

Shri AillakPannalalDigamber Jain Pathashala's

WALCHAND INSTITUTE OF TECHNOLOGY

Seth Walchand Hirachand Marg, Ashok Chowk, Post Box No.634, SOLAPUR – 413006.

- Recognized by AICTE, New Delhi & permanently affiliated to **Punya shlok Ahilyadevi Holkar Solapur University, Solapur**
- Accredited & Re-accredited by **National Board of Accreditation, New Delhi.**
- Winner of **AICTE-CII Survey 2013, 2014 & 2018 Award for Best Industry-Linked Institute.**
Best College Award in Solapur University Jurisdiction (Urban) 2015

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IQAC-15
12/06/2021

ITEM NO. 1

Minutes of the last Meeting held on 07/02/2021

Minutes of the meeting held on 07-02-2021 were read and confirmed.

ITEM NO. 2

Teaching-Learning Process

2.1 Innovation in Teaching Learning

During the A.Y. 2020-21 following things are implemented

- 12 instructional strategies and 10 ICT tools are employed.
- 1184 videos are created by faculty members and uploaded on institute YouTube channel.

As on date total no of videos created are 3454, no of subscribers are 22993 and views are 3421803

2.2 Inculcating life-long learning through self-learning using Coordinated Student Development (CSD) model

During Semester-II, due to covid-19 NPTEL exam could not happen as per the schedule declared earlier. Also students were at their place. , Therefore students were not able to avail the benefit of credit transfer by completing NPTEL certification. .

- However 274 students have successfully completed various coursera courses.

- 908 students for 74 courses have registered for various MOOC offered by various international universities and industries on Edx platform
- 2484 students from FE to BE have registered for various courses on Infosys Springboard platform. Each department have assigned one faculty as a mentor for 20 students. Till date 253 students have completed the certifications. The total certifications of all registered students are likely to be completed in next three months. It is decided to monitor the student's completion through **Coordinated Student Development (CSD) model**

It is decided to continue to go for MOOC certifications through institute's one of the best practise namely 'Inculcating life-long learning through self-learning using Coordinated Student Development (CSD) model'.

2.3 Problem based/Project based learning (PBL)

To strengthen PBL, institute is making necessary efforts through alumni to make projects available which are of societal relevance and industry collaborated. Accordingly,

Following activities are scheduled in the month of June & July, 2021

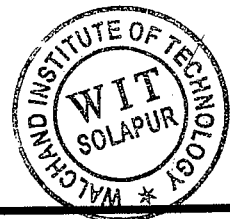
- WIT Hackathon software & hardware edition and programming contest
- National Level Technical festivals – WITchar & Acceleration
- As on date during the academic year, 21 industry collaborated projects are successfully completed by students.

2.4 Employability Enhancement & Skill Development

• Training

For employability enhancement of students

- The daily One hour training for employability enhancement of students were imparted. Nearly all Second to final year students were the beneficiaries.
- Nearly 475 students benefited from special training from industry certifications such as InfyTQ, various National Recruitment Test and various Hackathons ()
- Various competitions were organized to enhance soft skill, logical thinking, reasoning, programming skills etc. for employability enhancement.
- Nine guidance sessions are conducted by industry experts.



- Fourteen training sessions are conducted to enhance General Aptitude i.e. quantitative ability, Logical reasoning, and verbal ability.

- **Student Internship**

During A.Y. 2020-21, total 1548 internships are successfully completed by students out of them, 44 are with stipend. Out of 1548 no of internships, 1244 internships have been completed by students during semester-II,. For internships students' stipend is performance based which varies from Rs. 2000/- to Rs. 20000/- per month

Students shall be encouraged & facilitated to take internships especially with stipend & even concurrently with academics.

- **Skill Based Courses**

It is proposed to conduct following two skill based courses

- Innovative IOT Solutions Using Arduino and Raspberry Pi
- Innovations in Construction Planning through software applications- MS Project (MSP)

- **Placement**

Till date 58 companies visited campus for placement and students got 483 offers during A.Y. 2020-21 with maximum package of Rs. 10 lacs p.a.

It is decided to continue the training of students for employability enhancement and to become industry ready.

