



The minutes of the 51st meeting of the Institute Academic Advisory Committee (IAAC)

The aforesaid meeting was conducted on July 12, 2021, 03:30 pm onwards in the offline mode. The following were the part of the IAAC meeting:

Sr. No.	Name	Designation
1	Dr. S. R. Gandhi	Director, <i>Chairman</i>
2	Dr. P. L. Patel	Deputy Director
3	Dr. Pramod Mathur	Registrar
4	Dr. R. Venkata Rao	Dean (Faculty Welfare)
5	Dr. V. L. Manekar	Dean (Planning and Development)
6	Dr. Ravi Kant	Dean (Students' Welfare)
7	Dr. M. Mansoor Ahammed	Head, Civil Engineering Department
8	Dr. P. N. Patel	Head, Electronics Engineering Department
9	Dr. Jyotirmay Banerjee	Head, Mechanical Engineering Department
10	Dr. Sushil Kumar	Head, Applied Mathematics and Humanities Department
11	Dr. Suresh Kumar	Head, Department of Chemistry
12	Dr. Dimple V. Shah	Head, Department of Physics
13	Dr. B. N. Gohil	I/c. Head, Computer Engineering Department
14	Dr. H. R. Jariwala	Associate Dean (Academic)
15	Dr. R. D. Shah	Associate Dean (Academic)
16	Dr. Vipul Kheraj	Associate Dean (Faculty Welfare)
17	Dr. S. R. Patel	Associate Dean (Students' Welfare)
18	Dr. K. D. Yadav	Associate Dean (Research and Consultancy)
19	Dr. S. N. Sharma	Dean (Academic), <i>Member-Secretary</i>
Invitees		
20	Shri Amit C. Patel	In-Charge Deputy Registrar (Academic)

The following could not attend the meeting.

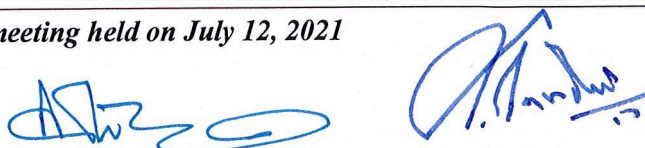
Sr. No.	Name	Designation
1.	Dr. D. C. Jinwala	Dean (Research and Consultancy)
2.	Dr. R. Chudamani	Head, Electrical Engineering Department
3.	Dr. S. S. Arkatkar	Associate Dean (Planning and Development)
4.	Dr. P. V. Timbadiya	Dean (Alumni and Resource Generations)
5.	Dr. Y. D. Patil	Associate Dean (Planning and Development)
6.	Dr. H. B. Mehta	Associate Dean (Research and Consultancy)
7.	Dr. C. M. Patel	Head, Chemical Engineering Department
Invitees		
8.	Shri Mrityunjay K. Manglam	Assistant Registrar (Academic)

ATW

[Signature]
3/8/21

Items and resolutions:

