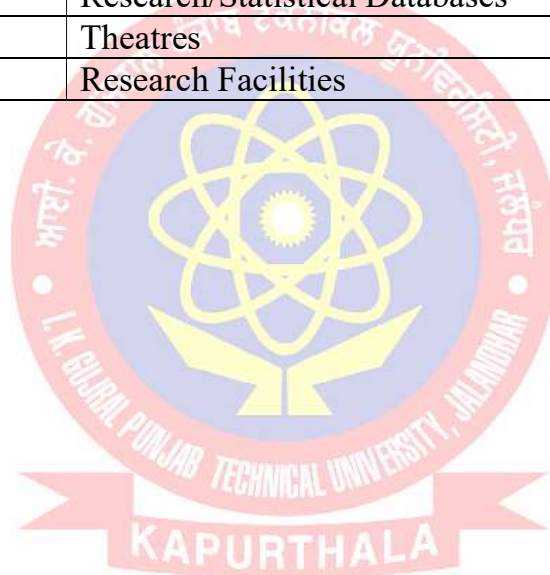


## Supporting Documents

### 3.1.5

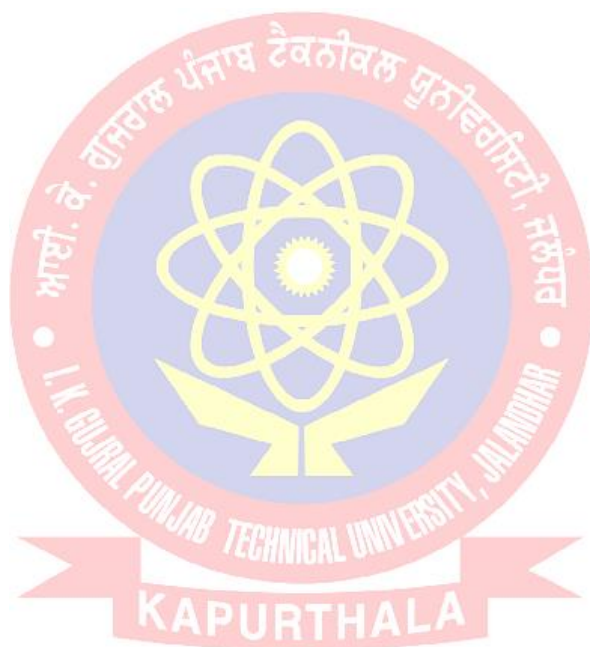
### Facilities to Support Research in the Institution

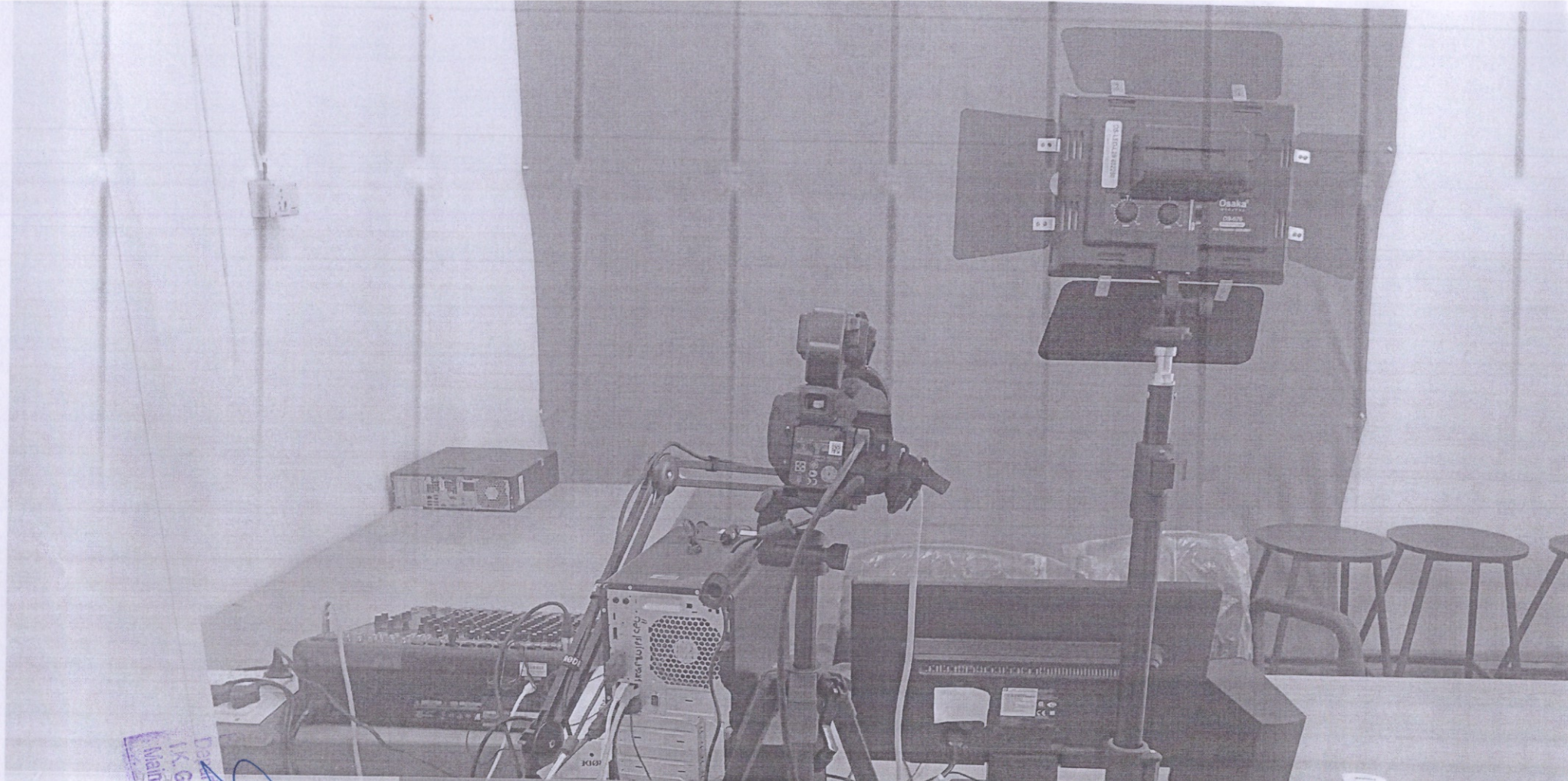
Sl. No.	Facilities Available
1.	Media Laboratory/Studios
2.	Research/Statistical Databases
3.	Theatres
4.	Research Facilities



## Link- Media Laboratory/Studios

Sl. No.	Item	Link
1.	Media Laboratory/Studios	<a href="http://ptu.ac.in/naac-data/Criterion-3/3.1.5/4-Studio-Physical-Sciences.mp4">ptu.ac.in/naac-data/Criterion-3/3.1.5/4-Studio-Physical-Sciences.mp4</a>





Department of Physical Sciences  
I.K. Gujral Punjab Technical University  
Main Campus

9F27+J7H, Rasulpur, Punjab 144002, India

Rasulpur  
Punjab  
India

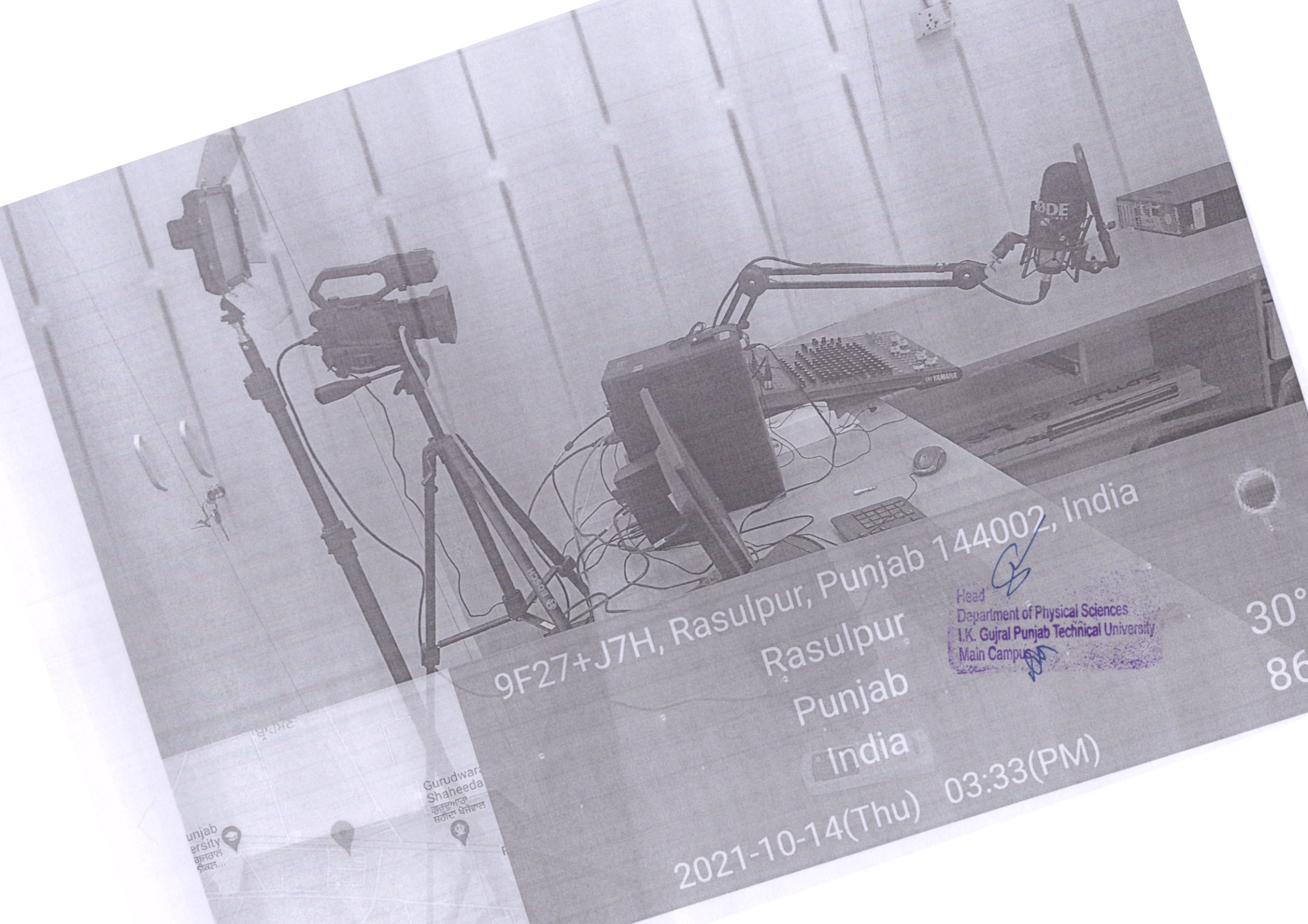
30°C  
86°F

2021-10-14(Thu) 03:36(PM)

unjab  
ersity  
ਗੁਜਰਾਲ  
ਨੀਵਲ...

Gurudwar  
Shaheeda  
ਗੁਰਦੁਆਰਾ  
ਸ਼ਹੀਦਾ ਖੇਜੇਵਾਲ

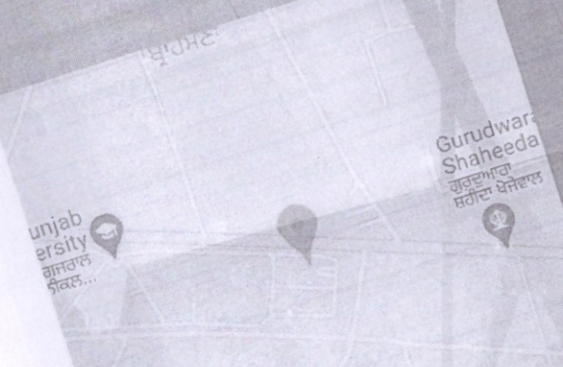
RAM CHANDRA  
MISSION...  
Google



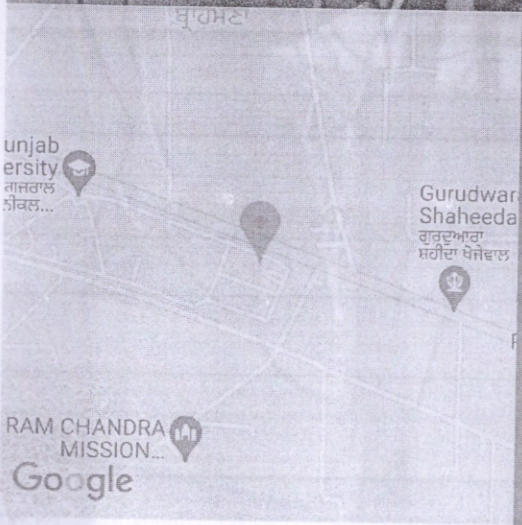
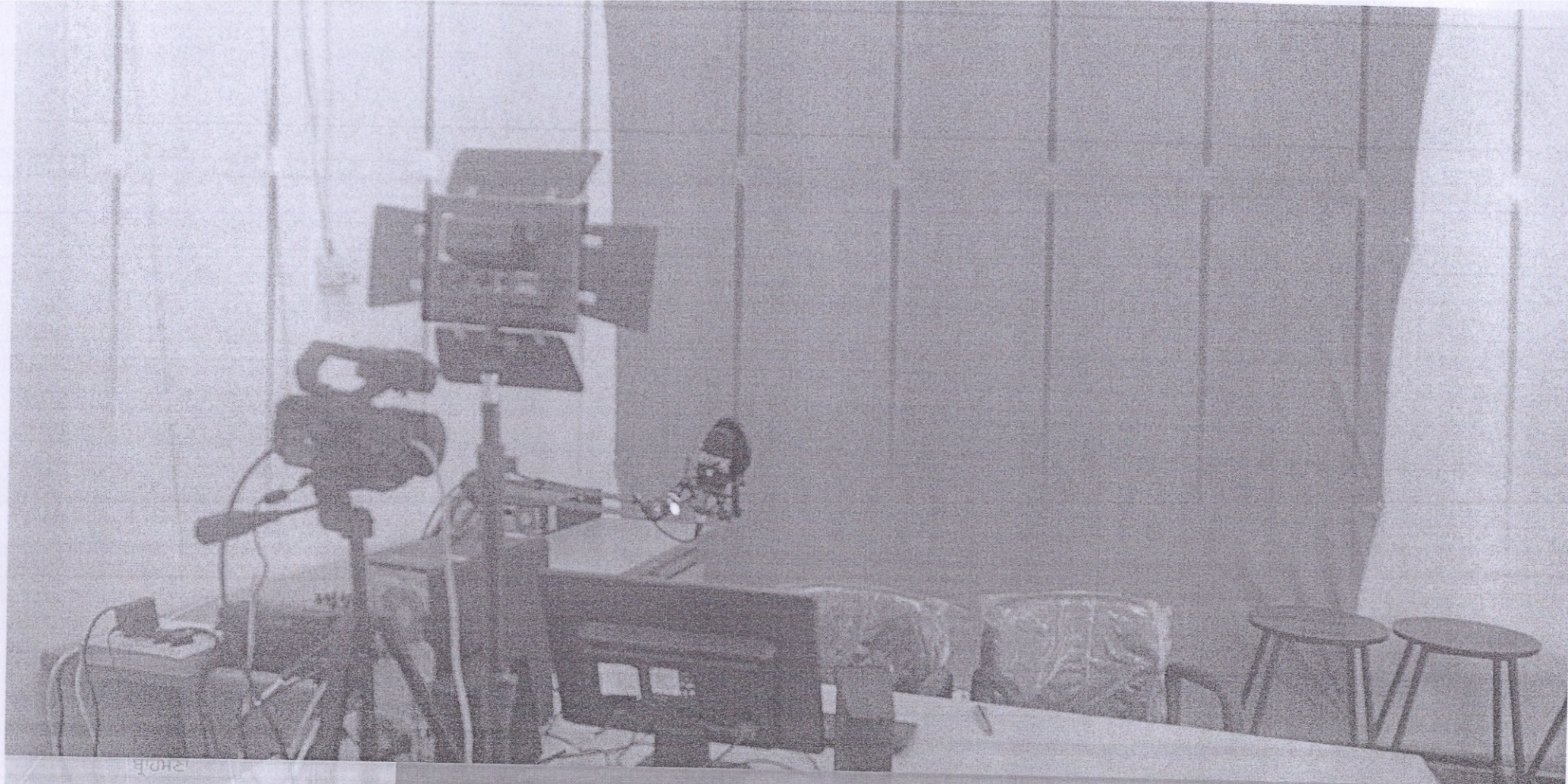
9F27+J7H, Rasulpur, Punjab 144002, India  
Rasulpur  
Punjab  
India

Head  
Department of Physical Sciences  
I.K. Gujral Punjab Technical University  
Main Campus

2021-10-14(Thu) 03:33(PM)



30°  
86



9F27+J7H, Rasulpur, Punjab 144002, India

Rasulpur  
Punjab  
India

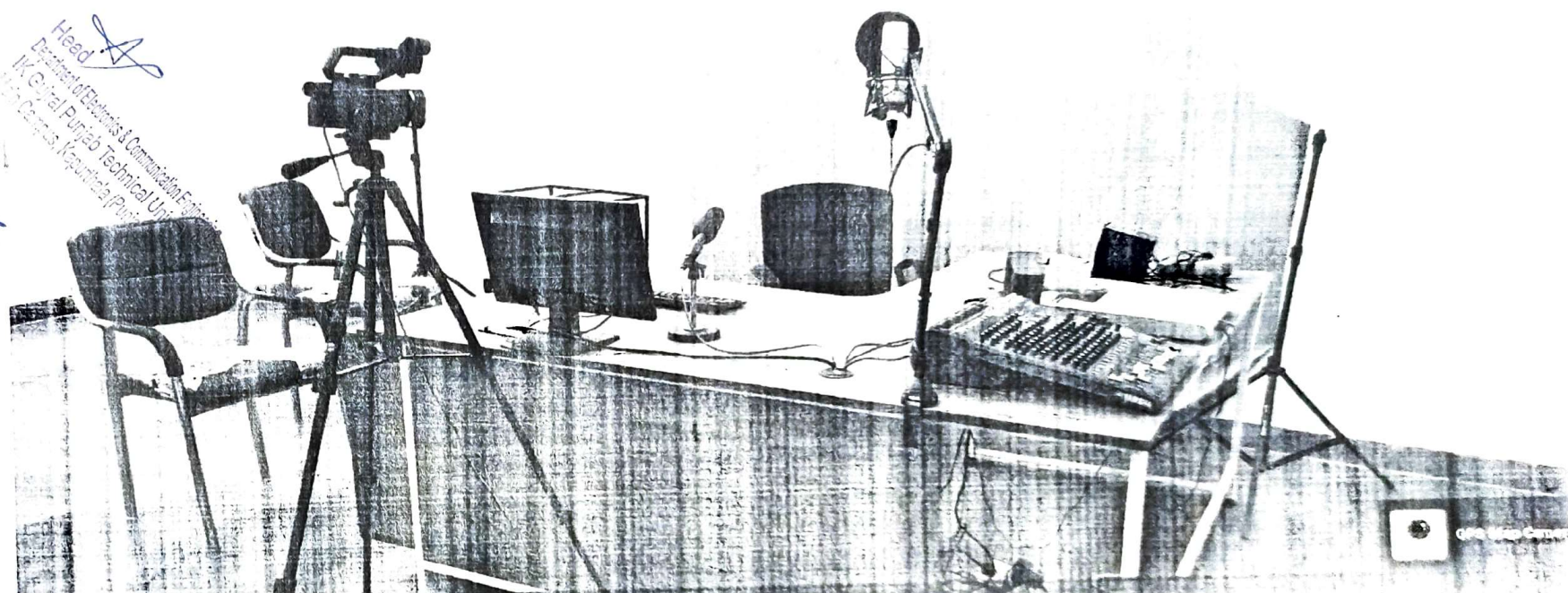
Head  
Department of Physical Sciences  
I.K. Gujral Punjab Technical University  
Main Campus

