# DHIRUBHAI AMBANI INSTITUTE OF
## INFORMATION AND COMMUNICATION TECHNOLOGY
### GANDHINAGAR

## MINUTES OF THE
## THIRTYTHIRD MEETING OF THE ACADEMIC COUNCIL

The 33rd meeting of the Academic Council was held on 7th January, 2020. The following members were present:

1. Prof K.S. Dasgupta, Chairman
2. Shri Tapan Misra
3. Prof Naresh Jotwani
4. Prof Sanjay Srivastava
5. Prof Binita Desai
6. Prof Suman Mitra
7. Prof Sanjeev Gupta
8. Shri Soman Nair, Secretary

Leave of absence was granted to Prof Surendra Prasad, Prof David Koilpillai, Shri K Narayan, and Shri Suresh Rangachar.

**Item No. 1**
**To confirm the minutes of the meeting of the Council**
**held on 10th January, 2019**

The Council confirmed the minutes of the 32nd meeting of the Council held on 10th January, 2019.

**Item No. 2**
**To note the actions taken on the minutes of the meeting of**
**the Council held on 10th January, 2019**

The Council noted the actions taken on the minutes of the meeting held on 10th January, 2019 as details placed before the meeting. Referring to the remark 'no action taken' recorded against the decision on reduction in credit requirements for B.Tech (ICT) and (CS) Programs and review of technical electives, the Council pointed out that the failure in implementing the decision of the Council is dishonouring its decision. In future, if the decision of the Council could not be implemented, the reasons with justification should be presented before the Council.

### Item No. 3
**To ratify the approval of Chairman, Academic Coguncil to implement separate  Academic Requirements for PhD Programme in Humanities, Social Sciences and Design**

The Chairman, Academic Council, invited Prof Manik Lal Das  PG Convenor to brie the Council on agenda items 3 to 4. He  briefed the Council on the recommendations of the PG Committee  to introduce separate academic requirements for PhD Programme in Humanities, Social Sciences and Design streams. He stated that the they  included (a)  introduction of part time sponsored  and external registration categories, (b) revision of credit requirements from 96 to 80 for MSc/BTech/MCA/MA graduates and (c) comprehensive examination consisting  of two parts an examination, and *viva-voce*.   He also informed that with the approval of the Chairman, Academic Council, the recommendaitons of the PG Committee were implemented effective from the academic year 2019-20.

The Council ratified the approval accorded by the Chairman  Academic Counci

### Item No. 4
**To ratify the approval of  Chairman, Academic Council to implement the Academic Requirements for PhD Programme in Engineering in ICT disciplines,  Science and Mathematics**
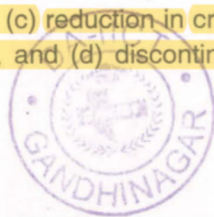
Prof Manik Lal  Das  informed the Council that Academic Requirements for PhL Programme in Engineering in ICT disciplines, Science and Mathematics have beer drawn up separately on recommendation of the PG Committee  He explained that the changes made in these streams were the same as  of  the PhD Programme i Humanities,  Social Sciences and Design streams except that  the comprehensive examination consisted  of written  or  qualifies and  proposal defense.  The recommendations were implemented effective from the academic year 2019-20 with the approval of the Chairman, Academic Council.

The Council ratified the decision takien by the Chairman

### Item No. 5
**To approve the report of MTech (ICT) Revisit Committee and the revised Academic Requirements**

Prof Manik Lal Das briefed the Council on the report of the MTech (ICT) Revist Committee.  He informed the Council that based on the recommendations of the Committee,  specializations in  Communication and Signal Processing   Machine Learning,  Software Systems and   VLSI and Embedded Systems have bee introduced.  The other changes made were (a)  introduction of resident and externe registrations, (b) fixation of semester load requirements  to 14/15 credits per semeste in the first year and second year, (c) reduction in credit  requirements from 60 to 55 o which 36 credits for coursework, and (d) discontinuation of project mode and  group

core courses and instead, introduction of program core and specialization core courses. He brought to the notice of the Council that these changes were implemented from the academic year 2019-20 with the approval of the Chairman of the Council.

The Council ratified the decision taken by the Chairman.