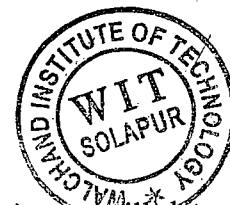
ITEM NO.3 Faculty and staff Development

As a part of strategic objective of the institute, department shall continuously update & execute comprehensive plan for the following key activities:

3.1 Faculty Qualification & Competency up gradation

During this year

- Nine faculty members have registered for award of Ph.D. degree
- As per policy regarding upgrading faculty competency, during this academic year, till date total 488 certifications are successfully completed by faculty members through 346



FDP/Workshop/STTP etc. and 142 through MOOC courses on various platforms like NPTEL, Coursera.

- 97 faculty members for 175 courses have registered for various MOOC offered by various international universities and industries on Edx platform

It is necessary that more faculty members be facilitated to register for Ph.D. The institute aims that most of the faculty members shall register & complete for award of Ph.D. degree. Facilitation in the form of equipment/instrument/ e-journals shall be provided to those faculties pursuing Ph.D. to complete their research work at the earliest

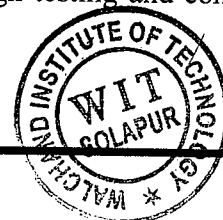
3.2 Research & Development activities

To improve research activities & increase quality publications a webinar on "Effective Utilization of E-Resources for Research Publication" was organised for faculty.

It is also planned to organise workshop on "Research Methodology- A practical approach for Engineers".

During A.Y. 2020-21 till date 03 research proposals are sanctioned

- The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have sanctioned a grant of US\$ 4000 for research entitled 'Design and performance evaluation of hybrid heat exchanger used in Thermal Energy Storage' to WIT Student Chapter ASHREA.
- AICTE have sanctioned a grant of Rs. 1 lac for SPICES-Scheme for Promoting Interests, Creativity and Ethics among Students.
- PAH Solapur University has sanctioned grant of Rs. 2 Lacs for Breakthrough research(Outstanding research) entitled 'Development of a solar based Thermal Energy Storage system using Phase Change Material (PCM) with reference to textile Industry' with PI Dr.B.B.Deshmukh of 2 years duration.
- During 20-21, Eighty Eight (88) quality research publications in various scopus indexed/Web of science/UGC care.
- This year faculty members have attended 44 conferences and financial support of Rs. 1,46,440/- is provided.
For more exposure, it is decided to continue financial support for attending the conferences.
- Till date total revenue of Rs. 16,81,018/- was generated through testing and consultancy in F.Y. 2020-21.



3.3 Awards

06 faculty members have submitted nominations for various ISTE awards (Individual category) for Maharashtra-Goa section.

More efforts are required to enhance quality research publications, research grants and consultancy work.

ITEM NO. 4

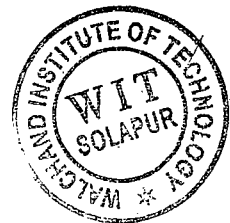
Innovations

Institute has constituted the 'Institute Innovation Cell (IIC)' as per the guidelines of AICTE with eminent industry experts as members and faculties from the institute. This IIC functions as apex body in guiding the Policy Implementation Committee towards promoting the culture for Start ups/ entrepreneurship, Intellectual Property Rights (IPR), technology licensing related attitudes among faculty and students. Dr. LMRJ Lobo as a Convener of IIC and other six faculty members attended training sessions conducted by AICTE.

Institute has prepared Innovation and Start-up Policy 2021, which will be a guideline for fostering entrepreneurship and nurturing tech start-ups with an objective 'To identify the best ideas from students, staff, faculty members and provide them infrastructure & facilities to incubate eventually in transforming into Start-up or entrepreneur Endeavour and to mentor the stakeholders in nearby region & to offer innovative solutions to their problems'.

To promote these initiatives following events are organised

- An awareness program on '**WIT Innovation and Start-up Policy**' was organised for all students & faculties.
- Webinar entitled "**Overview of Intellectual Property Rights in India**"
- National Level Hardware Hackathon-2021 and Software Hackathon-2021 is started. The final round is scheduled by June end.
- MATLAB Innovative Design & Simulation Contest
- Project competition



ITEM NO. 5**Extension Activities**

- An awareness program on Covid-19 Vaccination was organised.

It is proposed to conduct more activities on green initiatives, gender equity & voter awareness.

