Webinar 2: **ENHANCING RESEARCH EXCELLENCE**
For faculty members of University departments

**11TH FEBRUARY 2021**
MS TEAMS – “IQAC WEBINAR”

**RESOURCE PERSONS**

Prof. K. Baskar,  
Director-CTDT

Prof. K. P. Jaya,  
Director-CFR

Organized by

**INTERNAL QUALITY ASSURANCE CELL**
Ph: 22357027, email: iqac@annauniv.edu  
URL: www.annauniv.edu/iqac

**ANNA UNIVERSITY**
CHENNAI – 600025
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Report on the webinar titled “Enhancing Research Excellence” on 11.02.2021 from 3.30 PM to 5.30 PM, Organized by IQAC for all faculty members of Anna University.

The Internal Quality Assurance Cell organized Webinar-2 titled “Enhancing Research Excellence” on 11th Feb 2021 from 3.30 PM to 5.30 PM for the benefit of the faculty members of Anna University – University Departments. The invited speakers and their lecture topics are as follows:

Talk – I : Enhancing Footprint of Research and Professional Services  
Resource person : Prof. K.Baskar, Director - CTDT  
Time : 3:30PM – 4.15 PM

Talk – II : Enhancing quality of Research Publications  
Resource person : Prof. K.P.Jaya, Director - CFR  
Time : 4:30PM – 5.15 PM

Q&A Session : 5.15 – 5.30 PM

The speakers made Power Point Presentations during the webinar through online mode using MS TEAMS virtual platform. Around 164 faculty members from the four campuses (CEG, MIT, ACT and SAP) of Anna University attended the webinar.

Prof. Kurian Joseph, Director-IQAC welcomed the gathering and outlined the need for enhancing the research excellence in the institution, from the perspective of quality improvement, ranking and accreditation. He thanked the speakers for readily accepting the invitation to present the webinar. Prof. K.V. Radha, IQAC – ACT Campus coordinator and the coordinator for the Webinar introduced the speakers to the audience.
The first speaker Prof. K. Baskar made his presentation highlighting the following points:

- Value Framework
- Benefits of Accreditation
- Evaluation Framework
- Research, Innovation and Extension
- Performance Grants
- Role and Responsibilities of CTDT
- Awards given to faculty /students for Excellence in Research
- Range of institutional Cumulative Grade Point Average (CGPA)

The second speaker, Prof. K.P.Jaya made her presentation highlighting the following points:

- Research Paradigm
- Why to do Research & Why Should Do Research
- Prerequisite to do Research
- Rules of Conducting Research
- Deciding the Journal for Publishing
- Paper Structure
- Criteria for Acceptance
- Major reason for Rejection
- The act of plagiarism
- Funding Opportunities

Prof. K.V. Radha, IQAC - ACT Campus Coordinator cum Webinar Coordinator thanked the speakers for the highly relevant and informative sessions. She also expressed thanks on behalf of the IQAC team to the audience for their attentive and active participation in the webinar.

A Q&A session was conducted from 5.15 to 5.30 PM and the participants clarified their queries from the speakers. The Webinar concluded at 5.30 PM with the Director-IQAC thanking the speakers, IQAC team and the participants.
Screenshots taken during the interaction sessions
Internal Quality Assurance Cell  
Anna University, Chennai-600025.

Dr. Kurian Joseph,  
Director – IQAC

Lr. No. AU-IQAC/2020-21/202/IQAC Webinars-001  

Date:  1/02/2021

NOTE SUBMITTED TO THE VICE CHANCELLOR

Esteemed Professor,

Sub:  IQAC – Conduct of Webinar Series on Quality related topics – Approval requested – Reg.

As part of the quality sustenance and enhancement activities of IQAC, it is proposed to conduct a series of webinars, each of 1.5 hours duration, on every Thursday afternoon, starting with 4th February 2021, on various quality related topics for the benefit of all faculty members. The proposed Titles and Resource persons for the month of February 2021 are as follows:

<table>
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<tr>
<th>Sl. No.</th>
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<th>Title of the Webinar</th>
<th>Resource Persons</th>
<th>Coordinator</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>04.02.2021</td>
<td>ICT Resources and Tools for enhancing Teaching Learning Process.</td>
<td>1. Prof. K. Elavazhagan Librarian &amp; Chief Knowledge officer, IIM - Trichy</td>
<td>Dr. G. Balamurugan, IQAC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2. Dr. G. Krishnamoorthy, University Librarian (Retired) and Consultant, AU Library</td>
<td>MIT Campus Coordinator</td>
</tr>
<tr>
<td>2</td>
<td>11.02.2021</td>
<td>1. Research, Consultancy, and Extension activities in the NAAC accreditation of HEIs</td>
<td>1. Prof. K. Bhaskar Director-CTDT</td>
<td>Dr. K.V. Radha IQAC ACT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Skill of writing Research article</td>
<td>2. Prof. K.P. Jaya, Director-Research</td>
<td>Campus Coordinator</td>
</tr>
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<td>3</td>
<td>18.02.2021</td>
<td>Strengthening Student Support activities</td>
<td>Prof. S. Ganesan Director -Health Centre</td>
<td>Mrs. R. Rajeswari IQAC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SAP Campus coordinator</td>
</tr>
<tr>
<td>4</td>
<td>25.02.2021</td>
<td>Documentation requirements for Quality Assurance</td>
<td>Prof. T. Thyagarajan Dean-MIT &amp; Former Director-IQAC.</td>
<td>Dr. Sabitha Ramakrishnan, Deputy Director - IQAC</td>
</tr>
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</table>

Duration of the webinar : 3.30 PM to 5.00 PM (1.5 hours), every Thursday  
Webinar platform : MS Teams "IQAC Webinar"  
Target audience : All faculty members of University Depts.

It is requested that approval may please be granted to conduct the webinars as per the above schedule and pay an honorarium of Rs.1500 per session for the Resource Person invited from other institution (Prof. K. Elavazhagan Librarian & Chief Knowledge officer, IIM – Trichy).

DIRECTOR, IQAC  
REGISTRAR

APPROVED / NOT-APPROVED

VICE CHANCELLOR
LR. No. AU-IQAC/11547/Webinar/2021

Date: 09.02.2021

CIRCULAR

To

Deans of Campuses
Directors of Academic Centres
HODs of Departments

Sub: Webinar series titled “Enhancing Research Excellence” on 11.02.2021 from 3.30-4.30 PM for all faculty members of Anna University – Reg.

Ref: LR. No. AU-IQAC/2020-21/2020/IQAC Webinars-001 dated 01.02.2021 approved by Vice Chancellor

*****

As part of the quality sustenance activities of IQAC, webinar series – The following talks are being organized by IQAC for the benefit of all the faculty members as per the following details:

Talk - I
Resource person: Prof. K. Baskar, Director, CTDT- Anna University Chennai
Date and Time: 11.02.2021 (Thursday), 3:30PM – 4.00PM

Talk - II
Resource person: Prof. K. P. Jaya, Director, CFR- Anna University Chennai
Date and Time: 11.02.2021 (Thursday), 4:00PM – 4.30PM

Online platform: MS TEAMS - “IQAC Webinar”

All faculty members have been included in the MS Teams group “IQAC Webinar”. The faculty members are requested to join the webinar through this group, without fail and get benefitted from the lecture.

