



# WELCOME

## 30<sup>th</sup> IQAC Regular Meeting

**Wednesday, 28<sup>th</sup> June 2023**



# Agenda

## A) Action taken report on the proposals of 29<sup>th</sup> IQAC meeting

- 1) **EPICS**. The projects should confine to societal problems with innovative solutions and reach targeted users.
- 2) **Industry / Institute (IITs / NITs) Collaborative joint venture projects**. Their execution in all departments.
- 3) **Refresher Training program on OBE** (*Focusing on higher order knowledge levels, defining appropriate COs & setting higher PO attainment levels*).

## B) Issues open for discussion

- 1) Attention on improving **Granting of Patents** in proportion to publishing.
- 2) Implementation of **Academic Bank of Credits**.
- 3) Any other item with the permission of Chairperson.



## **A) Action taken report on the proposals of 29<sup>th</sup> IQAC meeting**

**1) EPICS. The projects should confine to societal problems with innovative solutions and reach targeted users.**

### **Suggested the following for improvement**

---

- 1. Directing the students & guides to strictly follow EPICS design Process**
- 2. Conducting brainstorming sessions on EPICS to students & faculty**
- 3. Appointing separate EPICS Committee at department level for meticulous examination on the progress of the project at every assessment level.**
- 4. Promoting the students to reach their innovations to the targeted community.**
- 5. Promoting the students to exhibit their Innovations on prominent platforms.**

**1) EPICS. The projects should confine to societal problems with innovative solutions and reach targeted users.**

### **EPICS – Recommended to implement**

- Selection of the best EPICS project at department level.....and appreciation to students & faculty
- Selection of the best EPICS project at Institute level out of the best projects of departments and appreciation to students & faculty.
- Telecast the selected the best project in intended regional media channels - Every dept. at least one per year.
- Telecast the selected the best project among the depts. in National Channels, one at Institute level per year.
- Technical Publications through papers / Patents
- Exhibition / Presentation of EPICS - Projects on Prominent platforms – IITs / NITs / Govt. Organisations / etc.



**1) EPICS. The projects should confine to societal problems with innovative solutions and reach targeted users.**

### **Innovative EPICS Projects selected by departments in 2022-23**

<b>Dept</b>	<b>Title of the Project</b>
<b>CSE</b>	<ul style="list-style-type: none"><li>➤ <b>Battery Monitoring System in Electric Vehicles for the User's Safety</b></li><li>➤ <b>Smart Rain Protection cover using IoT</b></li><li>➤ <b>Smart Reader for visually impaired</b></li><li>➤ <b>An AI based mental health support Chabot for Cyber bullied Victims</b></li></ul>
<b>ME</b>	<ul style="list-style-type: none"><li>➤ <b>Development of Safety Helmet using Rice Straw/ Bagasse hybrid composite material</b></li><li>➤ <b>Smart Trash Bin</b></li></ul>
<b>EEE</b>	<ul style="list-style-type: none"><li>➤ <b>Child rescue system from open bore wells using Robotic Module.</b></li><li>➤ <b>Design and Implementation of smart electric two-wheeler considering real-time operating conditions.</b></li></ul>

**Note: EPICS projects should useful to community (People/schools/local governments),but not for profit organizations.**

**1) EPICS. The projects should confine to societal problems with innovative solutions and reach targeted users.**

### **Innovative EPICS Projects selected by departments in 2022-23**

<b>Dept</b>	<b>Title of the Project</b>
<b>IT</b>	<ul style="list-style-type: none"><li>➤ Cataract detection using Mobile Application</li><li>➤ Change detection Algorithm for Vegetation Mapping using Multispectral Image Processing</li></ul>
<b>ECE</b>	<ul style="list-style-type: none"><li>➤ AI Powered Continuous Glucose Monitoring and Controlling System: Pumping Module and Sensing Module</li></ul>
<b>EIE</b>	<ul style="list-style-type: none"><li>➤ An Integrated Wireless Aquaculture Monitoring and Feed Management System</li><li>➤ Design and development of 6-axis robotic arm for industrial applications</li></ul>
<b>CE</b>	<ul style="list-style-type: none"><li>➤ Identification of Accidents using Sensors</li><li>➤ Traffic Management at Level Crossing</li><li>➤ Development of mitigation strategies for sustainable development of coastal zone</li></ul>