2021-10-14(Thu) 03:29(PM)

30°C  
86°F

# Lecture Recording Studio

Head  
Department of Electronics & Communication Engineering  
JK Group of Institutions Technical University  
Jalandhar, Punjab, India



Know  
Pin

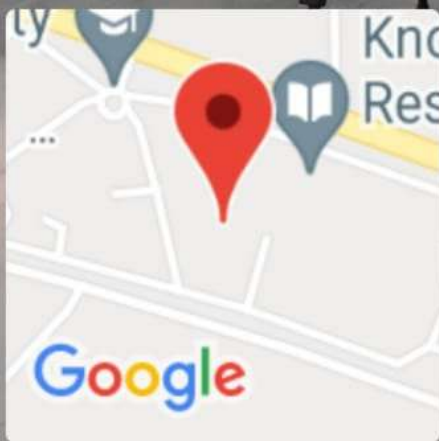
Rasulpur, Punjab, India  
9F26+R4R, Rasulpur, Punjab 144002, India  
Lat 31.352176°  
Long 75.459863°  
21/09/21 03:07 PM

Location

# Lecture Recording Studio



GPS Map Camera



**Rasulpur, Punjab, India**  
**9F26+R4R, Rasulpur, Punjab 144002, India**  
**Lat 31.352176°**  
**Long 75.459863°**  
**21/09/21 03:07 PM**

**Research/Statistical Databases**





3.1.5 Institution has the following facilities to support research.

Sr. No.	Name of the Facility	YES/ NO	Year of Establishment.	
			Starting Year	Ending Year
6.	Research/ Statistical Databases	Yes	2010	2023 Archive available

The detail of Research/ Statistical Databases available is as below:-

Sr. No.	Name of the Facility Research/ Statistical Databases	Year of Establishment	
		Starting Year	Ending Year
1.	DELNET	2010	2023
2.	Elsevier e-Books	2014	2023
3.	Emerald	2013	2020
4.	IOP	2018	2018
5.	Springer Nature	2018	2019
6.	Taylor & Francis	2018	2020
7.	Royal Society of Chemistry	2018	2019
8.	ASTM Standards & Digital Library	2011	2014
9.	Elsevier eJournals	2014	2020
10.	Gale Cengage	2012	2017
11.	IEEE	2015	2020
12.	Open Athens (Remote Access Facility)	2015	2020
13.	Indiastat	2017	2019
14.	APS	2017	2017
15.	ACS	2017	2017
16.	EBSCO: Discovery Service	2019	2020
17.	Knimbus Mobile Application	2018	2019
18.	EBSCO: Business Source Ultimate	2019	2020
19.	ASCE	2019	2020
20.	BIS Standards	2019	2020
21.	Project Muse	2019	2019
22.	JSTOR	2019	2020
23.	National Digital Library (NDL)	2019	2023
24.	Directory of Open Access Journals	2020	2023
25.	Plagiarism check Urkund by Infflibnet	2018	2023
26.	Plagiarism check Turnitin	2016	2021

Prepared by: -

Checked by:-

Deputy Librarian  
I.K. Gujral Punjab Technical University  
Jalandhar

## Key Indicator: 3.1 Promotions of Research and Facilities.

### Metric No. 3.1.5

The screenshot shows a web browser window with the URL <https://www.emerald.com/insight/publication/issn/1362-0436/vol/24/iss/7>. The page features a navigation bar with links for "Browse our content", "Publish with us", "My products", "Register for a profile", "Cart", and a "Login" button. A search bar is present with the placeholder text "Enter your search terms here" and an "Advanced search" button. The main content area displays the journal title "Career Development International: Volume 24 Issue 7" and the subject "HR & organizational behaviour Training & development Career development/promotion". There is a "Subscribe to table of contents alerts" button and an "RSS feed" link. A "Table of contents" section is visible, listing the article "The careers of university professional staff: a systematic literature review" with a link to the "HTML" version. On the right side, there is a graphic with the text "Career Development International" and a stylized image of steps leading up to a large arrow pointing right. The bottom of the browser window shows a taskbar with various application icons and a system tray displaying the time "11:34 AM" and date "31-May-23".

(Screen shot of Emerald Management eJournals)

*[Signature]*  
Deputy Librarian  
I.K. Gujral Punjab Technical University  
Jalandhar

## Key Indicator: 3.1 Promotions of Research and Facilities.

### Metric No. 3.1.5

The screenshot shows the IOPscience website interface. At the top, the browser address bar displays the URL: <https://iopscience.iop.org/issue/1555-6611/28/11>. The page header includes the IOPscience logo and navigation links for Journals, Books, Publishing Support, and Login. The main content area is titled "Laser Physics" and features a "Table of contents" section for Volume 28, Number 11, November 2018. A "Topical Review" section is highlighted, titled "Laser methods in chemistry, biology, medicine and ecology". A featured article is listed: "Comparative evaluation of low-level laser therapy and nanometric calcium phosphate desensitizing agent on cervical dentin hypersensitivity—a case report" with the identifier 113001. The authors are Ariani T S de Araujo, André A Elossais, Ana C P Barros, Keren C F Jordão-Basso, Rafael W C Manso, Alessandra N S Rastelli and Marcelo F Andrade. Below the article title are links for "Open abstract", "View article", and "PDF". On the right side, a "JOURNAL LINKS" menu lists various options such as "Submit an article", "About the journal", "Editorial Board", "Author guidelines", "Review for this journal", "Publication charges", "News and editorial", "Journal collections", and "Contact us". At the bottom of the page, a cookie notice states: "This site uses cookies. By continuing to use this site you agree to our use of cookies. To find out more, see our [Privacy and Cookies policy](#)." The Windows taskbar at the bottom shows the system clock as 11:31 AM on 31-May-23.

(Screen shot of IOP eJournals)

  
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I.K. Gujral Punjab Technical University  
Jalandhar

## Key Indicator: 3.1 Promotions of Research and Facilities.

### Metric No. 3.1.5

The screenshot shows a web browser window with the SpringerLink website. The address bar displays the URL: <https://link.springer.com/journal/10115/volumes-and-issues/56-3>. The page header includes the SpringerLink logo, a search bar, and a 'Log in' link. The main content area features a banner for 'Knowledge and Information Systems: An International Journal'. Below the banner, there is a breadcrumb trail: 'Knowledge and Information Systems > Volumes and issues > Volume 56, issue 3'. A search bar is provided for searching within the journal. A notification box states 'You have access to our articles'. The 'For authors' section lists links for 'Submission guidelines', 'Language editing services', 'Ethics & disclosures', 'Open Access fees and funding', and 'Contact the journal'. The main article preview shows the journal cover for 'Volume 56, issue 3, September 2018' with '9 articles in this issue'. The Windows taskbar at the bottom shows the system tray with the date '31-May-23' and time '11:30 AM'.

(Screen shot of Springer Nature eJournals)

*NJ*  
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I.K. Gujral Punjab Technical University  
Jalandhar

## Key Indicator: 3.1 Promotions of Research and Facilities.

### Metric No. 3.1.5

The screenshot shows a web browser window displaying the Taylor & Francis Online journal page. The browser's address bar shows the URL: <https://www.tandfonline.com/doi/full/10.1080/10426914.2017.1415449>. The page header includes the Taylor & Francis Online logo, the text "Access provided by I.K. Gujral Punjab Technical University", and navigation links for "Log in", "Register", and "Cart". The breadcrumb trail reads: Home > All Journals > Materials and Manufacturing Processes > List of Issues > Volume 33, Issue 15 > Setting up the production process of dia ...

The main content area features the journal title "Materials and Manufacturing Processes" and "Volume 33, 2018 - Issue 15". A search bar prompts the user to "Enter keywords, authors, DOI, ORCID etc" and includes a "This Journal" dropdown and an "Advanced search" button. Below the journal information are buttons for "Submit an article" and "Journal homepage".

The article details section shows "263 Views" and "2 CrossRef citations to date". The article title is "Setting up the production process of diatomite-based ceramic foams" by Barbara Galzerano, Letizia Verdolotti, Ilaria Capasso & Barbara Liguori. It includes publication information: "Pages 1648-1653 | Received 27 Sep 2017, Accepted 29 Nov 2017, Published online: 21 Dec 2017". A "Listen" button is present. A "Full access" indicator is visible in the top right.

Navigation options include "Download citation" with the DOI link <https://doi.org/10.1080/10426914.2017.1415449> and a "Check for updates" button. A menu bar at the bottom of the article offers options: "Full Article", "Figures & data", "References", "Citations", "Metrics", "Reprints & Permissions", and "View PDF".

The "ABSTRACT" section is partially visible. The Windows taskbar at the bottom shows the system tray with the date "31-May-23" and time "11:40 AM".

(Screen shot of Taylor & Francis eJournals)

  
Deputy Librarian  
I.K. Gujral Punjab Technical University  
Jalandhar

## Key Indicator: 3.1 Promotions of Research and Facilities.

### Metric No. 3.1.5

The screenshot shows the Royal Society of Chemistry (RSC) website for the journal *Analyst*. The browser address bar displays the URL: <https://pubs.rsc.org/en/journals/journalissues/an#iissueid=an143012&type=current&issnprint=0003-2654>. The website header includes navigation links for Publishing, Journals, Books, and Databases, along with the RSC logo and the text "ROYAL SOCIETY OF CHEMISTRY". A note indicates "Network access provided by: I. K. Gujral Punjab Technical University".

The main content area features a large "Analyst" title and a "View all journals" link. Below this, there are tabs for "Recent Articles", "Published Issues", and "Themed Collections". Under "Published Issues", there are links for "Previous Issue", "View Latest Issue", and "Next Issue". Two issue covers are displayed, with the following details:

- Analyst**  
21 June 2018, Issue 12,  
Page 2707 to 2924

To the right, the "About Analyst" section provides the following information:

- The home of premier fundamental discoveries, inventions and applications in the analytical and bioanalytical sciences
- Editor-in-chief: Norman Dovichi
- Impact factor: 5.227
- Time to first decision (peer reviewed only): 26 days

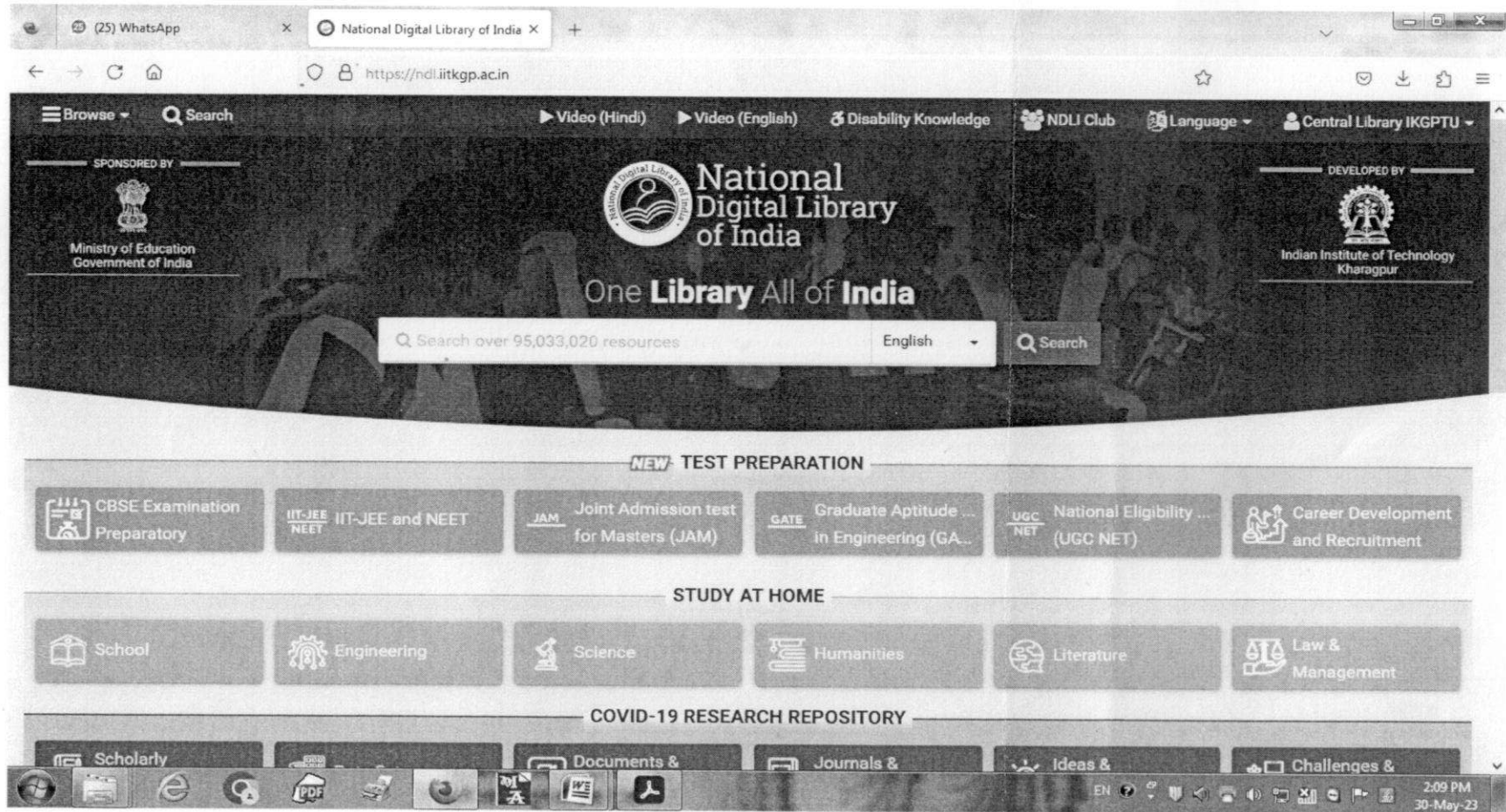
A "Submit your article" button is visible, with the text "Opens in new window" and a pencil icon. At the bottom left, it says "29 items". The Windows taskbar at the bottom shows the time as 11:44 AM on 31 May 23.

(Screen shot of Royal Society of Chemistry eJournals)

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Key Indicator: 3.1 Promotions of Research and Facilities.

Metric No. 3.1.5



(Screen shot of National Digital Library Login Page)

*Jy*  
Deputy Librarian  
I.K. Gujral Punjab Technical University  
Jalandhar

# Key Indicator: 3.1 Promotions of Research and Facilities.

## Metric No. 3.1.5

The screenshot shows the DOAJ website interface. At the top, there is a navigation bar with the DOAJ logo (OPEN GLOBAL TRUSTED) and links for SUPPORT, APPLY, and SEARCH. Below this is a secondary navigation bar with SEARCH, DOCUMENTATION, ABOUT, and LOGIN. The main content area features a search bar with the text 'Journals' and a dropdown menu set to 'All fields'. Below the search bar is a 'SHARE OR EMBED' button. The search results section displays '19,371 indexed journals'. On the left, there are filters for 'SEE JOURNALS...' (Without fees, With a DOAJ Seal, Author retains all rights) and 'SUBJECTS'. On the right, there are options for 'Sort by' (Added to DOAJ (newest first)), 'Results per page' (50), and navigation links for 'First', 'Prev', 'Page 1 of 388', and 'Next'. A specific journal entry is visible: 'Revista Higía de la Salud', published by Instituto Superior Universitario Portoviejo in Ecuador. A footer message states 'This website uses cookies to ensure you get the best experience. Learn more about DOAJ's privacy policy.' and a 'HIDE THIS MESSAGE' button. The Windows taskbar at the bottom shows the system clock at 2:12 PM on 30-May-23.

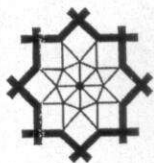
(Screen shot of Directory of Open Access Journals)

*M. J.*  
Deputy Librarian  
I.K. Gujral Punjab Technical University  
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No.: Receipt No./70082/2022-23

Dated 30-May-22



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Inter Bank Transfer N144221060541380 24-May-22 19,470.00

Remarks : **AMOUNT RECEIVED TOWARDS ADMISSION FEE & ANNUAL INSTITUTIONAL  
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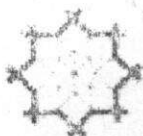
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Dated 10-Oct-2019



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Inter Bank Transfer 102761902943514000 3-Oct-2019 **13,570.00**

Remarks : **AMOUNT RECEIVED TOWARDS ANNUAL INSTITUTIONAL MEMBERSHIP FEES  
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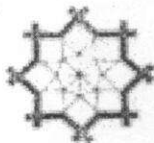
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Jalandhar**

Auth: \_\_\_\_\_ ory



No.: Receipt No./53429/2018-19

Dated 15-Oct-2018



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[www.delnet.nic.in](http://www.delnet.nic.in)

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NZ791800649178393

6-Oct-2018

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Remarks : **AMOUNT RECEIVED TOWARDS ANNUAL INSTITUTIONAL MEMBERSHIP FEES  
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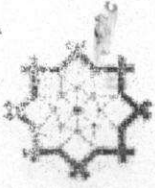
**\*\*Subject to Realisation**

  
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Jalandhar

  
Authorised Signatory

Receipt No./48734/2017-18

Dated 7-Oct-2017



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Delhi - 110070, India  
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*Kamal*  
*M.H.*

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(DELNET MEMBERSHIP NO. IM-1971)**

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By : **INDER KUMAR GUJRAL PUNJAB TECHNICAL UNIVERSITY  
Inter Bank Transfer**

10276170378600671

3-Oct-2017

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FOR THE PERIOD 18-10-2017 TO 17-10-2018**

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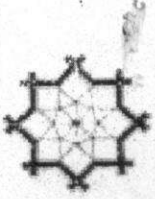
**\*\*Subject to Realisation**

*M.H.*  
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Jalandhar

Auth.  ory

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Dated 9-Nov-2016



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*Kamal*  
*44*

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PUNJAB  
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By : Inter Bank Transfer N25816018729056 14-Sep-2016 **11,500.00**  
Remarks : **AMOUNT RECEIVED TOWARDS ANNUAL INSTITUTIONAL MEMBERSHIP FEES  
FOR THE PERIOD 18-10-2016 TO 17-10-2017**

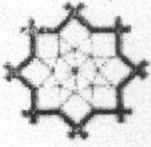
**\*\*₹ 11,500.00/-**

*44*  
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I.K. Gujral Punjab Technical University  
Jalandhar

Auth:  :ory *P.T.C*

No.: Receipt No./39938/2015-16

Dated 21-Aug-2015



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**PUNJAB**  
**(DELNET MEMBERSHIP NO. IM-1971)**

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By : Inter Bank Transfer N23215008980441 20-Aug-2015 11,500.00  
Remarks : **AMOUNT RECEIVED TOWARDS ANNUAL INSTITUTIONAL**  
**MEMBERSHIP FEES FOR THE PERIOD 18-10-2015 TO 17-10-2016**

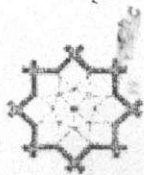
\*\*₹ 11,500.00/-

  
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Jalandhar

Autl  tory

No.: Receipt No./35392/2014-15

Dated 5-Jul-2014



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New Delhi

*Ramal*  
*HW*

## RECEIPT

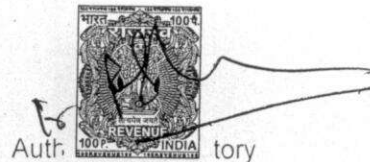
Received with thanks from : **PUNJAB TECHNICAL UNIVERSITY**  
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**POST BOX NO.1**  
**NEAR PUSHPA GUJRAL SCIENCE CITY**  
**KAPURTHALA-144601**  
**PUNJAB**  
**(DELNET MEMBERSHIP NO. IM-1971)**

The sum of : **Indian Rupees Eleven Thousand Five Hundred Only**

By : Cheque/DD CH 000118 24-Jun-2014 11,500.00  
Remarks : **AMOUNT RECEIVED TOWARDS ANNUAL INSTITUTIONAL**  
**MEMBERSHIP FEES FOR THE PERIOD 18-10-2014 TO 17-10-2015**

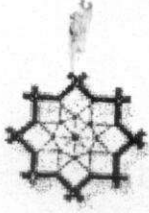
\*\*₹ 11,500.00/-

*JK*  
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Jalandhar



No.: Receipt No./32363/2013-14

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**KAPURTHALA-144601**  
**PUNJAB**  
**(DELNET MEMBERSHIP NO. IM-1971)**

The sum of : **Indian Rupees Eleven Thousand Five Hundred Only**

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Book • 2012

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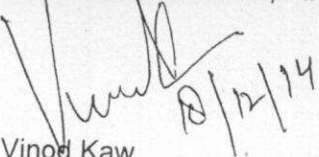
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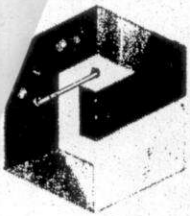
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	Online Access	11 / 0 12 / 0					
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Email: [journalsales@tandfindia.com](mailto:journalsales@tandfindia.com) | [online.resources@informa.com](mailto:online.resources@informa.com)  
[www.TandFindia.com](http://www.TandFindia.com)

CIN: U22112DL2004PTC131487



**Resource Name:** Taylor & Francis

**Brief Description:**

Taylor and Francis is the oldest commercial journals publisher in the world, and one of the leading global academic publishers. Taylor & Francis Group publishes more than 1900 journals and around 1,800 new books each year. It is a widely known publisher among researchers, students, academics and increasingly professionals.