CC:
1. Director-CTDT, Director-CFR
2. Director-IQAC, IQAC-Coordinators of the programme
3. PA to Registrar.
4. PS to VC.
Title of Webinar : Enhancing Research Excellence  
Resource Person : Prof.K.BASKAR, Director- CTDT, Prof.K.P.JAYA, Director-CFR  
Date of Webinar : 11th February 2021

**Programme Schedule**

<table>
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<th>Time</th>
<th>Content</th>
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<tbody>
<tr>
<td>3.15PM - 3.30PM</td>
<td>Registration</td>
</tr>
</tbody>
</table>
| 3.30PM - 3.32PM  | Welcome Address  
Dr.Kurian Joseph  
IQAC Director, Anna University |
| 3.32PM - 3.34PM  | Introduction of Speaker  
Prof.K.V.Radha  
IQAC ACT Campus Coordinator, Anna University |
| 3.34PM - 4.00PM  | Session-1 by Speaker  
Topic “Research, Consultancy, and Extension activities in the NAAC accreditation of Higher Education Institutions”  
Prof.K.Baskar, Director-CTDT  
Anna University, Chennai |
| 4.00PM - 4.25PM  | Session-2 by Speaker  
Topic “Enhancing the quality of Research Publications”  
Prof.K.P.Jaya, Director - CFR  
Anna University, Chennai |
| 4.25PM - 4.29PM  | Question and Answer Session                                             |
| 4.29PM - 4.30PM  | Vote of Thanks  
Prof.K.V.Radha  
IQAC ACT Campus Coordinator, Anna University |
PROFILE OF RESOURCE PERSON

SESSION-I

NAME OF THE RESOURCE PERSON : PROF.K.BASKAR

DESIGNATION   : DIRECTOR, CTDT

QUALIFICATION    : DOCTOR OF PHILOSOPHY

EXPERIENCE

<table>
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<tr>
<th>Year</th>
<th>Designation</th>
</tr>
</thead>
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<tr>
<td>2019-Present</td>
<td>Director, Centre for Technology Development and Transfer</td>
</tr>
<tr>
<td>2016–2019</td>
<td>Vice Chancellor, Manonmaniam Sundaranar University</td>
</tr>
<tr>
<td>2012-2016</td>
<td>Director, Crystal Growth Centre (UGC-National facility)</td>
</tr>
<tr>
<td>2008-2012</td>
<td>Director, Centre for International Affairs</td>
</tr>
</tbody>
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HONORS AND AWARDS

<table>
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<tr>
<th>Year</th>
<th>Award Details</th>
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<tbody>
<tr>
<td>2011</td>
<td>Active Researcher award, Anna University-Chennai,</td>
</tr>
<tr>
<td>2001</td>
<td>“Docent”- Royal Institute of Technology (KTH) in Stockholm, Sweden</td>
</tr>
<tr>
<td>1989</td>
<td>Youngsters attractive research paper award (1,40,000 Yen) from Japan</td>
</tr>
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TOPIC HANDLED IN WEBINAR : ENHANCING FOOTPRINT OF RESEARCH & PROFESSIONAL SERVICES

DATE AND TIME OF SESSION : 11th February 2021, 03.30PM to 04.00PM
Subject: Invitation as Resource Person for IQAC Webinar on 11th February-2021 at 03.30PM-Reg.

From: <iqac@annauniv.edu>
To: Baskar <baskar@annauniv.edu>, CTDT 1 <dirctdt@annauniv.edu>, CTDT 3 <directorctdt@gmail.com>, Ctdt <ctdt@annauniv.edu>
Cc: IQAC ACT <radha@annauniv.edu>, IQAC 3 (Director) <kuttiani@gmail.com>, IQAC 4 (DD 2) <sabitha.ramakrishnan@gmail.com>, Diriqac <diriqac@annauniv.edu>
Date: 2021/02/08 16:51

Kind attention:

Prof. Dr. K. Bhaskar,
Director-Centre for Technology Development and Transfer,
Anna University,
Chennai- 600 025.

Dear Professor,

The Internal Quality Assurance Cell (IQAC) of Anna University conducts various activities to enhance the quality of teaching and learning of faculty members in our campus. As a part of it, IQAC is conducting a webinar on 11.02.2021 (Thursday) with focus on "Enhancing Research Excellence".

In this context, may I cordially invite you to be a Resource Person for the Webinar session and deliver a talk on the title "Enhancing footprint of Research and Professional Services" on 11th February 2021 through online mode (MS Teams platform) for a duration of 30 minutes (3:30pm to 4:00pm). The participants of Anna University faculty members will benefit a lot from your lecture.

The session will be organized Online in MS Teams Platform under the Team "IQAC Webinar" in which you are already included as a member.
We are looking for a positive response and gracious presence .

Thanking you and with regards,

--

Thanks and Regards
Prof. Dr. Kurian Joseph
Director-IQAC
Anna University, Chennai,
Tamil Nadu-600025.
Webinar Handouts:

IQAC-Lecture Series
Enhancing Research Excellence -
Footprint of Research and Professional Services

Prof. K. BASKAR
Director
Centre for Technology Development and Transfer (CTDT)
Anna University, Chennai 600025, INDIA
E-mail: directorctdt@annauniv.edu, directorctdt@gmail.com
Website: http://ctdt.annauniv.edu/

VALUE FRAMEWORK
To promote the core values among the HEIs of the country:

• Contributing to National Development
• Fostering Global Competencies among Students
• Inculcating a Value System among Students
• Promoting the Use of Technology
• Quest for Excellence
  (Possible only through high quality Research)
Benefits of Accreditation

- Institution to know its strengths, weaknesses, and opportunities through an informed review process
- Identification of internal areas of planning and resource allocation
- Collegiality on the campus
- Funding agencies look for objective data for performance funding
- Institutions to initiate innovative and modern methods of pedagogy
- New sense of direction and identity for institutions
- The society look for reliable information on quality education offered
- Employers look for reliable information on the quality of education offered to the prospective recruits
- Intra and inter-institutional interactions