## A) Action taken report on the proposals of 29<sup>th</sup> IQAC meeting

### 2) Industry / Institute (IITs / NITs) collaborative joint venture projects. Their execution in all depts.

#### Recommended to implement

---

- **Building relations with nearby NITs / IITs through.....**
  - *Inviting experts from IITs/ NITs for training programs (summer schools, etc.),*
  - *Exchange programs for UG, PG students and faculty,*
  - *organizing the conferences, workshops and FDPs in collaboration with IITs/NITs,*
  - *Centers of Excellence in collaboration with IITs/ NITs,*
  - *MoUs / Linkages with such Institutions, etc.*
- **Taking the above events as an opportunity to fulfill our requirement.**



## A) Action taken report on the proposals of 29<sup>th</sup> IQAC meeting

### 2) Industry / Institute (IITs / NITs) collaborative joint venture projects. Their execution in all depts.

#### Action taken by the departments

Dept.	Action taken
CSE	ISRO, Rs.43,14,920
IT	NRSC-ISRO, Rs.54,07,520
ECE	Efftronics & Aventel-Rs.21.50 Lakhs (11+10.5)
CE	MoU.....CSIR National Institute of Oceanography (NIO), Dona Paula, Goa
EIE	MoU.....Microgrid Technologies, Visakhapatnam
EEE	---
ME	---

**Directed the departments to continue the process for getting Joint Venture Projects**



**A) Action taken report on the proposal of 29<sup>th</sup> IQAC meeting**

**3) Refresher Training program on OBE (*Focusing on Higher order knowledge levels, defining appropriate COs & setting higher PO attainment targets*).**

*Proposed with an intention of updating skills and knowledge to a changed standard and further refinement in OBE practice in the Institution*

---

The IT department took the charge to organize the program

Topic: Outcome Based Education

- *Focusing on Higher order knowledge levels,*
- *Defining appropriate COs in new courses &*
- *Setting higher PO attainment levels in existing programs.*

Resource Persons: NITTTR, Chennai

Tentative Schedule of the program: July 2023



# Agenda

## B) Issues open for discussion in 30<sup>th</sup> meeting

---

- 1) Attention on improving **Granting of Patents** in proportion to publishing.
- 2) Implementation of **Academic Bank of Credits**.
- 3) Any other item with the permission of Chairperson.