The Council suggested that besides the formal graduation certificates, PhD Scholars and M.Tech students be issued with separate specialization certificates. In case of PhD Graduates, the Certificates should state broad areas in which the Scholars have prepared his dissertations. The Council advised the Director to constitute a Committee to identify and classify the possible areas of specializations for PhD Scholars. It was decided that these Certificates are to be issued separately by the Registrar's Office.

## Item No.6
**To ratify the decision taken by the Chairman, Academic Council to approve the course structure of MTech Program in EC with specialization in Wireless Communication and Embedded Systems and the Academic Requirements**

Prof Suman Mitra, Dean (AP) briefed the Council on the genesis of launching the MTech (EC) with specialization in Wireless Communication and Embedded Systems (EC) jointly with CR Rao Advanced Institute of Mathematics Statistics and Computer Science, Hyderabad. He informed the Council that the Board of Studies of PG Programs at its meeting held on 12th April, 2019 approved the course structure and the total credit requirements for award of Degree at 61 credits out which 40 credits are to be earned through coursework and 21 credits through research. . He informed the Council that with the approval of the Chairman, Academic Council, the academic requirements have been implemented from the academic year 2019-20.

The Council ratified the decision taken by the Chairman.

## Item No.7
**To ratify the decision taken by the Chairman, Academic Council to approve the curriculum, scope and program outcome of M.Tech Programme in Computer Science & Engineering with specialization in Data Sciences and Information Security**

Prof Suman Mitra, Dean (AP), briefed the Council on the curriculum, scope and program outcome of the M.Tech Programme in Comuter Science and Engineering with specialization in Data Sciences and Information Security offered in collaboration with IIT Jammu. He informed the Council that with the approval of the Chairman, Academic Council the curricum has been implemented and 26 students are undergoing their winter semester studies at DA-IICT.

The Council ratified the approval of the Chairman.

**Item No. 8**

**To approve the proposal to launch B.Tech (Mathematics and Computing) Programme**

The Chairman recalled that at the meeting of the Council held on 15<sup>th</sup> Novembe 2018, a proposal was mooted to launch an integrated MSc Program in Mathematics and Computing. He stated that on studying the report prepared by the Working Committee and on consultation with academia and Industry, it was felt that it would be more worthwhile to launch a B.Tech Program in Mathematics and Computing Based on this conclusion, the Working Committee with Prof V Sunitha as Convenor had prepared a proposal. With the permission of the Council he invited Prof Sunitha to brief the Council on the program. .

Prof Sunitha briefed the Council that the Committee has designed the program after soliciting feed back from stakeholders such as faculty, alumni, prospective employers She stated that the curriculum is designed in such a way that the students will acquire a wide variety of competence that will be apt for a whole range of occupations and for research and managerial careers. Prof Sunitha also briefed in detail the curriculum of the program.

The Council studied the curriculum and accorded it approval to the program. It was decided to launch the program from the academic year 2020-21

**Item No. 9**

**To approve the proposal to launch M.Sc Program in Data Science**

The Chairman briefed the Council on the report submitted by the Working Committee under the convenorship of Prof Bhaskar Chaudhury to launch an M Sc Program in Data Science. He invited Prof Chaudhury to brief the Council on the program Pro Chaudhury summarised the important aspects of the program and stated that unlike M.Sc(IT) Program, the admission to the Program will be for Science Statistics Mathematics and Engineering Graduates. After detailed discussions, the Counci made the following recommendations:

- The course titled 'Critical Thinking and Term Paper Presentations' i second semester be replaced with 'Mini Project 1' with same credit structure Min Project 1 will provide the required foundation for the students to prepare detailed proposal for 'Mini Project 2' in semester 3.
- Credit Structure for 'Big Data Processing' course be changed to 2-0-2-3
- Credit Structure for 'Optimization' course be changed to 2-0-2-3
- The title of the course 'Numerical Methods for Data Science' be changed o 'Numerical Methods.'
- Depending on the duration of SAS training, the course on SAS should be assigned a proper credit structure with a well defined evaluation methodology
- Offfer more electives on emerging areas as Technical Electives.

Item No. 10
To consider the appeal of Mr Nileshkumar M. Banker,
deregistered PhD Scholar

The Council approved the request of Mr Niilesh M Banker, the deregisted PhD
Scholar, to rejoin the PhD program and authorised Dean (AP) to complete the
procedures for his readmission.