ITEM NO. 6**Facilities Enhancement**

Ten GMeet licences were procured for smooth conduction of all activities in online mode.

ITEM NO. 7**Quality Assurance initiatives****7.1 Feedback from stakeholders**

The findings of feedbacks received are used for overall improvement in curriculum design, T-L process, facilities and design & delivery of content beyond the syllabus.

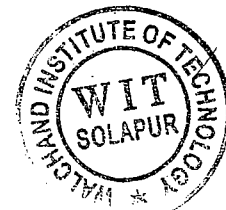
Based on feedback received from faculty, students & employers internet bandwidth has been increased from 260 mbps to 400 mbps.

Also comprehensive feedback from all stakeholders are continuously collected and analyzed for overall improvement.

7.2 Quality initiatives**7.2.1 Participation in various in evaluation surveys**

To ensure the quality to the various stakeholders, it is necessary that institute shall participate in various Govt. /non Govt. surveys to know the institute's relative position & accordingly an attempt to boost the confidence of stakeholders. Accordingly till date institute has participated in

- AICTE-CII Survey



- AICTE's 'Lilavati Award', for this we have submitted an application for two sub themes 'Women's Health' and 'Sanitation & Hygiene'.
- NIRF Ranking.
- Submitted nomination to ISTE for 'Best Institute Award' for Maharashtra-Goa Section.
- 'Clean & Smart Campus' Award.
- 'Atal Ranking of Institutes on Innovation Achievements'
- 'Best Engineering College' survey by India Today

7.2.2 Accreditation :

A. NAAC:

The AQAR of AY 2019-20 is submitted.

B. NBA:

The compliance reports of 4 UG programmes Civil Engg., Mechanical Engg., Electronics Engg., Electronics & Telecommunication Engg. are submitted to NBA. The visit of the extension of accreditation of above four programs is expected.

For the remaining two UG programmes namely Computer Sci. & Engineering & Information Technology, the visit is still awaited.

C. Autonomy

The UGC committee visited the institute for on spot inspection on 20-21 February 2021 for grant of **fresh** autonomous status. UGC committee decided to grant an autonomous status to WIT for the period of 10 years. Accordingly, UGC issued a letter requesting P.A.H. Solapur University, Solapur to issue necessary notification/order regarding the grant of autonomous status to the college as per UGC (Conferment of Autonomous Status upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018 for Autonomous Colleges.

The letter from P.A.H. Solapur University, Solapur regarding grant of autonomous status to the college is awaited.



7.2.3 Emerging/Multidisciplinary Area

As discussed in previous meetings, various nomenclatures in emerging/multidisciplinary areas were discussed and it is decided to change the nomenclature of following two courses

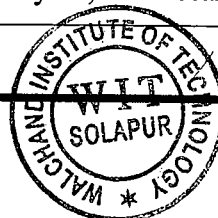
1. From Electronics Engineering to Electronics & Computer Engineering
2. Mechanical Engineering to Mechanical & Automation Engineering

Accordingly we have obtained NOC from PAH Solapur University, Solapur and these changes are applied to AICTE for approval.

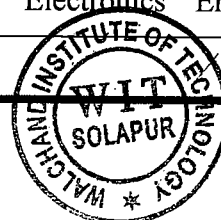
ITEM NO. 8 Strategic Management-Review of key activities

The various activities done during this year till date are reviewed. On the basis of the review of various key strategic activities, it is proposed that following areas needs attention for improvement.

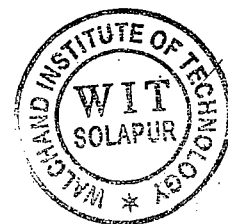
Sr. No.	Key Activity	Remark
1	Up gradation to Ph.D. qualification	This year till date 09 faculty members have registered for Ph.D.
2	Faculty Competency through FDP/Workshop	388 certifications are successfully completed by faculty members through 346 FDP/Workshop/STTP etc. 142 MOOC courses on various platforms like NPTEL, Coursera, Edx are completed by faculty members on various MOOC platforms. Faculty shall continue to upgrade their competency and by completing various FDP/Workshop/STTP.
3	Faculty members to prepare & submit a proposal for research grant	Two research proposals and one Spices proposal were sanctioned.
4	Quality Research Publication	• During this year, 88 research papers are



