



# SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Sheriguda (V), Ibrahimpatnam (M), RR District – 501 510

## FOURTH MEETING OF BOARD OF STUDIES

Held on 03<sup>rd</sup> July, 2018 at 03.30 Hours

The finalized R18 Regulations of SICET (UGC Autonomous)  
Rules, Academic Regulations, Course Structure for 1<sup>st</sup> Year I & II  
Semesters and Syllabus of B.Tech. Courses

### Board of Studies Committee – MECHANICAL ENGINEERING

Sl.No.	Name	Designation	
1	Dr. P. Mallesham	Professor & HOD, SICET	Chairperson
2.	Dr. A.V.S.S.K.S. Gupta	Professor of ME, JNTUHCEH	JNTUH Nominee
3.	Dr. I. Satyanarayana	Professor in SIET	Subject Expert
4.	Dr. R.A. Srivardhan	Scientist F, DRDL	Industry Expert
5.	Dr. D. Madan	Assistant Professor, SICET	Member
6.	Mr. M. Srinivasa Rao	Assistant Professor, SICET	Member

### MEETING AGENDA

The Board of studies of Sri Indu College of Engineering and Technology will meet at 03.30 hours on 03<sup>rd</sup> July, 2018 for discussing the following agenda.

- Ø Welcome by Principal
- Ø Framing of Academic guidelines
- Ø Preparation of syllabus of B.Tech. Courses.

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Sheriguda (V), Ibrahimpatnam (M)  
R.R. Dist. Telangana - 501 510



**FOURTH MEETING OF BOARD OF STUDIES**

Held on 03<sup>rd</sup> July, 2018 at 03.30 Hours

**The finalized R18 Regulations of SICET (UGC Autonomous)  
Rules, Academic Regulations, Course Structure for 1<sup>st</sup> Year – I & II  
Semesters and Syllabus of B.Tech. Courses**

**Board of Studies Committee – MECHANICAL ENGINEERING**

Sl.No.	Name	Designation	
1	Dr. P. Mallesham	Professor & HOD, SICET	Chairperson
2.	Dr. A.V.S.S.K.S. Gupta	Professor of ME, JNTUHCEH	JNTUH Nominee
3.	Dr. I. Satyanarayana	Professor in SIJET	Subject Expert
4.	Dr. R.A. Srivardhan	Scientist F, DRDL	Industry Expert
5.	Dr. D. Madan	Assistant Professor, SICET	Member
6.	Mr. M. Srinivasa Rao	Assistant Professor, SICET	Member

In the fourth meeting of BOS in Mechanical Engg. Dept. of Sri Indu College of Engineering & Technology (UGC Autonomous), the Principal, SICET welcomed all the members of BOS in Mechanical Engg.. He informed the members that due to the outstanding performance of the college in the previous years, UGC conferred Autonomous status on this college from the academic year 2014-2015.


The Dean, Academic Affairs and Evaluation (DAE) explained that the fourth meeting of Board of Studies is convened to approve and finalize R18 Regulations of SICET (UGC Autonomous) in which all the Rules, Academic Regulations, Course Structure for first year I & II Semesters of UG Courses along with the Syllabus of B.Tech. Courses. He said that the draft academic regulations, schemes of instruction and syllabi were prepared by the HODs in consultation with their senior staff members, as per the guidelines set out by JNTUH for consideration of the members of the BOS. He urged the members to deliberate on these draft proposals and approve them with corrections and modifications, if any.

  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Technology  
Sheriguda (V), Ibrahimpatnam (M),  
RR District, Telangana - 501 510

The Chairman, BOS in Mechanical Engg., then placed these documents before the members. After thorough discussion the following items are approved.

1. The Academic Regulations
2. The Syllabus of B.Tech. Course in Mechanical Engg.

The Chairman, BOS, thanked all the members for being present, and for their co-operation in approving all the items of the Agenda.

  
CHAIRPERSON  
(Dr. P. Mallesham)

  
JNTUH NOMINEE  
(Dr. A.V.S.S.K.S. Gupta)

  
SUSPECT EXPERT  
(Dr. I. Satyanarayana)

  
INDUSTRY EXPERT  
(Dr. R.A. Srivardhan)

  
MEMBER  
(Dr. D. Madan)

  
MEMBER  
(Mr. M. Srinivasa Rao)

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Sharada Nagar, Ibrahimpatnam(M),  
R.R. Dist. Telangana -201 511



# SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

(an Autonomous Institution under UGC, New Delhi)  
Sheriguda (V), Ibrahimpatnam (M), RR District – 501 510

## FOURTH MEETING OF BOARD OF STUDIES

Held on 11<sup>th</sup> June, 2019 at 10.30 Hours

The finalized R18 Regulations of SICET (UGC Autonomous)  
Rules, Academic Regulations, Course Structure for II, III & IV Years  
and Syllabus of B.Tech. Courses

### Board of Studies Committee –Electronics & Communication Engineering (ECE)

SLNo.	Name	Designation	
1	Dr. N.C. Sendhilkumar	Professor & HOD, SICET	Chairperson
2.	Dr. D. Srinivasa Rao	Professor of ECE, JNTUHCEH	JNTUH Nominee
3.	Dr. N. Tamilarasan	Assistant Professor, SIJET	Subject Expert
4.	Dr. M. Chandra Shekar	Scientist, BDL, Hyd	Industry Expert
5.	Mr. K. Ashok Babu	Professor, SICET	Member
6	Dr. G. Suresh	Assistant Professor, SICET	Member

### MEETING AGENDA

The Board of studies of Sri Indu College of Engineering and Technology will meet at 10:30 hours 11<sup>TH</sup> June, 2019 for discussing the following agenda.

- Ø Welcome by Principal
- Ø Framing of Academic guidelines
- Ø Preparation of syllabus of B.Tech. Courses.

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Sheriguda V, Ibrahimpatnam - 501 510  
R.R. Dist. Ibrahimpatnam - 501 510



# SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

(an Autonomous Institution under UGC, New Delhi)  
Sheriguda (V), Ibrahimpatnam (M), RR District – 501 510

## FOURTH MEETING OF BOARD OF STUDIES

Held on 11<sup>th</sup> June, 2019 at 10.30 Hours

The finalized R18 Regulations of SICET (UGC Autonomous)  
Rules, Academic Regulations, Course Structure for II, III & IV Years  
and Syllabus of B.Tech. Courses

### Board of Studies Committee –Electronics & Communication Engineering (ECE)

Sl.No.	Name	Designation	
1	Dr. N.C. Sendhilkumar	Professor & HOD, SICET	Chairperson
2.	Dr. D. Srinivasa Rao	Professor of ECE, JNTUHCEH	JNTUH Nominee
3.	Dr. N. Tamilarasan	Assistant Professor, SIET	Subject Expert
4.	Dr. M. Chandra Shekar	Scientist, BDL, Hyd	Industry Expert
5.	Mr. K. Ashok Babu	Professor, SICET	Member
6	Dr. G. Suresh	Assistant Professor, SICET	Member

In the fourth meeting of BOS in ECE Dept. of Sri Indu College of Engineering & Technology (UGC Autonomous), the Principal, SICET welcomed all the members of BOS in ECE. He informed the members that due to the outstanding performance of the college in the previous years, UGC conferred Autonomous status on this college from the academic year 2014-2015.

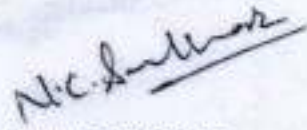
The Dean, Academic Affairs and Evaluation (DAE) explained that the fourth meeting of Board of Studies is convened to approve and finalize R18 Regulations of SICET (UGC Autonomous) in which all the Rules, Academic Regulations, Course Structure for II, III & IV Years of UG Courses along with the Syllabus of B.Tech. Courses. He said that the draft academic regulations, schemes of instruction and syllabi were prepared by the HODs in consultation with their senior staff members, as per the guidelines set out by JNTUH for consideration of the members of the BOS. He urged the members to deliberate on these draft proposals and approve them with corrections and modifications, if any.

  
Sri Indu Institute of Engineering & Tech  
Sheriguda (V), Ibrahimpatnam (M)  
R.R. Dist. Telangana - 501 510

The Chairman, BOS in ECE, then placed these documents before the members. After thorough discussion the following items are approved.

1. The Academic Regulations
2. The Syllabus of B.Tech. Courses in ECE

The Chairman, BOS, thanked all the members for being present, and for their co-operation in approving all the items of the Agenda.