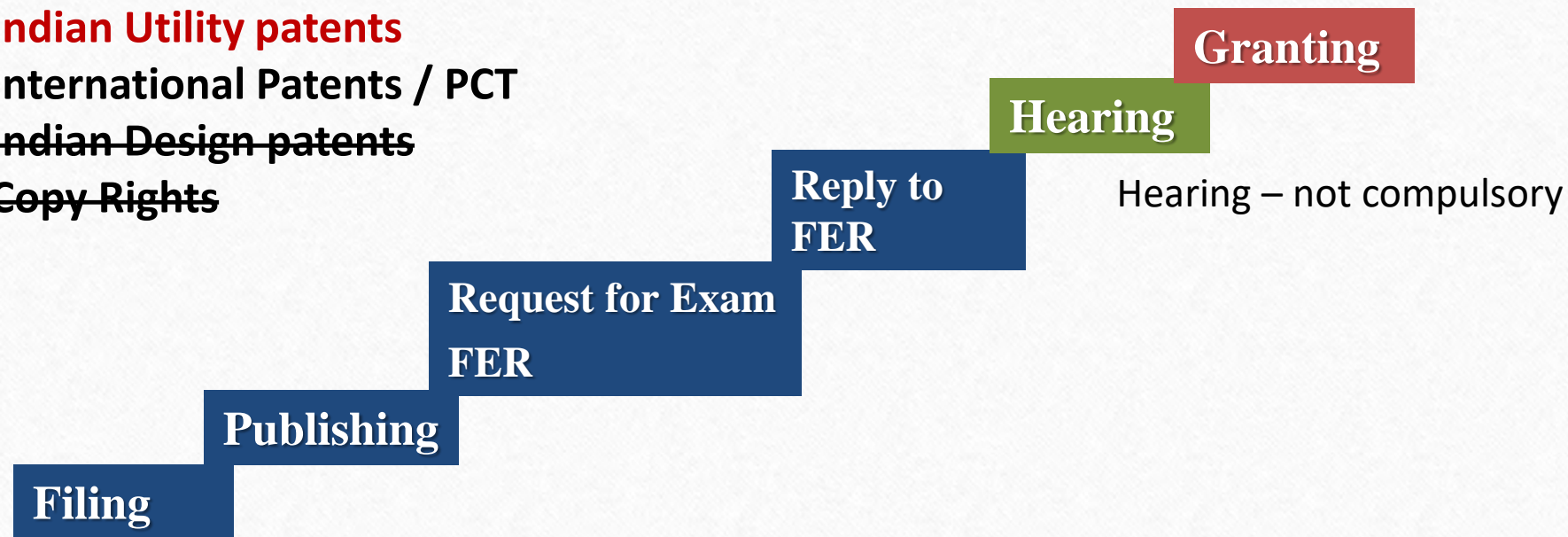


## B) Issues open for discussion

### 1) Attention on improving 'Granting of Patents' then commercialization

#### PATENTS:

- Indian Utility patents
- International Patents / PCT
- ~~Indian Design patents~~
- ~~Copy Rights~~



Note: Only Utility patents are considered for analysis.

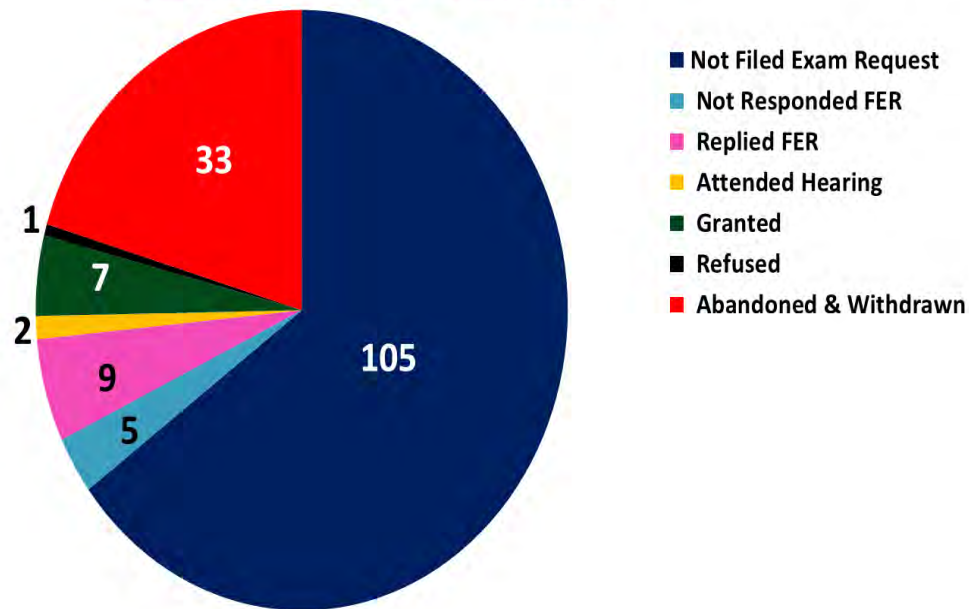
Note: NIRF is not considering Design Patents & Copy rights



## B) Issues open for discussion

### 1) Attention on improving 'Granting of Patents' then commercialization

Status of Utility Indian Patents



- Most contributed depts are CSE & IT
- No granting of patents from ME & EEE in Engineering; MBA, MCA, Maths, Physics, Chemistry & Eng in non-engineering depts.
- Granted: Published = 7 : 162 => 1 : 23  
or
- % of granting = 4.3%
- Weightage in NIRF:  
Published : Granting = 25:75
- No patent commercialised so far.