		published in various National, International Journals & Conferences by faculty members. Out of them 28 are scopus indexed.
5.	Employability Enhancement Training	<ul style="list-style-type: none"> ▪ The daily One hour training for employability enhancement of students were imparted. Nearly all Second to final year students were the beneficiaries. ▪ Nearly 475 students benefited from special training from industry certifications such as InfyTQ, various National Recruitment Test and various Hackathons () ▪ Various competitions were organized to enhance soft skill, logical thinking, reasoning, programming skills etc. for employability enhancement. ▪ Nine guidance sessions are conducted by industry experts. ▪ Fourteen training sessions are conducted to enhance General Aptitude i.e. quantitative ability, Logical reasoning, and verbal ability.
6	Creation of e-course content for blended T-L process	No. of videos, Views & subscribers are increasing. Now more focus shall be on quality content.
7	Courses in Emerging/Multidisciplinary Area	Applied to AICTE for Change in the nomenclature in Emerging/Multidisciplinary area of following two UG courses 1. From Electronics Engineering To

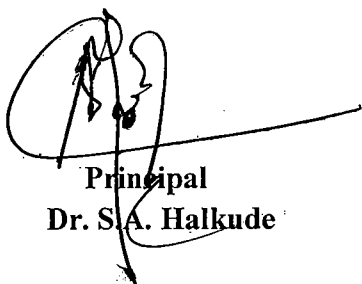


		<p>Electronics & Computer Engineering</p> <p>2. From Mechanical Engineering To Mechanical & Automation Engineering.</p>
9	Initiatives towards Innovations, Product Development, IPR and establishing Pre-incubation centre and Incubation Centre	<ul style="list-style-type: none"> ● Institute has constituted the 'Institute Innovation Cell (IIC) and prepared Innovation and Start-up Policy 2021. ● 05 activities were conducted to promote Innovation/Start-up/IPR.
10	Organization of various co-curricular & extracurricular activities	<ul style="list-style-type: none"> ● 49 various co-curricular activities such as workshop/webinars/competitions were organised ● Extension activities are carried out <p>These activities shall be continued.</p>
11	Collaborations	<p>As on date institute has 23 active MOUS with various organisations.</p> <p>As a part of these MOUs webinars, trainings are organised.</p>
12	Offerings of Skill based courses	<p>It is proposed to conduct following two skill based courses</p> <ol style="list-style-type: none"> 1. Innovative IOT Solutions Using Arduino and Raspberry Pi 2. Innovations in Construction Planning through software applications- MS Project (MSP)


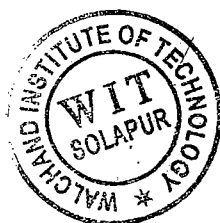


ITEM NO. 9**Any other subject with permission of the Chair.**

After considering the items and agenda, no other subject was discussed and the meeting concluded with a vote of thanks to the Chair.



Principal
Dr. S.A. Halkude



Co-ordinator
Dr. S.R. Gengaje



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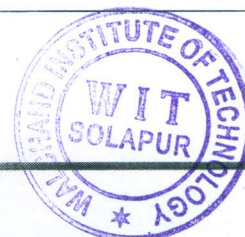
Internal Quality Assurance Cell Action taken Report on meeting held on 12-06-2021

Item on Agenda	Description	Action Taken
2.1	Innovation in Teaching Learning	<p>In the A.Y 2020-21</p> <ul style="list-style-type: none"> ● Innovations in Teaching-Learning process employing 12 instructional strategies & 10 ICT tools have improved student's learning. Outcome of these innovations is 06 research publications. ● 211 Learner Centric MOOCs created partially on institute MOODLE server. ● 1186 videos are created by faculty members and uploaded on institute YouTube channel. ● As on date Total number of videos uploaded is 3454. Number of subscribers are 24939 and Number of views are 3,775,484 for our YouTube channel.
2.2	Self Learning to inculcate Lifelong Learning and credit transfer	<p>During A.Y. 2020-21</p> <p>Total 4767 students' enrollments by 1251 students for 423 various courses through our NPTEL local chapter. Total 852 certifications are completed by students out of them 27 are the National Level Toppers from the institute</p> <ul style="list-style-type: none"> > Topper of 1%: 6 Nos. > Topper up to 2%: 12 Nos. > Topper up to 5%: 27 Nos. <ul style="list-style-type: none"> ● 791 students have successfully completed 1488 Coursera courses. ● 1682 students have successfully completed 2331 certifications on various MOOC courses offered on Edx platform. ● 2484 students from FE to BE have registered for various courses on Infosys Springboard platform. 265 students have completed the certifications.