Evaluation Framework

<table>
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<th>Affiliated/ Constituent College</th>
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<td>Curricular Aspects</td>
<td>150</td>
<td>150</td>
<td>100 (UG) 100 (PG)</td>
</tr>
<tr>
<td>II</td>
<td>Teaching-learning and Evaluation</td>
<td>200</td>
<td>300</td>
<td>350 (UG) 350 (PG)</td>
</tr>
<tr>
<td>III</td>
<td>Research, Innovations and Extension</td>
<td>250</td>
<td>150</td>
<td>110 (UG) 120 (PG)</td>
</tr>
<tr>
<td>IV</td>
<td>Infrastructure and Learning Resources</td>
<td>100</td>
<td>100</td>
<td>100 (UG) 100 (PG)</td>
</tr>
<tr>
<td>V</td>
<td>Student Support and Progression</td>
<td>100</td>
<td>100</td>
<td>140 (UG) 130 (PG)</td>
</tr>
<tr>
<td>VI</td>
<td>Governance, Leadership and Management</td>
<td>100</td>
<td>100</td>
<td>100 (UG) 100 (PG)</td>
</tr>
<tr>
<td>VII</td>
<td>Institutional values and Best Practices</td>
<td>100</td>
<td>100</td>
<td>100 (UG) 100 (PG)</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1000</td>
<td>1000</td>
<td>1000 1000</td>
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### CRITERIA-3

**RESEARCH, INNOVATION AND EXTENSION**

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<th>Key Aspects</th>
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<th>Affiliated/Colleges (UG)</th>
<th>Affiliated/Colleges (PG)</th>
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<td>NA</td>
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<td>3.2 Resource Mobilization for Research</td>
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<td>3.3 Innovation Ecosystem</td>
<td>30</td>
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<td>3.4 Research Publications and Awards</td>
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<td>20</td>
<td>15</td>
<td>15</td>
</tr>
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<td>3.5 Consultancy</td>
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<td>10</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>3.6 Extension Activities</td>
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<td>3.7 Collaboration</td>
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<td>20</td>
<td>20</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>250</strong></td>
<td><strong>150</strong></td>
<td><strong>110</strong></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>
Criteria 3 – Research, Innovation and Extension (250, 150, 110, 120)

KA 3.1(U) Promotion of Research and Facilities (20,20,NA, NA)

- Provision for research facilities in terms of laboratory equipment, research journals, seed money and research incentives are made available to the faculty.
- The institution encourages and promotes research culture.
- Faculty are given due recognition and incentives for guiding research.

- The institution is acclaimed for its research as evidenced by metrics such as Citation Index, Impact Factor, h-index, SNIP (Source Normalized Impact per Paper), SJR (SCImago Journal Rank), etc.
- The institution has an Official Code of Ethics to check malpractices and plagiarism in research.

KA 3.2 Resource mobilization for Research (20,10,15,15)

- The faculty are encouraged to undertake interdepartmental /inter-disciplinary research by collaborating with other research organizations/industry.
- The institution takes special efforts to encourage the faculty to submit projects to various Govt and other funding agencies and to file patents.
- Incentives are given to the faculty for receiving state, national and international recognition for research contributions.
- A significant number of research articles are published in reputed/refereed journals.
- The institution has published books and proceedings based on research work of its faculty.
KA 3.3 Innovation Ecosystem (30,20,NA, 10)

- The institution to create an ecosystem for innovation including incubation centre and other initiatives for creation and transfer of knowledge.

- The institution conducts workshops/seminars on Intellectual Property Rights(IPR) and Industry-Academia Innovative practises.

- Awards for innovation won by the teachers, students and research scholars are commended by the institution.

KA 3.4 Research publications and awards (100, 30,15, 25)

- Quality research is beneficial for the discipline, society, industry , region and nation.

- Research is an evolving feature reflecting in their doctoral, post-doctoral projects and innovation and discoveries.

- Research outcome is judged by the number of patents obtained and number of research publications of the institution.

- Findings of research through various media enhances quality of teaching and learning.
**KA 3.5 Consultancy (20,10,NA, NA)**

- The institution publicizes the expertise available for consultancy services.
- The institution has an official policy for structured consultancy.
- Consultancy shows the credibility of the faculty/institution’s research quality to the outside world.
- The finance generated through consultancy are fairly utilized by the institution.

**KA 3.6 Extension Activities (40,50,60)**

- The institution has a mechanism to track the students involvement in various social movements / activities which promote citizenship roles.
- Extension also is the aspect of education which emphasizes community services.
- **The curriculum/research – extension interface as an educational value, especially in rural India.**
- Need-based extension programs like NSS/NCC, YRC are encouraged by the institution.
KA 3.7 Collaboration (20, 20, 20, 20)

- The institution has linkages for various activities such as faculty exchange, student placement, etc. that enhance its academic profile.

- The range of collaboration includes training, student exchange, faculty exchange, research, and resource sharing.

- The institution has MoUs/MOAs with institutions of national/International importance/other universities/industries/corporate houses etc.

- Collaboration helps academic/research activities in the institution in a more realistic perspective and expand the scope of learning experiences to students.

Performance Grants

"Promotion of University Research and Scientific Excellence (DST-PURSE)-2020"

The quantum of support and minimum eligibility conditions is organized into three categories. The broad objective in each case is to support potentially high impact, interdisciplinary research (both basic and applied) aligned to national priorities and missions. The research should also align well with the goals of Self-Reliant India (Atma Nirbhar Bharat) and Start-up India etc. Where possible, the proposed research should also be geared towards increased national competencies in fields like manufacturing, waste processing, clean energy and water and other similar national priorities.

Screening Criteria: For screening proposals, minimum essential requirements like NIRF, H-index, and I10 of the University shall be considered. The proposals will be evaluated by considering the number of papers, quality of papers, patents, and research projects and overall research merit. Based on the funds availability, 3-6 new universities will be supported.

Criterion for Selection: The proposal received will be evaluated by the Programme Management Board. Parameters of Excellence e.g., H factor with I10 indices will be considered along with the score of NIRF ranking and the number of patents to select the University. The Proposal will be selected based on the relevance of thrust areas of Research, requirement of facilities, expertise available etc. The selection process will be through a peer review mechanism and visit to the Universities, if necessary. Programme Management Board of Experts will assist DST in making the final selection.
Role and Responsibilities of CTDT

- CTDT is entrusted with the responsibility of promoting technology development through funded projects, consultancy, testing and training and with a role of protecting the developed technologies/products/research findings.

- CTDT also has the responsibility of commercializing developed technologies through business incubation and entrepreneurship development.

Technology Development

Research promotional Activities

- Awareness creation
- Organizing and conducting interactive programmes/meetings with industries and R&D establishments
- Motivating Faculty/Researchers/Students through awards, incentives, etc.
- Show casing Technologies / Research findings
- Using the Consultants as brand Ambassadors
- Publication of technical write- ups on R&D activities
- Organizing visits both to the industry and by industry
- Conducting appreciation programmes on state of the art technologies for specific sectors

Research Support Activities

- Information dissemination about call for proposals
- Mentoring and initiate new sponsored and consultancy projects
- Aiding the Researchers to identify the right funding agency
- Tracking the status of submitted proposals
- Assisting the individuals to understand the procedures
Technology Transfer

Promotional Activities
a. Create awareness among Faculty / Research Scholars / Students about industry sector based needs and Technology Transfer.

b. Conducting of regular educational programs about commercialization of research.

c. To promote Intellectual Property awareness among students, faculties through streamlined awareness campaigns.

d. To organize short-term Intellectual Property modules, seminars, workshops and conferences.

e. Awareness creation on Entrepreneurship Development among faculty, Research Scholar and students through seminars, workshops, interactive training programme etc.

