Opening up by closing the circle: Enhancing visibility & accessibility of theses and dissertations

by

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Brief Profile: http://www.jnu.ac.in/Library/RameshCGaur.htm
Outline

- ETD Initiatives in India
- Jawaharlal Nehru University
  - Theses & Dissertations Collection
- Access to Theses & Dissertations
- Moving Towards Electronic Theses & Dissertations (ETDs)
- Access to ETDs
  - Full Text available in OPAC
  - ETD Archive/Repository at JNU
  - JNU’s ETDs at Shodhganga
- What next
  - E-Thesis Tracking System
  - Repository of PhD Proposals
ETD Initiatives in India

- **Initiatives by individual institutions**

  - **Institutions and Organizations**
    - Council of Scientific & Industrial Research: CSIR Explorations (http://eprints.csirexplorations.com)
    - Indian Institute of Science: ETD@IISc (http://etd.ncsi.iisc.ernet.in) - 2271 Theses
    - Central Marine Fisheries Research Institute: Eprints@CMFRI (http://eprints.cmfri.org.in)

  - **Indian Institute of Technology (IITs)**
    - Indian Institute Technology, Bombay: ETD@IIT Bombay (http://etd.library.iitb.ac.in)
    - Indian Institute Technology, Delhi: Eprints@IIT Delhi (http://eprint.iitd.ac.in/)
    - Many others

  - **Universities**
    - Jawaharlal Nehru University: ETD@JNU (http://etd.lib.jnu.ac.in/)
    - University of Mysore: Vidyanidhi
    - Cochin University of Science & Technology: Dyuthi (http://dyuthi.cusat.ac.in/xmlui/)

- **Many other universities and institutions**

  - A search for repository type ‘theses’ from ‘India’ in OpenDOAR gives 34 results

Contd./-
ETD Initiatives in India

- **Initiatives at National Level**

  Earlier Initiative: IndCat
  - http://indcat.inflibnet.ac.in/
  - Online Union Catalogue of Indian Universities
  - IndCat (Theses Database) 2,64,636 unique Theses of 354 Universities

  Shodhganga
  - http://shodhganga.inflibnet.ac.in/
  - Digital Repository of Indian ETDs: An Initiative of INFLIBNET Centre
  - 172 Universities signed MoU with INFLIBNET
  - As on date, more than 18000 Theses

- **KrishiPrabha**
  - Indian Agricultural Doctoral Dissertations Repository
  - Collection of more than 6000 doctoral theses from 45 State/Deemed Agricultural Universities
Welcome to Shodhganga@INFLIBNET Centre

The Shodhganga@INFLIBNET Centre provides a platform for research students to deposit their Ph.D. theses and make it available to the entire scholarly community in open access. The repository has the ability to capture, index, store, disseminate and preserve ETDs submitted by the researchers.

Shodhganga received e-INDIA Jury Choice award.

Universities Contributed in Shodhganga [40 Top Universities Contributed]

Choose a University to Browse its Departments. (18017 theses uploaded)

[ Show Top 40 Universities ]

- Acharya Nagarjuna University [235]
- Aligarh Muslim University [283]
- Amity University [11]
- Andhra University [130]
- Anna University [739]
- Alagappa University [2]
- Allahabad University [0]
- Amrita Vishwa Vidyapeetham (University) [51]
- Annamalai University [0]
- Assam University [36]
KrishiPrabha is a full-text electronic database of Indian Agricultural Doctoral Dissertations submitted by research scholars to the 45 State/Deemed Agricultural Universities during the period from 1.1.2000 to 31.12.2007. This database, listing about 7500 Doctoral Dissertations with a full text of about 6000 Dissertations has been created by Nehru Library, Ch. Charan Singh Haryana Agricultural University, Hisar with financial support from Indian Council of Agricultural Research, New Delhi under its National Agricultural Innovation Project.