**Negotiated Rates for 2019:**

- T&F 1076 Titles collection for University (Applicable only to existing universities funded by UGC/MHRD) : US\$ 6,696.00
- T&F 1076 Titles collection for University (Non funded UGC/MHRD) : US\$ 8,654.00

Perpetual access to paid for years  
Backfiles access to last 20 years

• **Taylor & Francis for CFTIs**

Type	Rates for 2019
CFTIs	3.00% increase over 2018 rates for Existing collection

GST Extra

**Contact Person Name, email address & phone number:**

Informa UK Limited  
Mortimer House  
37-41 Mortimer Street  
London W1T 3JH UK

Taylor & Francis Books India Pvt. Ltd. (India Office)  
2nd & 3rd floor , The National Council of YMCAs of India  
1, Jai Singh Road  
New Delhi 110001 INDIA

Contact Person : Ms. Neeti Verma / Mr. Onkar Verma  
Phone : +91-11-43155118  
Fax : +91-11-23342132  
E-mail: Neeti.Verma@tandfindia.com / onkar.verma@tandfindia.com



To  
Knowledge Resource Centre  
I.K. Gujral Punjab Technical University,  
Jalandhar- Kapurthala National Highway,  
Near Pushpa Gujral Science City,  
Kapurthala- 144603 (Punjab)

18<sup>th</sup> December 2018

**Subject: Acknowledgement of payment for Taylor & Francis Package Order**

Dear Sir,

Many thanks for your email, we are pleased to inform you that we have received the payment as per the details given below:

Purchase Order	Payment	Amount
Invoice No. IKGPTU/2018/0201 Dated: 28.05.2018	Through Wire Transfer	\$7528.25

TDS has been deducted from the said amount. As soon as you will receive the TDS certificate from your finance department, please provide the same.

Thanks for your order and payment.

Yours sincerely,

Onkar Verma  
Manager- Journals & Online Resources  
Taylor & Francis Group



**Resource Name:** Taylor & Francis

**Brief Description:**

Taylor and Francis is the oldest commercial journals publisher in the world, and one of the leading global academic publishers. Taylor & Francis Group publishes more than 1600 journals and around 1,800 new books each year. It is a widely known publisher among researchers, students, academics and increasingly professionals.

**Negotiated Rates:**

- T&F 1076 Titles collection for University (Applicable only to existing universities funded by UGC/MHRD) : US\$ 6,501.12
- T&F 1076 Titles collection for University (Non funded UGC/MHRD) : US\$ 8,402.07

Perpetual access to paid for years  
Backfiles access to last 20 years

- Taylor & Francis for CFTIs

Type	Rates for 2018
CFTIs	Considered, but not negotiated*

\* Institutions may negotiate and subscribe the resources directly from publishers by its own for the year 2018

GST Extra

**Contact Person Name, email address & phone number:**

Informa UK Limited  
Mortimer House  
37-41 Mortimer Street  
London W1T 3JH UK

Taylor & Francis Books India Pvt. Ltd. (India Office)  
2nd & 3rd floor , The National Council of YMCAs of India  
1, Jai Singh Road  
New Delhi 110001 INDIA

Contact Person : Ms. Neeti Verma / Mr. Onkar Verma  
Phone : +91-11-43155118  
Fax : +91-11-23342132  
E-mail: Neeti.Verma@tandfindia.com / onkar.verma@tandfindia.com

# SPRINGER NATURE GROUP

Springer Nature AG & Co. KGaA  
Heidelberger Platz 3  
14197 Berlin  
Postfach 14 02 01  
14302 Berlin  
T +49 30 82787 - 0  
[springernature.com](http://springernature.com)

Springer Nature AG & Co. KGaA, Postfach 14 02 01, 14302 Berlin

I.K.Gujral Punjab Technical University  
Kapurthala National Highway  
KAPURTHALA 144603 Punjab PB03  
India

**Silke Kowalski**  
Team Lead Credit Control  
Credit Control & Collections  
T +49 30 827 87- 5289  
[Silke.Kowalski@springernature.com](mailto:Silke.Kowalski@springernature.com)

23<sup>rd</sup> of April, 2021

Your Account with us: 3003350874

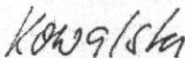
Dear Sir or Madam,

We refer to our invoice no 2935264290 for the amount of EUR 12,007.00 for

- *Springer Journals - Continuing Access academic*

The above mentioned invoice has been paid with the deduction of 10.04 % TDS (EUR 1,248.73).  
We request you to provide the relevant TDS certificate (Form No. 16A) to us.

Kind regards,



Silke Kowalski  
Team Lead Credit Control

Springer Nature AG & Co. KGaA  
Sitz: Berlin / Amtsgericht Berlin-Charlottenburg, HRB 195463 B  
Persönlich haftender Gesellschafter: Springer Nature Management AG  
Sitz: Berlin / Amtsgericht Berlin-Charlottenburg, HRB 188032 B  
Vorstand: Franciscus Vrancken Peeters (Vorsitzender), Martin Mos, Dr. Ulrich Vest, Rachel Jacobs, Steven Inchcoombe, Carolyn Honour  
Aufsichtsratsvorsitzender: Dr. Stefan von Holtzbrinck



**Resource Name:** Springer Nature

**Brief Description:**

Springer-Nature is the leading global scientific publisher, delivering quality content through innovative information products and services. It publishes 2,000 journals with coverage in 6 main publishing fields are science, technology, medicine, architecture, business and transport.

**Negotiated Rates for 2019:**

**For AICTE Institutions (Access Only)**

- Springer 1 Subject Collection : € 1,523.00
- Springer 3 Subject Collection : € 2,538.00
- Springer 5 Subject Collection : € 5,583.00

Each institute will be entitled to select title(s) worth the paid value towards continuing access for the paid for year.

Each paying institute will be entitled to choose any 10 title without additional cost outside the opted collection(s) on access only.

**For All Institutions:**

**1700+ Springer Journals + 1 Nature Journal**

- Tier I (IISc, IITs, IISERs) : € 66,079.00
- Tier II (Central Universities) : € 39,023.00
- Tier III (NITs, SLIET & NERIST, IUCs of UGC, Deemed Universities (UGC funded), IITs, IIST, NITIE, NIFFT and NITTTR, 12 (B) / 2 (f) State Universities : € 12,007.00
- Indian Institute of Management : € 21,823.00

**Note: Rates for Private institution is subject to publisher's confirmation.**

**Additional Discount Applicable for Newly Established Institutions:**

- Year 1 of institute establishment : 50% of offered Price in respective Tier
- Year 2 of institute establishment : 40% of offered Price in respective Tier
- Year 3 of institute establishment : 30% of offered Price in respective Tier
- Year 4 of institute establishment : 20% of offered Price in respective Tier
- Year 5 of institute establishment : Offered Price in respective Tier

**Palgrave Journal Package (45 Journals)**

All Category of Institutions : € 12,143.00

**Nature & Academic Journals**

- Nature main Title (1 Journal) : £ 1,694.00
- Scientific American : £ 766.00

**Individual Title Discount for Nature & Academic Journals (Pick-n-Choose):**

- Nature Branded Titles and Academic Journals on nature.com: 1.5% Increase on 2018 holdings (For Renewals only)

Existing/New Subscribers:									
Other Nature Branded Titles and Academic Journals on nature.com - Newly added titles ONLY									
Currency: GBP (List price As per Annexure - 1)									
# of Titles to add			1-4	5-9	10-18	19-27	28-36	36-43	44-48
Max in Band			4	9	18	27	36	43	48
	Bottom of band	Top of band	Max Dis	Max Dis	Max Dis	Max Dis	Max Dis	Max Dis	Max Dis
Small	1	499	20%	25%	30%	35%	40%	45%	50%
Medium	500	1999	30%	35%	40%	45%	50%	55%	60%
Large	2000	5000	32%	37%	42%	47%	52%	57%	62%
Tier									
Small	NITs, SLIET & NERIST, IUCs of UGC, Deemed Universities (UGC funded), IITs, IEST, NITIE, NIFTT and NITTTR, 12 (B) / 2 (f) State Universities								
Medium	Central Universities, IISERs & IITs								
Large	IISc & Old IITs								

GST Extra as Applicable

**Country of Origin of the Resource:** Germany

**Contact Person Name, email address & phone number:**

Mr. Vikash Kumar  
Springer Nature  
Springer (India) Private Limited  
7th Floor, Vijaya Buiding, 17 Barakhamba Road, New Delhi 110 001  
Email: Vikash.Kumar@springernature.com

**Purchase Order to be Placed to:**

Springer Nature Customer Service Center GmbH  
Tiergartenstraße 15-17  
69126 Heidelberg  
Germany

Revised on 31-01-2019

Downloaded on 02/06/2023

In case of any discrepancy please contact at [eshodhsindhu@inflibnet.ac.in](mailto:eshodhsindhu@inflibnet.ac.in)

Annexure -1 : List Price for Nature Branded Titles and Academic Journals on nature.com

List Price in GBP (2019)			
Nature Branded Titles	Small	Medium	Large
Nature Reviews Cancer	2,262	3,009	3,620
Nature Reviews Cardiology	2,159	2,872	3,454
Nature Reviews Chemistry	2,473	3,289	3,957
Nature Reviews Clinical Oncology	2,159	2,872	3,454
Nature Reviews Disease Primers	2,473	3,289	3,957
Nature Reviews Drug Discovery	2,262	3,009	3,620
Nature Reviews Endocrinology	2,159	2,872	3,454
Nature Reviews Gastroenterology & Hepatology	2,159	2,872	3,454
Nature Reviews Genetics	2,070	2,752	3,311
Nature Reviews Immunology	2,110	2,806	3,374
Nature Reviews Materials	2,473	3,289	3,957
Nature Reviews Microbiology	2,051	2,728	3,281
Nature Reviews Molecular Cell Biology	2,070	2,752	3,311
Nature Reviews Nephrology	2,159	2,872	3,454
Nature Reviews Neurology	2,159	2,872	3,454
Nature Reviews Neuroscience	2,070	2,752	3,311
Nature Reviews Physics	2,473	3,289	3,957
Nature Reviews Rheumatology	2,159	2,872	3,454
Nature Reviews Urology	2,138	2,844	3,421
Nature Astronomy	2,820	3,750	4,512
Nature Biomedical Engineering	2,820	3,750	4,512
Nature Biotechnology	2,545	3,384	4,070
Nature Catalysis	2,820	3,751	4,513
Nature Cell Biology	2,070	2,752	3,311
Nature Chemical Biology	3,113	4,140	4,980
Nature Chemistry	3,202	4,258	5,122
Nature Climate Change	2,419	3,216	3,870
Nature Ecology & Evolution	2,820	3,750	4,512
Nature Electronics	2,820	3,751	4,513
Nature Energy	2,820	3,750	4,512
Nature Genetics	2,306	3,067	3,689
Nature Geoscience	3,004	3,995	4,804
Nature Human Behaviour	2,820	3,750	4,512
Nature Immunology	2,110	2,806	3,374
Nature Machine Intelligence	2,820	3,751	4,513
Nature Materials	2,660	3,539	4,257
Nature Medicine	2,306	3,067	3,689
Nature Metabolism	2,820	3,751	4,513
Nature Methods	2,636	3,506	4,218

Revised on 31-01-2019

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In case of any discrepancy please contact at [eshodhsindhu@inflibnet.ac.in](mailto:eshodhsindhu@inflibnet.ac.in)



Titles	Small	Medium	Large
Nature Microbiology	2,820	3,750	4,512
Nature Nanotechnology	2,586	3,439	4,136
Nature Neuroscience	2,306	3,067	3,689
Nature Photonics	2,463	3,275	3,941
Nature Physics	2,586	3,439	4,136
Nature Plants	2,820	3,751	4,513
Nature Protocols	2,636	3,506	4,218
Nature Structural & Molecular Biology	2,070	2,752	3,311
Nature Sustainability	2,820	3,751	4,513
<b>Academic Journals on nature.com</b>			
Acta Pharmacologica Sinica	1,139	1,309	1,480
Bone Marrow Transplantation	1,561	1,794	2,028
British Dental Journal	1,227	1,411	1,594
British Journal of Cancer	1,254	1,442	1,630
Cancer Gene Therapy	963	963	963
Cell Death & Differentiation	974	974	974
Cell Research	1,258	1,447	1,635
Cellular & Molecular Immunology	828	828	828
European Journal of Clinical Nutrition	882	1,014	1,146
European Journal of Human Genetics	1,512	1,512	1,512
Evidence-Based Dentistry	319	367	414
Eye	795	915	1,034
Gene Therapy	1,294	1,488	1,682
Genes & Immunity	545	545	545
Genetics in Medicine	1,377	1,583	1,790
Heredity	771	771	771
Hypertension Research	553	553	553
International Journal of Impotence Research	451	451	451
International Journal of Obesity	1,182	1,360	1,537
Journal of Exposure Science & Environmental Epidemiology	888	888	888
Journal of Human Genetics	760	760	760
Journal of Human Hypertension	745	745	745
Journal of Perinatology	396	396	396
Lab Animal	1,344	1,546	1,747
Laboratory Investigation	800	921	1,041
Leukemia	1,682	1,934	2,186
Modern Pathology	764	878	993
Molecular Psychiatry	1,237	1,237	1,237
Mucosal Immunology	685	685	685
Neuropsychopharmacology	2,169	2,493	2,819
Oncogene	5,060	5,819	6,577

Revised on 31-01-2019

Downloaded on 02/06/2023

In case of any discrepancy please contact at [eshodhsindhu@inflibnet.ac.in](mailto:eshodhsindhu@inflibnet.ac.in)

Titles	Small	Medium	Large
Pediatric Research	1,050	1,208	1,366
Polymer Journal	1,242	1,427	1,614
Prostate Cancer and Prostatic Diseases	432	432	432
Spinal Cord - includes Spinal Cord Series and Cases	655	655	655
The ISME Journal	799	919	1,038
The Journal of Antibiotics	677	677	677
The Pharmacogenomics Journal	1,181	1,181	1,181

Revised on 31-01-2019

Downloaded on 02/06/2023

In case of any discrepancy please contact at [eshodhsindhu@inflibnet.ac.in](mailto:eshodhsindhu@inflibnet.ac.in)

# SPRINGER NATURE

Springer Nature AG & Co. KGaA, P.O. Box 14 02 01, 14302 Berlin, Germany

I.K.Gujral Punjab Technical University  
Kapurthala National Highway  
KAPURTHALA 144603 Punjab PB03  
India

Springer Nature AG & Co. KGaA  
Heidelberger Platz 3  
14197 Berlin, Germany  
P.O. Box 14 02 01  
14302 Berlin, Germany  
T +49 30 82787 - 0  
www.springernature.com

Silke Kowalski  
Senior Credit Controller  
Credit Control & Collections  
T + 49 30 827 87 - 5289  
[Silke.Kowalski@springer.com](mailto:Silke.Kowalski@springer.com)

03<sup>rd</sup> January, 2019.

Your Account with us: 3003350874

Dear Sir or Madam,

We refer to our invoice no 2934172180 for the amount of EUR 11,830.00 for

- Springer Journals - Continuing Access academic  
Subscription: 530514835  
Subscription Period: January 2018 to December 2018
- Nature  
License Year: 01.01.2018-31.12.2018

The above mentioned invoice has been paid with 10.4% TDS (1,230.32).

We request you to provide the relevant TDS certificate (Form No. 16A) to us

Kind regards,



Silke Kowalski  
Senior Credit Controller

Springer Nature AG & Co. KGaA  
Registered Office: Berlin / Amtsgericht Berlin-Charlottenburg, HRB 195463 B  
General Partner: Springer Nature Management AG  
Registered Office: Berlin / Amtsgericht Berlin-Charlottenburg, HRB 188032 B  
Management Board: Daniel Ropers (chairman), Martin Mos, Dr. Ulrich Vest, Rachel Jacobs, Steven Inchcoombe, Franciscus Vrancken Peeters  
Chairman of the Supervisory Board: Dr. Stefan von Holtzbrinck

**Resource Name:** Springer Nature

**Brief Description:**

Springer-Nature is the leading global scientific publisher, delivering quality content through innovative information products and services. It publishes 2,000 journals with coverage in 6 main publishing fields are science, technology, medicine, architecture, business and transport.

**Negotiated Rates:**

**For AICTE Institutions (Access Only)**

- Springer 1 Subject Collection : € 1,500.00
- Springer 3 Subject Collection : € 2,500.00
- Springer 5 Subject Collection : € 5,500.00

Each institute will be entitled to select title(s) worth the paid value towards continuing access for the paid for year.