Item 1	<p>To consider the recommendations of the 41st and 42nd meetings of the DAAC, Civil Engineering Department about the following.</p> <p>(1) A request of Pankaj J. Gandhi (D18CE008), working under the Supervision of Professor P. G. Agnihotri, about the category conversion from the FSF to the PEC. (Resolution no. 41.2 of the DAAC)</p> <p>(2) About an 'addition' of a Supervisor for the PhD thesis Supervision of Chappidi Srinivas (D20CE023), an FIR category. (Resolution no. 41.3 of the DAAC)</p> <table border="1" data-bbox="391 616 1380 851"> <tr> <th>Existing Supervisor</th><th>Proposed Supervisors</th></tr> <tr> <td>Dr. Ankesh Kumar, Civil Engineering Department</td><td>(i) Dr. Ankesh Kumar, Civil Engineering Department (ii) Dr. Jogender Singh, Chemical Engineering Department</td></tr> </table> <p>(3) About an 'addition' of a Supervisor for the PhD thesis Supervision of Nirmal S. Mehta (D20CE029), a PEC category. (Resolution no. 41.4 of the DAAC)</p> <table border="1" data-bbox="391 1064 1380 1265"> <tr> <th>Existing Supervisor</th><th>Proposed Supervisors</th></tr> <tr> <td>Dr. Vishisht Bhaiya, Civil Engineering Department</td><td>(i) Dr. Vishisht Bhaiya, Civil Engineering Department (ii) Dr. Kashyap A. Patel, Civil Engineering Department</td></tr> </table> <p>(4) About the teaching scheme of Bachelor of Planning (B. Plan.).</p> <p>The respective DAAC resolves the admission from July 2022 onwards that is proposed by the PG Section (Urban Planning). (Resolution no.41.8 of the DAAC).</p> <p>(5) To consider revised teaching schemes and syllabi for the seven existing M.Tech. programmes of the Department. (Resolution no.41.9 of the DAAC).</p> <p>(6) To consider the rearrangement in the Supervision of two PhD students, 'Laxman Rathod (DS20CE017) and Yatirnjulu (D20CE014) with the FIR category'. The proposed is 'Dr. P.V. Timabadia would act as the Supervisor and Dr. Bandita Barman (Co Supervisor). The current arrangement is 'the single Supervision of Dr. Barman'. The DAAC recommended the Supervision strength of Dr. Timbadia is 0.5 for each case. (Resolution 42.3 of the DAAC).</p> <p>(7) A request of Praveen Barapatre (DS16CE008) about the category conversion from the FIR to FSF. (Resolution no.42.1 of the DAAC).</p>	Existing Supervisor	Proposed Supervisors	Dr. Ankesh Kumar, Civil Engineering Department	(i) Dr. Ankesh Kumar, Civil Engineering Department (ii) Dr. Jogender Singh, Chemical Engineering Department	Existing Supervisor	Proposed Supervisors	Dr. Vishisht Bhaiya, Civil Engineering Department	(i) Dr. Vishisht Bhaiya, Civil Engineering Department (ii) Dr. Kashyap A. Patel, Civil Engineering Department
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Res. 1	(a) Subitems listed at serial orders (1)-(3) were resolved and recommended for the								



	<p>consideration of the Senate. Regarding the sub item (2), the DAAC would submit a justification of the proposed Supervision arrangement citing a connection between the research directions of the proposed Supervisors 1 and 2 in the context of the joint PhD supervision.</p> <p>(b) The sub item (4) was discussed and the IAAC suggested the concerning DAAC to revisit the nomenclature of the proposed program, consult similar programs in the Institutes of Technology. That would be further considered in the future IAAC meetings.</p> <p>(c) Resolved and suggested the DAAC to revisit the schemes and syllabi of the seven M. Tech. programs of the Department of the Civil Engineering. Interestingly, the revisit means the 'revision' would be in agreement with the consideration of the generalized scheme of the M Tech program and suggestions of the workshop experts.</p> <p>(d) Recommended the sub item (6) with the "special case, considering Dr. Burman has resigned from the SVNIT and the DAAC recommendation was submitted well in advance".</p> <p>(e) Recommended subject to a submission of justifications in terms of the enhanced research productivity of the Candidate after the conversion from the FIR to the FSF.</p>
Item 2	<p>To consider the recommendation of the 65th meeting of the DAAC, Computer Engineering Department about the following.</p> <p>A request of Dilay Parmar (DS17CO001), working under the Supervision of Dr. U. P. Rao, about the category conversion from the FIR to PIS. (Resolution no.1 of the 65th meeting of the DAAC).</p>
Res. 2	Recommended.
Item 3	<p>To consider the recommendations of the 39th meeting of the DAAC, Applied Mathematics & Humanities Department.</p> <p>(1) To allow the PhD students for the Comprehensive examination conditionally, whose sixteen-credit required is awaited due to postponement of the regular NPTEL examination. [Resolution no. 39.2 of the DAAC)</p> <p>(2) Inclusion of the SWAYAM Courses in M.Sc. as elective courses (Institute elective and Department elective). (Resolution no. 39.5 of the DAAC)</p> <p>(3) Creation of the Post-Doctoral opportunities in all the three disciplines (Mathematics, English and Management). (Resolution no. 39.7 of the DAAC)</p> <p>Notably, the Senate appreciated and agreed to introduce the post-doctoral opportunities for the research augmentation of the Institute. (Resolution 16 of the 50th Senate) https://www.svnit.ac.in/Data/minutes/senate/50th%20SENATE_MINUTES.pdf</p> <p>(4) About a request of Parekh Krupali S. (D17EN001), working under the supervision of Dr. Urvashi Kaushal, for the category conversion from the FSF to the PEC. (Res. no. 39.9).</p>