Click Here to Search in KrishiPrabha Database
Jawaharlal Nehru University (JNU)

- Theses & Dissertations Collection
  - The first PhD awarded by JNU in the year 1970
  - As on March 2014, the JNU library has over 20,000 unique theses and dissertations
  - More than 5,000 PhD Theses are under open access

- Access to Theses & Dissertations
  - Phase I: Hard Copy of Theses & Dissertations with Card Catalogue
  - Phase II: Hard Copy of Theses & Dissertations with OPAC
  - Phase III: Hard Copy with digital Table of Contents (TOC) in OPAC
  - Phase IV: ETDs
Access to Theses & Dissertations at JNU

- **Phase I:**
  - Hard Copy of Theses & Dissertations with Card Catalogue
    - Traditional approach with restricted access
    - Photocopy any part of theses and dissertations was not permitted

- **Phase II: 2001 onwards**
  - Hard Copy of Theses & Dissertations with OPAC
    - The same traditional approach with restricted access
    - Theses became searchable in OPAC

- **Phase III: 2007 onwards**
  - Hard Copy of Theses & Dissertations with Digital Table of Contents (TOC) in OPAC
    - The same traditional approach with restricted access
    - Theses became searchable in OPAC
    - Table of Contents (TOC) of theses & dissertations became available in OPAC

- **Phase IV: 2011 onwards**
  - Moving Towards ETDs

Contd./-
Moving towards ETDs

- In 2011, two major decisions were taken by JNU
  - To digitize hard copies of more than 20,000 theses & dissertations
  - Regulation for Submission of e-Thesis

- The digitization project
  - Outsourced to experienced company
  - Started in 2012
  - More than 20,000 theses & dissertations digitized
  - Over 3 million pages digitized

- Regulation for Submission of e-Thesis
  - Submission of e-Thesis along with hard copies of the thesis became mandatory
  - Plagiarism check before submission of thesis made mandatory
  - On CD-ROM with hard copy
The digitization project

- Digitization Process - Flowchart
The digitization project

- Digitization Process - Scanning
The digitization project

- Digitization Process – Cleaning of Image
The digitization project

- Digitization Process – PDF creation, OCR
The digitization project

- Digitization Process – Cost Involved

<table>
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<tr>
<th>Service</th>
<th>Cost</th>
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<tr>
<td>Digitization per page</td>
<td>INR 1.10</td>
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<tr>
<td>Metadata Creation per title</td>
<td>INR 5.80</td>
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<tr>
<td>Uploading on Archive per title</td>
<td>INR 9.85</td>
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<tr>
<td>Total average cost per title</td>
<td>INR 225 (US $ 4)</td>
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</tbody>
</table>

(In-house staff cost involved in Editing, Quality Checking and related works not included in above cost)
Regulation for Submission of e-Thesis

- In 2011,
  - Submission of e-Thesis on CD-ROM became mandatory
  - Plagiarism check before submission of ETDs made mandatory
- Difficulties faced
  - Inconsistencies in the contents of CD-ROM
  - Missing ‘fonts’ of other languages
  - Missing ‘certificate’ page
- In 2014,
  - Modifications in regulation for streamlining the process
Modifications in regulation for Submission of e-Thesis

- Contents of the CD specified as
  - A single PDF file containing the complete thesis/dissertation
    - Without password, security tags, and restriction on copy, paste or print
  - MS-Word files of the thesis along with all special fonts used in the thesis
  - Authentication Certificate
    - thesis/dissertation contained in the CD/DVD is complete in all respect and is same as submitted in print
  - An abstract of the thesis/dissertation
  - Metadata Form
  - Consent Form for Digital Archiving
  - Other accompanying material/s, if any

- The Degree or Provisional Certificate shall finally be released after clearance from the library along with other ‘No dues’
# Annexure-I

Jawaharlal Nehru University

Thesis/Dissertation Authentication Certificate

<table>
<thead>
<tr>
<th>Name of the Author (Research Scholar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree</td>
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<tr>
<td>Department/Centre</td>
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<tr>
<td>Name of affiliated Institution for which JNU is granting the degree</td>
</tr>
<tr>
<td>Guide/Supervisor</td>
</tr>
<tr>
<td>Thesis/Dissertation Title</td>
</tr>
<tr>
<td>Date of Submission</td>
</tr>
</tbody>
</table>

I hereby certify that the thesis/dissertation contained in this CD/DVD is complete in all respect and is same as submitted in print.