Each paying institute will be entitled to choose any 10 title without additional cost outside the opted collection(s) on access only.

**For All Institutions:**

- Nature main Title (1 Journal) : £ 1,669.00
- Scientific American : £ 755.00

**Individual Title Discount for Nature Journals**

No of Titles	Discount
--------------	----------

No of Titles	Discount
• For 1-10 titles	: 15%
• For 11-20 titles	: 25%
• For 21-30 titles	: 35%
• For 31-35 titles	: 45%
• For Academic Journals All	: 50%

**1700+ Springer Journals + 1 Nature Journal**

- Tier I (IISc, IITs, IISERs) : € 65,102.00
- Tier II (Central Universities) : € 38,446.00
- Tier III (NITs, SLIET & NERIST, IUCs of UGC, Deemed Universities (UGC funded), IIITs, IIST, NITIE, NIFFT and NITTTR, 12 (B) / 2 (f) State Universities : € 11,830.00
- Indian Institute of Management : € 21,500.00

**Rates for Private institution is subject to publisher's confirmation.**

Additional Discount Applicable for Newly Established Institutions

- Year 1 of institute establishment : 50% of offered Price in respective Tier
- Year 2 of institute establishment : 40% of offered Price in respective Tier
- Year 3 of institute establishment : 30% of offered Price in respective Tier
- Year 4 of institute establishment : 20% of offered Price in respective Tier
- Year 5 of institute establishment : Offered Price in respective Tier

**Palgrave Journal Package (45 Journals)**

All Category of Institutions : € 11,964.00

GST Extra as Applicable

Country of Origin of the Resource: Germany

Contact Person Name, email address & phone number:

Mr. Ashish Sood/ Mr. Vikash Kumar

Springer Nature

Springer (India) Private Limited

7th Floor, Vijaya Buiding, 17 Barakhamba Road, New Delhi 110 001

Email: ashish.sood@springer.com / Vikash.Kumar@springernature.com

**Purchase Order to be Placed to:**

Springer Customer Service Center GmbH

Tiergartenstraße 15-17

69126 Heidelberg

Germany

## Invoice - (Paid)

Tel: +44 (0) 1223 432398  
Email: orders@rsc.org

www.rsc.org

BILL TO: 91669

SHIP TO: 91669

I.K. Gujral Punjab Technical University  
The Registrar,  
Jalandhar-Kapurthala Highway, VPO - Ibban  
Distt. Kapurthala  
144603 Ibban  
INDIA

I.K. Gujral Punjab Technical University  
The Registrar,  
Jalandhar-Kapurthala Highway, VPO - Ibban  
Distt. Kapurthala  
144603 Ibban  
INDIA

Invoice No. RSC000025145

Invoice Date: 08-July-2019

Order	Product	Year	Qty	Order Price	Disc.	Tax	Total Paid	
627038	Package Gold minus Archive	2019	1	9,459.57	0.00	0.00	10,558.00	
TOTALS :				GBP	<u>9,459.57</u>	<u>0.00</u>	<u>0.00</u>	<u>10,558.00</u>

Payment received: 10 December 2019 - Thank you

**Resource Name:**Royal Society of Chemistry

**Brief Description:**

The Royal Society of Chemistry (RSC) is the professional body for chemists and the learned society for chemistry. It provides access to RSC Gold 2018 Excluding Archives with 51 full text journals/magazines/alerting services.

Backfiles Access: 2008  
Perpetual access for paid period

**Negotiated Rates for 2019:**

• Tier 1 (IISC & Old IIT's):	GBP 47,895.00
• Tier 2: (IISER's)	GBP 37,595.00
• Tier 3: (New IIT's)	GBP 28,840.00
• Tier 4: (NIT's & Central Univ. Estb. before 2009 )	GBP 19,261.00
• Tier 5: ( All Other Core Universities)	GBP 10,558.00

GST Extra

**Note:**

- Newly established core institutions under eSS can avail further discount of 30% on the 1st year, 20% on the 2nd year and 10% on the 3rd year on the concerned tier pricing. 4th year onwards new institutions have to pay 100% of the tier pricing of that particular year.

Private institutes will fall in one of the above tiers depending upon size of the institute and would be decided by the publisher. Please contact e-Shodh Sindhu for the same.

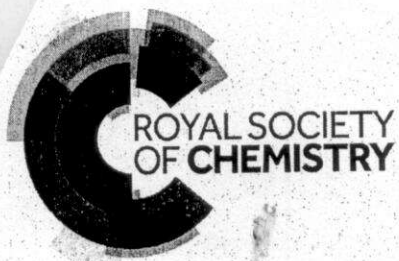
**Country of Origin of the Resource:** UK

**Complete Address for Ordering & Invoicing:**

Royal Society of Chemistry (RSC)  
Thomas Graham House,  
Science Park, Milton Road  
Cambridge, CB4 0WF  
United Kingdom

**Contact Person Name, email address & phone number:**

Appa Rao Patra  
International Sales Manager- Middle East & India  
Royal Chemistry (India) Private Limited  
Email:patraa@rsc.org  
Phone: +91 (0) 40- 40205749



Royal Society of Chemistry  
Thomas Graham House  
Science Park, Milton Road  
Cambridge, CB4 0WF, UK  
Tel: +44 (0) 1223 432398  
Email: orders@rsc.org

## Invoice - (Paid)

Bill to: 91669

I.K. Gujral Punjab Technical University  
The Registrar,  
Jalandhar - Kapurthala Highway, VPO - Ibban  
144603 Distt. Kapurthala  
INDIA

Ship to: 91669

I.K. Gujral Punjab Technical University  
The Registrar,  
Jalandhar - Kapurthala Highway, VPO - Ibban  
144603 Distt. Kapurthala  
INDIA

Invoice No. RSC000022302  
Invoice Date: 24-May-2018

Order	Product	Year	Qty	Order Price	Disc.	Tax	Total Paid	
582573	Package Gold minus Archive	2018	1	9,184.00	0.00	0.00	9,184.00	
TOTALS :				GBP	<u>9,184.00</u>	<u>0.00</u>	<u>0.00</u>	<u>9,184.00</u>

Payment received . Thank you





**Resource Name:**Royal Society of Chemistry

**Brief Description:**

The Royal Society of Chemistry (RSC) is the professional body for chemists and the learned society for chemistry. It provides access to RSC Gold 2018 Excluding Archives with 51 full text journals/magazines/alerting services.

Backfiles Access: 2008  
Perpetual access for paid period

**Negotiated Rates:**

• Tier 1 (IISC & Old IIT's)	GBP 46,500.00
• Tier 2: (IISER's)	GBP 36,500.00
• Tier 3: (New IIT's)	GBP 28,000.00
• Tier 4: (NIT's )	GBP 18,700.00
• Tier 5: (Universities)	GBP 10,250.00

GST Extra

**Note:**

- Newly established core institutions under eSS can avail further discount of 30% on the 1st year, 20% on the 2nd year and 10% on the 3rd year on the concerned tier pricing. 4th year onwards new institutions have to pay 100% of the tier pricing of that particular year.
- Existing agreement for North East Institutions will remain same for 2018

Private institutes will fall in one of the above tiers depending upon size of the institute and would be decided by the publisher. Please contact e-Shodh Sindhu for the same.

**Country of Origin of the Resource:** UK

**Complete Address for Ordering & Invoicing:**

Royal Society of Chemistry (RSC)  
Thomas Graham House,  
Science Park, Milton Road  
Cambridge, CB4 0WF  
United Kingdom

**Contact Person Name, email address & phone number:**

Appa Rao Patra  
International Sales Manager- Middle East & India  
Royal Chemistry (India) Private Limited  
Email:patraa@rsc.org  
Phone: +91 (0) 40- 40205749



Library Ptu &lt;library.ptu@gmail.com&gt;

**PF-7-05868-ASTM**

Library Ptu <library.ptu@gmail.com>  
To: gupta@bsb.co.in, bsbdel@bsb.co.in

Mon, Mar 31, 2014 at 11:03 AM

Mr. K.Gupta,  
General Manager,  
Book Supply Bureau,  
D-44, South Extension -1,  
New Delhi- 110049

Subject: **Payment regarding ASTM Standards & Engineering Digital Library (SEDL) for the year 2014.**

Dear Sir,

With reference to your Performa Invoice No. PF-7-02868-ASTM Dated: 29.11.2013. We want to renew the ASTM Standards & Engineering Digital Library for one year (Jan 14 to Dec 14) for Rs. 5,68,262/- after TDS deduction. The payment has been made through RTGS on Dated: 27.03.2014 in your HDFC Bank Account No. 0319232000016.

Sr. No.	Description	Unit Rate	Conversion	Net Amount in Rs.
01	ASTM Standards & Engineering Digital Library (SEDL) : 2014	\$ 10,143.00	Rs. 63.33	6,42,356.00

Contact us at: e-mail: library.ptu@gmail.com, Phone No. 01822-662518

**Kindly acknowledge the receipt of the same**

With kind regards.

**(Assistant Librarian)**

**Punjab Technical University  
Jalandhar**

[Quoted text hidden]



**Indian Institute of Technology Delhi**  
**Indian National Digital Library in Engineering**  
**Sciences and Technology Consortium**  
**INDEST-AICTE Consortium**



**Prof. B.D. Gupta**  
National Coordinator

February 26, 2013

Registrar,  
Punjab Technical University Jalandhar  
Jalandhar-Kapurthala Highway, Near Pushpa Gujral Science City,  
Kapurthala, Punjab, 144601

Dear Sir,

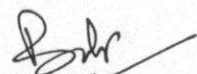
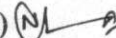
We thankfully acknowledge the receipt of your payment vide Cheque no./DD No. 000040 dated 20/02/2013 for ₹ 633835.00 in favour of "Registrar IIT Delhi" drawn on HDFC Bank towards the payment of subscription for following e-resources for the subscription for the year 2013.

1. ASTM Standards & Digital Library

Please note that we have raised orders for e-resources to the publishers on your behalf. Your access to e-resources will continue for the year 2013. You will receive a communication on your e-mail addresses mentioned in your Application Form. Please contact us if you have any problem in access continuation.

Thanks & Regard,

Sincerely yours,

  
(B.D. Gupta) 



**Indian Institute of Technology Delhi**  
**Indian National Digital Library in Engineering**  
**Sciences and Technology Consortium**  
**INDEST-AICTE Consortium**



**Prof. G.P. Agarwal**  
Acting Coordinator

*Kanay*  
*MJ*

March 15, 2012

**Principal/Librarian**

Punjab Technical University Jalandhar  
Kapurthala Campus: Jalandhar-Kapurthala Highway, P.B. No-1,  
Kapurthala-144601, Punjab

Dear Sir,


We thankfully acknowledge the receipt of your payment vide Bank draft no./cheque no. 385330 dated 8/2/2012 for ₹ 5,03,965/- in favour of "Registrar IIT Delhi" drawn on HDFC Bank towards the payment of subscription to ASTM Standards & Digital Library for the year 2012.

From our records it was observed that your account with us was debited for ₹ 5,51,780/- out of which you made us the payment for ₹ 5,03,965/- as mentioned above. **Please ensure that to make the short payment of ₹ 47,815/- as soon as possible for maintaining future relations.**

Please note that we have raised orders for e-resources to the publishers on your behalf. Your access to e-resources will continue for the year 2012. You will receive a communication on your e-mail addresses mentioned in your Application Form. Please contact us if you have any problem in access continuation.

Thanks and Regards

Sincerely yours,

  
(G.P. Agarwal)



Ref. No. PTU/LPB/123.

Date 31/03/2011

Prof. G.P. Aggarwal,  
INDEST- AICTE Consortium  
Central Library  
Indian Institute of Technology Delhi  
Hauz Khas, New Delhi- 110016

**Subject: Subscription of the e-Resources for the Year 2011-12.**

Dear Sir,

With reference to your Letter Dated: 08.03.2011. We are hereby sending you a demand draft of Rs. 5,21,060.00 for the subscription of e-resources ASTM Standard & Digital Library and ASME Journals from 1<sup>st</sup> April 2011 to 31<sup>st</sup> December 2011.

The details of the demand draft is as follows:-

1. Amount: 5,21,060.00
2. D.D. No. 013085
3. Dated: 31.03.2011
4. Drawn in favour of: Registrar IIT-Delhi
5. Bank: HDFC Bank

The IP ranges of the University is 117.211.87.186-190 & 202.164.41.98-110. You are requested to provide us the access to these e- resources at the earliest. Your prompt response in this regard would highly be appreciated.

With kind regards.

  
Registrar  


Encls:-

1. Demand Draft
2. Performa Invoice.



**Punjab Technical University**  
Jalandhar Kapurthala Highway  
Kapurthala Sub-district 144603  
India, Kapurthala Sub-district 144603 India

**OFFICIAL RECEIPT**

**Our reference:** 21G206AUG00071/21IN24SEP00005

**Account number:** 2127501

**Invoice number:** M462040

Amsterdam, 21, February 2022

Dear Madam/Sir,

We herewith acknowledge with thanks receipt of your payment with a total amount of USD 153,153.66 received on 20 Aug 2021.

We trust this information meets with your approval.

Yours sincerely,

Marie Joy Morillo  
Oracle AR  
E-mail: [oracleAR@elsevier.com](mailto:oracleAR@elsevier.com)

2019



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**I.K. Gujral Punjab Technical University**  
Jalandhar Kapurthala Highway  
Kapurthala Sub-district 144603  
India

**OFFICIAL RECEIPT**

Our reference: 19SU10OCT00016  
Account number: 2127501  
Invoice number: M414226

Amsterdam, 07 November 2019

Dear Madam/Sir,

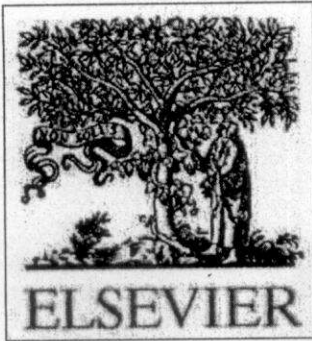
We herewith acknowledge with thanks receipt of your payment on 14-OCT-2019 for the amount of USD 130,691.19.

We trust this information meets with your approval.

Yours sincerely,

Jan Kristy Ignacio  
Oracle AR  
E-mail: [oracleAR@elsevier.com](mailto:oracleAR@elsevier.com)

22/Nov/20  
Elsevier  
Credit Risk & Receivable Department  
Certified True Copy



The Registrar, I.K. Gujral Punjab Technical University  
Jalandhar Kapurthala Hwy  
Kapurthala City, Punjab 144601  
INDIA

**Our Reference** : 18SU31DEC00026  
**Account Number** : 2127501  
**Invoice Number** : MP12284

Amsterdam, 04 January '2019

Dear Sir/Madam,

We herewith acknowledge with thanks receipt of your payment amounting to \$124,468.00 for invoice number MP12284.

AR Delta/Oracle

Email Address:

[darell.delvalle@reedelsevier.com](mailto:darell.delvalle@reedelsevier.com)



2017



The Registrar, I.K.Gujral Punjab Technical University  
Jalandhar Kapurthala Hwy  
Kapurthala City, Punjab  
INDIA 144601

**Our Reference** : 18SU27APR00040

**Account Number** : 2127501

**Invoice Number** : MP11507

Amsterdam, 21 December '2018

Dear Sir/Madam,

We herewith acknowledge with thanks receipt of your payment amounting to \$136,474.00 for invoice number MP11507.

AR Delta/Oracle

Email Address:

[darell.delvalle@reedelsevier.com](mailto:darell.delvalle@reedelsevier.com)



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To,

July 12, 2017

Issued to:

I.K. Gujral Punjab Technical University,  
Jalandhar.

Attn:

Mrs. Madhu Midda

## Official Receipt

Dear Madam,

We hereby acknowledge the receipt of payment of US\$ 159,666.00 towards 2016 subscription to ScienceDirect and understand that TDS worth US\$ 18,334 is deducted on the invoice. Do provide us the TDS certificate at the earliest to close the outstanding in our systems.

Our confirmation number is: 16SU09MAY00017

Thank you for your payment.

Yours sincerely  
On behalf of Elsevier, Finance

Faraha Siddiqui  
RELX India Private Limited  
14th floor, Building No.10B, DLF Cyber City, Phase –II  
Gurgaon, Haryana, India – 122002



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Kapurthala- 144603 (Punjab)

Attn:  
Central Library,

**Official Receipt**

Gurgaon, December 12, 2017

Dear Sir /Madam

We hereby acknowledge the receipt of payment of US\$159,666.00 towards 2015 subscriptions to ScienceDirect against the total invoice value of US\$ 178,000.

We hereby acknowledge the receipt of TDS certificate for the balance amount.

Our confirmation number is : 15SU06NOV00029

Thank you for your payment.

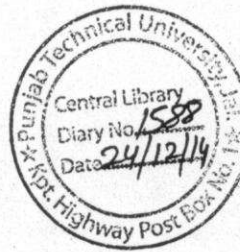
Yours sincerely  
On behalf of Elsevier, Finance

Faraha Siddiqui  
RELX India Private Limited  
14th floor, Building No.10B, DLF Cyber City, Phase -II  
Gurgaon, Haryana, India - 122002



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Jalandhar Kaputhala Hwy  
Kaputhala 144601

Attn: Madhu Midda

## Official Receipt

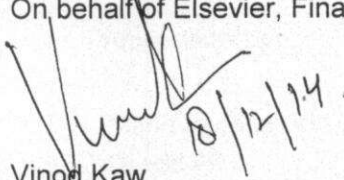
Gurgaon, December 18, 2014

Dear Madam,

We hereby acknowledge the receipt of payments worth US\$ 87,000.00 in settlement of the invoice No M220697 raised for 2014.

Thank you for your payment.

Yours sincerely  
On behalf of Elsevier, Finance

  
Vinod Kaw  
Senior Manager – Science & Technology  
Reed Elsevier India Pvt Ltd  
14th floor, Building No.10B, DLF Cyber City, Phase –II  
Gurgaon, Haryana, India – 122002  
Tel: 91-124- 4774209 / 4774100 Mobile: (0) 9818559360, Email: v.kaw@elsevier.com

PTU/Cengage/2017

Dated: 16-May-2017



Cengage Learning India Pvt. Ltd.  
418, F.I.E. Patparganj  
New Delhi – 110092  
Contact: 011 43641111  
Email: gale.india@cengage.com

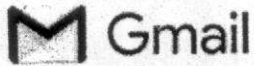
**RECEIPT**

Received with thanks from: I.K. Gujral Punjab Technical University, Kapurthala, Punjab.  
The Sum of : INR Two lakh Ninety-three thousand six hundred one only.  
Mode of payment : Online transfer.  
Remarks : Amount Received towards annual subscription fee of GREENR, Business  
Insights: Essentials and Business Insights: Essentials.