2.3	Problem based/Project based learning (PBL)	During 2020-21 students have completed 21 industry collaborated projects.
2.4	To enhance Employability & Skill Development of students	<p>During the year 2020-21</p> <p>Training</p> <ul style="list-style-type: none"> ▪ The daily One hour training for employability enhancement of students was imparted. ▪ Nearly 475 students benefited from special training from industry certifications such as InfyTQ, various National Recruitment Test and various Hackathons ▪ Nine guidance sessions are conducted by industry experts. ▪ Fourteen training sessions are conducted to enhance General Aptitude i.e. Quantitative ability, Logical reasoning, verbal ability. <p>❖ Internship</p> <ul style="list-style-type: none"> ● Total 1548 internships are successfully completed by students out of them, 44 are with stipend. <p>❖ Placement</p> <p>Total 58 companies visited campus for placement and students got 483 offers with maximum package of Rs. 10 lacs p.a.</p>
3.1	Faculty Qualification & Competency up gradation	<ul style="list-style-type: none"> ● Three faculty members have been awarded Ph.D. degree ● Nine faculty members have registered for award of Ph.D. degree ● During this academic year, a total of 514 certifications were successfully completed by faculty members through 388 FDP/Workshop/STP etc. and 142 through MOOC courses on NPTEL, Coursera platforms. ● 112 faculty members completed 221 certifications on various MOOC offered on Edx platform.




3.2	Research & Development activities	<ul style="list-style-type: none"> ● A webinar on "Effective Utilization of E-Resources for Research Publication" ● A workshop on "Research Methodology- A practical approach for Engineers". was organised for faculty. ● During A.Y. 2020-21 <ul style="list-style-type: none"> ❖ Rs. 3 lacs & US\$400 was sanctioned through 03 research proposals ❖ Eighty Eight (88) quality research publications in various Scopus indexed/Web of science/UGC care. ❖ Two faculty members are awarded for 'Best Paper' in an international conference. ❖ Faculty members have attended 44 conferences and financial support of Rs. 1,46,440/- is provided. ❖ One faculty is recipient of IEI BLC-FCRIT Excellence Award for recognition of Research Excellence in Faculty (Regional) Category by Institute of Engineers (India) (IEI), Belapur Local chapter. ❖ Total revenue of Rs. 20,65,560/- was generated in F.Y. 2020-21 through testing and consultancy.
3.3	Awards	Institute is 'Winner' of AICTE's 'Lilavati Award' in the sub-theme 'Women Health' by presenting a unique intervention carried out under the overall theme "Women Empowerment" and received Rs. 1 lac.
4	Innovations	<ul style="list-style-type: none"> ● Institute has implemented Innovation and Start-up Policy 2021.
7.2.1	Participation in various evaluation surveys	<p>Till date institute has participated in</p> <ul style="list-style-type: none"> ● AICTE-CII Survey ● AICTE's 'Lilavati Award' ● NIRF Ranking. ● Submitted nomination to ISTE for 'Best Institute Award' for Maharashtra-Goa Section. ● 'Clean & Smart Campus' Award. ● 'Atal Ranking of Institutes on Innovation Achievements' ● 'Best Engineering College' survey by India Today



7.2.2	Accreditation	<p>A. NAAC: The AQAR of AY 2019-20 is submitted.</p> <p>B. NBA : The compliance reports of 4 UG programmes Civil Engg., Mechanical Engg., Electronics Engg., Electronics & Telecommunication Engg. are submitted to NBA.</p> <p>C. Autonomy GC & PAH Solapur University has conferred a fresh autonomous status for the period of 10 years from A.Y. 2021-22.</p>
7.2.3	Emerging/Multidisciplinary Area	<p>AICTE has approved the changes in the nomenclature of following two courses</p> <p>1. From Electronics Engineering To Electronics & Computer Engineering</p> <p>2. From Mechanical Engineering To Mechanical & Automation Engineering.</p>


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