Signature of the Scholar                Signature and Seal of the Guide

Place :                                 Date :


Annexure-II
Jawaharlal Nehru University
Thesis/Dissertation Metadata Form

<p>| | |</p>
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<td>2.</td>
<td>Alternative Title, if any</td>
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<td>3.</td>
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Signature of the Scholar
Annexure-III
Jawaharlal Nehru University
Consent Form for Digital Archiving

<table>
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</tr>
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1. I hereby give my consent to the Central Library, Jawaharlal Nehru University, New Delhi to archive and to make available my thesis or dissertation in whole or in part in the University’s Electronic Thesis and Dissertations (ETD) Archive and to make it accessible worldwide under the conditions specified below in all forms of media, now or hereafter known.

2. I retain all other ownership rights to the copyright of the thesis/dissertation. I also retain the right to use in future works (such as articles or books) all or part of this thesis or dissertation.

Conditions: [mark “x” in relevant box]:
[The University recognises that there may be exceptional circumstances requiring restrictions on public access. Requests for restriction for a period of up to maximum 3 years must be specified by the scholar explicitly. However the digital contents on JNU INTRANET will be available immediately after the award of Degree]

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<tr>
<td>3 Years</td>
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Signature of the Scholar
Place :
Date :

Signature and Seal of the Guide

Access to ETDs at JNU

• Full Text available in OPAC
  • Full text PDFs are available in OPAC as multimedia link
  • Access within university premises only

• ETD Repository at JNU
  • http://etd.lib.jnu.ac.in
  • At present, available only within university premises

• JNU’s ETDs at Shodhganga
  • JNU signed an MoU to upload its ETDs in Shodhganga
  • Open Access
  • With embargo period of 3 years
  • More than 5000 PhD theses sent to be uploaded in Shodhganga
  • 3155 Theses already uploaded
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<td>New Delhi : Jawaharlal Nehru University; 2012</td>
<td>1 copy is available</td>
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<td>1 copy is available</td>
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<td>New Delhi: Jawaharlal Nehru University; 1983</td>
<td>iv, 185 p., 30 cm + CD</td>
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Biochemical changes in red blood cells treated with insulin and thyroid hormones / Mohammad Nehal

Nehal, Mohammad

Record 2 of 3

Title: Biochemical changes in red blood cells treated with insulin and thyroid hormones / Mohammad Nehal
Call Number: 612.111 N313
Publication: New Delhi : Jawaharlal Nehru University, 1997.
Physical Description: v. 141 p. ; 30 cm.
Added Author: Jawaharlal Nehru University. School of Life Sciences.
Subject: Blood cells

Click here to View: http://172.16.21.5:8000/theses/TH2374.pdf

Call Number | Location | Shelf Location | Barcode | Item Class | Units | Copy Number | Status
--- | --- | --- | --- | --- | --- | --- | ---
612.111 N313 Bi | Theses / Dissertation | Theses / Dissertation | TH2374 | Theses/Dissertation | 0 | Available

Version 1.1.36
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ETD Repository at JNU

CENTRAL LIBRARY, Jawaharlal Nehru University

JNU's Electronic Theses and Dissertations

Jawaharlal Nehru University has a collection of nearly 20,000 Theses and Dissertations till date. All these theses and dissertations have been digitized and are ....

Communities in ETD Archive

Select a community to browse its collections.