\* ₹ 2,93,601



2016



Central Library <library.ptu@gmail.com>

## Regarding Payment of Gale Cengage Learning Online Collections.

1 message

Central Library <library.ptu@gmail.com>  
To: D DM <bbibliotheca@gmail.com>

Wed, Apr 27, 2016 at 12:16 PM

**M/s Bibliotheca India,  
C/o: NICON P-5, VIP Road,  
Scheme No. VII-M,  
(Opp. Bagmari Kabarsthan),  
Kankurgachi,  
Kolkata- 700054**

**Subject: Regarding Payment of Gale Cengage Learning Online Collections.**

Dear Sir,

With reference to your Invoice No. BI/PTU/Lib/16/7db Dated: 09.02.2016. The payment has been made through RTGS on dated: 16.04.2016 vide UTR No. HDFCR52016041677057176 of Rs. 4,81,982/- (Four Lakhs Eighty One Thousand Nine Hundred Eighty Two Only) in your Punjab National Bank A/c No. 3207002100011843, Keshiari Road, Chhoto Tangra, Kharagpur. Kindly send the link below mentioned collections for upload on IKGPTU website.

The detail of Gale Cengage Learning Online Collections is as under:-

1. Infotrac Engineering Collection (IEC).
2. Infotrac Management Custom Collection (IMC).
3. Infotrac Pharmacy Custom Collection (IPC).

4. Hospitality, Tourism and Leisure Collection (HTC) + Culinary Arts Collection (CAC).
5. GREENR.
6. Business & Company Resource Centre (BCRC) + Business Insight Global (BIG).
7. Infotrac Social Science Custom Collection (ISSC).

**It is requested to kindly include the below organization ID and IP range for Open Athens Platform access to our users.**

**Organisation ID: 68467580**  
**Proxy IP: 188.92.139.183**  
**Entity ID: <https://idp.ptu.ac.in/openathens>**

**IKGPTU IP's: 14.139.242.34 to 38**  
**202.164.56.113 to 126**

**Kindly send the acknowledgement of the same.**

With kind regards.

**(Deputy Librarian)**

2014



# Bibliotheca India

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PAN No.: AVWPM6120A

C/O: NICON P-5, VIP Road, Scheme No. VII-M (Opp. Bagmari Kabarsthan), Kankurgachi, Kolkata – 700054 Ph 033 64524610 Email: [bibliotheca@bibliothecaindia.com](mailto:bibliotheca@bibliothecaindia.com) / [bbibliotheca@gmail.com](mailto:bbibliotheca@gmail.com) .  
url: [www.bibliothecaindia.com](http://www.bibliothecaindia.com) Mobile: 9735509849/ 9434394980

27<sup>th</sup> March 2014

To  
The Librarian  
Punjab Technical University  
Near Pushpa Gujral Science City  
Kapurthala – 144601 ( Punjab)

## Sub: Receipt of Payment

Respected Sir

We acknowledge the receipt of payment of Rs. 4,46,320.00 (Four Lakhs Forty Six Thousand Three Hundred Twenty Only) for the online access of e-journal database towards the invoice BI/ PTU/Lib/14 dated 02 Oct , 2013.

Thank you and regards.

**Biswajit Kar**  
Authorised Signatory  
For Bibliotheca India





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EISI/19-20/ 666 Date 31-Oct-19

Received with thanks from I.K. Gujral Punjab Technical University Jalandhar

Sum of Rupees TwentyNine Lakh EightySix Thousand Seven Hundred FourtyTwo Only

By Cash/WireTrf/DD/Cheque\* No. Wire Trf Date 31-Oct-19

Drawn on \_\_\_\_\_

Towards Subscription of IEEE IEL ONLINE

For the Period 1-Jun-19 To 31-May-20

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EIS/18-19/ 601

Date 31-Dec-18Received with thanks from I K Gujral Punjab Technical UniversitySum of Rupees TwentySeven Lakh FourtySix Thousand Six Hundred SixtyOne OnlyBy Cash/WireTrf/DD/Cheque\* No. Wire Trf Date 18-Dec-18

Drawn on \_\_\_\_\_

Towards Subscription of IEEE IEL OnlineFor the Period 1-Jan-18 To 31-Dec-18

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*UN*



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AICTE Unique ID : Later			
Title	SUB.ORD.NO.	DATE	AMOUNT
IEL GROWTH PLAN - 2017	GIST/SUB-INV/02129	27/01/2017	2,887,589.00
Rupees Twenty Eight Lakh Eighty Seven Thousand Five Hundred and Eighty Nine Only			

VIDE Wire Transfer No./HDFCR52017031892166152  
INSTRUMENT DATE:18/03/2017

1) Payment for Subscription Order/Supplementary Charge of online subscription of ejournals/edatabase by subscriber is against order forwarded to **-INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC.**

2) As per Notification No. 46/2016 (Service Tax) Dt. 09.11.2016, GOI/Min. of Finance has covered Online Information Retrieval/eJournal/eDatabase under Service Tax @ of 15% (14%+0.50%+0.50%) wef. December 1,2016.





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F : +91-124-4052913,  
E : gistdel@gist.in,  
W : www.gist.in,  
CIN No.- U74899DL1990PTC040480  
PAN No.- AAACG0733H

PUNJAB TECHNICAL UNIVERSITY  
JALANDHAR KAPURTHALA HIGHWAY, NEAR SCIENCE CITY,  
JALANDHAR - 144601 , PUNJAB

Ref.No.:GIST/REC./15898

Date: 20/04/2016

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AICTE Unique ID : Later			
Title	SUB.ORD.NO.	DATE	AMOUNT
IEEE IEL GROWTH PLAN 2016	GIST/PI/33887	08/02/2016	1,962,477.00
Rupees Nineteen Lakh Sixty Two Thousand Four Hundred and Seventy Seven Only			

VIDE Wire Transfer No./HDFCR52016042077229979

INSTRUMENT DATE:20/04/2016

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No:-GIST/RECIEPT/11490

Date:04/12/2014

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AICTE Unique ID : Later			
Title	SUB.INV.NO.	DATE	AMOUNT
IEEE IEL GROWTH PLAN 2015	GIST/SUB.INV./25855	01/10/2014	1,717,029.00
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VIDE Wire Transfer No./50100042111309

DATED:04/12/2014

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F : +91-124-4052913  
E : gistdel@gist.in  
W : www.gist.in  
CIN No. - U74899DL1990PTC040480

Date : 01/10/2014  
SUB.INV.No. : GIST/SUB.INV./25855

TO,  
THE REGISTRAR,  
PUNJAB TECHNICAL UNIVERSITY  
JALANDHAR- KAPURTHALA HIGHWAY,  
NEAR SCIENCE CITY,  
JALANDHAR  
PUNJAB - 144601

*Kangal*  
*4/11*

SUBSCRIPTION INVOICE

(P. No.:-)

Title	Level	Subscription Period	No. of Site	Unit Price (Currency)	Prorated Price	Conversion	Total Price (Rs)
IEL GROWTH PLAN	OTHERS	01/11/2014 - 31/10/2015	1	USD 26745.00	N/A	64.20	1717029.00

RUPEES: SEVENTEEN LAKH SEVENTEEN THOUSAND TWENTY NINE ONLY

Terms and Conditions:

1) Advance payment is desired by-

(a) Bank draft favoring "Global Information Systems Technology Pvt. Ltd." Payable at New Delhi at the earliest.

OR

(b) Electronic Transfer to: HDFC Bank Current A/c No. 00442210000025 (Global Information Systems Technology Pvt. Ltd.) IFSC Code: HDFC0000044.

- Conversion rate as per as GOC conversion rates have been applied and shall be valid for 30 days only. In case the payment is received after 30 days from the date of our invoice, a supplementary invoice shall be raised.
- You shall be required to sign the Publisher's License agreement. If access shall be activated upon receipt of the payment.
- Subscription to the e-resources will be charged from 1st November 2014 - 31st October 2015.
- Taxes shall be charged if and when applicable.
- All Orders/Enquiries/Correspondence may kindly be addressed to our corporate office.

FOR GLOBAL INFORMATION SYSTEMS TECHNOLOGY PVT. LTD.



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*pro/ub/1536*  
*13/10/14*



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EISI/19-20/ 670

Date 6-Nov-19

Received with thanks from Inder Kumar Gujral Punjab Technical University

Sum of Rupees Three Lakh SeventyNine Thousand Eight Hundred Sixteen Only

By Cash/WireTrf/DD/Cheque\* No. Wire Trf Date 2-Nov-19

Drawn on \_\_\_\_\_

Towards Subscription of Open Athens

For the Period 1-Jul-19 To 30-Jun-20

For EBSCO Information Service India Private Ltd.

INR 379 816.00

\* Subject to realization in Bank





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EISI/18-19/ 532

Date 6-Dec-18

Received with thanks from IK Gujral Punjab Technical University

Sum of Rupees Three Lakh Fourty Thousand Three Hundred FourtyTwo Paise TwentyThree Only

By Cash/WireTrf/DD/Cheque\* No. Wire Trf Date 27-Nov-18

Drawn on \_\_\_\_\_

Towards Subscription of Open Athens (Upto 2000 user)

For the Period 1-Jul-18 To 30-Jun-19

For EBSCO Information Service India Private Ltd.

INR 340,342.23





**EBSCO**

INTERNATIONAL, INC.

**EBSCO Information Services India Pvt Ltd**

301 & 303, Ansal Chamber - II,  
6, Bhikaji Cama Place, New Delhi - 110066  
Tel.:011-26198962/63/64, , Fax:011-26198968

84

Date : 12-May-2017

Received with thanks from Inder Kumar Gujral Punjab Technical University

Sum of Rupees Indian Rupees Three Lakh Eighty Two Thousand Five Hundred Sixty Eight Only.

By Cash/NEFT/RTGS/DD/Cheque\* No RTGS

Date : 12-May-2017

Drawn on - \_\_\_\_\_

Towards Subscription of Open Athens- MD for 2000 Users

For the period July 17 to June 18

For EBSCO Information Services India Pvt Ltd

Rs. 3,82,568.00

\* Subject to Realisation





INTERNATIONAL, INC.

**EBSCO Information Services India Pvt Ltd**

301 & 303, Ansal Chamber - II,  
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Tel.:011-26198962/63/64, , Fax:011-26198968

182

Received with thanks from Punjab Technical University

Date : 30-Jun-2016

Sum of Rupees Indian Rupees Three Lakh Twenty Four Thousand Only.

By Cash/NEFT/RTGS/DD/Cheque\* No RTGS

Date : 30-Jun-2016

Drawn on - \_\_\_\_\_

Towards Subscription of Open Athen- MD 2000 Users

For the period July 16 to June 17

For EBSCO Information Services India Pvt Ltd

Rs. 3,24,000.00

\* Subject to Realisation





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Tel.:011-26198962/63/64, , Fax:011-26198968

145

Date : 11-Jun-2015

Received with thanks from Punjab Technical University

Sum of Rupees Indian Rupees One Lakh Eighty Nine Thousand Nine Hundred Eighty One Only.

By Cash/NEFT/RTGS/DD/Cheque\* No NEFT

Date : 11-Jun-2015

Drawn on \_\_\_\_\_

Towards Subscription of Open Athens - 500 Users

For the period July 15 to June 16

For EBSCO Information Services India Pvt Ltd

Rs. 1,89,981.00

\* Subject to Realisation



July 15, 2019

2019

I. K. Gujral Punjab Technical University (PTU)  
Jalandhar - Kapurthala National Highway  
Near Pushpa Gujral Science City  
Distt. Kapurthala - 144603  
Punjab, India

Kind Attn: The Registrar

**Subject: Receipt of payment and important details of your subscription account.**

Dear Sir / Madam,

We thankfully acknowledge the payment receipt of Rs.57,179/- made through NEFT / RTGS in our Union bank of India for the subscription of our site [www.Indiastat.com](http://www.Indiastat.com) and its all 56 associate sites under Institution Plus plan for a single user access. Please note that Amount Rs.46,657/- (45,513/- + 1,144/- as TDS) has been refunded earlier.

You can access our site(s) through your provided IP ranges which we have already configured at our end for the access of [Indiastat.com](http://Indiastat.com) and its all associate sites. Kindly note some other important details regarding your subscription as below:-

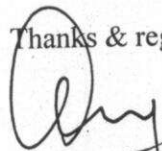
Date of Renewal	25 <sup>th</sup> January 2019	Validity
Date of Deactivation	24 <sup>th</sup> January 2020	Subscription will be valid till either downloading of 5000 data tables or completion of 1 year, which ever finishes or comes first w.e.f date of renewal i.e. 25 <sup>th</sup> January 2019.
Table View Limit	Unlimited	
Table Download Limit	5000 Data Tables	
Time Period	1 Year	
No. of User (s)	Single, i.e. at a time only one user can access either <a href="http://Indiastat.com">Indiastat.com</a> or any of its associate sites. Access to more than assigned user(s) will be denied.	

While accessing the site, please to note that its session time-out is set for 20 minutes i.e. in case your browser remains idle or inactive for 20 minutes, re-login would be required. Also ensure proper logout from the site by clicking "Log out" link as in case of improper log-out it may take another 20 minutes to re-login.

Please find enclosed invoice & payment receipt for the same with this letter. Please acknowledge us once you receive this letter at your end.

For any query or assistance, please feel free in contacting us at [support@indiastat.com](mailto:support@indiastat.com).

Thanks & regards,



Support Team  
Indiastat.com

^^^

**Resource Name:** IndiaStat

**Brief Description:**

Indiastat.com provides comprehensive socio-economic data about India and its sectors, states and regions.

**Negotiated Rates for 2019:**

IndiaStat : INR 48,457.00

GST Extra

(View Limit: Unlimited Tables, Download Limit: 5000 Tables)

**Country of Origin of the Resource:** India

**Complete Address for Ordering & Invoicing:**

Subscription Cell  
Datanet India Pvt. Ltd.  
D-100, First Floor  
Okhla Industrial Area, Phase - I,  
New Delhi – 110020, India.

**Contact Person Name, email address & phone number:**

Bhupendra Singh  
Manager-Marketing & Subscription  
Datanet India Pvt. Ltd.  
+91-11-43580781/11-26810964/65/66 | 09310831223  
Fax: +91-11-26810968 | support@indiastat.com

# Datanet India

Datanet India Private Limited

D-100, 1st Floor, Okhla Industrial Area, Phase-1, New Delhi-110020

Ph.: +91-11-43580781-84, +91-11-26810964-65-66, E-mail: support@indiastat.com, support@datanetindia.com

April 27, 2019

*Kamal*  
*14/1*  
*10/05/19*  
*Dr. G.B.*  
*7/6*  
*(Acad)*

Acad: 660-1  
7/5/19

I. K. Gujral Punjab Technical University (PTU)  
Jalandhar - Kapurthala National Highway  
Near Pushpa Gujral Science City  
Distt. Kapurthala - 144603  
Punjab, India

Kind Attn: The Registrar

Subject: Receipt of payment and important details of your subscription account.

Dear Sir / Madam,

We thankfully acknowledge the payment receipt of Rs.55,207/- made through NEFT / RTGS in our Union bank of India for the subscription of our site [www.Indiastat.com](http://www.Indiastat.com) and its all 56 associate sites under Institution Plus plan for a single user access.

You can access our site(s) through your provided IP ranges which we have already configured at our end for the access of Indiastat.com and its all associate sites.

Kindly note some other important details regarding your subscription as below:-

Date of Renewal	25 <sup>th</sup> January 2018	Validity
Date of Deactivation	24 <sup>th</sup> January 2019	Subscription will be valid till either downloading of 5000 data tables or completion of 1 year, whichever ever finishes or comes first w.e.f date of renewal i.e. 25 <sup>th</sup> January 2018.
Table View Limit	Unlimited	
Table Download Limit	5000 Data Tables	
Time Period	1 Year	
No. of User (s)	Single, i.e. at a time only one user can access either Indiastat.com or any of its associate sites. Access to more than assigned user(s) will be denied.	

While accessing the site, please to note that its session time-out is set for 20 minutes i.e. in case your browser remains idle or inactive for 20 minutes, re-login would be required. Also ensure proper logout from the site by clicking "Log out" link as in case of improper log-out it may take another 20 minutes to re-login.

Please find enclosed invoice & payment receipt for the same with this letter. Please acknowledge us once you receive this letter at your end.

For any query or assistance, please feel free in contacting us at [support@indiastat.com](mailto:support@indiastat.com).

Thanks & regards,

Support Team  
Indiastat.com

^^^

Office Knowledge Resource Centre  
Receipt No. 1368  
Dt. 8/5/19 Sent to K.R.C.

Dean Academic  
No. 725  
Date 7.5.2019

DATANET INDIA INITIATIVES

**Resource Name:** IndiaStat

**Brief Description:**

Indiastat.com provides comprehensive socio-economic data about India and its sectors, states and regions.

**Negotiated Rates:**

IndiaStat : INR 47,741.00

GST Extra

(View Limit: Unlimited Tables, Download Limit: 5000 Tables)

**Country of Origin of the Resource:** India

**Complete Address for Ordering & Invoicing:**

Subscription Cell  
Datanet India Pvt. Ltd.  
D-100, First Floor  
Okhla Industrial Area, Phase - I,  
New Delhi – 110020, India.

**Contact Person Name, email address & phone number:**

Bhupendra Singh  
Manager-Marketing & Subscription  
Datanet India Pvt. Ltd.  
+91-11-43580781/11-26810964/65/66 | 09310831223  
Fax: +91-11-26810968 | support@indiastat.com

**RECEIPT**

**DR/16-17/01/37**

**I. K. Gujral Punjab Technical University**

Jalandhar - Kapurthala National Highway  
Near Pushpa Gujral Science City  
Distt. Kapurthala - 144603  
Punjab, India

Kind Attn : The Registrar

Receipt No: DR/16-17/01/37

Issued Against: DI/16-17/01/38

**Datanet India Pvt. Ltd.**

D - 100, First Floor  
Okhla Industrial area, Phase-1, New-Delhi-110020  
Ph:011-43580781,26810964-65-66  
Fax:011-26810968  
E-mail:support@indiastat.com

Date - 24 Jan 2017

Description		Unit Price (Rs.)	
Name of Site: www.indiastat.com  Plan Name: Institution Plus Date of Activation: 25 January 2017 Deactivation Date: 24 January 2018	Mode of Payment	By Net Banking/Debit Card (For Domestic)	
	Payment mode No	NIL	
	Payment Issued date	24 Jan 2017	
	Bank's Name	Union Bank of India	
<b>Payment Details</b>			
	Total Billed Amount		86,250
	Total Received Amount		77,625
	Difference/TDS Deduction		8,625
<b>Amount In Words(INR):</b> Seventy-Seven Thousand Six Hundred Twenty-Five Only	<b>Total Amount Received</b>		<b>77,625</b>

PAN NO.- AABCD0406D  
Service Tax No.- OID/MUM-I/003

For Datanet India Pvt. Ltd.

(This is a computer generated document hence no signature required)

**\*Terms & Conditions:-**

- Receipt of payment is subject to realization of cheque/DD.
- You are requested to send TDS/Service Tax Certificate as per your convenience, in the case TDS/Service Tax deducted by you.

Mumbai Office: Datanet India Pvt Ltd.