Res. 3	<p>(1) The Dean Academic informed the IACC of the following. The first is the consideration of the minimum pass grade certificates issued from the NPTEL for the calculation of the credit requirement of the Course work of PhD students. Then, the preparation of the list of eligible candidates for appearing in the Comprehensive assessment of the July month of the year 2021.</p> <p>(2) Deliberated and suggested the concerned DAAC to revisit the proposal by preparing baskets of Department electives and Institute electives under the broader category of the subject Mathematics, considering the existing Faculty expertise available with the Department in the proposed electives as well as framing the revised scheme due to additions of the proposed.</p> <p>(3) Deliberated and appreciated the proposal. It was acknowledged that the creation of the Post-Doctoral opportunities within the framework of the Institute and hiring the Post-Doctoral Fellows (PDFs) would augment the 'Research beyond the PhD program'. That would offer numerous advantages to the Institute for the Academic and Research progresses of the Institute with significant additions broadly. The existing available Post-Doctoral arrangements with the National Institutes of Technology were cited in the discussions.</p> <p>It was decided that a Committee would ascertain the methods of hiring the PDFs, allocations of vacancies within the Academic Departments of the Institute, assigning the mentors, expectations from the Fellows, duration of their association with the Institute and their fellowships. The above is not restricted to the Department of Mathematics and Humanities, extended to other Academic Departments as well. The Committee report would be submitted to the consideration of the Senate.</p> <p>(4) Recommended. The conditions of the PEC hold after the conversion.</p>
Item 4	<p>To consider the recommendations of two meetings of the DAAC, Department of Chemistry.</p> <p>(1) About the category conversion from the PPF to the FSF, Mr. Jyotsnamayee (DS17CY003) working under the supervision of Dr. Rajendar Kumar (Supervisor) and Dr. S. K. Sahoo (Co-supervisor). Changes (requirements, change in the order of the Supervision). (Resolution 2 of the 90th meeting of the DAAC)</p> <p>(2) About the provision of two-degree certificates, first is graduation (BSc) and the second is post-graduation (MSc) after the sixth semester and tenth semester respectively, within the study of five-year integrated MSc programmes of the Institute. (Resolutions 2 and 3 of the 88th meeting of the DAAC).</p>
Res. 4	<p>(1) Recommended, but the reversal in the Supervisory role, i.e. Dr. S K Sahoo (Supervisor) and Dr. Rajendar Kumar (Co-Supervisor).</p> <p>(2) Discussed in the detail about the award of the BSc degree after the completion of the initial three years of the existing integrated five-year MSc programme (Chemistry). The IAAC suggested the requirement of aligning the schemes and syllabi of the first six</p>

	Semesters of the integrated program in agreement with ‘the standard BSc programmes offered by the Universities and Colleges’ and ‘guidelines of the UGC’ in this regard. The similar re-alignment of the integrated five-year MSc from the seventh Semester onward is requisite as well.									
Item 5	To discuss about the duration and capping for the internship of M. Tech. students in second year of the M.Tech. programmes.									
Res. 5	<p>Resolution 21 of the 34th meeting of the IAAC stands applicable. In this case, a comprehensive, forward-looking MoU, discussing well-defined scientific collaborations, would be signed between the SVNIT and the Industry.</p> <p>Under exceptional cases subject to the careful review of the CVs of Industry Mentors, M. Tech. Interns are allowed to choose Industry mentors with the B. Tech. qualification. For this specific case, proven research credentials, e.g. in terms of publications, inventions and scientific reports authoring, of the Industry Mentors are the requisite.</p>									
Item 6	<p>To consider the recommendations of the 32nd meeting of the DAAC, Department of Physics.</p> <p>(1) To start 2-year M.Sc. Physics programme. (Resolution no. 32.2).</p> <p>(2) To start 4-year B.Tech. programme in Engineering Physics. (Resolution no. 32.2).</p>									
Res. 6	Regarding the subitems (1) and (2), the IAAC deliberated and suggested the concerning DAAC to revisit the proposal. Alternatively, it was encouraged to explore the possibility of potential M Tech programmes that would meet the societal expectations as well as fill the niche in the contemporary societal requirement.									
Item 7	<p>To consider the recommendations of the two meetings of the DAAC, Electronics Engineering Department. (1) The enrollment of the Ph.D. scholar for additional credit/ audit courses after the successful completion of the comprehensive examination and the ‘transcript release’ for the opted courses. The DAAC further proposed that the student may register for the same by the Supervisor’s consent for maximum of one audit course per semester without disturbing TA duty. The audit course registration is possible up to the pre-synopsis declaration. (Resolution no. 60.2 of the DAAC).</p> <p>(2) To consider changes in the nomenclatures of the two existing M.Tech. programmes. (Resolution no. 61.1)</p> <table><tr><th>Sr. N</th><th>Present name</th><th>Revised name</th></tr><tr><td>1.</td><td>M.Tech. Programme in Communication Systems</td><td>M.Tech. Programme in Communication Technologies & Networks</td></tr><tr><td>2.</td><td>M.Tech. Programme in VLSI and Embedded Systems</td><td>M.Tech. Programme in Microelectronics and VLSI Design</td></tr></table> <p>(3) A request of Ketki Chintankumar Pathak (D14EC007) regarding extension to submit</p>	Sr. N	Present name	Revised name	1.	M.Tech. Programme in Communication Systems	M.Tech. Programme in Communication Technologies & Networks	2.	M.Tech. Programme in VLSI and Embedded Systems	M.Tech. Programme in Microelectronics and VLSI Design
Sr. N	Present name	Revised name								
1.	M.Tech. Programme in Communication Systems	M.Tech. Programme in Communication Technologies & Networks								
2.	M.Tech. Programme in VLSI and Embedded Systems	M.Tech. Programme in Microelectronics and VLSI Design								