Support Activities
a. Identifying suitable industry for Technology Transfer.

b. Supporting proper test bed for evaluating the technologies.

c. Directing individual to relevant experts in the industry.

d. Help in distinguishing type of intellectual property one may have invented or produced.

e. Helping Faculty to file for IP protection.

f. Provide legal opinion.

g. Mentoring Academicians, Researchers, Students and Entrepreneurs for filing Patents and Trademarks in an effective manner.

h. Protect Intellectual creations generated by Faculty/ Students and Research Scholars through streamlined approach in Patent filling.

i. Provide consultancy services towards enterprising skill development.

j. To develop a methodology to monitor the present level of technology and its future development.

k. Providing facilities like Venture labs.

l. Providing business advisory services.

m. Identifying individual / organization / industry who need help.

n. Framework for commercialization.

o. Providing business development services and resources.

AWARDS given to faculty/students for Excellence in Research every year

1. Distinguished Researcher Award - To recognize the eminent researchers in Anna University for their excellent research, innovation and publication. (Rs. 25,000/-)

2. Active Consultant Award - To recognize the faculty who is bringing maximum amount towards consultancy based on their technical skills and ability and celebrate how industry clients and consultants work together to achieve the best results. We cover all the departmental areas, ranging from engineering to technology and management to architecture, putting consultants in the spotlight and focusing on their individual attributes and skills. (Rs. 25,000/-)

3. Innovation Award - To recognize the innovation of individual / team towards the implementation of technologies through their design and development of a product / process / technique and practices which is yet to reach the customer, but has the potential opportunity for societal application with economic feasibility to commercial / socio-economic benefit. (Rs. 50,000/- each in a team)

4. Technology Transfer Award - To recognize successful design and / or development of product / process that has been transferred to the industry / client / user and is utilized by Industry / society. (Rs. 75,000/- each in a team)

5. Research Excellence Award - The faculty members of Anna University were honoured for having published more than 100 publications in the Scopus Indexed high impact factor journals.

6. Student Innovative Projects - Under Research Support Scheme (RSS) of CTDI, the pre final year UG and PG students of Anna University are funded with a maximum of Rs. 25,000/- for the innovative projects.

7. Best Student Innovative Project Award – The best Student Innovative Project teams are awarded with cash prize of Rs. 10,000/- (First prize), Rs. 7,500/- (Second prize), Rs. 5,000/- (Third prize).

8. Best Exhibitor Award – During the Technology Exhibition, the best exhibitors are awarded for displaying their innovations with Rs. 50,000/- (First prize), Rs. 30,000/- (Second prize), Rs. 20,000/- (Third prize) and Rs. 10,000/- (Special prize)
<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Title</th>
<th>Total Funded (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Department A</td>
<td>Research Project 1</td>
<td>100,000</td>
</tr>
<tr>
<td>2</td>
<td>Department B</td>
<td>Research Project 2</td>
<td>150,000</td>
</tr>
<tr>
<td>3</td>
<td>Department C</td>
<td>Research Project 3</td>
<td>200,000</td>
</tr>
</tbody>
</table>

**Announcement**

The Centre for Technology Development and Transfer (CTDT) has announced a call for research proposals. The university encourages and supports research projects and requires them to be submitted by the end of March. The proposals should be submitted through the university's online portal. University members are encouraged to engage in research and contribute to the development of the institution.

*Note:* The images show the official announcement and guidelines for the research project proposal. The document outlines the criteria for selecting research projects, the deadlines, and the requirements for submission. For detailed information, please refer to the official announcement.

---

**ANNAUNIVERSITY**

Circular No. IN/18/1/09/2015

Date: 15.04.2015

Subject: Research Projects - Non-Plan and Plan Projects

The Vice-Chancellor's approval dated 15.04.2015.

I am hereby informed you that the following guidelines have been established to ensure a proper process of selecting proposals and to receive grants from various funding agencies.

1. **Grants from the University:**
   - **Anu-University Sponsored Research Projects:**
   - **Non-Plan Projects:**
   - **Plan Projects:**

2. **Grants from the National Board for Higher Education (NBHE):**
   - **Research Grants:**
   - **Plan and Non-Plan Grants:**

3. **Grants from the Indian Council of Medical Research (ICMR):**

4. **Grants from the Department of Science and Technology (DST):**

5. **Grants from the Ministry of Human Resource Development (MHRD):**

6. **Grants from the Indian Council of Agricultural Research (ICAR):**

To receive grants from the above-mentioned agencies, the proposals must be submitted through the university's online portal. The guidelines for submission have been updated to ensure transparency and fairness in the selection process. Please refer to the university's website for detailed information.

*Note:* The images provide a historical document regarding research projects and guidelines for submission. For detailed information, please refer to the official circular and guidelines.
Projects

<table>
<thead>
<tr>
<th>Description</th>
<th>Percentage</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project cost</td>
<td>100%</td>
<td>Rs. 1,00,000/-</td>
</tr>
<tr>
<td>Overheads</td>
<td>15% of the project cost</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>Total Cost</td>
<td>100% plus 15%</td>
<td>Rs. 1,15,000/-</td>
</tr>
</tbody>
</table>

15% of overhead shall be distributed as given below:

- 5% to be transferred to Registrar, Anna University
- 4% to be transferred to the respective Head of Department / Director of Autonomous Centre.
- 2% to be transferred to the PDF account of PI.

In cases where there are 2 or more PIs / Co-PIs from Anna University, the amount to be shared equally among the PIs / Co-PIs and deposited in their respective PDF a/c maintained at CTDT.

- 4% to be retained at CTDT

While submitting the project proposals to various funding agencies, the overhead charges of 15% is to be included in the total project cost and also one Co-Principal Investigator should be from Anna University. However, overhead cost shall be deducted as per the norms of the funding agency.

Once in a six months, the Principal Investigator should send the progress report of the Research project along with the expenditure details to CTDT.

Consultancy

On the total consultancy amount after deducting the respective taxes, as applicable, the following distribution will be made.

i. Anna University - 7.5%

ii. Dept / Centre Overheads - 7.5%

iii. CTDT Overheads - 15%

(Of which 10% to be kept for the support of R&D)

iv. Consultant remuneration,
Including all expenditure - 70% (GST ??)

(budget for remuneration and other expenditure should be clearly given)
**Retainer Consultancy**

1. Can provide advisory services, without using the facilities at the University, either at the place of the client or in the University.

2. Duration of the assignment can be for specific periods of three months, six months or one year, as per the needs of the client, with the periodical visits restricted to half a day or one day in a week.