CHAIRPERSON  
(Dr. N.C. Sendhilkumar)



JNTU NOMINEE  
(Dr. D. Srinivasa Rao)



SUBJECT EXPERT  
(Dr. N. Tamarasan)



Industry Expert  
(Dr. M. Chandra Shekar)



MEMBER  
(Mr. K. Ashok Babu)



MEMBER  
(Dr. G. Suresh)



# SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Sheriguda (V), Ibrahimpatnam (M), RR District – 501 510

## FOURTH MEETING OF BOARD OF STUDIES

Held on 09<sup>th</sup> July, 2018 at 10.30 Hours

The finalized R18 Regulations of SICET (UGC Autonomous)  
Rules, Academic Regulations, Course Structure for 1<sup>st</sup> Year – I & II  
Semesters and Syllabus of B.Tech. Courses

### Board of Studies Committee – Mathematics

Sl.No.	Name	Designation	
1	Dr. M. Raja	Professor & HOD, SICET	Chairperson
2.	Dr. M.N. Raja Shekar	Professor in Mathematics, JNTUH CEJ	JNTUH Nominee
3.	Mrs. Ch. Saritha	Associate Professor, SIET	Subject Expert
4.	Mr. S. Krishna	Technical Director, National Informatics Center, Hyderabad	Industry Expert
5.	Mr. M. Chalapathi Rao	Assistant Professor, SICET	Member
6	Mr. M. Ranjit Kumar	Assistant Professor, SICET	Member

### MEETING AGENDA

The Board of studies of Sri Indu College of Engineering and Technology will meet at 10.30 hours 09<sup>th</sup> July, 2018 for discussing the following agenda.

- Ø Welcome by Principal
- Ø Framing of Academic guidelines
- Ø Preparation of syllabus of B.Tech. Courses.

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Sheriguda (V), Ibrahimpatnam (M),  
R.R. Dist. Telangana - 501 510



# SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Sheriguda (V), Ibrahimpatnam (M), RR District - 501 510

## FOURTH MEETING OF BOARD OF STUDIES Held on 09<sup>th</sup> July, 2018 at 10.30 Hours The finalized R18 Regulations of SICET (UGC Autonomous) Rules, Academic Regulations, Course Structure for 1<sup>st</sup> Year - I & II Semesters and Syllabus of B.Tech. Courses

### Board of Studies Committee - MATHEMATICS

Sl.No.	Name	Designation	
1	Dr. M. Raja	Professor & HOD, SICET	Chairperson
2.	Dr. M.N. Raja Shekar	Professor in Mathematics, JNTUH CEJ	JNTUH Nominee
3.	Mrs. Ch. Saritha	Associate Professor, SIET	Subject Expert
4.	Mr. S. Krishna	Technical Director, National Informatics Center, Hyderabad	Industry Expert
5.	Mr. M. Chalapathi Rao	Assistant Professor, SICET	Member
6	Mr. M. Ranjit Kumar	Assistant Professor, SICET	Member

In the fourth meeting of BOS in Mathematics Dept. of Sri Indu College of Engineering & Technology (UGC Autonomous), the Principal, SICET welcomed all the members of BOS in Mathematics. He informed the members that due to the outstanding performance of the college in the previous years, UGC conferred Autonomous status on this college from the academic year 2014-2015.

The Dean, Academic Affairs and Evaluation (DAE) explained that the fourth meeting of Board of Studies is convened to approve and finalize R18 Regulations of SICET (UGC Autonomous) in which all the Rules, Academic Regulations, Course Structure for first year I & II Semesters of UG Courses along with the Syllabus of B.Tech. Courses. He said that the draft academic regulations, schemes of instruction and syllabi were prepared by the HODs in consultation with their senior staff members, as per the guidelines set out by JNTUH for consideration of the members of the BOS. He urged the members to deliberate on these draft proposals and approve them with corrections and modifications, if any.

  
PRINCIPAL  
Sri Indu College of Engineering & Technology  
Sheriguda (V), Ibrahimpatnam (M),  
RR District - 501 510





The Chairman, BOS in Mathematics, then placed these documents before the members. After thorough discussion the following items are approved.

1. The Academic Regulations
2. The Syllabus of B.Tech. Course in Mathematics

The Chairman, BOS, thanked all the members for being present, and for their co-operation in approving all the items of the Agenda.

CHAIRPERSON  
(Dr. M. Raja)

  
JNTUH NOMINEE  
(Dr. M.N. Raja Shekar)

  
SUBJECT EXPERT  
(Mrs. Ch. Saritha)

INDUSTRY EXPERT  
(Mr. S. Krishna)

  
MEMBER  
(Mr. M. Chalapathi Rao)

  
MEMBER  
(Mr. M. Ranjit Kumar)

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Sheriguda(V) Thirahimpatnam(M).  
R.R. Dist. Telangana -501 510



# SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Sheriguda (V), Ibrahimpatnam (M), RR District – 501 510

## FOURTH MEETING OF BOARD OF STUDIES Held on 09<sup>TH</sup> July, 2018 at 10.30 Hours The finalized R18 Regulations of SICET (UGC Autonomous) Rules, Academic Regulations, Course Structure for 1<sup>st</sup> Year – I & II Semesters and Syllabus of B.Tech. Courses

### Board of Studies Committee – Physics

Sl.No.	Name	Designation	
1	Dr. P. Balasubrahmanyam	Professor & HOD, SICET	Chairperson
2.	Dr. K. Vijaya Kumar	Assoc. Professor, JNTUHCEJ	JNTUH Nominee
3.	Mr. R. Yadagiri Rao	Associate Professor, SIET	Subject Expert
4.	Dr. B. Sathesh	Research Associate, R&D Cell, Toyota Group	Industry Expert
5.	Mrs. N. Shailaja	Assistant Professor, SICET	Member
6	Mr. G. Shyam Sunder Reddy	Assistant Professor, SICET	Member

### MEETING AGENDA

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- Ø Welcome by Principal
- Ø Framing of Academic guidelines
- Ø Preparation of syllabus of B.Tech. Courses.

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana - 501 510

# SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Sheriguda (V), Ibrahimpatnam (M), RR District – 501 510

## FOURTH MEETING OF BOARD OF STUDIES

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Rules, Academic Regulations, Course Structure for 1<sup>st</sup> Year – I & II  
Semesters and Syllabus of B.Tech. Courses

### Board of Studies Committee – Physics

Sl.No.	Name	Designation	
1	Dr. P. Balasubrahmanyam	Professor & HOD, SICET	Chairperson
2.	Dr. K. Vijaya Kumar	Assoc. Professor, JNTUHCEJ	JNTUH Nominee
3.	Mr. R. Yadagiri Rao	Associate Professor, SIET	Subject Expert
4.	Dr. B. Sathesh	Research Associate, R&D Cell, Toyota Group	Industry Expert
5.	Mrs. N. Shailaja	Assistant Professor, SICET	Member
6	Mr. G. Shyam Sunder Reddy	Assistant Professor, SICET	Member

In the fourth meeting of BOS in Physics Dept. of Sri Indu College of Engineering & Technology (UGC Autonomous), the Principal, SICET welcomed all the members of BOS in Physics. He informed the members that due to the outstanding performance of the college in the previous years, UGC conferred Autonomous status on this college from the academic year 2014-2015.


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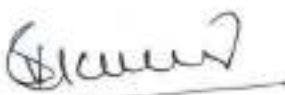
  
PRINCIPAL  
Sri Indu Institute of Engineering & Technology  
Sheriguda (V), Ibrahimpatnam (M),  
R.R. Dist. Telangana - 501 510

The Chairman, BOS in Physics, then placed these documents before the members. After thorough discussion the following items are approved.

1. The Academic Regulations
2. The Syllabus of B.Tech. Course in ~~Chemistry~~ <sup>physics.</sup>

The Chairman, BOS, thanked all the members for being present, and for their co-operation in approving all the items of the Agenda.


  
CHAIRPERSON  
(Dr. P. Balasubrahmanyam)

  
JNTUH NOMINEE  
(Dr. K. Vijaya Kumar)

  
SUBJECT EXPERT  
(Mr. R. Yadagiri Rao)

INDUSTRY EXPERT  
(Dr. B. Sathesh)

  
MEMBER  
(Mrs. N. Shailaja)

  
MEMBER  
(Mr. G. Shyam Sunder Reddy)

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Shenguduru (M), Ibrahimpatnam (M),  
R.R. Dist. Telangana - 501 510

web: www.jntuh.ac.in



Phone: off: +91-40-23156113  
Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE*  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date:10/12/2019**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for deputing your faculty member **Mr./Mrs. MOHD ASHFAQ AHMAD** as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 07-DEC-19 08-DEC-19 09-DEC-19 10-DEC-19 at ACE-3. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

  
**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M).  
R.R. Dist. Telangana -501 510



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IT-KGP), Ph.D., FIE., MISTE., MISHMT.  
PRINCIPAL

Date: 07.12.2019

**X3**

To,  
ACE-3,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

Mr. ASHFAQ AHMED MOHD (JNTUH UAAC ID: 5623-161031-114528) working as Assistant Professor, in CIVIL Department with a total experience of 3 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangan-501510. He/She is relieved from our college duties on 07.12.2019 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (CONCRETE TECHNOLOGY-135AD) from 07.12.2019 to 09.12.2019.