- Centre for the Study of Law and Governance
- School of Arts & Aesthetics
- School of Biotechnology
- School of Computational and Integrative Sciences
- School of Computer and Systems Sciences
- School of Environmental Sciences
- School of International Studies
- School of Language Literature and Culture Studies
- School of Life Sciences
- School of Physical Sciences
- School of Social Sciences
- Special Centre for Molecular Medicine
- Special Centre for Nanoscience
- Special Centre for Sanskrit Studies

Recently Added

Some aspects of regeneration in the ciliate Spirostomum ambiguum / Khurana, Madhubala (Jawaharlal Nehru University, 1974)

Search Archive

Advanced Search

Browse

All of Archive
- Communities & Collections
- By Issue Date
- Authors
- Titles
- Subjects

My Account

Login
Register

Discover

Author
- Kan, David (2)
- Bandyopadhyay, Saurabh (1)
- Joseph, Jegomohan (1)
- Kember, J.L. (1)
- Khurana, Madhubala (1)
- Koshy, V.G. (1)
- P, Rafi (1)
- Rana, Sunita (1)
- Stein, Burton (1)

Subject

Go
JNU’s ETDs at Shodhganga
JNU’s ETDs at Shodhganga

Browsing "Center for Development Studies" by Title

<table>
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<th>Date</th>
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<td>Bhat, Manoj</td>
<td>Khundu, Amalebi, Sengupta, Ramprasad</td>
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What next?

- **e-Thesis Tracking System**
  - JNU Thesis Tracking System in place
  - Designed, developed, implemented and maintained in-house
  - Web based software, accessible by only authorized users

- **Repository of PhD Proposals**
  - ShodhGangotri
    - Repository of Indian Research in Progress details (Synopses/Research Proposals for PhD programme)
    - Developed and maintained by INFLIBNET
  - Similar solution for JNU is proposed
JNU’s e-Thesis Tracking System

- Records of more than 1600 theses & dissertations available in the system
- Presently the software has 17 steps of workflow from Examiner panel entry to Award of degree
- Three new steps of workflow are being developed
  - To collect correct information from School level
  - To get approved synopsis/proposal at right time
  - To make sure collection of final thesis in appropriate format before award of the degree.
JNU Thesis Tracking System

- Thesis Tracking System is a web based software which has been developed in-house at JNU to speed up and streamline the workflow of processing the thesis/dissertations in the Evaluation branch. The software is available to authorized users on JNU network. Presently the system contains more than 1600 thesis/dissertation records with up-to-date status*.

- The software and automated system has been designed, developed, implemented and maintained by Mr. Tarun Pant, Systems Analyst, E-Governance Cell (CIS), JNU. Mr. Amogh Batra of E-governance cell has provided Students Registration database connectivity. The software development has been done over one and half year, and implementation has taken two months time.

- Presently the software has 17 steps of workflow from Examiner panel entry to Award of degree, details of which are explained in following slides. The authorized users can access the system by opening the following link in their web browser: thesistracking.jnu.ac.in

The software screenshots contain dummy data (dummy thesis and examiner records picked randomly from test instance of thesis tracking system). Still as a precaution, parts of screenshots have been obfuscated with pink coloured blocks wherever there are confidential data portions.

* as on 09-July-2014
Flow Chart of JNU’s E-Theis Tracking System

Panel of examiners with enrolment no. of student forwarded by Dean of concerned School to Evaluation-I section

Data Entry of Examiner panel details is done by Eval-I data entry operators after cross checking student details displayed from student registration database Unique Thesis ID is generated.

Verification of entered data is done by concerned Dealing hand

This workflow step will be moved to school level and compulsory provision of uploading synopsis in PDF format will also be provided at this step. The uploaded synopsis will go to library server tagged with thesis id.

Contd./-
Data Entry of additional panel details is done by Eval - I data entry operators.

Record is forwarded by S.O. (Eval.-I)

Record is forward by Dy. Registrar (Eval.)

Record is forwarded by Co-ordinator (Eval.)

Additional Panel of examiners provided by Dean of concerned School to Evaluation-I section

Check examiner profile and Set examiner priority by Vice-Chancellor

Is examiner panel exhausted?