3. Consultancy charges shall not be less than Rs 10,000/- per day plus taxes, as applicable.

4. Travel, local conveyance and hospitality expenses to be borne by the client.

5. For visits to the client’s place, the consultant can avail eligible Special Casual Leave.

Of the total consultancy amount available after deducting the applicable service tax, the following distribution will be made.

i. Anna University - 15%
ii. Dept / Centre Overheads - 15%
iii. CTDT Overheads - 15% (Of which 10% to be kept for the support of R&D)
iv. Consultants remuneration, including all expenditure - 55%

---

**Testing**

On the total testing amount after deducting the applicable tax, the following distribution will be made.

i. Anna University - 30%
ii. CTDT Overheads - 20%
iii. Testing equipment maintenance (Department / Centre) - 50%

(Old norms)

i. Anna University - 25%
ii. CTDT Overheads - 20%
iii. Dept / Centre maintenance - 25%
iv. Payment of remuneration to Dept. faculty and staff involved - 30%

---

**Training**

The norms for utilization of the income from training programs shall be as follows:

i. Anna University - 10%
ii. CTDT Overheads - 10%
iii. Department / Centre - 10%
iv. Coordinator for the conduct of the program - 70%

Accounts will be settled with CTDT in case the program is conducted at Dept’s or by the autonomous Centre’s.


**Technology Transfer**

The University encourages transfer of know how or marketing rights of products/processes developed by the faculty. In all such cases Memorandum of Understanding has to be signed with the client to whom the technology or the marketing rights are being transferred. The proceeds from such operations shall be shared on a 20:20:60 basis as per IPR policy for sharing revenues by the University, CTD and the faculty.

**Amendment 16: Inserted as approved by the Vice-Chancellor’s approval dated 13.01.2020**

To encourage and assist the faculty members for the transfer of technologies developed by them, a committee can be constituted by the Vice-Chancellor to deal with the Industry. The Committee may also recommend the appropriate MOU between Industry and Anna University, which can be placed for the due approval of the Vice-Chancellor after the clearance from the Legal Cell of Anna University so that the MOU shall be placed in the Syndicate for the approval of the transfer of Technology on exclusive basis. In the case of non-exclusive transfer of technology MoA shall be signed by the Registrar with the approval of Vice-Chancellor and shall report to Syndicate for information.

The Technology Transfer committee should have the following members:

1. Inventor - Member
2. HOD / Director of the Dept. / Centre - Member
3. Expert Member within the University - Member
   (to be nominated by the Vice-Chancellor – Prof Meenakshisundaram-Biotech/ACT)
4. Expert Member from other Institutions / Industry - Member
   (to be nominated by the Vice-Chancellor – Prof Ravindra Gettu-IT Madras)
5. Director - CTDT - Chairman & Convener

---

**Peer Team Report on Institutional Re-accreditation of Anna University Chennai - Tamil Nadu**

**13th - 16th Jul, 2014**

**National Assessment and Accreditation Council**

**New Model Report on Institutional Re-accreditation of Anna University, Chennai - Tamil Nadu**
Section IV: Recommendations for Quality Enhancement of the University

- Perspective plan for the next five years incorporating inputs of all the stakeholders may be prepared. Infrastructure for newly established centres / departments may be created on priority basis.
- Number of vacancies in faculty and non-teaching staff to various departments may be filled up and adequate number of permanent faculty positions need to be created.
- Industry-University and Consultancy services and technology transfer be strengthened.
- Finishing school concept may be introduced to promote placement and to enhance employability skills.
- Prevention of Sexual Harassment Cell may be established as per law.
- A full-fledged IQAC be established centrally as well as at departmental. Outreach activities need to be strengthened.
- Bar Coding system be introduced for evaluation in Examination Section.
- Financial autonomy may be strengthened further and accrual based double entry accounting system be introduced.
- Service conditions of non-teaching staff may be reviewed.
- Anti-ragging posters should be effectively displaced at all prominent places. Purchase process should be accelerated.

Date: 26th July, 2014
Peer Team Report on Institutional Re-accreditation of Anna University, Chennai, Tamil Nada, 600025
Place: Chennai

Range of institutional Cumulative Grade Point Average (CGPA)

<table>
<thead>
<tr>
<th>CGPA</th>
<th>Letter Grade</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>3.76 - 4.00</td>
<td>A++</td>
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<tr>
<td>3.51 - 3.75</td>
<td>A+</td>
<td>Accredited</td>
</tr>
<tr>
<td>3.01 - 3.50</td>
<td>A</td>
<td>Accredited</td>
</tr>
<tr>
<td>2.76 - 3.00</td>
<td>B++</td>
<td>Accredited</td>
</tr>
<tr>
<td>2.51 - 2.75</td>
<td>B+</td>
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</tr>
<tr>
<td>2.01 - 2.50</td>
<td>B</td>
<td>Accredited</td>
</tr>
<tr>
<td>1.51 - 2.00</td>
<td>C</td>
<td>Accredited</td>
</tr>
<tr>
<td>≤ 1.50</td>
<td>D</td>
<td>Not Accredited</td>
</tr>
</tbody>
</table>

With Effect From July 2017
Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution; ….

-Will A. Foster
Screenshots taken during the webinar

Registration on IQAC Webinar 2

Welcome Address by Prof. Kurian Joseph, Director-IQAC
Session 1: Presentation by Prof. K. Baskar, Director - CTDT

IQAC-Lecture Series
Enhancing Research Excellence
Footprint of Research and Professional Services

Role and Responsibilities of CTDT

CTDT is entrusted with the responsibility of promoting technology development through funded projects, consultancy, testing and training and with a role of protecting the developed technologies/products/research findings.

CTDT also has the responsibility of commercializing developed technologies through business incubation and entrepreneurship development.

Consultancy
On the total consultancy amount after deducting the respective taxes, as applicable, the following distribution will be made:

1. Anna University - 7.5%
2. Dept. Centre Overheads - 7.5%
3. CTDT Overheads - 15%

(Out of which 10% is to be kept for the support of R&D)
4. Consultant remuneration, including all expenditure - 75% (GST 7%)

Thank You
PROFILE OF RESOURCE PERSON

SESSION-II

NAME OF THE RESOURCE PERSON: PROF. K. P. JAYA

DESIGNATION: DIRECTOR, CENTRE FOR RESEARCH

QUALIFICATION: DOCTOR OF PHILOSOPHY

EXPERIENCE

<table>
<thead>
<tr>
<th>Year</th>
<th>Designation</th>
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<tbody>
<tr>
<td>2009-Present</td>
<td>Professor, College of Engineering Guindy, Anna University, Chennai</td>
</tr>
<tr>
<td>2006-2009</td>
<td>Associate Professor, College of Engineering Guindy, Anna University, Chennai</td>
</tr>
<tr>
<td>2003-2006</td>
<td>Assistant Professor, College of Engineering Guindy, Anna University, Chennai</td>
</tr>
<tr>
<td>2002-2003</td>
<td>Assistant Professor, SRM Institute of Science and Technology, Chennai</td>
</tr>
<tr>
<td>2001-2002</td>
<td>Senior Project Officer, Structural Engineering Division, IIT Madras</td>
</tr>
<tr>
<td>2000-2001</td>
<td>Fellow Scientist, Structural Engineering Research Centre, Madras</td>
</tr>
</tbody>
</table>

HONORS AND AWARDS

<table>
<thead>
<tr>
<th>Year</th>
<th>Award Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>Special Award for Best Performance in the year 2016 from ICI Head Quarters</td>
</tr>
<tr>
<td>2014</td>
<td>Active Consultant Award, Received from Dr. A. P. J. Abdul Kalam.</td>
</tr>
</tbody>
</table>

TOPIC HANDLED IN WEBINAR: ENHANCING QUALITY OF RESEARCH PUBLICATIONS

DATE AND TIME OF SESSION: 11th February 2021, 04.00PM to 04.30PM
Subject: Invitation as Resource Person for IQAC Webinar on 11th February-2021 at 04.00PM-Reg.