Thanking you,

Yours Faithfully,

**PRINCIPAL**

Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510

web: www.jntuh.ac.in



Phone: off: +91-40-23156113  
Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

EXAMINATION BRANCH  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IT-M), FIE, MIEEE, MCSI, LMISTE*  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 28/01/2020**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

Thank you for deputing your faculty member Mr./Mrs. N SRIKANTH as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 25-JAN-20 26-JAN-20 27-JAN-20 28-JAN-20 at ACE-3. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

  
28/1/20  
**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510

10



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
**PRINCIPAL**  
E-Mail: principalsiet@gmail.com  
Contact No.: 9347187999

Date: 24.01.2020

**X3**

To,  
ACE-3,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

Mr. NENAVATH SRIKANTH (JNTUH UAAC ID: 4450-171218-125623) working as Assistant Professor, in CIVIL Department with a total experience of 2 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangan-501510. He / She is relieved from our college duties on 24.01.2020 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (3-1 DISASTER MANAGEMENT) from 25.01.2020 to 27.01.2020.

Thanking you,

Yours Faithfully,

**PRINCIPAL**  
**PRINCIPAL**

Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M).  
R.R. Dist. Telangana -501 510

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M).  
R.R. Dist. Telangana -501 510



web: www.jntuh.ac.in



Phone: off: +91-40-23156113  
Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

EXAMINATION BRANCH  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IT-M), FIE, MIEEE, MCSI, LMISTE*

Professor of Computer Science & Engg. and

**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 09/01/2020**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. A JANARDHAN as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 07-JAN-20 08-JAN-20 09-JAN-20 at ACE-2. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

*f* <sup>40</sup> 9/1/2020  
**DIRECTOR OF EVALUATION**

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech  
Sheriguda, Ibrahimpatnam (M),  
R.R. Dist. Telangana -501 510



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., FIE, MISTE, MISHMT.  
PRINCIPAL  
E-Mail: principalsiet@gmail.com  
Contact No.: 9347187999

Date: 06.01.2020

**X3**

To,  
ACE-2,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

Mr. JANARDHAN ATIPAMULA (JNTUH UAAC ID: 4768-161221-155240) working as Assistant Professor, in CIVIL Department with a total experience of 3+ Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangana-501510. He / She is relieved from our college duties on 06.01.2020 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (STRENGTH OF MATERIAL-II - 134CD) from 07.01.2020 to 09.01.2020.

Thanking you,

Yours Faithfully,

PRINCIPAL  
PRINCIPAL

Sri Indu Institute of Engineering & Tech  
Sheriguda(VIII), Ibrahimpatnam,  
R R. Dist. Telangana -501 510

web: www.jntuh.ac.in



Phone: off: +91-40-23156113  
Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

EXAMINATION BRANCH  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IT-M), FIE, MIEEE, MCSI, LMISTE*

Professor of Computer Science & Engg. and

**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 27/01/2020**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.  
\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. **A JANARDHAN** as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 25-JAN-20 26-JAN-20 27-JAN-20 at ACE-2. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

*[Signature]*  
27/1/2020  
**DIRECTOR OF EVALUATION**

*[Signature]*  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Ghariguda (V), Ibrahimpatnam (M),  
R.R. Dist. Telangana - 501 610

2



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
**PRINCIPAL**  
E-Mail: principalsiet@gmail.com  
Contact No.: 9347187999

Date: 24.01.2020

**X3**

To,  
ACE-2,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

**Mr. JANARDHAN ATIPAMULA (JNTUH UAAC ID: 4768-161221-155240)** working as Assistant Professor, in CIVIL Department with a total experience of 3 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangan-501510. He / She is relieved from our college duties on 24.01.2020 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (STRENGTH OF MATERIALS-II) from 25.01.2020 to 27.01.2020.

Thanking you,

Yours Faithfully,

**PRINCIPAL**

Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana. -501 510

**PRINCIPAL**  
Sri Indu Institute of Engineering &  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510

web: www.jntuh.ac.in



Phone: off: +91-40-23156113  
Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

EXAMINATION BRANCH  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE*  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 17/08/2019**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. A JANARDHAN as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 17-AUG-19 at ACE-3. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Sri Indu Institute of Engineering &  
Shenguda(V), Ibrahimpatnam(R),  
R.R. Dist. Telangana - 501 510



## Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
PRINCIPAL

Date: 16.08.2019

**X3**

To,  
ACE-4,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Supplementary Examinations, July-2019-Reg.**

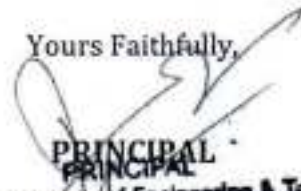
\*\*\*\*\*

Mr. JANARDHAN ATIPAMULA (JNTUH UAAC ID: 4768-161221-155240) working as Assistant Professor, in CIVIL Department with a total experience of 2.8 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangan-501510. He/She is relieved from our college duties on 16.08.2019 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (GROUND WATER DEVELOPMENT AND MANAGEMENT) on 17.08.2019.

Thanking you,

Yours Faithfully,

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Sheriguda(V), Ibrahimpatnam(M).  
R.R. Dist. Telangana -501 510

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M).  
R.R. Dist. Telangana -501 510

web: www.jntuh.ac.in



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Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

EXAMINATION BRANCH  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IT-M), FIE, MIEEE, MCSI, LMISTE*  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 27/01/2020**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.  
\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. **V KARTHIK KUMAR** as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 25-JAN-20 26-JAN-20 27-JAN-20 at ACE-2. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

*f* *40*  
*27/1/2020*  
**DIRECTOR OF EVALUATION**

*[Signature]*  
**PRINCIPAL**  
Sri Lanka Institute of Engineering & Technology  
R.R. Dist. Telangana - 501 419

12



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., F.I.E., MISTE., MISHMT,  
PRINCIPAL  
E-Mail: principalsiet@gmail.com  
Contact No.: 9347187999

Date: 24.01.2020

**X3**

To,  
ACE-2,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

**Mr. KARTHIK KUMAR VUPPU (JNTUH UAAC ID: 8060-161223-140003)** working as Assistant Professor, in CIVIL Department with a total experience of 3 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangan-501510. He / She is relieved from our college duties on 24.01.2020 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (FLUID MECHANICS-II) from 25.01.2020 to 27.01.2020.

Thanking you,

Yours Faithfully,

**PRINCIPAL  
PRINCIPAL**

Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510



web: www.jntuh.ac.in



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Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE*

Professor of Computer Science & Engg. and

**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 10/12/2019**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. **V KARTHIK KUMAR** as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 07-DEC-19 08-DEC-19 09-DEC-19 10-DEC-19 at ACE-4. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

  
**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech  
Sherguda(V), Ibrahimpetnam(O),  
R.R. Dist. Telangana -501 510



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
PRINCIPAL

Date: 07.12.2019

**X3**

To,  
ACE-4,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

Mr. KARTHIK KUMAR VUPPU (JNTUH UAAC ID: 8060-161223-140003) working as Assistant Professor, in CIVIL Department with a total experience of 3 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangan-501510. He/She is relieved from our college duties on 07.12.2019 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of [TRANSPORTATION ENGINEERING-137HX] from 07.12.2019 to 09.12.2019.

Thanking you,

Yours Faithfully,

**PRINCIPAL**

Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M).  
R.R Dist. Telangana -501 510

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M).  
R.R Dist. Telangana -501 510

web: www.jntuh.ac.in



Phone: off: +91-40-23156113  
Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

EXAMINATION BRANCH  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE*  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date:04/08/2019**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. **V KARTHIK KUMAR** as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 02-AUG-19 03-AUG-19 04-AUG-19 at ACE-4. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

**DIRECTOR OF EVALUATION**

*Fd)*  
*M. Chanthi*  
*04/08/2019*

  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sherguda(V), Ibrahimpatnam(I),  
R.R. Dist. Telangana -501 610



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
PRINCIPAL

Date: 01.08.2019

**X3**

To,  
ACE-4,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Supplementary Examinations, July-2019-Reg.**

\*\*\*\*\*

Mr. KARTHIK KUMAR VUPPU (JNTUH UAAC ID: 8060-161223-140003) working as Assistant Professor, in CIVIL Department with a total experience of 2.8 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangan-501510. He/She is relieved from our college duties on 01.08.2019 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (REHABILITATION AND RETROFITTING OF STRUCTURES) from 02.08.2019 to 03.08.2019.

Thanking you,

Yours Faithfully,

PRINCIPAL

Sri Indu Institute of Engineering & Tech  
Sheriguda(Vill), Ibrahimpatnam,  
R.R. Dist. Telangana.-501 510

web: www.jntuh.ac.in



Phone: off: +91-40-23156113  
Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

EXAMINATION BRANCH  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE*

Professor of Computer Science & Engg. and

**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 27/01/2020**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/V BA/MCA Courses.

