduced M. Tech. program in Material Science & Engg. to all members of the Council and after receiving their remarks on it, its curriculum be considered and approved accordingly.*

*The Chair advised to the HoD – Civil Engg. to collaborate with ISR and GIDM which may also help in preparing the courses about Evacuation-Planning/Disaster Management during the time of natural or manmade calamities.*

*The Chair also directed to all HoDs in future to shadow all the meetings of Academic Council and also to present major revisions relevant to their Department in the form of PPTs - not more than two slides, and to send such summary of revisions to the members possibly in advance.*

*The Council noted the course curriculum revisions for the academic programmes of Faculty of Engg. & Tech., containing Course Objectives and Program Objectives and also the examination pattern specified therein and approved it, after it was seconded by Dr. T. P. Singh, Director- AA.*

The meeting ended with the vote of thanks to the Chair and Members and all Invitees.



Registrar

**Minutes of 18<sup>th</sup> meeting of Academic Council: 11<sup>th</sup> November, 2020**

18<sup>th</sup> meeting of the Academic Council of the University was held on 11/11/2020 through online mode.

The following were present:

1. Dr. S. Sundar Manoharan, Chairman
2. Dr. J. V. Kelkar
3. Dr. S. A. Bari
4. Dr. Sunil Khanna
5. Dr. R. K. Vij
6. Dr. Gopalkrishnan
7. Dr. Nigam Dave
8. Dr. D. M. Parikh
9. Dr. Pramod Paliwal
10. Prof. S. S. Kachhwaha
11. Dr. T. P. Singh
12. Dr. Indrajit Mukhopadhyay
13. Prof. Tarun Shah

The following members could not join in the meeting:

1. Prof. Indira J. Parikh
2. Dr. V. P. Sharma
3. Dr. Ashvin Dave

Dr. S. Sundar Manoharan - Director General & Council Chairman extended a cordial welcome to the members. Thereafter, the agenda items were taken up in seriatim for discussion.

**1/18:** To confirm the minutes of the previous meeting of the Council held on 24<sup>th</sup> June, 2020.

(The minutes of the meeting have already been circulated to all the members; a copy of which is placed at **Annex. - 1.**)

*Resolved that the minutes of previous meeting of Academic Council held on 24/06/2020 be confirmed.*



**2/18:** To consider the following Action Taken Report on the decisions taken at the previous meeting:

<b>Agenda No.</b>	<b>Particulars of decision</b>	<b>Action Taken</b>
1/17	Minutes of the 16 <sup>th</sup> meeting of Academic Council were confirmed.	Noted.
2/17	Noted and approved the Action Taken Report of the 16 <sup>th</sup> meeting.	Noted & implemented.
3/17	Ratified and noted of the approvals granted by the Director General u/s 20(3) of the PDPU Act, as presented in the Annex. – 2.	Noted.
4/17	The Council directed to offer an additional course as prescribed by UGC on Research and Publication Ethics as compulsory two credit course w. e. f. new admission batch of Ph. D. program i.e. of Academic Year 2020-21. It was also directed to ensure uniform course delivery to all Ph. D. students across all Schools of the University.	Noted.
5/17	The Dean – FoM explained the major revisions proposed as a part of development of course curriculum 2020. The Council noted the course curriculum revisions for M. B. A. program, containing Course Objectives and Program Objectives and also the examination pattern specified therein, and approved it after it was seconded by Dr. T. P. Singh, Director- AA.	Noted.
6/17	The Director – SLS explained the major revisions proposed as a part of development of Course Curriculum 2020. The Council noted the course curriculum revisions for Faculty of Liberal Studies program, containing Course Objectives and Program Objectives and also the examination pattern specified therein and approved it, after it was seconded by Dr. T. P. Singh, Director-AA.	Noted & implemented.
7/17	<p>While opening up the agenda item for FoET, the Dean-FoET apprised to the Council that new Course Curriculum 2020 has been developed for all branches of B. Tech. under the able guidance of Director General of the University, to address in particular the needs of Industry 4.0. Then the HoDs of SoT apprised to the Council about major points of course revisions relevant to their department.</p> <p>Dr. J. V. Kelkar emphasized on deploying right kind of faculty to deliver the respective courses, likewise the new recruitment and training of the present faculty should take place. He desired to review the details of curriculum for Petroleum engineering, and also to interact and exchange ideas with SPT for the area of Petroleum Refining. Dr. M. Ravi Kumar sought how the best future technologies can be reflected in our curriculum so that young minds can be incited to cope with the new challenges. He also emphasized on importance of Industrial Chemistry in curriculum of Petroleum Engineering. He desired to know faculty profile with reference to their interest area for research. The Chair directed to circulate the course curriculum duly vetted</p>	Noted & implemented.

	<p>by the concerned Board of Studies for newly introduced M. Tech. program in Material Science &amp; Engg. to all members of the Council and after receiving their remarks on it, its curriculum be considered and approved accordingly.</p> <p>The Chair advised to the HoD – Civil Engg. to collaborate with ISR and GIDM which may also help in preparing the courses about Evacuation- Planning/Disaster Management during the time of natural or manmade calamities.</p> <p>The Chair also directed to all HoDs in future to shadow all the meetings of Academic Council and also to present major revisions relevant to their Department in the form of PPTs - not more than two slides, and to send such summary of revisions to the members possibly in advance.</p> <p>The Council noted the course curriculum revisions for the academic programmes of Faculty of Engg. &amp; Tech., containing Course Objectives and Program Objectives and also the examination pattern specified therein and approved it, after it was seconded by Dr. T. P. Singh, Director- AA.</p>	
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*Resolved to consider the Action Taken Report as mentioned above.*

**3/18:** To approve the list of the students who completed successfully the following programmes, for conferring upon them the respective Degree/Diploma at the 8<sup>th</sup> Convocation:

*Resolved to approve the list of the 2608 students who completed successfully the following programmes, for conferring upon them the respective Degree/Diploma at the 8<sup>th</sup> Convocation.*

**4/18:** Any other item

*The council Chairman appraise to the members about the detail discussion held with Dr. Jayant Kelkar for introducing B. Tech. Program in the branch of Petrochemicals. He also briefed on new disciplines (Cyber Security / Data Sciences / Energy & Environmental Mgt. / Material Sci. & Engg.) getting offered for M. Tech. programs with effect from the current admission year.*

*It was also informed that the semester end examinations of December 2020 are getting planned out through Online Proctoring. Along the discussion, Dr. Kelkar appreciated the University for recording online classes delivered by the faculty under the COVID-19 situation. He also expressed his concern whether to reposition the Department of Chemical Engg. under the School of Petroleum Technology. Dr. R. K. Vij informed that the SPT and the Dept. of Chemical Engg. have started taking up the projects jointly.*



*The Council Chairman also appraised on five no. of facilities (Sports Complex, 45 MW Production Plant of Monocrystalline Solar PV, Translational Research Centre, Innovation & Incubation Centre- Technology Business Incubation and Centre of Excellence on Water Technology) to be unveiled by the Prime Minister at the Convocation on 21<sup>st</sup> November, 2020.*

The meeting ended with the vote of thanks to the Chair and Members and all Invitees.



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Registrar