From: iqac@annauniv.edu
To: jayakp@annauniv.edu, RESEARCH 3, cfr.annauniv@gmail.com, RESEARCH, dirresearch@annauniv.edu
Cc: IQAC ACT, radha@annauniv.edu, IQAC 3 (Director), kuttiani@gmail.com, IQAC 4 (DD 2), sabitha.ramakrishnan@gmail.com, Diriqac, diriqac@annauniv.edu

Date: 2021/02/08 16:54

Kind attention:

Prof. Dr. K.P. Jaya,
Director-Centre for Research,
Anna University,
Chennai-600 025.

Dear Professor,

The Internal Quality Assurance Cell (IQAC) of Anna University conducts various activities to enhance the quality of teaching and learning of faculty members in our campus. As a part of it, IQAC is conducting a webinar on 11.02.2021 (Thursday) with focus on "Enhancing Research Excellence".

In this context, may I cordially invite you to be a Resource Person for the Webinar session and deliver a talk on the title "Enhancing quality of Research Publications" on 11th February 2021 through online mode (MS Teams platform) for a duration of 30 minutes (4:00pm to 4:30pm). The participants of Anna University faculty members will benefit a lot from your lecture.

The session will be organized Online in MS Teams Platform under the Team "IQAC Webinar" in which you are already included as a member. We are looking for a positive response and gracious presence.

Thanking you and with regards,

--

Thanks and Regards
Prof. Dr. Kurian Joseph
Director-IQAC
Anna University, Chennai,
Tamil Nadu-600025.

[Signature]

Received [Signature]

https://mail.annauniv.edu/?_task=mail&_safe=0&uid=977&mbox=Sent&_action=print&_extwin=1
Webinar handouts

IQAC - LECTURE SERIES

11th February 2021

ENHANCING QUALITY OF RESEARCH PUBLICATIONS

Dr. K. P. Jaya
Director, Centre for Research
Anna University

RESEARCH PARADIGM

Dream
Discovery
Design
Delivery
Publication

Creativity is the fundamental attribute of science, which is driven by curiosity.
WHY TO DO RESEARCH?

- In academic & research circles, often it is a basic requirement for better prospects.
- Develops an analytical frame of mind.
- Increases the confidence of a teacher.
- Develops the ability to clearly articulate your ideas.

WHO SHOULD DO RESEARCH?

- Those who enjoy learning new things (sense of wonder)
- Those who enjoy trying out new ideas.
PREREQUISITE TO DO RESEARCH

- Need not be smart.
- Able to spare sufficient time and energy.
- Able to accept rejection/failure.
- Should have Tenacity: accept new ideas.

RESEARCH AT A GLANCE

From an idea by way of rules to the research outcome
GENERATING AN IDEA?

- Socially Relevant
- Should not be retained within the Laboratory only
- Should be adaptable by the industry for further development
- Should have scalability

GENERATING AN IDEA?

Bhuj Earthquake: 2001

- Detachment of Slab from Lift Core in Multistoried Building
- Failure of connection Region of Precast Structures
RESEARCH AT A GLANCE

From an idea

by way of rules

to the research outcome

RULES OF CONDUCTING RESEARCH

➢ Originality
➢ Novelty
➢ Funding
➢ Attract the Practitioners
➢ Avoid Plagiarism
RULES OF CONDUCTING RESEARCH

1. Think Logically
2. Review Quality Publications
3. Identify the LOOP Holes
4. Prepare a research Plan
5. Kick start the Research
6. Manage the Research Progress
7. Come out with a Novel Idea
8. Present the Outcome of Research
   a. Journal Papers
   b. Thesis

RESEARCH AT A GLANCE

From an idea  by way of rules  to the research outcome
RESEARCH OUTCOME

The published paper/thesis

JOURNAL PAPER
DECIDING THE JOURNAL FOR PUBLISHING

- Aim high - Go for first tier journals if you have time and temperament to write a good manuscript.
- Decide the target journal before writing or drafting the article.
- Prefer those journals which publish similar work or the journal articles you are citing for your work.
- If you think that your competitor is ahead of you, go for second tier rapid publication journal, because it is important to first

HOW IMPORTANT CITATIONS ARE???

"I was published a couple of years ago in a crap journal and nobody is citing me"

"I was published a couple of years ago in a mid-tier journal. I've got slightly more citations than expected"

"I was published recently in a good journal. Citations are as expected."

"I was published recently in a good journal and I'm getting lots of citations."
**PAPER STRUCTURE**

- Fixing the Title and Abstract
- Introduction: scene setting and rationale.
- Contexts (literature; theoretical perspectives; academic debates; current policy).
- Research Design and Methods.
- Findings.
- Discussion: re-visits issues raised earlier in light of data.
- Optional short conclusion.

**PAPER ORGANIZATION**

➢ **TITLE AND ABSTRACT**

- Draft a title that sums up what the paper is about, using key words if possible:

- Draft an abstract: this will help you to organise your paper as you write it.

- Once the paper get drafted, review and revise the title and abstract.
PAPER ORGANIZATION

- **INTRODUCTION**
  - Pay attention to the specific subject, define the problem
  - Provide background and present the results of other studies (literature review)
  - List the structure of your research project and what you plan to present in your paper

- **LITERATURE REVIEW**
  - Relevant literature: *this section need to explore more*
  - Current issues or events.
  - Theoretical perspectives or debates.
  - Policy issues.
PAPER ORGANIZATION

> METHODOLOGY

- Complete information of materials and methods used, conditions present, actions, experimental design, etc.
- This section usually has subheadings; when possible match those to be used in Results.
- Enough information must be given so that the models/experiments can be reproduced.
- Check with a colleague if he/she can follow the methodology.

PAPER ORGANIZATION

• DESIGN AND METHODS
  • Research design/methodology
  • Methods (observation, focus group etc.).
  • Setting (who, where, when).
  • Data analysis methods.
PAPER ORGANIZATION

FINDINGS
- Findings will usually be 30 – 40% of paper.
- Findings need to be ‘tell as a story’.
- Write down your sub-headings (max = 4), perhaps relating to themes in the analysis.
- The findings section should be ‘topped and tailed’: introducing the themes and summarising the findings.