**Total Utility patents: 162**

**The ultimate aim of patent filing is Granting & Commercialization**

Note: NIRF is not considering Design Patents & Copy rights



## 1) Attention on improving 'Granting of Patents' then commercialization

Dept	Not Filed		Replied FER	Attended Hearing	Granted	Refused	Abandoned & Withdrawn
	Exam Request	FER					
CSE	23	2	4	1	2	1	5+2
IT	20	2			1		2
CSE&IT	9						7
ECE	11		1		1		4+1
EIE	8				1		3+1
CE	2		3	1	2		
ME	5		1				3+2
EEE	6	1					2+1
MCA	11						
MBA	3						
Maths	3						
Phy	1						
Che	3						
<b>Total</b>	<b>105</b>	<b>5</b>	<b>9</b>	<b>2</b>	<b>7</b>	<b>1</b>	<b>26+7</b>

- No granting of patents in ME, EEE in Engineering; MBA, MCA, Maths, Physics, Chemistry & Eng in non-engineering depts.
- No patent commercialization so far.
- **Granted: Published = 7 : 162 => 1:23**  
or
- **% of granting = 4%**
- Weightage in NIRF: Published : Granting = 25:75

Note: Data 2014-15 to till date; verified in official site <https://ipindia.gov.in/> based on the data received from the depts



## **B) Issues open for discussion**

### **1) Attention on improving 'Granting of Patents' then commercialization**

#### **Observations on personal interaction with Patent claimants**

- Most of the patents (32) published belongs to one person in CSE & IT
- No / little interest in the faculty for follow up after publication for their FER
- Difficulty / quality of work may be the reason for not facing FER & granting compared to publishing.
- Several patents are as first / second / third claimants from outside Institutions.
- Few faculty having Patents, left the Institution.

**The ultimate aim of patent filing is Granting & Commercialization**



## **B) Issues open for discussion**

### **1) Attention on improving 'Granting of Patents' then commercialization**

#### **Status of utility patents after their publication**

- Not Requested For Exam : 105
- Not filed Responses for FER : 5
- Abandoned & withdrawn: 33
- Refused after FER : 1
- FER Replied & waiting for Result : 9
- Hearing Completed & Waiting for Result : 2

#### **Recommendations**

- Case to case review at dept level under the guidance of HoD at regular intervals.
- Filing max patents by our faculty as first claimant.
- Appointing patent expert / advisor for guidance to the claimants till the Granting / Commercialization.
- Inviting suggestions from Heads & challenges facing by claimants, for improvement.
- Monitoring of patents on regular basis in Depts.



## B) Issues open for discussion

### 2) Academic Bank of Credits - Implementation

#### Academic Bank of Credit (ABC) – NEP 2020

“An Academic Bank of Credits (ABC) would digitally store the academic credits earned by students in various recognized HEIs so that the degrees from an HEI can be awarded taking into account credits earned”

*AICTE has established the Academic Bank of Credits (ABC) portal on the lines of the National Academic Depository (NAD).*

#### Academic Bank of Credits Platform

- Academic Bank of Credits website: [www.abc.gov.in](http://www.abc.gov.in).
- HEIs & Students can open their ABC accounts
- Account holders get a unique ID & access
- Credits valid for seven years
- used, or redeemed Credits earned by a student cannot be re-used