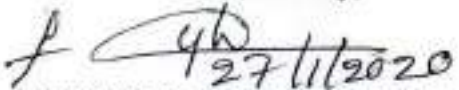
Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.  
\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. **I RAMESH** as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 25-JAN-20 26-JAN-20 27-JAN-20 at ACE-2. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

  
27/1/2020  
**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Sri Indu Institute of Engineering  
Sharguda(V), Ibrahimpatnam  
R.R. Dist. Telangana - 501 510

11



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
**PRINCIPAL**  
E-Mail: principalsiiet@gmail.com  
Contact No.: 9347187999

Date: 24.01.2020

**X3**

To,  
ACE-2,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

Mr. RAMESHISLAVATH (JNTUH UAAC ID: 7113-161109-113423) working as Assistant Professor, in CIVIL Department with a total experience of 3 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangana-501510. He/She is relieved from our college duties on 24.01.2020 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (ENGINEERING GEOLOGY) from 25.01.2020 to 27.01.2020.

Thanking you,

Yours Faithfully,

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 51Q

**PRINCIPAL**  
Sri Indu Institute of Engineering &  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 51Q

web: www.jntuh.ac.in



Phone: off: +91-40-23156113

Fax: +91-40-23158668

Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IT-M), FIE, MIEEE, MCSLI, MISTE*

Professor of Computer Science & Engg. and

**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 07/07/2019**

To

The Principal/Director,

Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for your kind co-operation for deputing your faculty member Mr./Mrs. RAMESH ISLAVATH as examiner for Spot evaluation at JNTUH. The faculty member is present in the Exam Branch on the following dates 05-JUL-19 06-JUL-19 07-JUL-19 at ACE-4.

If any scrutiny correction are present, you must complete the scrutiny correction.

Thanking You,

Yours Sincerely,

**DIRECTOR OF EVALUATION**

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech  
Sherguduru(V), Ibrahimpatnam(2A)  
R.R. Dist. Telangana -501 519



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
PRINCIPAL

Date: 05.07.2019

**X3**

To,  
ACE-3,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, May-2019-Reg.**

\*\*\*\*\*

Mr. RAMESH ISLAVATH (JNTUH UAAC ID: 7113-161109-113423) working as Assistant Professor, in MECHANICAL Department with a total experience of 03 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangan-501510. He/She is relieved from our college duties on 05.07.2019 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (DISASTER \*MANAGEMENT) from 05.07.2019 to 07.07.2019.

Thanking you,

Yours Faithfully,

**PRINCIPAL**

Sri Indu Institute of Engineering & Tech  
Sheriguda(VIII), Ibrahimpatnam  
R. R. Dist. Telangana.-501 510

**PRINCIPAL**  
Sri Indu Institute of Engineering & Technology  
Sheriguda(V), Ibrahimpatnam  
R. R. Dist. Telangana.-501 510



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Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSL, LMISTE*  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 27/01/2020**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.  
\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. **W MARUTI** as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 25-JAN-20 26-JAN-20 27-JAN-20 at ACE-2. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

  
**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sherguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510

web: www.jntuh.ac.in



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Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**  
M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 28/01/2020**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.  
.....

Thank you for deputing your faculty member Mr./Mrs. E SHIVRAJ as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 25-JAN-20 26-JAN-20 27-JAN-20 28-JAN-20 at ACE-2. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Sri Indu Institute of Engineering &  
Sherinagar(V), Ibrahimpet, R.R. Dist. Telangana - 501 510



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT,  
**PRINCIPAL**  
E-Mail: principalsiet@gmail.com  
Contact No.: 9347187999

Date: 24.01.2020

**X3**

To,  
ACE-2,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

Mr. SHIVRAJ EKHELLIKAR (JNTUH UAAC ID: 2759-160224-124533) working as Assistant Professor, in MECH. Department with a total experience of 4.5 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangana-501510. He/She is relieved from our college duties on 24.01.2020 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (MACHINE DRAWING) from 25.01.2020 to 27.01.2020.

Thanking you,

Yours Faithfully,

**PRINCIPAL**  
**PRINCIPAL**

Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R Dist. Telangana -501 510

  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510

web: www.jntuh.ac.in



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Fax: +91-40-23158668

Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

Kukatpally, Hyderabad – 500 085

Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IT-M), FIE, MIEEE, MCSI, LMISTE*

Professor of Computer Science & Engg. and

**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

Date: 10/01/2020

To

The Principal/Director,

Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. MATHAPATISHIVAPUTRA as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 07-JAN-20 08-JAN-20 09-JAN-20 10-JAN-20 at ACE-2. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

  
**PRINCIPAL**  
Sri Indu Mittala of Engineering & Tech  
Shankarapuram, Ibrahimpet, Hyderabad-501 510  
R.R. Dist. Telangana

  
**DIRECTOR OF EVALUATION**

**JNTUH Kukatpally, Hyderabad-85**



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

**Dr. I. SATYANARAYANA,**  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
**PRINCIPAL**  
E-Mail: principalsiet@gmail.com  
Contact No.: 9347187999

Date: 06.01.2020

**X3**

To,  
ACE-2,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

**Mr. MATAHPATI SHIVAPUTRA (JNTUH UAAC ID: 8412-160229-230009)** working as Assistant Professor, in MECH. Department with a total experience of 5 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangana-501510. He / She is relieved from our college duties on 06.01.2020 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (DYNAMICS OF MACHINERY - 134AU) from 07.01.2020 to 09.01.2020.

Thanking you,

Yours Faithfully,

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech  
Sheriguda(Vill), Ibrahimpatnam,  
R R. Dist. Telangana.-501 510

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech  
Sheriguda(V), Ibrahimpatnam(M),  
R R. Dist. Telangana -501 510



Jawaharlal Nehru Technological University Hyderabad  
University Examination Branch.



Dr. V.KAMAKSHI PRASAD  
M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE  
Professor of CSE and DIRECTOR OF EVALUATION

To,  
MATAHPATI SHIVAPUTRA,  
SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY(X3).

Dt:04-01-2020

Dear Sir/Madam

Sub:- Appointment as evaluator for Spot Valuation at University Examination Branch-Reg.

We are glad to inform you that you are appointed for evaluation of University Exam answer scripts of DYNAMICS OF MACHINERY(134AU) Subject of B.Tech course for 4 days from 06-01-2020 to 09-01-2020 (which includes Sundays./ public holidays), subject to completion of 8 bundles at University Examination Branch. You are informed to report at the University Examination Branch by 10 AM with the following original documents along with this letter: i) Identity Card, if you have not attended the evaluation work during May/June 2019, you should also bring ii) PAN card iii) Faculty Registration ID of AAC and iv) Cancelled cheque/first inner page of bank passbook.

S.No	PAN NO.	Subject Name to be Evaluated	Reg/Year-Sem	Date Of Exam	Reporting Date for Evaluation
1	BGWPM7018M	DYNAMICS OF MACHINERY (134AU)	R16/2-2	21-12-2019	06-01-2020 10 AM

You are informed to note that,

1. If the spot valuation of the allotted subject is completed, then the similar subject in previous regulation will also be allotted until the period of your assigned duty.
2. You are advised to contact Officer Incharge Exams (OIE) at your college and take the printout of the Question Paper(QP) on the date of Exam (after the exam is over). Refer the above table for the Date of Exam. Further you are informed to prepare thoroughly with all possible solutions to all the questions in the QP.
3. If need arises you are informed to discuss with your colleagues at your college.
4. You are informed to bring the solutions for all the questions in the assigned subjects.
5. The Orientation session will be conducted on the day of reporting, for those evaluators who have not attended for Spot Valuation duty in May/June 2019.
6. You have to report to the Exam Branch by sharp 10 AM, otherwise your late reporting will be intimated to your college principal.
7. Accommodation will be provided for the outstation Evaluators.
8. You are informed to give your consent (with in 2 days after receiving the SMS) in Google Form link after taking permission from your principal which will be provided to your mobile through SMS.
9. TA & DA will be paid as per the University norms.
10. Please go through the instructions related to spot valuation overleaf.

sd/-

Director Of Evaluation, JNTUH

  
PRINCIPAL  
Sri Indu Institute of Engineering  
Sherguda(V), Ibrahimpatna (Dist)  
R. Dist Telangana -501 510

5 Yrs

## Instructions to Evaluators

### Regarding bundle Issue and scripts(Before Evaluation):

- 1) Collect scheme of evaluation of the subject for which the evaluator task is assigned.
- 2) Verify the scripts count in each bundle before starting evaluation. There are 52 answer scripts in each full-bundle.
- 3) Report discrepancy in count immediately at the issue counter.
- 4) Verify the subject name and subject code on all the scripts.
- 5) Return non matching scripts at the issue counter and get them replaced by relevant subject scripts.
- 6) Give sequence number to all scripts and bubble corresponding number on Part-II of answer script.
- 7) Write bundle number on all the scripts.
- 8) Go through the scheme thoroughly before starting to evaluate.