Sterling Hose, 7th Floor, 5/7, Sorabji Santuk Lane, Opp Dr Cowasji Hormasji Lane, Dobi Talao, Mumbai-400 002



**BALANI INFOTECH PRIVATE LIMITED**  
CIN: U72300DL2007PTC164136

Receipt

Received with thanks from : I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, PUNJAB

The sum of : Rupees Thirty Seven Lakh Twenty Thousand Two Hundred Sixty Six Only

By : Same Bank Transfer  
Remarks : RTGS

RTGS 12-May-2017 37,20,266.00



Authorised Signatory

**\*\*₹ 37,20,266.00/-**

**\*\*Subject to Realisation**



ਆਈ.ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

**PTU** PUNJAB  
**TECHNICAL**  
**UNIVERSITY**
Estd. Under Punjab Technical University Act. 1996  
(Punjab Act No. 1 of 1997)Ref. No. IKGPTU/LIB/ 52Dated 15-05-2017

Balani Infotech Pvt. Ltd.,  
 B-116, Sector- 67,  
 Distt. Gautam Budh Nagar,  
 Noida- 201301


**Subject: Regarding Subscription of Journals for the year 2017.**

With reference to order for the APS & ACS e-Journals (All Package) on behalf of the I.K. Gujral Punjab Technical University, Kapurthala for the year 2017. The payment in this regard has been made to you as per Invoices No. PI-199-N/BIPL/2016-2017 and PI-201-N/BIPL/2016-2017 Dated: 24.03.2017 & 27.03.2017. The payment of Rs. 37,20,266/- (Thirty seven lac twenty thousand two hundred sixty six only) was transferred in your ICICI Bank Limited account on dated 12.05.2017 vide UTR No. HDFCR52017051295706575 (after TDS deduction). The period of subscription shall be one year from the date of expiry of previous subscription in case of renewal or one year from the date of activation in case of new subscription. You are hereby requested to subscribe the following mentioned journals as per mentioned terms and conditions:-

Sr. No.	Name of the Product	Publisher	Required Online/ Print
1	APS All Package- 2017	American Physical Society	Online
2	ACS All Publications Package	ACS Publications	

**Terms & Conditions:-**

1. Proof of GOC/ bank rates exchange rates having prices in foreign currencies as on the date of billing for the remittance towards journal subscriptions.
2. The subscription agency shall be responsible for the activation of online access to databases and the access should be IP based/ Remote access. In case of renewals ensure uninterrupted access for the new period. Our IP ranges are:-  
 14.139.242.33 to 38  
 202.164.56.114 to 126  
 112.196.21.65 to 70
3. The supplier will produce a certificate regarding the activation date of the access.

"Propelling Punjab to a Prosperous Knowledge Society." 



Ref. No. IKGPTU/LIB/ 52

Dated 15-05-2017

4. The supplier/ vendor will produce product details (i.e. list of e Journals with its details) in soft as well as hard copy).
5. Order must be processed immediately without any delay.
6. For online payment, the length of period for access must be mentioned in the agreement.
7. The university provides e-Journals facility to its Research Scholars/ Research Supervisors and Faculties through IP basis and remote access facility. If publishers/ supplier/ vendor have any objection regarding this one same should be informed to the Central Library.
8. The University reserves the right to make any amendment in the above terms and conditions in the interest of library and the same will be binding on suppliers.
9. Disputes are subject to jurisdiction of Kapurthala court only.

**Important:** In case of subscription to e-resources, the agency should deduct TDS, as applicable, according to the Income Tax Rules of the Govt. of India, from the payment to Indian/ foreign publishers and remit it to the Govt. and send us copy of the same for our record. Similarly service tax charged for e- resources, as per GOI notification, should be remitted to the Government and a copy of the same be sent to I.K. Gujral Punjab Technical University. It is solely the responsibility of the agency to comply with the tax requirements. The Agency must certify it on the invoices of e-resources that they undertake to deduct the tax and remit the same and in case of default the university shall not be liable to any legal action.

Please acknowledge the receipt.

  
(Deputy Librarian)  


"Propelling Punjab to a Prosperous Knowledge Society."



EBSCO International Inc.

## EBSCO Information Services India Private Limited

301-303, Ansal Chamber-II, 6, Bhikaji Cama Place, New Delhi - 110 066 INDIA

Tel. : +91 11 2619 8962 / 63 / 64 / 65 / 66 /67, Fax: +91 11 2619 8968

EISI/19-20/ 400

Date

28-Jun-19

Received with thanks from I.K. Gujral Punjab Technical University

Sum of Eight Lac Ninety Two Thousand Eight Hundred Eighty Six

By Cash/WireTrf/DD/Cheque\* No.

Wire Trf

Date

14-Jun-19

Drawn on

Towards Subscription of Ebsco Discovery Service

For the Period

1-Apr-19 To 31-Mar-20

For EBSCO Information Services India Private Ltd.

INR 892,886.00

\* Subject to realization in Bank



**Resource Name:** EBSCO Databases

**Brief Description:**

EBSCO is the leading provider of research databases, e-journals, magazine subscriptions, e-books and discovery service to libraries of all kinds. Rates for various databases (full-text and bibliographic) by EBSCO is as follows.

**Negotiated Rates:**

Sl. No.	Resource Collection	No of full-text journals/books	Rates in US \$ per Institution for 2018
1	Academic Search Complete	6600	15,750.00
2	Academic Search Elite	1600	4,500.00
3	Academic Search Ultimate	10021	19,000.00
4	Art and Architecture Complete	360	\$4,061.00
5	Business Source Complete	2200	\$19,536.00
6	Business Source Elite**	600	\$3,785.00
7	Business Source Ultimate	3507	\$23,900.00
8	Communication & Mass Media Collection	440	\$4,517.00
9	Dentistry and Oral Science Source		\$8,710.00
10	EDS Complete (Resource Integration, Catalog Integration & IR integration)^		\$12,600.00
11	EDS (Resource Integration, Catalog Integration Or IR Integration)		\$10,500.00
12	EDS (Resource Integration only)		\$8,500.00
13	eBook Academic Collection	160000+	\$3,200.00
14	EBooks Business Core Collection (eBooks Business Collection - is the product for Academic Institutions)	17000+	\$2,250.00
15	EBSCO - Engineering Core Collection Basic	5800+	\$850.00
16	EconLit with Full Text®	700	\$11,112.00
17	Education Research Complete	1300	\$4,200.00
18	Food Sciences Source	800	\$5,500.00
19	Library, Information Science & Technology Abstracts with Full Text	330	\$1,798.00
20	Literary Reference Center		\$3,400.00
21	Hospitality & Tourism Complete	500	\$3,975.00

22	HUMANITIES INTERNATIONAL COMPLETE	9300	\$5,000.00
23	Library & Information Science Source^^	480	\$4,850.00
24	Magillon Literature Plus		\$3,750.00
25	EBSCO Management Collection**	1100+	\$2,000.00
26	Medline Complete		\$16,500.00
27	MLA International Bibliography		\$4,200.00
28	Psychology and Behavioural Sciences Collection	500	\$5,842.00
29	Publication Finder and Full Text Finder		\$6,000.00
30	SocIndex with Full Text	640	\$9,750.00
31	Sports Discuss with Full Text	660	\$5,000.00
32	Textile Technology Complete	70	\$3,826.00
33	World Textiles	170	\$2,650.00

^ Engineering Source, EBSCO eBooks are some of the resources given complimentary with EBSCO Discovery Services to enhance user experience. Customers could choose one of the listed databases as applicable

^^ EBSCO Library and information science source is freely for eSS members for 2018

\*\* EBSCO Management Collection and Business Source Elite are available as Plus Versions also by adding 50 e-books and 100 e-books (perpetual) for \$ 200 and \$ 400 respectively and 100 e-books (perpetual) for \$ 200 and \$ 400 respectively.

@ The price of EconLit with Full Text would be lesser for the institutions subscribing any version of Business Source product line i.e, Business Source Ultimate customer (US\$ 6607), Business Source Complete customer (US\$ 6607), Business Source Premier customer (US\$ 8665), Business Source Elite customer (US\$ 8665)

- 5% on two proprietary products and 2% if one of the products is a secondary database
- 10% on subscription of three products and 4% if two out of the three products is secondary database
- for subscription of more than three products, the discount can vary between 12.5 % to 15%

GST Extra

**Country of Origin of the Resource: US**

**Complete Address for Ordering & Invoicing:**

EBSCO International Inc.  
5724, Highway 288 East  
USA

**Contact Person Name, email address & phone number:**

Mr. Sanjay Goswami  
Director of Sales  
EBSCO Information Services India  
Email: SGoswami@ebSCO.com  
Phone: 9975308436

Dated: 29<sup>th</sup> May'2019

To  
I. K. Gujral Punjab Technical University  
Jalandhar-Kapurthala, Highway, Vpo, Ibban, Punjab 144603

Sub: - Acknowledgement of receipt of payment

REF: Knimbus/2018-19/49

Dear Sir/Ma'am,

We acknowledge the receipt of payment of Rs 1,71,500/- (short payment of Rs 35,000 as per the invoice), towards Payment of Invoice no. Knimbus/2018-19/49 dated 27<sup>th</sup> Nov'2019.

For Knimbus Online Pvt. Ltd.



Finance Department

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Knimbus Online Pvt. Ltd: Unit No. 408 B, D-2, Southern Park, Saket District Centre,  
New Delhi - 110017

Tel.: 011-43176743 Website: [www.new.knimbus.com](http://www.new.knimbus.com)  
CIN: U72900DL2011PTC227576



EBSCO International Inc.

## EBSCO Information Services India Private Limited

301-303, Ansal Chamber-II, 6, Bhikaji Cama Place, New Delhi - 110 066 INDIA

Tel. : +91 11 2619 8962 / 63 / 64 / 65 / 66 / 67, Fax : +91 11 2619 8968

EISI/19-20/ 568

Date

20-Sep-19

Received with thanks from Inder Kumar Gujral Punjab Technical University

Sum of Rupees Sixteen Lakh Thirteen Thousand Five Hundred FourtySeven Only

By Cash/WireTrf/DD/Cheque\* No.

Wire Trf

Date

20-Sep-19

Drawn on

Towards Subscription of

Business Source Ultimate

For the Period

1-Jul-19 To 30-Jun-20

For EBSCO Information Service India Private Ltd.

INR 1,613,547.00

\* Subject to realization in Bank





**Resource Name:** EBSCO Databases

**Brief Description:**

EBSCO is the leading provider of research databases, e-journals, magazine subscriptions, e-books and discovery service to libraries of all kinds. Rates for various databases (full-text and bibliographic) by EBSCO is as follows.

**Negotiated Rates for 2019:**

Sl. No.	Resource Collection	No of full-text journals/books	Rates in US \$ per Institution for 2019
1	Academic Search Complete	6600	16,207.00
2	Academic Search Elite	1600	4,631.00
3	Academic Search Ultimate	10021	19,551.00
4	Art and Architecture Complete	360	4,179.00
5	Business Source Complete	2200	20,103.00
6	Business Source Elite**	600	3,895.00
7	Business Source Ultimate	3507	24,593.00
8	Communication & Mass Media Collection	440	4,648.00
9	Dentistry and Oral Science Source		8,963.00
10	EDS Complete (Resource Integration, Catalog Integration & IR integration)^		12,965.00
11	EDS (Resource Integration, Catalog Integration Or IR Integration)		10,805.00
12	EDS (Resource Integration only)		8,747.00
13	eBook Academic Collection	160000+	3,293.00
14	EBooks Business Collection	17000+	2,315.00
15	EBSCO - Engineering Core Collection Basic	5800+	875.00
16	EconLit with Full Text	700	11,434.00
17	EconLit with Full Text (for Business Source Elite Customer)		8,925.00
18	EconLit with Full Text (for Business Source Complete & Business Source Ultimate Customers)		6,805.00
19	Education Research Complete	1300	4,322.00

Revised on 08-02-2019

Downloaded on 02/06/2023

In case of any discrepancy please contact at [eshodhsindhu@inflibnet.ac.in](mailto:eshodhsindhu@inflibnet.ac.in)

20	Food Sciences Source	800	5,660.00
21	Library, Information Science & Technology Abstracts with Full Text	330	1,850.00
22	Literary Reference Center		3,499.00
23	Hospitality & Tourism Complete	500	4,090.00
24	Humanities International Complete	9300	5,145.00
25	Library & Information Science Source^^	480	4,991.00
26	Magillon Literature Plus		3,859.00
27	EBSCO Management Collection**	1100+	2,058.00
28	Medline Complete		16,979.00
29	MLA International Bibliography		4,322.00
30	Psychology and Behavioural Sciences Collection	500	6,011.00
31	Publication Finder and Full Text Finder		6,174.00
32	SocIndex with Full Text	640	10,033.00
33	Sports Discuss with Full Text	660	5,145.00
34	Textile Technology Complete	70	3,937.00
35	World Textiles	170	2,727.00

^ Engineering Source, EBSCO eBooks are some of the resources given complimentary with EBSCO Discovery Services to enhance user experience. Customers could choose one of the listed databases as applicable

^^ Library & Information Science Source would be given free to institutions subscribing to any of the EBSCO packages during 2019

\*\* EBSCO Management Collection and Business Source Elite are available as Plus Versions also by adding 50 e-books and 100 e-books (perpetual) for \$ 200 and \$ 400 respectively and 100 e-books (perpetual) for \$ 200 and \$ 400 respectively.

- 5% on two proprietary products and 2% if one of the products is a secondary database
- 10% on subscription of three products and 4% if two out of the three products is secondary database
- for subscription of more than three products, the discount can vary between 12.5 % to 15%

GST Extra

**Country of Origin of the Resource: US**

**Complete Address for Ordering & Invoicing:**

EBSCO International Inc.

5724, Highway 288 East

USA

**Contact Person Name, email address & phone number:**

Mr. Sanjay Goswami

Revised on 08-02-2019

Downloaded on 02/06/2023

In case of any discrepancy please contact at [eshodhsindhu@inflibnet.ac.in](mailto:eshodhsindhu@inflibnet.ac.in)



Global Information Systems Technology

Authorized Representative for:  
AMERICAN SOCIETY OF CIVIL ENGINEERS  
1801 ALEXANDER BELL DRIVE RESTON  
VIRGINIA VA 20191 U.S.A.

Corporate Office :  
Unit No. 408 B, 4th Floor,  
Southern Park, D-2 Saket,  
New Delhi - 110017  
T : +91-11-43176700,  
E : gistdel@gist.in,  
W : www.gist.in,  
PAN No.- AAQFG4530R  
GSTIN No. - 07AAQFG4530R1ZQ

I K GUJRAL PUNJAB TECHNICAL UNIVERSITY  
CENTRAL LIBRARY, I.K.GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR  
KAPURTHALA HIGHWAY, NEAR SCIENCE CITY,  
JALANDHAR - 144603 , PUNJAB  
GSTIN/UIN NO.-

Receipt No.:PR/201900359

Date: 31/10/2019

### RECEIPT

Dear Sir/Madam,

We thankfully acknowledge receipt of your payment for order on **AMERICAN SOCIETY OF CIVIL ENGINEERS** as per details below. Kindly note that your order is being forwarded to the publisher and access shall start directly to you by publisher shortly.

Description of Service	Service Accounting Code	Title	Place of Supply	State Code	Subs.Quotation No.	Subs. Quotation Date	Taxable Amount
ON-LINE TEXT BASED INFORMATION	998431	ASCE E-JOURNALS PACKAGE - PRIME	PUNJAB	03	GIST/PI/2019-20/00144	2/9/2019	5,10,873.33
Central Goods and Service Tax (CGST)						9%	0.00
State Goods and Service Tax (SGST)						9%	0.00
Integrated Goods and Service Tax (IGST)						18%	0.00
						Total	5,10,873.33
Less : Tax deducted by you							51,087.00
Total Amount Received							4,59,786.00
Tax Payable Under Reverse Charge							No
Rupees - Four Lakh Fifty Nine Thousand Seven Hundred and Eighty Six Rupees Only							

VIDE Wire Transfer No./HDFCR52019103152332334.  
INSTRUMENT DATE:31/10/2019

- 1) This Receipt has been issued by **Global Information Systems Technology** as Authorized Representatives of **AMERICAN SOCIETY OF CIVIL ENGINEERS**.
- 2) Payment for online subscription of ejournals/edatabase by subscriber is against order forwarded to **-AMERICAN SOCIETY OF CIVIL ENGINEERS**.
- 3) The Online Information Database Access and Retrieval Services (OIDAR) covered by this receipt shall be supplied directly by **AMERICAN SOCIETY OF CIVIL ENGINEERS** and **GIST** only acts as an Authorised Representative for the purpose of collecting payment and depositing GST collected from you (if any) with the Government.

GIST-ACCOUNTS DEPT

Admin Office: F-14B, Hauz Khas, New Delhi - 110016

**Resource Name:** ASCE Library

**Brief Description:**

The ASCE Library provides online access to a high-quality collection of civil engineering content. The Complete Package for ASCE e-Journals provides access to 35 journals.

**Negotiated Rates for 2019:**

- Prime Subscribers other than Centrally Funded Institutions\* : US \$ 6,839.00
- Any AICTE Institutions : US \$ 3,558.00

GST Extra

Backfiles access: 1983+, Perpetual Access: For subscribed content

**\*Prime Subscribers:**

- University- (Technical/Deemed/Other) offering PHD/PG/M-Tech Programs
- Engineering Institutions- PHD/M-Tech Programs with FTE above 100 specific to Civil Engineering Programs

**Country of Origin of the Resource:** USA

**Complete Address for Ordering & Invoicing:**

Global Information Systems Technology  
Corporate Office, 877, Udyog Vihar, Phase -V  
Gurgaon - 122 016 (Haryana)

**Contact Person Name, email address & phone number:**

Mr. Tarun Arora / Mr. Dinesh Patwal  
Phone : +91- (124) 4614000, +91 (124) 4614026  
E-mail: tarun@gist.in/dpatwal@gist.in

Payment Receipt No. : *RTIS-04-00184* Date : *20-12-2019*

Received with thanks from *I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR- KAPURTHALA  
KAPURTHALA*

the sum of Rupees *THREE LAKHS TWENTY-SEVEN THOUSAND NINE HUNDRED FIFTY-FIVE ONLY*

on account of *PAYMENT AGAINST INVOICE NO : BISC04-0069*

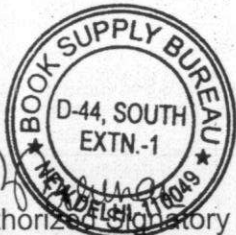
Particulars *FT Ref. no. 50100235790245 000511 Dt. 19/12/19 Amt. 327955.00 (10% IT TDS and  
2% GST TDS deducted from base price of Rs. 352640.00)*

Amount : **Rs. 327,955.00**

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e-ShodhSindhu  
Consortium for Higher Education Electronic Resources



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**Brief Description:**

BIS Online contains the complete set of standards issued by Bureau of Indian Standards.

**Negotiated Rates for 2019:**

BIS Standards : INR 3,52,640.00

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K. Gupta

General Manager

Book Supply Bureau

D-44, South Extension-I

New Delhi – 110049

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State Name : Uttar Pradesh, Code : 09

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**Receipt Voucher**

Received with thanks from : **I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, PUNJAB**  
**Jalandhar-Kapurthala National Highway,**  
**Near Punshpa Gujral Science City,**  
**Kapurthala-144603**

The sum of : **Rupees Two Lakh Thirty Seven Thousand Nine Hundred Seventy Two Only**

By : **RTGS**

Remarks : **RTGS**

**\*\*₹ 2,37,972.00/-**

**\*\*Subject to Realisation**





PROJECT MUSE®

November 12 2018

To Whom It May Concern:

This letter is to confirm that **Balani Infotech Pvt Ltd** is the exclusive authorized agent for Project MUSE in India.