Send Request for consent (OFFER) to available examiner(s) as per their priority in the panel

Contd./-
Is examiner acceptance received within stipulated time?

NO

Is thesis received from school?

NO

Send Thesis to examiners who have given acceptance

YES

YES

Wait until thesis is received from school

Contd. On Page 2 ...

One workflow step will be added before this step at school level and compulsory provision of uploading thesis in PDF format will be provided at this step. The uploaded thesis will go to library server tagged with thesis id.
Contd.

Send reminder to examiner

Are both Examiners' reports received within stipulated time?

NO

Forward both Examiners' reports to school

YES

Forward result received from the school for VC approval

Any other unforeseen circumstances due to which thesis record needs to be prematurely closed without award of degree
Is Award of degree recommended as per result received from school?

- NO: Record closed prematurely (with comments)
- YES: Issue Notification for Award of Degree

One workflow step will be added before this step at library level and degree will not be issued until uploaded thesis has been reviewed and marked

Issue Degree (Record closed automatically at this step)
Enterprise Application diagram for JNU Thesis tracking system
(Direction of arrows indicates the primary flow of data between the components/computers)
First screen: Select your login method

This screen offers two options for user access: One is Service branch ID, which can be provided to authorized user by the concerned department (in this case Evaluation – I section). Other option is through JNU Internet ID of authorized user (this option is yet to be activated for this software, but already being used in JNU Helpdesk system).
Next Step: Enter your ID and Password

This is a screenshot of authentication using user ID provided by Evaluation-I section.
Default screen after login: Register New Thesis for tracking

When a fresh examiner panel from school arrives in Evaluation-I section for VC approval, its full details are entered into the system. For this step entering Enrolment no. of the student is compulsory.
On entering the enrolment no. of the student, the student details are displayed from the student registration database of JNU (courtesy: E-governance cell). Here thesis specific details such as Title of thesis, and no. of co-guides(if any) / external examiners have to be entered.

<table>
<thead>
<tr>
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<th>Anuj Pradhan</th>
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<td>Registration no.</td>
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<td>Year of Admission</td>
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<td>Programme of study</td>
<td>M</td>
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School: SCS  
Center: SCS  
Nationality: Indian

**Please enter below details:**

**Title of thesis:**

New Power optimization techniques for short range wireless networks

**Select no. of co-guides:** 1  
**Select no. of external examiners(proposed):** 5
Enter Guide(s) / Examiners' details

Here full details of guide(s) / panel of External examiners such as Name, Designation, Organization, Specialization, E-mail, Contact no., Correspondence Address are entered by data entry operators at Evaluation-I section. A drop down list of recently entered examiners' data is also available to avoid re-typing of recently entered similar data. It is planned to move this data entry step at centre / school level by providing login ids / passwords at school level after certain operational pre-requisites for the system are fulfilled by concerned departments.
Thesis details registered successfully

Above dialog box is displayed to confirm the successful entry of record, and unique thesis ID generated by the thesis tracking system is also displayed.
Public Thesis details screen appears now

Public details of the thesis are now visible on this screen. For checking confidential details, MORE DETAILS button is available to Evaluation staff. Workflow changes done by authorized users with exact date and time of actions taken in reverse chronological order are available through VIEW WORKFLOW LOG button.
Data Entry of thesis record is complete.