PAPER ORGANIZATION

RESULTS
- Display of data with logical development showing how your findings satisfy your objectives
- Where possible give illustrative examples and compare those with known results from literature
- Use tables and figures

The fool collects facts; the wise man selects them (J. W. Powell, 1888)
PAPER ORGANIZATION

• DISCUSSION
  • The hardest section to write
  • Discuss, without just repeating the Results
  • Show the relationship among observed facts
  • Refer back to contexts, reinterpreted in light of data.
  • Practice, policy or theoretical implications.
  • Shortcomings.
  • Future research.
  • Conclusion summarises the answer to the research question.

PAPER ORGANIZATION

• CONCLUSION or SUMMARY
  • State your conclusion(s) as clearly as possible
  • Summarize evidence for each conclusion.
  • End with a short statement regarding the significance of your work

➢ USE QUOTATIONS
  • Quotations are used to increase the credibility of your findings.
  • Never expect a quotation to speak for itself.
  • Summarise the finding in your own words, and then illustrate it with a quotation.
  • One quotation is usually enough to illustrate a finding; not all findings need a quotation.
BIBLIOGRAPHY

• Michaelson, H. B. How to Write and Publish Engineering Papers and Reports, 3rd Ed., Oryx Press, 1990

REVISION, REVISION, REVISION

• After writing the first draft, at least a dozen revision are usually needed to improve to the text.
• Make sure that all authors read the first draft. Give them timeline...
REVISION AND PROOFREADING

• Effectiveness of the study
• Supporting information
• Order and flow of the article
• Must be leaving reader with a new question

RESPONSIBILITIES OF AUTHORS

From Preparation of Manuscript to Submission

• New and original research
• Manuscript have been checked by all the listed authors.
• Obtain copyright permission if figures/tables need to be reproduced
• Proper affiliation
• Acknowledgement
ADDITIONAL TIPS

GETTING THE BALANCE

For an 8000 word paper, rough balance is:

- Abstract : 150
- Introduction : 500
- Literature Review and Contexts : 1300
- Research Design and Methods : 800
- Findings : 2500
- Discussion and Conclusion : 1500
- References : 1200
**IMPROVE THE QUALITY**

- Use simple language and avoid jargon.
- Get a friend or colleague to read the draft and offer criticisms.
- Ask yourself: what is new about what I am saying here?
- Proof-read, and don't rely on spell-check.

---

**ETHICS OF SCIENTIFIC WRITING**

- Avoid dual publication
- Don’t use the work of others without appropriate attribution
- List only those co-authors who contributed substantially to the work
CRITERIA FOR ACCEPTANCE

- Originality
  Novel or creative research methodology
  New and important research findings

- Scientific Quality (It is impossible to write a good paper on the basis of lousy science!!!)

- Experimental design and methodology
  - Research data representation
  - Depth of the investigation
  - Thorough and logical discussion of results

MAJOR REASONS FOR REJECTION

- The study is just confirmation of previous research i.e. not novel
- Poor experimental design
- Targeted journal is not suitable
- Weakly written/presentation and language

How to Handle the Rejection

Don’t be upset.
Experimental Study on Two Simple Mechanical Precast Beam-Column Connections under Reverse Cyclic Loading

R. Vidjeapriya and K. P. Jaya

Abstract

Experimental study on two simple mechanical precast beam-column connections under reverse cyclic loading. This paper presents an experimental investigation of one-third-scale precast concrete beam-column connections subjected to reverse cyclic loading. The precast specimen and monolithic specimen were designed for the same strength. For the first precast connection, the precast beam and column are connected with shear connectors. The second precast connection is a monolithic connection. Experimental results are presented for each specimen type. The specimens were subjected to 15 cycles of reverse cyclic loading applied at beam-end. The specimens were tested to failure. The failure modes and load-displacement responses of the specimens are presented. The experimental results are compared with the analytical predictions.
**IMPACT FACTOR (IF)**

- A measure of the frequency with which the average article in a journal has been cited in a particular year.
- It is used to measure the importance or rank of a journal by calculating the times it's articles are cited.

**IF – HOW TO CALCULATE ????**

\[ A = \text{the number of times articles published in 2018 and 2019 were cited by indexed journals during 2020.} \]

\[ B = \text{the total number of "citable items" published in 2018 and 2019.} \]

Impact Factor (IF) in 2020 = \( \frac{A}{B} \)

---

**H - INDEX**

- The \( H \) index was proposed by J.E. Hirsch in 2005
- The \( H \) index is a quantitative metric based on analysis of publication data using publications and citations
- \( H \) – index is an estimate of the importance, significance, and broad impact of a scientist’s cumulative research contributions.
- \( H \) - index is defined as: “A scientist has index \( H \) if \( H \) of his or her \( \text{"N"} \) papers have at least \( H \) citations each and the other \( (\text{"N"} - H) \) papers have \( \leq H \) citations each.”

H – INDEX CALCULATOR

<table>
<thead>
<tr>
<th>Articles</th>
<th>Citation numbers</th>
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<tbody>
<tr>
<td>1</td>
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<td>7</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
</tr>
</tbody>
</table>

\[= h\text{-index}\]

i10 - INDEX

- **Simple** and Straight Forward
- \(i10\)-Index = the number of publications with at least 10 citations.
CENTRE FOR RESEARCH

SUBMISSION OF SYNOPSIS
1. One Research article or Patent Granted
2. Scholar should be either first or second author
3. Second Authorship of the scholar is permitted only if the supervisor is the first author
4. Corresponding author should be either Scholar / Supervisor / Joint Supervisor
5. The paper content should be with the scope of the journal
6. The paper should be published in the regular issue of the journal not in the special issue
THE ACT OF PLAGIARISM

23.1 In the case of scholars who have committed the act of plagiarism in the Synopsis/Thesis/journal publication, he/she shall be called for enquiry at the Centre for Research and shall be advised to rectify the plagiarism and resubmit the documents with appropriate penalty. If the scholar fails to rectify the plagiarism in the documents, the Thesis/degree shall be forfeited and his/her research registration shall be cancelled and also he/she shall be debarred to register for any other programme in the University.

THE ACT OF SELFPLAGIARISM

23.3 If any scholar has committed an act of self plagiarism in the publications and ascertained by the Committee constituted by the Vice-Chancellor, such work shall not be allowed in his/her thesis and the scholar shall be fined upto Rs.50000/- with a warning to the Supervisor. The Synopsis / Thesis of such scholar shall be accepted only based on a new publication in a refereed journal (as applicable). If plagiarism is detected in the Publications / Thesis of any other scholar under the same supervisor, the recognition of his/her Supervisorship shall be withdrawn for a period of five years and he/she shall be debarred from guiding the scholars for any research programme in the University till such period.