	final thesis due to COVID-19. [Ref. No. ECED/121 dated 05-05-2021]. The last date of submission of the thesis is May 7, 2021. In terms of section (12.2) of the academic regulation, permission may be given.																								
Res. 7	<p>(1) A committee would study the proposal.</p> <p>(2) Discussed and recommended to adopt the <i>revised nomenclatures</i> of the two M Tech programmes of the Electronics Engineering as stated in the item. It suggested the following: (i) the Department would conduct two different workshops with the different compositions of the experts associated with <i>the revised specialization nomenclatures</i>, Communication Technologies & Networks and Microelectronics and VLSI Design. Furthermore, the schemes and the syllabi of the two M Tech programs with the revised specialization nomenclatures would be in agreement with the generalized scheme of the M. Tech. programme and suggestions of the workshop experts.</p> <p>Regarding the two new M. Tech. programmes in addition to the two existing M Tech programmes with their revised nomenclature, the IAAC suggested the concerning DAAC the following. First, consideration of schemes and syllabi of the two revised specialization nomenclatures and then revisit to the two proposed new programmes, omission of overlapping parts between them ('Communication Technologies & Networks, Microelectronics and VLSI Design', 'Signal Processing and Machine Learning, Integrated Circuits and Systems'), availability of expertise, resources 'with the Department' and 'required additions. That would be the subject of the future IAAC meeting discussions.</p> <p>(3) Approved.</p>																								
Item 8	To deliberate and adopt a resolution about the application of XX grade in the Autumn Semester teaching of the Academic Year 2021-22. (Ref. 10.7 resolution of 10 th SEC and resolution 6 of 50 th meeting of the Senate).																								
Res. 8	Deliberated and the XX grade holds applicable.																								
Item 9	To note the exclusion of the Printer and UPS from the list of computer peripherals regarding the reimbursement of contingency expenses of M.Tech. and Ph.D. students.																								
Res. 9	The omission noted.																								
Item 10	<p>To discuss and resolve about non-payment of the Semester fee by some students</p> <table><tr><th>Sr. No.</th><th>Admission No.</th><th>Name of students</th><th>Course(s)</th><th>Category</th><th>Remarks (A.Y. 2020-21)</th></tr><tr><td>1.</td><td>I19CY027</td><td>Rathod Dhanraj</td><td>M.Sc. Chemistry</td><td>ST</td><td>Fees not paid for 3rd and 4th Semesters</td></tr><tr><td>2.</td><td>I19PH062</td><td>Arra Akash</td><td>M.Sc. Physics</td><td>SC</td><td>Fees not paid for 3rd and 4th Semesters</td></tr><tr><td>3.</td><td>P19ST014</td><td>Dinesh Balajirao Pakande</td><td>M.Tech. Structural Engg.</td><td>OBC</td><td>Fees not paid for the 4th Semester</td></tr></table>	Sr. No.	Admission No.	Name of students	Course(s)	Category	Remarks (A.Y. 2020-21)	1.	I19CY027	Rathod Dhanraj	M.Sc. Chemistry	ST	Fees not paid for 3 rd and 4 th Semesters	2.	I19PH062	Arra Akash	M.Sc. Physics	SC	Fees not paid for 3 rd and 4 th Semesters	3.	P19ST014	Dinesh Balajirao Pakande	M.Tech. Structural Engg.	OBC	Fees not paid for the 4 th Semester
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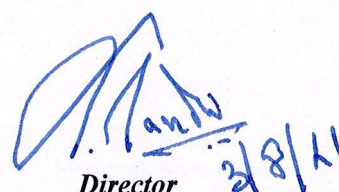
Res. 10	The Academic Section in combination with the respective Department would suggest the Students to meet the requirement for the study of the programmes. Regarding the Student listed at serial number 3 of the item 10, the IAAC was informed of the incomplete fee submission and registration status.
Item 11	To bring clarity about the 'Makeup Test' as an alternative to the 'Mid Semester Examination'.
Res. 11	The Makeup test detail can be found in the 'Academic Regulations 2013-14' (page 4, 7.2 subsection 7.2). In addition to this, the first-year students, who appeared in the Mid semester examination, but aspires to reappear in the Make up test, can score maximum 12 marks out of the maximum marks 30.
Item 12	To discuss and adopt a resolution about 'the Autumn semester teaching mode and related part of the Academic Programmes of the Institute from the pandemic viewpoint' and adequacy of 'reapplication of the Senate resolution' for the AY 2021-22. Reference: resolution 9 (serial number 13) of the 48 th meeting of the Senate.
Res. 12	Discussed and agreed the reapplication of resolution 9 (serial number 13) of the 48 th meeting of the Senate, ie. the mode of teaching is online for the above semester teaching until further notifications. It was agreed that the word 'proposed' of the afore-said resolution needs replacement with the word 'resolved'.
Item 13	About clarity in the written part of the PhD admission test of the Institute.
Res. 13	Discussed in the detail. The following were resolved. (1) The written test and interview of the PhD admission process would be the section-specific. The question paper of the written test would be the specialization-based. The specialization-based question paper relates to specialized programmes-major research areas. This is irrespective of the mode of examination. (2) The PhD admission has two components, i.e. the written and interview. For each component, fifty (50) is the maximum mark of the evaluation. The written test durations are two-hour and one-hour for the offline and online 'modes' respectively. For the both modes, questions would be the objective-type. The answer scripts of the written test and results (inclusive of the both components) would be submitted to the Academic Section records. The written test marks are for the screening purposes only (section 2.2.2 (a), associated paragraph 2 of the Academic Regulation of the Doctoral Programmes, July 2019 onwards). The 35-percentile criterion would be calculated by considering the number of candidates appeared in the section-specific question paper. The discussion about the percentile calculation is with the <i>Annexure 1</i> . The section-specific syllabus would be made available in combination with the list of the eligible candidates displayed at the website for appearing in the the admission process of the PhD program of the Institute. It was agreed for the section-specific growth within the