Now we will proceed to next step in the workflow: Verification of record by Dealing hand...
Dealing hand enters criteria to list his/her relevant records

Search button is available to search relevant records pertaining to a dealing hand by selecting appropriate criteria (in this case Degree and school dealt by that dealing hand).
<table>
<thead>
<tr>
<th>S.No.</th>
<th>Thesis ID</th>
<th>Paper file no.</th>
<th>Status</th>
<th>Last update</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>752</td>
<td></td>
<td>Pending - Verification by Dealing hand (Eval.)</td>
<td>04-10-2013 12:52:48</td>
</tr>
<tr>
<td>2</td>
<td>934</td>
<td></td>
<td>Pending - Verification by Dealing hand (Eval.)</td>
<td>14-10-2013 11:48:51</td>
</tr>
<tr>
<td>3</td>
<td>942</td>
<td></td>
<td>Pending - Verification by Dealing hand (Eval.)</td>
<td>17-10-2013 16:40:27</td>
</tr>
<tr>
<td>4</td>
<td>854</td>
<td></td>
<td>Pending - Verification by Dealing hand (Eval.)</td>
<td>23-10-2013 09:50:18</td>
</tr>
</tbody>
</table>

Records: 1 to 4 of 4

Report generated by: Bhuwan Singh (bsingh)
Public Thesis Details of the thesis selected appears

Currently opened record is showing status: PENDING – VERIFICATION BY DEALING HAND (EVAL.)
Now Dealing hand has to press TAKE ACTION button to verify thesis details of currently open record...
Verification step

Here the thesis record such as Thesis title, Guide(s) details, External Examiners’ details can be checked and corrected (if needed). On completing this step, the workflow moves to Forward by S.O.(Eval.-I), D.R.(Eval.), C.E. respectively where these authorities can check the details as in screenshot above, make corrections(if any), and forward the workflow to next step. After record is forwarded by C.E., it will show in the Pending list of Vice-Chancellor...
<table>
<thead>
<tr>
<th>New priority</th>
<th>S.No.</th>
<th>Examiner</th>
<th>Search Google Scholar</th>
<th>Designation</th>
<th>Organisation</th>
<th>Specialisation</th>
<th>Address Line 1</th>
<th>Address Line 2</th>
<th>Address Line 3</th>
<th>Address Line 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Google Scholar</td>
<td>Professor</td>
<td>Dept. of Computer Science</td>
<td>Intelligent Databases, Data Mining</td>
<td>Dept. of Computer Science</td>
<td>Department of Computer Science</td>
<td>123456789</td>
<td>123456789</td>
<td>123456789</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Google Scholar</td>
<td>Professor</td>
<td>University of Technology</td>
<td>Ad Hoc Network</td>
<td>University of Technology</td>
<td>Department of Computer Science</td>
<td>123456789</td>
<td>123456789</td>
<td>123456789</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Google Scholar</td>
<td>Head</td>
<td>Dept. of Computer Science</td>
<td>Distributed Computing Cloud Computing &amp; Soft Computing</td>
<td>Dept. of Computer Science</td>
<td>Department of Computer Science</td>
<td>123456789</td>
<td>123456789</td>
<td>123456789</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>Google Scholar</td>
<td>Associate Professor</td>
<td>Dept. of Computer Science</td>
<td>Optimization, Discrete Structures</td>
<td>Dept. of Computer Science</td>
<td>Department of Computer Science</td>
<td>123456789</td>
<td>123456789</td>
<td>123456789</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Google Scholar</td>
<td>Associate Professor</td>
<td>Dept. of Computer Science</td>
<td>Natural Language Processing</td>
<td>Dept. of Computer Science</td>
<td>Department of Computer Science</td>
<td>123456789</td>
<td>123456789</td>
<td>123456789</td>
</tr>
</tbody>
</table>

External Examiner priority selection by Vice-Chancellor

On clicking a record in pending list of VC, above screen appears. On this page links are given to Search Web of Knowledge database and Google Scholar for each examiner based on “Examiner Name + Specialization” criteria. Depending on the result of these searches, VC can take an informed decision and select/change priority of examiners’ in the panel. The workflow is then forwarded to next step, i.e. Send Request for Consent to examiners’ (as per their new priority)...
Send Request for consent to examiners

Request is sent through the software to 2 external examiners (in case of Ph.D. thesis) and 1 external examiner (in case of M.Phil. / M.Tech. dissertation) for evaluation. Preferably request is sent through E-mail by the software, if examiner’s e-mail ID is available in the record, otherwise hard copy of letter is generated by the system and sent to correspondence address of the examiner. After the request is sent successfully, the Request sent date is updated in the software accordingly...
Receipt of examiners’ response