Further this agent **Balani Infotech Pvt Ltd** is empowered to accept payments and process orders on our behalf from customers in India:

If you have any questions please do not hesitate to ask.

Sincerely,

Ann Snoeyenbos  
Manager, International Sales  
and Special Markets  
Project MUSE  
Johns Hopkins University Press  
2715 N. Charles Street  
Baltimore, MD 21218 USA  
T. +1 410-516-6992  
F. +1 410-516-8805



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P 410 516.6989  
F 410 516.8805

muse@press.jhu.edu  
muse.jhu.edu





## e-ShodhSindhu

Consortium for Higher Education Electronic Resources

Resource Name: Project MUSE



### Brief Description:

Project MUSE is a unique collaboration between libraries and publishers, providing 100% full-text, affordable and user-friendly online access to a comprehensive selection of prestigious humanities and social sciences journals. MUSE's journals are heavily indexed and peer-reviewed, with critically acclaimed articles by the most respected scholars in their fields. It is also the sole source of complete, full-text versions of titles from many of the world's leading university presses and scholarly societies.

Backfile Access: Varies title to title

Perpetual Access: To subscribed years

### Negotiated Rates for 2019:

- Any Institution : US \$ 3,627.07

GST Extra

Inclusion of non-core members of e-Shodh Sindhu is subject to approval of the publisher.

Country of Origin of the Resource: US

### Complete Address for Ordering & Invoicing:

Balani Infotech Pvt. Ltd.

B-116, Sector – 67

Distt. Gautam Budh Nagar

Noida - 201301, India

### Contact Person Name, email address & phone number:

Mr. Kailash Balani/ Ms. Priyanka Harne

Phone : +91-0120 - 2484152 / 50, +91- 9711612236

E-mail: priyanka.balaniinfotech@gmail.com

**Invoice cum Receipt**

Page No. 1 of 1  
Invoice No. GPI1920001-1200  
Invoice Date. 15 Feb 2020

B-13, 3rd Floor, A-Block, Local Shopping Complex, Naraina Vihar,, New Delhi 110028, Delhi ,India,Phone No.: 01145055555,Email : orders@globepub.com,CIN No. :U74899DL1990PTC042479

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**Bill To:-**  
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**Order Ref. No.** Email  
**Order Ref. Date** 15 Feb 2020  
**Conversion** G.O.C.,01 Feb 2020

**State Code :- 03**

**State Code :- 03**

Sno	Product Name	HSN/SAC Code	Media	Curr.	Price	Conv.	Amount (INR)	Tax (INR)	Total Amount Payable (INR)
1	Title Name : JSTOR Archive Journal and Primary Source (formerly-Jstor India Core Collection)# Supplier : Jstor ESS Associate Member - ACF 1 of 2 Ass.Media :Online 01 January 2020 to 31 December 2020	998431	Online Add / Ded	USD	2350.00 0.00 2350.00		75.00 176250.00	0.00	176250.00
	Title Name : JSTOR Archive Journal and Primary Source (formerly-Jstor India Core Collection)# Supplier : Jstor ESS Associate Member- AAF Ass.Media :Online 01 January 2020 to 31 December 2020	998431	Online Add / Ded	USD	1220.00 0.00 1220.00		75.00 91500.00	0.00	91500.00
<b>Totals (INR)</b>							<b>267750.00</b>	<b>0.00</b>	<b>267750.00</b>
IGST @ 0%		0.00	<b>Grand Total (INR)</b>				<b>267750.00</b>	<b>0.00</b>	<b>267750.00</b>
INR Two Lakh Sixty Seven Thousand Seven Hundred Fifty Only									<b>267750.00</b>
[+] GPCN191900145 Dt.15 Feb 2020									<b>285768.00</b>
Net Amount Due									<b>-18018.00</b>

This is a computer generated Invoice and hence no signatures are required.

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Payment Due, if any must be received within 30 days of the invoice date. / Disputes must be notified in writing within 15 days and are subject to Delhi Jurisdiction.

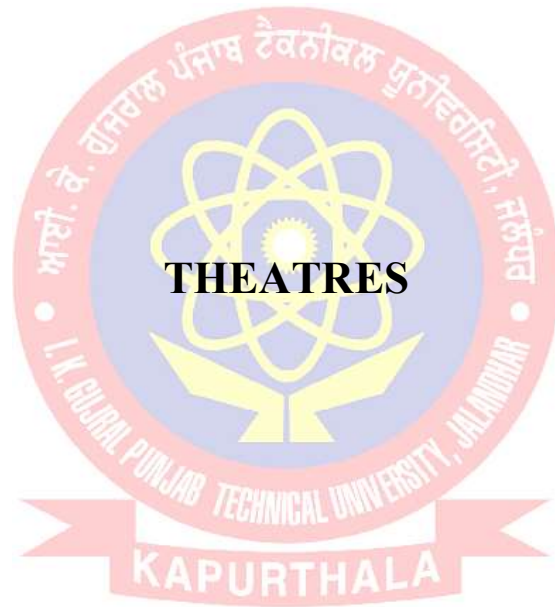
## Key Indicator: 3.1 Promotions of Research and Facilities.

### Metric No. 3.1.5

The screenshot shows a web browser window with the SpringerLink website. The address bar displays the URL: <https://link.springer.com/journal/10115/volumes-and-issues/56-3>. The page header includes the SpringerLink logo, a search bar, and a 'Log in' link. The main content area features the journal title 'Knowledge and Information Systems' and the subtitle 'An International Journal'. Below this, a breadcrumb trail reads 'Knowledge and Information Systems > Volumes and issues > Volume 56, issue 3'. A search bar is provided for searching within the journal. A notification box states 'You have access to our articles'. The 'For authors' section lists links for 'Submission guidelines', 'Language editing services', 'Ethics & disclosures', 'Open Access fees and funding', and 'Contact the journal'. The main content area highlights 'Volume 56, issue 3, September 2018' with a cover image and notes '9 articles in this issue'. The Windows taskbar at the bottom shows the system tray with the date '31-May-23' and time '11:30 AM'.

(Screen shot of Springer Nature eJournals)

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Deputy Librarian  
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SEMINAR HALL-GROUND FLOOR-OPPOSITE KRC



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SEMINAR HALL-GROUND FLOOR-G+3 BUILDINGS



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## OPEN AIR STAGES

## Links of Research Facilities

Sl. No.	Item	Link
1	Research Facilities	<a href="http://ptu.ac.in">Research facilities – I.K. Gujral Punjab Technical University Jalandhar – Punjab (ptu.ac.in)</a>
2	CIIT Main Campus, Kapurthala	<a href="http://ptu.ac.in">Center For Invention, Innovation, Incubation And Training – Kapurthala – I.K. Gujral Punjab Technical University Jalandhar – Punjab (ptu.ac.in)</a>
3	CIIT Sultanpur Lodhi	<a href="http://ptu.ac.in">Center For Invention, Innovation, Incubation And Training – Sultanpur Lodhi – I.K. Gujral Punjab Technical University Jalandhar – Punjab (ptu.ac.in)</a>



# CIIIT IKGPTU MAIN CAMPUS KAPURTHALA

## Product Design and Development

CIIIT Center	Equipment	Make / Model	Specification	Proprietary	Qty
<b>Design and Engineering</b>	Industrial Workstation	HP Z440 or equivalent	32 GB RAM, NVIDIA Quadro K1200, Intel Xeon E5 processor 3.5GHz, 1TB HDD, USB Keyboard & USB Optical Mouse		20
	Monitor	HP Z23N or equivalent	IPS Display, Narrow Bezel		40
	Technology Tools as per list below				
	University Plus Site with PLMS	PTC PKG-4112P-FN			100
	Creo Illustrate - Floating	PTC PKG-7608-F			5
	Mathcad University Edition	PTC PKG-7544-FN			1
	Integration and Installation	TATA Technologies			
	Electrical Wiring and Networking	TATA Technologies			
	Technology Tools Environment	TATA Technologies			
	Customized Domain Creation (Server-Client)	TATA Technologies			
	Industry Content Development	TATA Technologies			
	Case study Based Experiential Learning	TATA Technologies			
	<b>Virtual Verification &amp; Analysis</b>	Industrial Workstation	HP Z440 or equivalent	32 GB RAM, NVIDIA Quadro K1200, Intel Xeon E5 processor 3.5GHz, 1TB HDD, USB Keyboard & USB Optical Mouse	
Monitor		HP Z23N or equivalent	IPS Display, Narrow Bezel		20
Technology Tools as per list below					
Creo Simulate		PTC PKG-3502-F			10
Creo Reverse Engineering Extension		PTC PTN-3216-F			5
Creo Human Factors Analysis Extension		PTC CPT-3313-L			5

Adams Studio Package	MSC		10
Adams Machinery Module Bundle	MSC		4
Adams Car Studio	MSC		4
Adams Structures Bundle	MSC		5
Easy5 Basic Package	MSC		5
Mentat Package	MSC		6
Marc Solver Package	MSC		6
MSC Apex Modeler with Patran Bundle	MSC		10
MSC Apex Structures	MSC		6
MSC Fatigue Basic Solver Package	MSC		6
MSC Nastran Linear Structures Package	MSC		10
MSC Nastran Explicit - Dytran-Based	MSC		10
MSC Nastran Optimization Package	MSC		10
Simufact Forming Hub	MSC		3
Simufact Forming Parallel Core	MSC		3
Simufact Welding Hub	MSC		3
Simufact Welding Parallel Cores (4 core package)	MSC		4
Simufact Additive Hub/8	MSC		3
scFLOW - Standard Set- prepost	MSC		3
scFLOW - HPC-8 Solver	MSC		3
scFLOW- additional HPC Solver 8 parallel	MSC		3
FEAST	ISRO		30
Linear static analysis	ISRO		
Free-vibration analysis	ISRO		
Buckling analysis	ISRO		
Transient response	ISRO		
Frequency response	ISRO		

	Random response	ISRO			
	Base excitation	ISRO			
	Inertia relief method	ISRO			
	Visco-elastic Analysis	ISRO			
	Thermal Analysis	ISRO			
	Integration and Installation	TATA Technologies			
	Electrical Wiring and Networking	TATA Technologies			
	Technology Tools Environment	TATA Technologies			
	Customized Domain Creation (Server-Client)	TATA Technologies			
	Industry Content Development	TATA Technologies			
	Case study Based Experiential Learning	TATA Technologies			
<b>Product Lifecycle Management</b>	Industrial Workstation	HP Z440 or equivalent	32 GB RAM, NVIDIA QuadroK1200, Intel Xeon E5 processor 3.5GHz, 1TB HDD, USBKeyboard & USB OpticalMouse		10
	Monitor	HP Z23N or equivalent	IPS Display, Narrow Bezel		20
	Technology Tools as per list below				
	WC PDM Link, Project Link	PTC PKG-4069-FN			1
	University Edition				
	Integration and Installation	TATA Technologies			
	Electrical Wiring and Networking	TATA Technologies			
	Technology Tools Environment	TATA Technologies			
	Customized Domain Creation (Server-Client)	TATA Technologies			
	Industry Content Development	TATA Technologies			
	Case study Based Experiential Learning	TATA Technologies			

<b>Server &amp; Common facilities</b>	Server	Dell PowerEdge R430 or equivalent	1U rack server, Intel Xeon E5- 2640 v4 2.4GHz processor, 2.4TB 10K RPM SAS 2.5in Hot-plug Hard Drive, 16GB RDIMM, 2400MT/s, Dual Rank, System Memory (8qty), with Windows Server 2016 Standard OS.	2
	Rack for Server	Dell	Standard 1U Rack	2
	Computer Linear Table & Chair set	Wipro/Godrej/Envy	4' by 2' table top, with industry standard partitions with cable channels and electric and LAN boards, Office chairs with caster wheels, lumber support, Mesh Back and tilting and revolving support	43
	Projector	Casio XJ A257	WXGA 1280 x 800 Native Resolution, 3000 ANSI Lumens, 2x Optical Zoom with HDMI and VGA cables of 3m each	3
	White board with Stand 4 x 3	4' X 3' Standard		3
	Printer	Canon iR adv 4225	A3 Monochrome Laser Multifunctional (Reader / Printer Separated), 600X600 dpi Resolution, 25-400% Copyratio,	1
	Intallation, Wiring, Networking etc.	TATA Technologies		
	<b>I-get-it e-learning Platform</b>	TATA Technologies		40
<b>Domain Exploration Center</b>				
<b>CIIIT Center</b>	<b>Equipment</b>	<b>Make / Model</b>	<b>Specification</b>	<b>Qty</b>
<b>Classroom</b>	Industrial Workstation	HP Z240 or equivalent	8 GB RAM, NVIDIA Quadro K420 2GB 1st GFX, Intel Core i7-6700 3.4 8M 4C TWR processor, 256GB HDD, USB Keyboard & USB Optical Mouse	10

	Monitor	HP 20"or equivalent	20" Display		10
	Computer Linear Table & Chair set	Wipro/Godrej/Envy	4' by 2' table top, with industry standard partitions with cable channels and electric and LAN boards, Office chairs with caster wheels, lumber support, Mesh Back and tilting and revolving support		11
	Integration and Installation	TATA Technologies			
	Electrical Wiring and Networking	TATA Technologies			
	Technology Tools Environment	TATA Technologies			
	Customized Domain Creation (Server-Client)	TATA Technologies			
	Industry Content Development	TATA Technologies			
	Case study Based Experiential Learning	TATA Technologies			
<b>Power Train</b>	Engines For Assembly And Disassembly	TATA Technologies			1
	Transmission / Gearbox Demo Kit	TATA Technologies			1
	Cooling System	TATA Technologies			1
	Fuel System & Urea Handling	TATA Technologies			1
	Exhaust System	TATA Technologies			1
	Installation and Integration	TATA Technologies			
	Design and Development & Customization	TATA Technologies			
<b>Chassis</b>	Commercial Vehicle Chassis Structure	TATA Technologies			1
	Rear Axle	TATA Technologies			1
	Suspension System	TATA Technologies			1
	Steering Wheel and Tyre Systems	TATA Technologies			1
	Brakes & Controls	TATA Technologies			1

	Engine and Transmission Mounts				1
	Installation and Integration	TATA Technologies			
	Design and Development & Customization	TATA Technologies			1
<b>Body Engineering</b>	Body in White	TATA Technologies			1
	HVAC Demo Kit	TATA Technologies			1
	Seating Systems	TATA Technologies			1
	Closures	TATA Technologies			1
	Dashboard & Center Console	TATA Technologies			1
	Front & Rear Bumper	TATA Technologies			1
	Installation and Integration	TATA Technologies			
	Design and Development & Customization	TATA Technologies			
<b>Electrical &amp; Electronics</b>	Electronic Ignition System Of An Automobile 4 Wheeler	TATA Technologies			1
	Demonstration Board Of Working Model MPFI System With Motorized control	TATA Technologies			1
	Instruction Kit For Charging System	TATA Technologies			1
	Instruction Kit For Starting System	TATA Technologies			1
	Lighting and Wiring System	TATA Technologies			1
	Installation and Integration	TATA Technologies			
	Design and Development & Customization	TATA Technologies			
<b>Assembly &amp; Integration</b>	SUV with Cut Sections Of 30 Different Assemblies/Parts	TATA Technologies			1
	Tractor Cut Section	TATA Technologies			1
	Installation, Maintenance And Repair Tool Kit	TATA Technologies			1



	Installation and Integration	TATA Technologies			
	Design and Development & Customization	TATA Technologies			
<b>Common Utilities</b>	Air Compressor	Elgi/KND	10 psi, 7.5BHP		1
	Car Lift	ATS Elgi	Hydraulic Lift Model With Lifting Capacity 4 Ton		1
	Portable Crane	NilKamal NKMFC02	Capacity: 2000Kg		1
	Hydraulic Hand Pallet	Aspirant	Capacity:2500Kg, Raised Height: 200mm with Nylon Steering.		1
	Multi-Purpose Tool Box		Screw Drivers, Spanners, Files, Hammer, measuring instruments etc.		1
	Display Tables	Fabricated	Heavy duty, 8'X4'X2.7'(LXWXH) with dual plys and caster wheels		5
	Epoxy Flooring	Third Party			
<b>Mechatronics &amp; IoT Center</b>					
<b>CIIT Center</b>	<b>Equipment</b>	<b>Make / Model</b>	<b>Specification</b>		<b>Qty</b>
<b>Classroom</b>	Industrial Workstation	HP Z240 or equivalent	8 GB RAM, NVIDIA Quadro K420 2GB 1st GFX, Intel Core i7-6700 3.4 8M 4C TWR processor, 256GB HDD, USB Keyboard & USB Optical Mouse		10
	Monitor	HP 20" or equivalent	20" Display		10
	Computer Linear Table & Chair set	Wipro/Godrej/Envy	4' by 2' table top, with industry standard partitions with cable channels and electric and LAN boards, Office chairs with caster wheels, lumber support, Mesh Back and tilting and revolving support		11
	Integration and Installation	TATA Technologies			
	Electrical Wiring and Networking	TATA Technologies			

	Technology Tools Environment	TATA Technologies			
	Customized Domain Creation (Server-Client)	TATA Technologies			
	Industry Content Development	TATA Technologies			
	Case study Based Experiential Learning	TATA Technologies			
<b>Mechatronics</b>	Reverse Camera And Parking Assist System	TATA Technologies			1
	Supplementary Restrain System (Air Bag System)	TATA Technologies			1
	ABS Brake System Abs	TATA Technologies			1
	Window Winding	TATA Technologies			1
	Radiator Assembly	TATA Technologies			1
	Wiper System	TATA Technologies			1
	Human Machine Interface	TATA Technologies			1
	ECUs and Sensors Set	TATA Technologies			1
	Window AC	TATA Technologies			1
	Split AC	TATA Technologies			1
	Refrigerator	TATA Technologies			1
	Washing machine (Top Door)	TATA Technologies			1
	Mixer Grinder Cut-section	TATA Technologies			1
	Integration and Installation	TATA Technologies			
	Design and Development & Customization	TATA Technologies			
<b>IoT</b>	IoT Kit with following	TATA Technologies			10
	Motors and Sensors	TATA Technologies			
	IoT Communication Tools and Equipment	TATA Technologies			
	IoT Data Analytics	TATA Technologies			

	Cameras, Display and Antenna	TATA Technologies			
	Thingworx	PTC SAS-3130-F-			2
	ThingWorx SCO Internship License	PTC SPN-4132-F-			2
	ThingWorx SCP Internship License	PTC SPN-4135-F-			2
	<b>Augmented Reality</b>				
	Thingworx Studio-5 years				1
	Integration and Installation	TATA Technologies			
	Design and Development & Customization	TATA Technologies			
<b>Green Initiative</b>	Electrical Vehicle Demo Kit	TATA Technologies			1
	EE Propulsion with Battery Pack	TATA Technologies			
	Battery Monitoring System	TATA Technologies			
	Induction Motor with Control	TATA Technologies			
	Inverter	TATA Technologies			
	High Voltage wiring	TATA Technologies			
	Integration and Installation	TATA Technologies			
	Design and Development & Customization	TATA Technologies			
<b>Common Utilities</b>	Soldering Station with Soldering Tips	Weller WSD81I	Soldering station, 1 channel, 70 W / 230 V Soldering Station with 1.6 mm Soldering Tips		3
	Hot air heat gun	Weller 6966	EK Hot air heat gun 50 W / 230 V		3
	Table top Magnifier with Lamp.	Precise	Table Top Magnifier with Light - 8X		3
	Desoldering Pump	Weller SA21A	Standard		3
	True RMS 6000 Count Handheld Digital Multimeter, Basic	Fluke 117	Standard		3