### For Evaluation

- 1) Award marks to every question answered even if the marks are zero.
- 2) Award zero even if question number alone is written.
- 3) Marks should be awarded at the end of the answer in the margin only with Red ink pen only.
- 4) Go through the scripts till the last page and strike off all blank sheets.
- 5) Report objectionable data in the scripts, like, Personal data, unrelated stories, statements of requests/abuses etc; to the ACE/section-in-charge without fail.
- 6) Do not forget to sign in the box specified on every answer script.
- 7) Post the total marks of each script in the relevant box of control sheet.
- 8) Compute the grand total of marks of all scripts in the bundle, write in the specified box on the control sheet. Bubble relevant OMR box.
- 9) Write your details on the control sheet and put signature in specified place of control sheet.
- 10) Verify that all the scripts are inserted back in order into the same bundle and submit the bundle at the counter for scrutiny.

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Sherguodar(V), Ibrahimpatnam(Mp),  
R.R. Dist. Telangana -501 610

web: www.jntuh.ac.in



Phone: off: +91-40-23156113  
Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE*  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 09/01/2020**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. **P VIJAY KUMAR** as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 07-JAN-20 08-JAN-20 09-JAN-20 at ACE-2. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

  
DIRECTOR OF EVALUATION

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Sheriguda(V), Ibrahimpatnam(T),  
R.R. Dist. Telangana -501 610





# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

**Dr. I. SATYANARAYANA,**  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
**PRINCIPAL**  
E-Mail: principalsiet@gmail.com  
Contact No.: 9347187999

Date: 06.01.2020

**X3**

To,  
ACE-2,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3:** Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.

\*\*\*\*\*

**Mr. PALAPARTHI VIJAY KUMAR** (JNTUH UAAC ID: 2224-160224-104845) working as Assistant Professor, in MECH. Department with a total experience of 5 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangana-501510. He / She is relieved from our college duties on 06.01.2020 to attend the spot valuation at Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (METALLURGY AND MATERIAL SCIENCE - 133BG) from 07.01.2020 to 09.01.2020.

Thanking you,

Yours Faithfully,

  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510

**PRINCIPAL -**  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech  
Sheriguda(V), Ibrahimpatnam,  
R R. Dist. Telangana -501 510



Jawaharlal Nehru Technological University Hyderabad  
University Examination Branch.



Dr. V.KAMAKSHI PRASAD

M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE

Professor of CSE and DIRECTOR OF EVALUATION

To,  
PALAPARTHI VIJAY KUMAR,  
SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY(X3).

Dt:04-01-2020

Dear Sir/Madam,

Sub:- Appointment as evaluator for Spot Valuation at University Examination Branch-Reg.

We are glad to inform you that you are appointed for evaluation of University Exam answer scripts of METALLURGY AND MATERIAL SCIENCE(133BG) Subject of B.Tech course for 4 days from 06-01-2020 to 09-01-2020 ( which includes Sundays / public holidays), subject to completion of 8 bundles at University Examination Branch. You are informed to report at the University Examination Branch by 10 AM with the following original documents along with this letter: i) Identity Card, if you have not attended the evaluation work during May/June 2019, you should also bring ii) PAN card iii) Faculty Registration ID of AAC and iv) Cancelled cheque/first inner page of bank passbook.

S.No	PAN NO.	Subject Name to be Evaluated	Reg/Year-Sem	Date Of Exam	Reporting Date for Evaluation
1	CCJPK8567K	METALLURGY AND MATERIAL SCIENCE (133BG)	R16/2-1	14-12-2019	06-01-2020 10 AM

You are informed to note that,

1. If the spot valuation of the allotted subject is completed, then the similar subject in previous regulation will also be allotted until the period of your assigned duty.
2. You are advised to contact Officer Incharge Exams (OIE) at your college and take the printout of the Question Paper(QP) on the date of Exam (after the exam is over). Refer the above table for the Date of Exam. Further you are informed to prepare thoroughly with all possible solutions to all the questions in the QP.
3. If need arises you are informed to discuss with your colleagues at your college.
4. You are informed to bring the solutions for all the questions in the assigned subjects.
5. The Orientation session will be conducted on the day of reporting, for those evaluators who have not attended for Spot Valuation duty in May/June 2019.
6. You have to report to the Exam Branch by sharp 10 AM, otherwise your late reporting will be intimated to your college principal.
7. Accommodation will be provided for the outstation Evaluators.
8. You are informed to give your consent (with in 2 days after receiving the SMS) in Google Form link after taking permission from your principal which will be provided to your mobile through SMS.
9. TA & DA will be paid as per the University norms.

PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Shankiguda(V), Ibrahimpatnam(M),  
R. Dist. Telangana -501 510

10. Please go through the instructions related to spot valuation overleaf.

sd/-

Director Of Evaluation, JNTUH

## Instructions to Evaluators

### Regarding bundle Issue and scripts(Before Evaluation):

- 1) Collect scheme of evaluation of the subject for which the evaluator task is assigned.
- 2) Verify the scripts count in each bundle before starting evaluation. There are 52 answer scripts in each full-bundle.
- 3) Report discrepancy in count immediately at the issue counter.
- 4) Verify the subject name and subject code on all the scripts.
- 5) Return non matching scripts at the issue counter and get them replaced by relevant subject scripts.
- 6) Give sequence number to all scripts and bubble corresponding number on Part-II of answer script.
- 7) Write bundle number on all the scripts.
- 8) Go through the scheme thoroughly before starting to evaluate.

### For Evaluation

- 1) Award marks to every question answered even if the marks are zero.
- 2) Award zero even if question number alone is written.
- 3) Marks should be awarded at the end of the answer in the margin only with Red ink pen only.
- 4) Go through the scripts till the last page and strike off all blank sheets.
- 5) Report objectionable data in the scripts, like, Personal data, unrelated stories, statements of requests/abuses etc; to the ACE/section-in-charge without fail.
- 6) Do not forget to sign in the box specified on every answer script.
- 7) Post the total marks of each script in the relevant box of control sheet.
- 8) Compute the grand total of marks of all scripts in the bundle, write in the specified box on the control sheet. Bubble relevant OMR box.
- 9) Write your details on the control sheet and put signature in specified place of control sheet.
- 10) Verify that all the scripts are inserted back in order into the same bundle and submit the bundle at the counter for scrutiny.

  
PRINCIPAL  
Sri Indu Institute of Engineering &  
Technology  
Srinivasaiah Nagar, Bheemavaram,  
R.R. Dist. Telangana - 501 519

web: www.jntuh.ac.in



Phone: off: +91-40-23156113  
Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**  
*M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE*  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 07/07/2019**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for your kind co-operation for deputing your faculty member Mr./Mrs. AVA MALLESH as examiner for Spot evaluation at JNTUH. The faculty member is present in the Exam Branch on the following dates 05-JUL-19 06-JUL-19 07-JUL-19 at ACE-4.

If any scrutiny correction are present, you must complete the scrutiny correction.

Thanking You,

Yours Sincerely,

  
**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Shri Indu Institute of Engineering  
Shanguguda(V), Ibrahimpatnam  
R.R. Dist. Telangana -501 610



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

**Dr. I. SATYANARAYANA,**  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
**PRINCIPAL**

Date: 05.07.2019

**X3**

To,  
**ACE-3,**  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, May-2019-Reg.**

\*\*\*\*\*

**Mr. AVA MALLESH (JNTUH UAAC ID: 6519-160210-115800)** working as Assistant Professor, in MECHANICAL Department with a total experience of 03 Years and presently working at **Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangan-501510.** He/She is relieved from our college duties on 05.07.2019 to attend the spot valuation at **Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad,** for the subjects of **(FUNDAMENTALS OF MECHANICAL ENGINEERING)** from **05.07.2019 to 07.07.2019.**

Thanking you,

Yours Faithfully,

**PRINCIPAL**  
**PRINCIPAL**

Sri Indu Institute of Engineering & Tech  
Sheriguda(Vill), Ibrahimpatnam,  
R R. Dist. Telangana -501 510

web: www.jntuh.ac.in



Phone: off: +91-40-23156113

Fax: +91-40-23158668

Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE*

Professor of Computer Science & Engg. and

**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 29/01/2020**

To

The Principal/Director,

Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. AVA MALLESH as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 27-JAN-20 28-JAN-20 29-JAN-20 at ACE-3. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You.