Once examiner’s response is received through e-mail / post, it is updated in the system as Accepted / Regretted / Late response. Also Response receipt date is recorded. If an examiner does not respond within 5 days by e-mail, or within 15 days by post, or in case of Mail Undelivered, the offer is sent to next examiner in priority by marking it as NO RESPONSE and going to previous step in the workflow.
Receipt of thesis from school

In this step date of receipt of thesis from school is recorded into the system without which system will not allow the dealing hand to proceed further. Next comes the step of sending thesis copy to examiners...
Send Thesis to examiners

Cover letter to be sent along with the thesis is generated through the system and date of sending the thesis to each examiner is recorded. Then Report of examiners is awaited...
Receipt of examiners’ report

Once examiner's report is received, it is updated in the system as Ok / Revision required / Rejected for that examiner. Also Report receipt date is recorded. In case of Thesis undelivered to the examiner or Examiner expressing inability to evaluate the thesis, the offer is sent to next examiner in priority by marking it as such and going back to relevant step in the workflow. In case no response is received within stipulated period, sequentially numbered reminder(s) can be sent through the system, with provision for recording the date and number of last reminder sent...
Forward examiners’ reports to school

When reports of both the examiners are received, they are forwarded to school and date of forwarding the reports is recorded in the system. Then receipt of result from school is awaited...
Receipt of result from school

Once result (approved by Dean) is received from school, Date of receipt of result at Evaluation-I and Date of recommendation by Dean is recorded in the system. In case of M.Phil / M.Tech. FGPA obtained after including dissertation evaluation result is also recorded. Then result is sent to VC for approval...
Send result to VC for approval

Date of sending result to VC for approval is recorded in the system. The approval note is also automatically generated through the software. Then approval of result from VC is awaited...
Receipt of VC approval

Date of receipt of VC approval note in Evaluation – I is recorded in the system, along with Date of approval by the VC. Then next step is Issue of Notification for Award of Degree...
The Notification letter is generated automatically from the software with auto-generated reference no. Notification no. allotted by Evaluation – I is also recorded in the system.
Issue of Degree

In this step, Degree no. is recorded in the system. With completion of this step, the workflow of thesis tracking for the particular thesis in question comes to an end and the record is closed. The record is no more visible in the pending list. However the record is available in the system for future reference.
Special cases

Premature closure of record: Due to some unforeseen reason, the record may have to be closed prematurely before its proper conclusion i.e. Award of Degree in the workflow. For such cases there is a provision to prematurely close the record with comments. The record can be immediately closed by S.O. (Eval.- I) and available for future reference. The record will be no more visible in pending list.

Requirement of additional panel of examiners: In case the existing panel of examiners is exhausted due to poor response from examiners resulting in incomplete quorum, there is provision in the system for adding to existing thesis record additional panel of examiners sent from the school and approved by VC through the system.
Upcoming features in Phase-II: Evaluation Branch related

- It is planned to move the data entry step at centre / school level by providing login ids / password at school level after certain operational pre-requisites for the system are fulfilled by concerned departments.

- Presently the system is able to process thesis of JNU schools / centres as the student registration database was available for JNU students. However, thesis submitted by students of affiliated institutes can be covered, once their database is built by Evaluation-I and related procedures planned and executed by E-governance Cell(CIS).
Upcoming features in Phase-II: Central Library related

- Providing provision of uploading of synopsis in searchable PDF format by school/centre at the time of panel of examiner’s entry. The uploaded synopsis will be stored in library storage server tagged with thesis tracking number.

- Providing provision of uploading of thesis in searchable PDF format by school/centre before sending hard copy to Evaluation branch. The uploaded thesis will be stored in library storage server tagged with thesis tracking no. Scanned copy of following documents will be uploaded along with thesis: Authentication certificate, Metadata form, Consent form for digital archiving, other accompanying materials such as audio/video (if any).