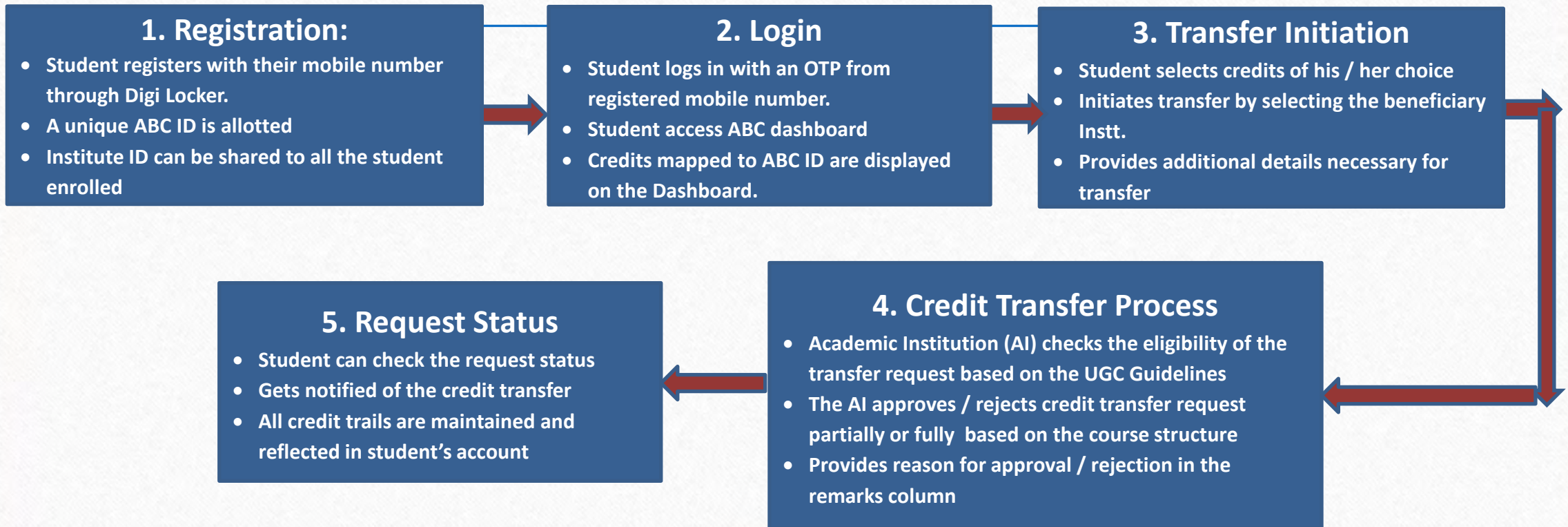
➤ VRSEC ID – NAD041763



## B) Issues open for discussion

### 2) Academic Bank of Credits - implementation

#### Student Registration & Credit Transfer on ABC





## B) Issues open for discussion

### 2) Academic Bank of Credits - implementation

#### APSCHE - Call for Action to HEIs and Timelines

- Registration on ABC ([www.abc.gov.in](http://www.abc.gov.in)) .....**26<sup>th</sup> June 2023**

---

- Formation of ABC Cell in HEI .....**30<sup>th</sup> June 2023**
- Appoint ABC 'Nodal Officer' and share his Phone Number & Official email on institution's website.
- Create a hyperlink of [www.abc.gov.in](http://www.abc.gov.in) on your institution's website.
- Conduct of awareness programs to students and creating ABC ID for all Students.....**15<sup>th</sup> July 2023** for 2<sup>nd</sup> & 3<sup>rd</sup> Year students. Be an ongoing event for new batches of students.
- Conduct of awareness programs to admitted students and creating ABC ID for all .....**30<sup>th</sup> July.**
- Upload the mark sheets records with ABC ID for all the students who have appeared for the exams since 2021....**30<sup>th</sup> Sept. 2023**



---

Any other item with the permission of  
Chairman

---

THANK YOU