Yours Sincerely,

  
**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Shrirajguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510

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Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IIT-M), FIE, MIEEE, MCSI, LMISTE*  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 27/01/2020**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. AVA MALLESH as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 25-JAN-20 26-JAN-20 27-JAN-20 at ACE-3. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

  
**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Sri Indu Institute of Engineering  
Shengoda(V), Ibrahimpatna  
R.R. Dist. Telangana -501 6 10



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., FIE, MISTE, MISHMT.  
PRINCIPAL  
E-Mail: principalsiiet@gmail.com  
Contact No.: 9347187999

Date: 24.01.2020

**X3**

To,  
ACE-3,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

Mr. AVA MALLESH (JNTUH UAAC ID: 6519-160210-115800) working as Assistant Professor, in MECH. Department with a total experience of 4 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangana-501510. He/She is relieved from our college duties on 24.01.2020 to attend the spot valuation at Examinations Building Spot Valuation Centre- JNTUH Campus, Kukatpally, Hyderabad, for the subjects of (REFRIGERATION AND AIR CONDITIONING) from 25.01.2020 to 27.01.2020.

Thanking you,

Yours Faithfully,

PRINCIPAL  
PRINCIPAL

Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R Dist Telangana -501 510



web: www.jntuh.ac.in



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Fax: +91-40-23158668  
Email: dejntuh@jntuh.ac.in

**EXAMINATION BRANCH**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, Hyderabad – 500 085  
Telangana (India)

**Dr. V.KAMAKSHI PRASAD**

*M.Tech., Ph.D.(IT-M), FIE, MIEEE, MCSI, LMISTE*  
Professor of Computer Science & Engg. and  
**DIRECTOR OF EVALUATION**

**EVALUATOR RELIEVING ORDER**

**Date: 09/12/2019**

To  
The Principal/Director,  
Affiliated colleges of JNTUH offering B.Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Dear Madam/Sir,

Sub: Spot Valuation at JNTUH-Relieving Order-Reg.

\*\*\*\*\*

Thank you for deputing your faculty member Mr./Mrs. C SIVAKANDHAN as examiner for Spot evaluation at JNTUH. The faculty member performed Spot Valuation duty in the Exam Branch on the following dates 06-DEC-19 07-DEC-19 08-DEC-19 09-DEC-19 at ACE-3. If any scrutiny correction are present, the faculty member will be asked to come to exambranch for performing scrutiny correction.

Thanking You,

Yours Sincerely,

  
**DIRECTOR OF EVALUATION**

  
**PRINCIPAL**  
Sri Indu Institute of Engineering &  
Sherqouat (V), Ibrahimpatnam,  
R.R. Dist. Telangana 501 519



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

**Dr. I. SATYANARAYANA,**  
M.Tech (IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
**PRINCIPAL**

Date: 05.12.2019

**X3**

To,  
ACE-3,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

Respected Sir,

**Sub:- College Code - X3: Relieving for Spot Valuation B.TECH Regular/Supplementary Examinations, Dec-2019-Reg.**

\*\*\*\*\*

**Mr. SIVAKANDHAN CHINNASAMY (JNTUH UAAC ID: 0228-170523-212632)** working as Professor, in MECHANICAL Department with a total experience of 20 Years and presently working at **Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District, Telangan-501510.** He/She is relieved from our college duties on 05.12.2019 to attend the spot valuation at **Examinations Building Spot Valuation Centre-JNTUH Campus, Kukatpally, Hyderabad,** for the subjects of (THERMAL ENGINEERING-I) from 06.12.2019 to 08.12.2019.

Thanking you,

Yours Faithfully,

**PRINCIPAL**

Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam,  
R.R. Dist. Telangana -501 510

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R.R. Dist. Telangana -501 510



Jawaharlal Nehru Technological University Hyderabad  
University Examination Branch.



Dr. V.KAMAKSHI PRASAD  
M.Tech., Ph.D.(IIT-M),FIE,MIEEE,MCSI,LMISTE  
Professor of CSE and DIRECTOR OF EVALUATION

To,  
SIVAKANDHAN CHINNASAMY,  
SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY(X3).

Dt:23-11-2019

Dear Sir/Madam,

Sub:- Appointment as evaluator for Spot Valuation at University Examination Branch-Reg.

We are glad to inform you that you are appointed for evaluation of University Exam answer scripts of THERMAL ENGINEERING I(135BP) Subject of B.Tech course for 3 days from 06-12-2019 to 09-12-2019 (subject to completion of 6 bundles) at University Examination Branch. You are informed to report at the University Examination Branch by 10 AM with the following original documents along with this letter: i) Identity Card, if you have not attended the evaluation work during May/June 2019, you should also bring ii) PAN card iii) Faculty Registration ID of AAC and iv) Cancelled cheque/first inner page of bank passbook.

S.No	PAN NO.	Subject Name to be Evaluated	Reg/Year-Sem	Date Of Exam	Reporting Date for Evaluation
1	BOJPS7903A	THERMAL ENGINEERING I (135BP)	R16/3-1	02-12-2019	06-12-2019 10 AM

You are informed to note that,

1. If the spot valuation of the allotted subject is completed, then the similar subject in previous regulation will also be allotted until the period of your assigned duty.
2. You are advised to contact Officer Incharge Exams (OIE) at your college and take the printout of the Question Paper on the date of Exam (after the exam is over). Refer the above table for the Date of Exam. Further you are informed to prepare thoroughly with all possible solutions to all the questions in the QP.
3. If need arises you are informed to discuss with your colleagues at your college.
4. You are informed to bring the solutions for all the questions in the assigned subjects.
5. The Orientation session will be conducted on the day of reporting, for those evaluators who have not attended for Spot Valuation duty in May/June 2019.
6. You have to report to the Exam Branch by sharp 10 AM, otherwise your late reporting will be intimated to your college principal.
7. Accommodation will be provided for the outstation Evaluators.
8. You are informed to give your consent (with in 2 days after receiving the SMS) in Google Form link after taking permission from your principal which will be provided to your mobile through SMS.
9. TA & DA will be paid as per the University norms.
10. Please go through the instructions related to spot valuation overleaf.

sd/-

Director Of Evaluation, JNTUH

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M),  
R. Dist. Telangana -501 610

## Instructions to Evaluators

### Regarding bundle Issue and scripts(Before Evaluation):

- 1) Collect scheme of evaluation of the subject for which the evaluator task is assigned.
- 2) Verify the scripts count in each bundle before starting evaluation. There are 52 answer scripts in each full-bundle.
- 3) Report discrepancy in count immediately at the issue counter.
- 4) Verify the subject name and subject code on all the scripts.
- 5) Return non matching scripts at the issue counter and get them replaced by relevant subject scripts.
- 6) Give sequence number to all scripts and bubble corresponding number on Part-II of answer script.
- 7) Write bundle number on all the scripts.
- 8) Go through the scheme thoroughly before starting to evaluate.

### For Evaluation

- 1) Award marks to every question answered even if the marks are zero.
- 2) Award zero even if question number alone is written.
- 3) Marks should be awarded at the end of the answer in the margin only with Red ink pen only.
- 4) Go through the scripts till the last page and strike off all blank sheets.
- 5) Report objectionable data in the scripts, like, Personal data, unrelated stories, statements of requests/abuses etc; to the ACE/section-in-charge without fail.
- 6) Do not forget to sign in the box specified on every answer script.
- 7) Post the total marks of each script in the relevant box of control sheet.
- 8) Compute the grand total of marks of all scripts in the bundle, write in the specified box on the control sheet. Bubble relevant OMR box.
- 9) Write your details on the control sheet and put signature in specified place of control sheet.
- 10) Verify that all the scripts are inserted back in order into the same bundle and submit the bundle at the counter for scrutiny.

  
**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech  
Sharguda(V), Ibrahimpatnam(20)  
R.R. Dist. Telangana -501 510

Web : [www.jntuh.ac.in](http://www.jntuh.ac.in)  
E Mail: [de@jntuh.ac.in](mailto:de@jntuh.ac.in)



Phone: Off: +91-40-23156113  
Fax: +91-40-23158668

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by INTEL Act No. 30 of 2001)

Kukatpally, Hyderabad – 500 085 Telangana (India)

**Dr. V.Kamakshi Prasad**

M.Tech, Ph.D.(IT-M), FIE, MIEEE, MCSI, LMISTE  
Professor of Computer Science and Engineering &  
**DIRECTOR OF EVALUATION**

Dated: 15-2-2019

To

The Principal,  
Affiliated colleges of JNTUH offering B. Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Sir/Madam

**Sub: Spot valuation at JNTUH- Relieving order- Reg**

Thank you for your kind co-operation for deputing your staff member

Mr./Mrs. / Dr. / MOHMED SAHARA ( PAN : CQOPM4686L ) ( CC: X3 ) for spot valuation at JNTUH,  
worked on the, following days, 13-2-2019, 14-2-2019 and 15-2-2019 (03 day's)

And relieved on 15-02-2019

Thanking You,

Yours sincerely,  
Sd/-

**Director of Evaluation**

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech  
Sheriguda(V), Ibrahimbadam(M)  
R.R. Dist. Telangana -501 510



## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Andhra Pradesh Act No. 30 of 2009)

Kukatpally, Hyderabad – 500 085, Telangana (India)

**Dr. V.Kamakshi Prasad**

M.Tech., Ph.D.(IT-M), FIE, MIEEE, MCSI, LMISTE

**Professor of Computer Science and Engineering &**

**DIRECTOR OF EVALUATION**

Date: 18-01-2019.