Item No. 11
To approve and recommend to the Board of Governors the
 award of  Degrees to the students who have fulfilled  their
academic requirements for graduation

The Council approved  and recommended   to the Board of Governors the award of
Degrees to 475  students  including 8 PhD Scholars  who have successfully completed
their studies in the   academic year 2018-19 as per the list placed before the meeting.
The Council also resolved to recommend to the Board of Governors to approve award
of President's Gold Medals to the following students:

| Sr No | Student Id | Student Name | CPI | Program |
|---|---|---|---|---|
| 1 | 201501020 | SHUBHAM D ANNADATE | 9.60 | B Tech (ICT) |
| 2 | 201501099 | AGAM ALKESHKUMAR SHAH | 9.51 | B. Tech (Honours) in ICT with minor in Computational Science |
| 5 | 201712001 | RANADE ARCHAN CHANDRASHEKHAR | 9.14 | M Sc (IT) |

The Council noted that as per rules on award of President's Gold Medals,  Mr Shah
Ketul Tejabhai, M.Tech (ICT) Student  who is  the topper in the class (CPI 9.49) became
ineligible for award of Gold Medal since he received an 'F' Grade in the Course
'Computational Optimization'  which he registered as an Audit course in Autumn 2018-
19 semester. The Council felt  that  the student who has obtained the next highest CPI
deserves award of  Gold Medal.  Accordinlgy, the Council  recommended award of
Gold Medal to   Ms. Dimple Jayendrabhai Shah, M.Tech (ICT) student who obtained the
next highest  CPI of 9.32.   It was also recommended  to make appropriate provisions
in the Gold Medal Rules to award the Gold Medal to the next topper in the list of merit in
case the first topper becomes ineligible for award of the Medal.

The Council noted that out of the 7 graduating students  of M.Des (CD) Programme, no
student is found to be eligible for award of Gold Medal as all of them have obtained less
than CPI 8.

**Item No. 12**
**To note the Report on 2019 Admissions**

At the invitation of the Chairman, Prof Mukesh Tiwari briefed the Counc o Admissions 2019. He highlighted that a comparative analysis of the applications received shows that the negative trend of applications during the years 2015 18 was halted in 2019. While DA-IICT is able to attract applications from outside Gujarat, the final acceptance of admission by the students from other States was quite less especialy in the B.Tech Programs. Most of the high JEE ranked candidates did not participate in the online counselling and a few who did, cancelled their admission at DA-IICT when they received admit from IITs, IIITs, NITs and private Instiues like VIT and SRM. It was pointed out that the applicants preferred B.Tech (Hons.) with minor in Computational Science compared to B Tech (ICT) Program.

Regarding admission to PG Programs, Prof Tiwari stated that Introduction of specializations in M.Tech (ICT) Program had an overall impact on the number of applications received and Machine Learning was the most preferred specialization Average GATE score in Machine Learning and VLSI and Embedded Systems specializations were higher than Communication and Signal Processing and Software Systems. For M.Tech (EC), the the GATE score of candidates applied was low Applicants with high GATE score who got admission in higher ranked Institutes preferred those over DA-IICT.

The Council noted the Admissions Report 2019.

**Item No. 13**
**To note addition to faculty**

The Council noted that the following faculty members have joined the Institute during April to December, 2019:

1) Dr Priyanka Singh, Assistant Professor
2) Dr Supantha Pandit, Assistant Professor
3) Dr Ahlad Kumar, Assistant Professor
4) Mr Avijit Dutta, Assitant Professor
5) Dr Abhishek Jindal, Assistant Professor
6) Dr Tapas Kumar Maiti, Associate Professor

The following additional items were discussed with the permission of the Chair

**Item No. 14(i)**
**Proposal to introduce one credit core course for extra-curricular activities**

The Council discussed the proposal in detail and felt that it is not advisable to award credit for extra-curriular activities since they are outside the realm of normal curriculum.

**Item No. 14(ii)**
**To approve the Academic Calendar 2020-21**

The Council approved the Academic Calendar 2020-21.

The meeting ended with a vote of thanks to the Chair.