- Providing provision for downloading the synopsis and thesis in pdf format, and posting of comments with review status by authorised Library staff. Degree can be issued only after go ahead has been provided by the Library. Printing of e-thesis submission certificate from library will also be included in this step.

- Providing provision for suitable data import interface to the Central Library, so that Student profile and thesis title can be read by Library from the thesis tracking system.
The system will need constant maintenance, as it handles a myriad of cases at every step of thesis workflow. Although most of the situations which can arise have been taken into consideration by the developer by personally monitoring the thesis processing activities for two months in Evaluation-I section, new variations keep on coming from time to time. Correspondence formats, credits, other static information which are permanently fed into the software keep on changing with time. Software updates for such changes have to applied from time to time. Also any issues reported in the system by users have to be diagnosed and rectified.

Thesis records database will also grow larger as more records are entered. With passage of time, users will start experiencing slow response time of system due to searching large no. of records. Hence database will have to be reorganized / optimized to deal with such scenarios. Also much faster server will be needed for hosting the thesis tracking system in future. Disaster recovery strategy and solutions also have to be considered.

Full Technical Documentation of the software has to be completed to enable any other IT professional to maintain the software in future in the absence of developer. Hence for above activities the software will need periodic maintenance by the developer / other staff averaging a couple of hours per day.
Some statistics from the thesis tracking database...
Examiner response time for offer of evaluation sent to 301 examiners

Time elapsed between sending evaluation offer and receipt of reply (Accept OR Regret)

Count of examiners who replied back:
- Within 1 day: 52
- 2 days to 1 week: 48
- > 1 to 2 weeks: 70
- > 2 to 3 weeks: 64
- > 3 to 4 weeks: 27
- > 4 weeks to 2 months: 24
- > 2 months: 15
Dispatch time for 259 thesis after acceptance (including cases where thesis received in Evaluation-I after acceptance of examiner)

No. of examiners to whom thesis copy was sent

<table>
<thead>
<tr>
<th>Time elapsed between receipt of examiner acceptance and dispatch of thesis copy to examiner</th>
<th>No. of examiners</th>
</tr>
</thead>
<tbody>
<tr>
<td>Within 1 day</td>
<td>10</td>
</tr>
<tr>
<td>2 days to 1 week</td>
<td>63</td>
</tr>
<tr>
<td>&gt; 1 to 2 weeks</td>
<td>37</td>
</tr>
<tr>
<td>&gt; 2 to 3 weeks</td>
<td>25</td>
</tr>
<tr>
<td>&gt; 3 to 4 weeks</td>
<td>8</td>
</tr>
<tr>
<td>&gt; 4 weeks to 2 months</td>
<td>18</td>
</tr>
<tr>
<td>&gt; 2 months</td>
<td>98</td>
</tr>
</tbody>
</table>
Thesis evaluation time for thesis/dissertation sent to 90 examiners

<table>
<thead>
<tr>
<th>Time Elapsed</th>
<th>No. of Examiners</th>
</tr>
</thead>
<tbody>
<tr>
<td>within 3 weeks</td>
<td>16</td>
</tr>
<tr>
<td>&gt;3 to 4 weeks</td>
<td>14</td>
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<tr>
<td>&gt;4 to 5 weeks</td>
<td>13</td>
</tr>
<tr>
<td>&gt;5 to 6 weeks</td>
<td>12</td>
</tr>
<tr>
<td>&gt;6 weeks to 3 months</td>
<td>24</td>
</tr>
<tr>
<td>&gt;3 months to 6 months</td>
<td>9</td>
</tr>
<tr>
<td>&gt;6 months</td>
<td>2</td>
</tr>
</tbody>
</table>

Time elapsed between thesis dispatch and receipt of examiner report (Ok/Revision Required/Rejected)
ANY QUESTIONS?