Triple Output DC power supply	Itech IT6322A	Triple Output DC power supply 30V/3A/90W*2CH; 5V/3A/15W*1CH	3
True RMS 1000A AC clamp meter	Fluke319	Standard	3
Function Generator - 2 channel	Tektronix AFG1022	25 MHz Arbitrary Function Generator	3
Oscilloscope 100MHz ( Basic Version)	Tektronix TBS1102B	100Mhz 2 channel Digital storage oscilloscope	3
ESD rubber MAT 1x10 mtr with Installation			3
Hydrometer	Thimson T2B	Standard	3
Electrical Installation, Maintenance and Repair Tool Kit			1
Epoxy Flooring	Third Party		1

**Integrated Advance Manufacturing Center**

<b>CIIIT Center</b>	<b>Equipment</b>	<b>Make / Model</b>	<b>Specification</b>	<b>Qty</b>
<b>Computer Integrated Manufacturing</b>	Industrial Workstation	HP Z240 or equivalent	8 GB RAM, NVIDIA QuadroK420 2GB 1st GFX, Intel Core i7-6700 3.4 8M 4C TWRprocessor, 256GB HDD, USB Keyboard & USB OpticalMouse	10
	Monitor	HP 20" or equivalent	20" Display	10
	Computer Linear Table & Chair set	Wipro/Godrej/Envy	4' by 2' table top, with industry standard partitions with cable channels and electric and LAN boards, Office chairs with caster wheels, lumber support, Mesh Back and tilting and revolving support	11
	Integration and Installation	TATA Technologies		
	Electrical Wiring and Networking	TATA Technologies		
	Technology Tools Environment	TATA Technologies		

	Customized Domain Creation (Server-Client)	TATA Technologies			
	Industry Content Development	TATA Technologies			
	Case study Based Experiential Learning	TATA Technologies			
<b>Industrial Robotics</b>	<b>Industrial Robot</b>	Kuka	10Kg Payload, 6 Axis,		2
	Welding Power Source and Welding Controller	KEMPI	Finearc 500W		1
	<b>Robotic Cell 1</b>	NA (Integrator)			1
	Ultrasonic Welding	Rinco	35KHz Ultrasonic Generator		
	Sealant Dispensing	Henkel	Fencing with One Safety Door (3mtr X 3mtr X 1.8mtr), Robot & Fencing Grouting, Holding Fixture, Gun Mounting Plate, Pneumatic Solenoid, FRP, Ducting, Holding Gripper for Cartage, Pointed end effector (modular tooling) with interchangeable pen or docking station, Festo Pneumatic Gripper 2 Jaw, electric cable, Sensors and Servo Stabilizer		
	<b>Robotic Cell 2</b>	NA (Integrator)			1
	Arc Welding Cell with Electro-Pneumatic Jigs	Kempi	Control panel with PLC Mitsubishi FX3G, switchgear items, Siemens MCB, Nexus Servo Stabilizer, Orbital Safety Light Curtain, Fixture, Pedestal and cables		
	Assembly Brake for Laser Welding Experiential Learning	TATA Technologies			320
	<b>Industrial Robot</b>	TATA Automation Limited	10Kg 5 axis		1

	Pick and place Robotic Cell	TATA Automation Limited	Base Plate, EOAT-Gripper, Vacuums Gripper, Assembly, Illuminated Table, Safety Fencing with Door, MS Wiremesh Enclosure, Software, Pedestal and Cables		
	Visual Sorting and Audio Control	TATA Automation Limited	Audio Control System- Fine, Vision Camera- Logitech C290, Sorting Samples, Camera Mounting Bracket, and Laptop		
	Pneumatic Integration for all Robots	TATA Technologies			3
	Installation and Integration	TATA Technologies			
	Design and Development & Customization	TATA Technologies			
<b>Manufacturing Execution System</b>	Conveyor (12m) with PLC, Emergency Stop & Authorization Box.	NA (Integrator)	Slat Conveyor, Working Length of 12m, 6 Stations of 2m each, Allen Bradley Make PLC of Compact Logic L16-ER, Bonfiglioli Motor and Cables		1
	Station Tube Lights and PC Stands to Mount PC's	NA (Integrator)			6
	Pick to Light Sensor Integration	TATA Technologies	Junction Boxes, PLC cables, and Sensor Cables		1
	Desktop-Label Printer	Zebra GT800	Resolution 203 dpi/8 dots per mm, Memory 8 MB Flash, 8 MB SDRAM, Print Speed 5"/127 mm per second, and Zebra Solutions Software.		1
	Bluetooth-Scanner	ZEBRA LI4278	Rechargeable1D, USB Scanner, Scan Speed 547 scans per second, Batch Mode Operation, Flexible Mountingand Bluetooth 2.1		7

Pick to Light Racks with Bin system for 6 Nodes	NA (Integrator)	Specially customized Aluminum rack with Pick to Light sensor mounting brackets.		3
Pick to light Sensor: K50APFF100GREQ-K50 E-Series EZ-LIGHT: 2-Color Fixed-Field Sensor	Banner K50	K50 Series EZ-LIGHT: 2-Color Touch Sensor; Job Light Overrides Touch Light; Voltage: 12-30V dc; Housing: Polycarbonate; IP67 IP69K; Input: PNP (NO); Colors: Green Red; Euro-style Quick-Disconnect Connector		18
Pick to Light Cables: MQDC1-506-Euro-style Quick Disconnect Cable	Banner MQDC1-506	Cables for K50 Sensors		18
Tower Light	Banner TL50GYRA	3-Color Audible Indicator, Voltage: 18-30Vdc or 24V ac, Environ. Rating: IP50, Input: Bimodal, Colors: Green Yellow Red, 2 m cable		3
Mechanical Component for assembly				12
Workstations (Thin Client with Windows 10 IOT Enterprise OS)	HP Z240	8 GB RAM, NVIDIA Quadro K420 2GB 1st GFX, Intel Core i7-6700 3.4 8M 4C TWR processor, 256GB HDD, USB Keyboard & USB Optical Mouse		6
Factory Magix	TATA Technologies			1
Installation and Integration	TATA Technologies			
Design and Development & Customization	TATA Technologies			

<b>Advance Manufacturing</b>	Vertical Machining Center with Automatic Tool Changer	Jyoti Automation PX 10	Table size: 660X360mm, Max load on Table: 400Kg, Travel: 510X410X510mm, Cutting Feed 10 m/min, Full Power Speed Range: 1500 - 4200 rpm, with 20 Tool ATC	1
	CNC Milling Machine	Jyoti Automation DX 200- 3A	AC Main Spindle Motor 7/10.5 kW, 165 mm Dia.3 Jaw Hydraulic Chuck & Cylinder, 8 Station High Speed Bi-directional Servo Turret, Electrical Cabinet 420 V / 50 Hzwith Air Conditioning Unit.	1
	Milling Machine	Esteam ETM 410	Center Height: 205mm, Swing Over Board: 410mm, Swing Ove Cross Side: 255mm, Distance between Center: 1000/1500mm, Spindle Bore: 52mm, 2.2/3.3 kw motor,	1
	CO2 Laser engraving & cutting machine	SIL SIL_1212	CO2 DC Glass Laser Tube, Laser Power: 80 Watt, Working Area: 1200 mm X 1200 mm, Imported rails, With Double Motorized Z Axis Up & Down System, Honeycomb table(4X3Ft), Red Beam system and Accessories	1
	Brazing Set up			1
	Hydraulic Pipe Bending Machine			1
	Hydraulic Press			1
	Tools and Dies Setup	Tata Technologies		2
	Installation and Integration	TATA Technologies		
	Designe and Development & Customization	TATA Technologies		



<b>Reverse Engineering</b>	3D Scanner	EinScan Pro+	Scan Shot accuracy: 0.1mm- 0.05mm, Scan Speed: 550000 points/sec, Single Scan Range: 400-600mm, Optimal Distance: 500mm, Memory: 8GB, and EinScan 2.0 Software	2
<b>Additive Manufacturing</b>	Industrial 3D Printer Plastics	Aha 3D, Aha Star	Build Volume: 500X500X500mm, with heated Chamber.	1
	Prototype 3D Printer Plastics	Ultimaker 3 Extended	FDB, Dual extrusion print head with a unique auto-nozzle lifting system and swappable print core, Build Volume: Left nozzle: 215 x 215 x 300 mm Rightnozzle: 215 x 215 x 300 mm	1
<b>Common Utilities</b>	Air Compressor	Elgi/KND	10 psi, 7.5BHP	2
	Portable Crane	NilKamal	NKMFC02, Capacity: 2000Kg	1
	Hydraulic Hand Pallet	Aspirant	Capacity:2500Kg, Raised Height: 200mm with Nylon Steering.	1
	Industry workflow Charts			20
	LED Display	Samsung Series 6 55MU6470 4K UHD LED Smart TV	Display Size: 55"	1
	Multi-Purpose Tool Box		Screw Drivers, Spanners, Files, Hammer, measuring instruments etc.	2
	Consumables (one time)			1
	Epoxy Flooring			

<b>Description</b>	<b>HP Z440 Workstation or equivalent</b>
Specification:	
CPU	HP Single Unit Packaging
	HP Z440 700W 90 Percent Efficient Chassis
Operating System	Win 10 Pro 64 Downgrade Win 7 64 INDIA
	Operating System Load to PCIe
	Windows 7 Professional 64-bit OS DVD + Driver DVD INDIA



# CIIIT IKGPTU SULTANPUR LODHI CAMPUS

## Product Design and Development

CIIIT Center	Equipment	Make / Model	Specification	Proprietary	Qty
<b>Design and Engineering</b>	Industrial Workstation	HP Z440 or equivalent	32 GB RAM, NVIDIA Quadro K1200, Intel Xeon E5 processor 3.5GHz, 1TB HDD, USB Keyboard & USB Optical Mouse		20
	Monitor	HP Z23N or equivalent	IPS Display, Narrow Bezel		40
	Technology Tools as per list below				
	Creo Simulate	PTC PKG-3502-F			10
	Creo Reverse Engineering Extension	PTC PTN-3216-F			5
	Creo Human Factors Analysis Extension	PTC CPT-3313-L			5
	Adams Studio Package	MSC			3
	Adams Machinery Module Bundle	MSC			2
	Adams Car Studio	MSC			2
	Adams Structures Bundle	MSC			2
	Easy5 Basic Package	MSC			2
	Mentat Package	MSC			1
	Marc Solver Package	MSC			1
	MSC Apex Modeler with Patran Bundle	MSC			6
	MSC Apex Structures	MSC			3
	MSC Fatigue Basic Solver Package	MSC			3
	MSC Nastran Linear Structures Package	MSC			3
	MSC Nastran Explicit - Dytran-Based	MSC			2
	MSC Nastran Optimization Package	MSC			2
	Simufact Forming Hub				2
	Simufact Forming Parallel Core	MSC			2
	Simufact Welding Hub	MSC			2

Simufact Welding Parallel Cores (4 core package)	MSC			3
Simufact Additive Hub/8	MSC			1
scFLOW - Standard Pre-Post	MSC			2
scFLOW - HPC8 Solver	MSC			1
scFLOW - Additional HPC Solver - 8 Parallel	MSC			1
FEAST	ISRO			15
Linear static analysis	ISRO			
Free-vibration analysis	ISRO			
Buckling analysis	ISRO			
Transient response	ISRO			
Frequency response	ISRO			
Random response	ISRO			
Base excitation	ISRO			
Inertia relief method	ISRO			
Visco-elastic Analysis	ISRO			
Thermal Analysis	ISRO			
University Plus Site with PLMS	PTC PKG-4112P-FN			100
Creo Illustrate - Floating	PTC PKG-7608-F			5
Mathcad University Edition	PTC PKG-7544-FN			1
WC PDM Link, Project Link	PTC PKG-4069-FN			1
University Edition				
Integration and Installation	TATA Technologies			
Electrical Wiring and Networking	TATA Technologies			
Technology Tools Environment	TATA Technologies			
Customized Domain Creation (Server-Client)	TATA Technologies			
Industry Content Development	TATA Technologies			
Case study Based Experiential Learning	TATA Technologies			

	Server	Dell PowerEdge R430 or equivalent	1U rack server, Intel Xeon E5- 2640 v4 2.4GHz processor, 2.4TB 10K RPM SAS 2.5in Hot-plug Hard Drive, 16GB RDIMM, 2400MT/s, Dual Rank, System Memory (8qty), with Windows Server 2016 Standard OS.		2
	Rack for Server	Dell	Standard 1U Rack		2
	Computer Linear Table & Chair set	Wipro/Godrej/Envy	4' by 2' table top, with industry standard partitions with cable channels and electric and LAN boards, Office chairs with caster wheels, lumber support, Mesh Back and tilting and revolving support		21
	Projector	Casio XJ A257	WXGA 1280 x 800 Native Resolution, 3000 ANSI Lumens, 2x Optical Zoom with HDMI and VGA cables of 3m each		1
	White board with Stand 4 x 3	4' X 3' Standard			1
	Intallation, Wiring, Networking etc.	TATA Technologies			
	<b>I-get-it e-learning Platform</b>	TATA Technologies			20
<b>Integrated Advance Manufacturing Center</b>					
<b>CIIT Center</b>	<b>Equipment</b>	<b>Make / Model</b>	<b>Specification</b>		<b>Qty</b>
<b>Computer Integrated Manufacturing</b>	Industrial Workstation	HP Z240 or equivalent	8 GB RAM, NVIDIA Quadro K420 2GB 1st GFX, Intel Core i7-6700 3.4 8M 4C TWR processor, 256GB HDD, USB Keyboard & USB Optical Mouse		10
	Monitor	HP 20" or equivalent	20" Display		10

	Computer Linear Table & Chair set	Wipro/Godrej/Envy	4' by 2' table top, with industry standard partitions with cable channels and electric and LAN boards, Office chairs with caster wheels, lumber support, Mesh Back and tilting and revolving support		11
	Integration and Installation	TATA Technologies			
	Electrical Wiring and Networking	TATA Technologies			
	Technology Tools Environment	TATA Technologies			
	Customized Domain Creation (Server-Client)	TATA Technologies			
	Industry Content Development	TATA Technologies			
	Case study Based Experiential Learning	TATA Technologies			
<b>Industrial Robotics</b>	<b>Industrial Robot</b>	Kuka	10Kg Payload, 6 Axis,		1
	Welding Power Source and Welding Controller	KEMPI	Finarc 500W		1
	<b>Robotic Cell 1</b>	NA (Integrator)			1
	Arc Welding Cell with Electro-Pneumatic Jigs	Kempi	Control panel with PLC Mitsubishi FX3G, switchgear items, Siemens MCB, Nexus Servo Stabilizer, Orbital Safety Light Curtain, Fixture, Pedestal and cables		
	Assembly Brake for Laser Welding Experiential Learning	TATA Technologies			320
	<b>Industrial Robot</b>	TATA Automation Limited	10Kg 5 axis		1

	Pick and place Robotic Cell	TATA Automation Limited	Base Plate, EOAT-Gripper, Vacuums Gripper, Assembly, Illuminated Table, Safety Fencing with Door, MS Wiremesh Enclosure, Software, Pedestal and Cables		
	Visual Sorting and Audio Control	TATA Automation Limited	Audio Control System-Fifine, Vision Camera-Logitech C290, Sorting Samples, Camera Mounting Bracket, and Laptop		
	Pneumatic Integration for all Robots				2
	Installation and Integration	TATA Technologies			
	Design and Development & Customization	TATA Technologies			
<b>Manufacturing Execution System</b>	Conveyor (12m) with PLC, Emergency Stop & Authorization Box.	NA (Integrator)	Slat Conveyor, Working Length of 12m, 6 Stations of 2m each, Allen Bradley Make PLC of Compact Logic L16-ER, Bonfiglioli Motor and Cables		1
	Station Tube Lights and PC Stands to Mount PC's	NA (Integrator)			3
	Pick to Light Sensor Integration	TATA Technologies	Junction Boxes, PLC cables, and Sensor Cables		1
	Desktop-Label Printer	Zebra GT800	Resolution 203 dpi/8 dots per mm, Memory 8 MB Flash, 8 MB SDRAM, Print Speed 5"/127 mm per second, and Zebra Solutions Software.		1

Bluetooth-Scanner	ZEBRA LI4278	Rechargeable1D, USB Scanner, Scan Speed 547 scans per second, Batch Mode Operation, Flexible Mounting and Bluetooth 2.1		3
Pick to Light Racks with Bin system for 6 Nodes	NA (Integrator)	Specially customized Aluminum rack with Pick to Light sensor mounting brackets.		1
Pick to light Sensor: K50APFF100GREQ-K50 E-Series EZ-LIGHT: 2-Color Fixed-Field Sensor	Banner K50	K50 Series EZ-LIGHT: 2-Color Touch Sensor; Job Light Overrides Touch Light; Voltage: 12-30V dc; Housing: Polycarbonate; IP67 IP69K; Input: PNP (NO); Colors: Green Red; Euro-style Quick-Disconnect Connector		6
Pick to Light Cables: MQDC1-506-Euro-style Quick Disconnect Cable	Banner MQDC1-506	Cables for K50 Sensors		6
Tower Light	Banner TL50GYRA	3-Color Audible Indicator, Voltage: 18-30Vdc or 24V ac, Environ. Rating: IP50, Input: Bimodal, Colors: Green Yellow Red, 2 m cable		1
Mechanical Component for assembly				6
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	CO2 Laser engraving & cutting machine	SIL	CO2 DC Glass Laser Tube, Laser Power: 80 Watt, Working Area: 900 mm X 600 mm, Imported rails, With Double Motorized Z Axis Up & Down System, Honeycomb table(4X3Ft), Red Beam system and Accessories		1
	Installation and Integration	TATA Technologies			
	3D Scanner	EinScan SP	Scan Shot accuracy: 0.05mm Scan Speed: <4sec, Single Scan Range: 200X150mm,		1
	Prototype 3D Printer Plastics	Ultimaker 3	FDB, Dual extrusion print head with a unique auto-nozzle lifting system and swappable print core, Build Volume: Left nozzle: 215 x 215 x 200 mm Right nozzle: 215 x 215 x 200 mm		2
	Integration and Installation				
	Air Compressor	Elgi/KND	10 psi, 7.5BHP		1

Portable Crane	NilKamal	NKMFC02, Capacity: 2000Kg		1
Hydraulic Hand Pallet	Aspirant	Capacity:2500Kg, Raised Height: 200mm with Nylon Steering.		1
Educational Charts	TATA Technologies			20
LED Display	Samsung Series 6 55MU6470 4K UHD LED Smart TV	Display Size: 55"		1
Multi-Purpose Tool Box		Screw Drivers, Spanners, Files, Hammer, measuring instruments etc.		2
Consumables (one time)				1
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