To.

The Principal,

Affiliated colleges of JNTUH,

Offering B. Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.


Sir/Madam.

**Sub: Spot valuation at JNTUH- Relieving order- Reg.**

Thank you for your kind co-operation for deputing your staff member Mr./Mrs./: L DHARMENDRA for spot valuation at JNTUH, worked on the following days 17-01-2019 to 18-01-2019 relieved on 18-01-2019.

Thanking you,

Yours sincerely,  
Sd

  
Director of Evaluation

  
PRINCIPAL  
Sri Indu Indira of Engineering & Tech  
Shenoi (V), Ibrahimpatnam (P.O.)  
R.R. Dist. Telangana -501 510



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

Dr. I. SATYANARAYANA,  
M.Tech (IIT-KGP), Ph.D., F.I.E., MISTE., MISHMT.  
PRINCIPAL

Date: 17.01.2019

**X3**

To,  
Director of Evaluation,  
JNTUH, Kukatpally,  
Hyderabad-500 085.

**Sub:- College Code-X3:-** Relieving for Spot Valuation B.Tech Regular/Supply Examinations, November/December-2018-Reg.

\*\*\*\*\*

Respected Sir,


Mr. L. DHARMENDRA (JNTUH Evaluator ID: ANCPL1928R) working as Assistant Professor, in CIVIL Department with a total experience of 1.5 Years and presently working at Sri Indu Institute of Engineering & Technology, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy District. He is relieved from our college duties on 17.01.2019 to attend the spot valuation at Examination branch Main building, JNTUH, Kukatpally, Hyderabad, for the subjects listed below from 17.01.2019 to 18.01.2019.

S. No.	Name of the Subject	No. of Times Taught	Total Experience
1.	ADVANCED FOUNDATION ENGINEERING	01	1.5 Yrs
2.	SURVEYING	01	

Thanking you,

Yours Faithfully,

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech.  
Sheriguda (V), Ibrahimpatnam (M),  
R.R. Dist. Telangana -501 510

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech.  
Sheriguda (V), Ibrahimpatnam,  
R.R. Dist. Telangana -501 510

Web : [www.jntuh.ac.in](http://www.jntuh.ac.in)  
E Mail : [dejntuh@jntuh.ac.in](mailto:dejntuh@jntuh.ac.in)



Phone: Off: +91-40-23156113  
Fax: +91-40-23158668

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by JNTU Act No. 30 of 2008)

Kukatpally, Hyderabad – 500 085 Telangana (India)

**Dr. V.Kamakshi Prasad**

M.Tech., Ph.D.(IT-M), FIE, MIEEE, MCSI, LMISTE

**Professor of Computer Science and Engineering &  
DIRECTOR OF EVALUATION**

Dated: 15-2-2019

To

The Principal,  
Affiliated colleges of JNTUH offering B. Tech/B.Pharm/M.Tech/M.Pharm/MBA/MCA Courses.

Sir/Madam

Sub: Spot valuation at JNTUH- Relieving order- Reg

Thank you for your kind co-operation for deputing your staff member

Mr./Mrs. / Dr. / D PADMA ROJA ( PAN : CMZPD7723A ) ( CC: X3 ) for spot valuation at JNTUH, worked on the, following days, 13-2-2019, 14-2-2019 and 15-2-2019 (03 day's)

And relieved on 15-02-2019

Thanking You,

Yours sincerely,  
Sd/-

Director of Evaluation

FF-2019  
Sr In-charge of Engineering & Tech.  
Shengoda(V), Ibrahimpatnam(M).  
R.R. Dist. Telangana -501 513





STRICTLY CONFIDENTIAL  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
Kukatpally, HYDERABAD – 500 085, Telangana (India)

From

**Dr. B.ANJANEYA PRASAD**

M.Tech., Ph.D., FIE., MISTIL, M.C.L., MISESI, MASME  
Professor of Mechanical Engg. &  
DIRECTOR OF EVALUATION

Date: 21-07-2016

To

Dr. I. Satyanarayana, Professor of ME, Sri Indu Institute of Engg.,

Dear Sir/Madam,

I am happy to inform you that, you are appointed as paper setter in the subject of REFRIGERATION (R15) for M.Tech I Semester Examinations, 2016.

I request you to prepare **Two** sets of Question Papers in the subject mentioned above. Please send the soft copy to [acecomm.2014@gmail.com](mailto:acecomm.2014@gmail.com) and hard copy of remuneration bill by mentioning the subject name and code number on the covers to the following address within **One Week** from the date of receipt of this letter.

Dr. B. Ramesh Chandra, Additional Controller of Examinations, FDEP Section, Examinations Building, 2<sup>nd</sup> floor, JNTUH Kukatpally, Hyderabad – 500 085. Mobile Number 8008103826.

The remuneration for setting of question paper of 3 hours duration is at the rate of Rs.1200/- for each question paper.

Kindly follow the guidelines given below for setting the question paper.

1. The questions are to be prepared from **within** and in the entire range of **prescribed syllabus** of the subject. The question paper should consist of Part-A & Part-B.
2. **Part-A** is compulsory question where it consists of five sub questions, one from each unit and carries 5 marks each. This will be treated as question 1.
3. **Part-B** consists of five questions (numbered from 2 to 6) carries 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question, there will be an "either" "or" choice (that means there will be two questions from each unit and the student should answer only one question).
4. The student must be able to answer all questions in Part-'A' in about 60 minutes and each question from Part-B in about 20 minutes.
5. You are requested to include at least four **numerical problems** if the course requires.
6. You are requested not to reproduce questions either from guides or study materials.
7. You are requested to confirm your acceptance through e-mail.
8. **You are requested to use template provided.**
9. **Kindly keep your appointment strictly confidential.**

Yours Sincerely

  
DIRECTOR OF EVALUATION  
Sri Indu Institute of Engineering & Tech  
Shirgudur(V), Ibrahimpatnam Dist  
R.R. Dist. Telangana -501 510

Code No: 5291AC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Tech I Semester Examinations, 2016

REFRIGERATION

(Heating Ventilation and Air Conditioning)

Time: 3hrs

Max.Marks:75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

## PART - A

5 × 5 Marks = 25

- 1.a) from Unit-1
- b) from Unit-2
- c) from Unit-3
- d) from Unit-4
- e) from Unit-5

## PART - B

5 × 10 Marks = 50

2. Unit-1  
(In this sub questions may be given as numbered as a, b, c etc)

OR

3. Unit-1  
(In this sub questions may be given as numbered as a, b, c etc)

4. Unit-2  
(In this sub questions may be given as numbered as a, b, c etc)

OR

5. Unit-2  
(In this sub questions may be given as numbered as a, b, c etc)

6. Unit-3  
(In this sub questions may be given as numbered as a, b, c etc)

OR

7. Unit-3  
(In this sub questions may be given as numbered as a, b, c etc)

8. Unit-4  
(In this sub questions may be given as numbered as a, b, c etc)

OR

9. Unit-4  
(In this sub questions may be given as numbered as a, b, c etc)

10. Unit-5  
(In this sub questions may be given as numbered as a, b, c etc)

OR

11. Unit-5  
(In this sub questions may be given as numbered as a, b, c etc)

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PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Sherguda(V), Ibrahimpat  
R.R. Dist. Telangana -501 401

### REFRIGERATION

#### UNIT-I:

**Vapour Compression System:** Analysis of vapour compression refrigeration cycle Reverse Carnot Cycle for vapour. Effect of suction temperature and condensing temperature on cycle performance. Practical refrigeration cycle, Sub cooled liquid and super heated vapour refrigeration cycles, their effect on performance. Multi-pressure system. Removal of flash gas, Inter cooling. Compound compression- Multi vapour- Cascade system- dry ice system

#### UNIT -II:

**Vapour Absorption System:** Simple vapour Absorption system-Actual vapour absorption cycle-representation on enthalpy concentration h-c diagram, Water lithium bromide absorption system, Electrolux refrigerator- Aqua Ammonia Refrigeration System.