23.4 If the plagiarism is observed in the later stage at any point of time, the PhD Degree awarded to the scholar shall be withdrawn.
CONTENT OF THESIS

The Thesis shall report,

➢ in an organized and scholarly fashion,
➢ an account of original research work of the scholar
➢ leading to the discovery of new facts or techniques or correlation of facts already known (analytical, experimental, hardware oriented, etc.) and
➢ demonstrating a quality contribution to the advancement of knowledge as well as
➢ the scholar’s ability to undertake sustained research

EVALUATION OF THE THESIS

• The Thesis shall be referred to two examiners (one from India and another from abroad) nominated by the Vice-Chancellor from the panel of examiners recommended by the Doctoral Committee

• Need to make sure that, the content is free from plagiarism
CATEGORIES OF REPORTS

The examiner shall include in his/her report an overall assessment placing the Thesis in any one of the following categories.

a) **Recommend the acceptance of the Thesis in the present form.**

b) **Recommend the acceptance of the Thesis. However, the scholar shall incorporate the corrections indicated in the detailed report and place the corrected copy to the Oral Examination Board but the corrected Thesis need not be sent to the examiner.**

c) **Defer the recommendation at this stage and the scholar shall incorporate the suggested modifications in the Thesis and the corrected Thesis along with the scholar’s clarifications shall be sent to the respective examiner.**

d) **Reject the Thesis for the reasons set out in the detailed report**

RECOMMENDATION

- If one examiner recommends the award of the degree while the other recommends rejection, then the Thesis shall be referred to the third examiner.

- If two of the three examiners recommend the award, the Thesis shall be provisionally accepted.

- If two of the examiners recommend rejection, the Thesis shall be rejected and the registration of the scholar shall stand cancelled.
AWARD OF DEGREE

If the oral examination board approves the thesis, the same will be recommended for the award of Ph.D. Degree

FUNDING OPPORTUNITIES
Centre for Research:

- Anna Centenary Fellowship
  
  Amount: Rs.20000/- per month

Source of Funds for Research:

- University Grants Commission (UGC)
- All India Council for Technical Education (AICTE)
- Department of Science and Technology (DST)
- Department of Atomic Energy (DAE)
- Department of Information Technology
- Council for Scientific and Industrial Research (CSIR)
- Defense Research and Development Organisation (DRDO)
- Department of Scientific and Industrial Research (DSIR)
- Indian Space Research Organisation (ISRO)
- Ministry of Environment and Forests (MoEF)
- Ministry of Nonconventional Energy Sources (MNES)
Research Abroad

- United State (US)
  - Stanford
  - Texas A&M
  - MIT
  - State University of New York at Buffalo (SUNY)
  - Rice University
  - University of California (Berkeley, Davis, Santiago)

- United Kingdom (UK)
  - University of Cambridge
  - University of Oxford
  - Imperial College London
  - University of Manchester
  - University of Edinburg
  - University of Southampton

Research Abroad

- Canada
  - University of Waterloo
  - University of Toronto
  - University of British Columbia
  - University of Alberta
  - Concordia University
  - Western University

- New Zealand
  - University of Canterbury
  - University of Auckland
  - Wellington Institute of Technology

- Switzerland
  - École Polytechnique Fédérale de Lausanne
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Research Abroad

- Germany
  - University of Stuttgart
  - Karlsruhe Institute of Technology
  - Berlin Institute of Technology
  - Technical University of Munich.
  - Ruhr University Bochum
  - Technical University of Braunschweig

- Japan
  - Kyoto University
  - Nagoya University
  - Tokyo Institute of Technology
  - Osaka University
  - Kyushu University
  - Hokkaido University

PRESENT SCENARIO
OF
RESEARCH AROUND THE WORLD
### Share of World R & D Expenditure

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### Number of Nobel Laurates

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**Total**: 904 individuals
Women in Research

Marie Curie

• First Lady to get Nobel Prize
• First person to receive Two Nobel Prizes at a time

SOLVAY CONFERENCE IN THE YEAR 1927

THANK YOU
Screenshots taken during the webinar

Session 2: Presentation by Prof. K.P. Jaya, Director-CFR

1. IQAC - LECTURE SERIES
   ENHANCING QUALITY OF RESEARCH PUBLICATIONS

2. RESEARCH PARADIGM
   Creativity is the fundamental attribute of science, which is driven by curiosity.

3. WHY TO DO RESEARCH???????
   - In academic & research circles, often it is a basic requirement for better projects.
   - Develops an analytical frame of mind.
   - Increases the confidence of a teacher.
   - Develops the ability to clearly articulate your ideas.

4. WHO SHOULD DO RESEARCH?
   - Those who enjoy learning new things (sense of wonder)
   - Those who enjoy trying out new ideas.

5. PREREQUISITE TO DO RESEARCH
   - Need not be smart.
   - Able to spare sufficient time and energy.
   - Able to accept rejection/failure.
   - Should have Tenacity: accept new ideas.

6. RESEARCH AT A GLANCE
   From an idea
   by way of rules
   to the research outcome

7. RULES OF CONDUCTING RESEARCH
   1. Think logically
   2. Review Quality Publications
   3. Identify the LOOP Holes
   4. Prepare a research Plan
   5. Kick start the Research
   6. Manage the Research Process
   7. Come out with a Novel Idea
   8. Present the Outcome of Research
      a. Journal Papers
      b. Tiers

8. HOW IMPORTANT CITATIONS ARE?????
   - "Selected a couple of years ago in a high journal and it's my fault!"
   - "Published in a couple of years ago a really bad journal, colleagues are as expected!"
   - "Published in a great journal, colleagues are surprised!"
   - "Mere published recently in the journal and colleagues!"
**Revision and Proofreading**
- Effectiveness of the study
- Supporting information
- Order and flow of the article
- Must be leaving reader with a new question

**Criteria for Acceptance**
- Originality
  - Initial or creative research methodology
  - New and important research findings
- Scientific quality
  - It is impossible to write a good paper on the basis of poorly scientific information
- Experimental design and methodology
- Research data presentation
- Depth of the investigation
- Thorough and logical discussion of results

**The Act of Plagiarism**
23.1 In the case of students who have committed the act of plagiarism in the European Theaptops Journal publication, he/she shall be asked for enquiry at the Centre for Research and shall be advised to rectify the plagiarism and resubmit the document with appropriate penalty. If the scholar fails to rectify the plagiarism in the document, the Thesis degree shall be forfeited and further research registration shall be suspended and a new name shall be obtained to register any other programme in the University.

**Centre for Research:**
- Anna Centenary Fellowship
  - Amount: Rs. 20,000/- per month

**Source of Funds for Research:**
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  - Rice University
  - University of California (Berkeley, Davis, Santa Barbara)
- United Kingdom (UK)
  - University of Cambridge
  - University of Oxford
  - Imperial College London
  - University of Warwick
  - University of Edinburgh
  - University of Southampton

**Canada**
- University of Waterloo
- University of Toronto
- University of British Columbia
- University of Alberta
- University of Western Ontario
- Western University

**New Zealand**
- University of Canterbury
- University of Auckland
- Wellington Institute of Technology

**Switzerland**
- École Polytechnique Fédérale de Lausanne
- Swiss Federal Institute of Technology Zurich
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