framework of the Department. This resolution stands for the Spring Semester PhD admission (AY 2021-22) of the Institute onwards.

About the sectional arrangement discussion within the Department can be found in the following: (1) Page number 7 of 27 of the Academic regulation for Doctoral Programmes, July 2019 onwards (ii) an example illustrating the meaning of the term 'section' in the resolution 10(5) of the 10th meeting of the Standing Executive Committee of the Senate (iii) Resolution 6(b), subitem 4 of the item 6 with annexure III of the 50th meeting of the Senate.



Dean (Academic)
Member-Secretary, IAAC



Director
Chairman, IAAC

About the percentile calculation

The definitions and interpretations of the percentile concept are many. Expanding the cases results in the revisit to the definition. Here we explain a definition of the percentile calculation.

Definition

Consider a data set of the scores of n elements arranged in the descending order. We wish to assign the percentile to a given element, whose score is contained in the data set. The percentile X of the given specific element implies that X percent of n elements lag behind with respect to the given specific element in the sense of the score.

Calculation of 35 percentile of a given element in a data set

The above definition suggests that $\frac{35n}{100}$ elements lag behind with respect to the given specific element in the sense of the score, where n is number of elements in the data set.

An example: The score of the specific candidate is 35 percentile.

Suppose 20 Aspirants appear in the PhD entrance set of the SVNIT in a specific question paper, then the term '35 percentile' implies the following.

Using the expression $\frac{35n}{100}$, 7 Aspirants lag behind with respect to a specific Aspirant in the sense of score in the specific question paper, where the total number of Aspirants appeared is 20 in the specific question paper. The score of the specific candidate is 35 percentile. The 35-percentile calculation is required in the written part for the PhD admission of the SVNIT.

For the non-integer case, rounding is applicable.