#### UNIT-III:

**Aircraft Refrigeration:** Steam jet water vapour system, thermoelectric refrigeration system, Vortex refrigeration system, Pulse refrigeration,

#### UNIT-IV:

**Industrial Refrigeration:** Chemical and process industries, Dairy plants, Petroleum Refineries

#### UNIT-V:

**Refrigerants:** Primary and secondary refrigerants. Designation of refrigerants, Desirable properties of refrigerants such as solubility in water and lubricating oil, Material compatibility, Toxicity, Flammability, Thermodynamic properties of refrigerants, inorganic, Halo carbon refrigerants. Secondary refrigerants, Refrigerants mixtures, Newer refrigerants.

#### REFERENCES:

1. R&AC / C.P Avra / TMG).
2. R&AC / Manohar Prasad.
3. R&AC / F. Stoecker & Jerald, W. Jones / MGH Intl 1982
4. Principles of Refrigeration / Roy, J. Dossat
5. Basic Refrigeration & Air Conditioning – P.N. Ananthanarayanan – McGraw Hill
6. Refrigeration & Air-Conditioning – Dr. S.S. Thipse - Jaico

  
PRINCIPAL  
Sri Indu Institute of Engineering & Tech  
Shreebuda(V), Ibrahimpet (M.D.)  
G. R. Dist. Telangana -501 510

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**KUKATPALLY, HYDERABAD 500085**  
**EXAMINATION BRANCH**  
REMUNERATION BILL

Name of Examination: \_\_\_\_\_ (Reg./Supl.) 2016

Name of the Staff member: \_\_\_\_\_

Designation & Address: \_\_\_\_\_

Mobile No: \_\_\_\_\_ Phone No: \_\_\_\_\_

Email: \_\_\_\_\_

**Mandatory Details:**

Name of the Bank \_\_\_\_\_ Branch \_\_\_\_\_ Bank IFSC code \_\_\_\_\_

A/C.NO																				
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PAN NO												
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Subject Code No.	Name of the Subject	No.of Sets	Amount(Rs.) @ Rs.1200 per set
	<b>Total:</b>		

Received Rupees \_\_\_\_\_ only

Certified that the above work for which remuneration claimed is completed and in case, if the amount claimed is found to be in excess than eligible, I will refund the excess amount. I also certify that all the other particulars. Pertaining to bank details and PAN number are correct.

Place:

Date :

Signature of the staff member  
 (Affix Revenue Stamp if claim exceeds

Rs.5000.00)

  
 P.M. / R.P.M.  
 Sri Indri Institute of Engineering & Tech  
 Sherguda (V), Ibrahimpatnam (M),  
 R.R. Dist. Telangana - 501 510  
 Sr. Asst.

Passed for Rs.....  
 (Rupees.....  
 .....only)

VERIFIED BY

ACE

A.R.

DR

DIRECTOR OF EVALUATION



STRICTLY CONFIDENTIAL

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Kukatpally, HYDERABAD – 500 085, Telangana (India)

From

Date: 08-06-2016

**Dr. B. ANJANEYA PRASAD**

M.Tech., Ph.D., FIE., MISTE., M.C.I., MSES., MASME

Professor of Mechanical Engg. &

**DIRECTOR OF EVALUATION**

To

L.Satyanarayana, Sri Indu College of Engg. & Tech.

Dear Sir/Madam,

I am happy to inform you that, you are appointed as paper setter in the subject of **PRECISION ENGINEERING (RI15)** for M. Tech II Semester Examinations, 2016.

I request you to prepare **Two sets of Question Papers** in the subject mentioned above. Please send the soft copy to [accotamu.2014@gmail.com](mailto:accotamu.2014@gmail.com) and hard copy along with the remuneration bill by mentioning the subject name and code number on the covers to the following address within **One Week** from the date of receipt of this letter.

**Dr.B.Ramesh Chandra, Additional Controller of Examinations, EDEP Section, Examinations Building, 2<sup>nd</sup> floor, JNTUH Kukatpally, Hyderabad – 500 085. Mobile Number 8008103826.**

The remuneration for setting of question paper of 3 hours duration is at the rate of Rs.1200/- for each question paper.

Kindly follow the guidelines given below for setting the question paper.

1. The questions are to be prepared from within and in the entire range of prescribed syllabus of the subject. The question paper should consists of **Part-A & Part-B.**
2. **Part-A** is compulsory question where it consists of five sub questions, one from each unit and carries 5 marks each. This will be treated as question 1.
3. **Part-B** consists of five questions (numbered from 2 to 6) carries 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question, there will be an "either" "or" choice (that means there will be two questions from each unit and the student should answer only one question).
4. The student must be able to answer all questions in Part-'A' in about 60 minutes and each question from Part-B in about 20 minutes.
5. You are requested to include atleast four numerical problems if the course requires.
6. You are requested not to reproduce questions either from guides or study materials.
7. You are requested to confirm your acceptance through e-mail.
8. **You are requested to use template provided.**
9. **Kindly keep your appointment strictly confidential.**

Yours Sincerely

**DIRECTOR OF EVALUATION**

**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech  
Shiriguda(V), Ibrahimpatnam  
R.R. Dist. Telangana - 501 519

Code No:

R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Tech II Semester Examinations, 2016

PRECISION ENGINEERING

(DESIGN FOR MANUFACTURING/ DESIGN AND MANUFACTURING)

Time: 3hrs

Max.Marks:75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

5 × 5 Marks = 25

- 1.a) from Unit-1
- b) from Unit-2
- c) from Unit-3
- d) from Unit-4
- e) from Unit-5

PART - B

5 × 10 Marks = 50

2. Unit-1  
(In this sub questions may be given as numbered as a, b etc)  
OR
3. Unit-1  
(In this sub questions may be given as numbered as a, b etc)
4. Unit-2  
(In this sub questions may be given as numbered as a, b etc)  
OR
5. Unit-2  
(In this sub questions may be given as numbered as a, b etc)
6. Unit-3  
(In this sub questions may be given as numbered as a, b etc)  
OR
7. Unit-3  
(In this sub questions may be given as numbered as a, b etc)
8. Unit-4  
(In this sub questions may be given as numbered as a, b etc)  
OR
9. Unit-4  
(In this sub questions may be given as numbered as a, b etc)
10. Unit-5  
(In this sub questions may be given as numbered as a, b etc)  
OR
11. Unit-5  
(In this sub questions may be given as numbered as a, b etc)

---00000---

  
Principal  
Jawahar Institute of Engineering & Tech.  
Smrignuda(V), Ibrahimpatnam, R.R. Dist. Telangana -501 510

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech – I year I Sem. (Design for Manufacturing)

## PRECISION ENGINEERING

## UNIT I:

**Concepts of Accuracy:**

Introduction – Concept of Accuracy of Machine Tools – Spindle and Displacement Accuracies – Accuracy of numerical Control Systems – Errors due to Numerical Interpolation Displacement Measurement System and Velocity lags.

**Geometric Dimensioning and Tolerancing:** Tolerance Zone Conversions – Surfaces, Features, Features of Size, Datum Features – Datum Oddly Configured and Curved Surfaces as Datum Features, Equalizing Datums – Datum Feature of Representation – Form controls, Orientation Controls – Logical Approach to Tolerancing.

## UNIT II:

**Datum Systems:**

Design of freedom, Grouped Datum Systems – different types, two and three mutually perpendicular grouped datum planes; Grouped datum system with spigot and recess, pin and hole; Grouped Datum system with spigot and recess pair and tongue – slot pair – Computation of Transnational and rotational accuracy, Geometric analysis and application.

## UNIT III:

**Tolerance Analysis:**

Process Capability, Mean, Variance, Skewness, Kurtosis, Process Capability Metrics, Cp, Cpk, Cost aspects, Feature Tolerances, Geometric Tolerances, Surface finish, Review of relationship between attainable tolerance grades and different machining process, Cumulative effect of tolerances sure fit law, normal law and truncated normal law.

## UNIT IV:

**Tolerance Charting Techniques:**

Operation Sequence for typical shaft type of components, Preparation of Process drawings for different operations, Tolerance worksheets and centrally analysis, Examples, Design features to facilitate machining; Datum Features – functional and manufacturing Components design – Machining Considerations, Redesign for manufactured, Examples.

## UNIT V:

**Fundamentals of Nanotechnology:** Systems of nanometer accuracies – Mechanism of metal Processing – Nano physical processing of atomic bit units, Nanotechnology and Electrochemical atomic bit processing.

**Measuring Systems Processing:** In processing or in-situ measurement of position of processing point- Post process and on-machine measurement of dimensional features and surface-mechanical and optical measuring systems.

## REFERENCES:

1. Precision Engineering in Manufacturing/Murthy R.L./New Age International (P) limited, 1996.
2. Geometric Dimensioning and Tolerancing / James D. Meadows / Marcel Dekker inc. 1995.
3. Nano Technology / Hiroo Taniguchi / Oxford University Press, 1996.
4. Engineering Design – A systematic Approach / Matousek / Blackie & Son Ltd., London.
5. Precision Engineering/VC Venkatesh & S Izman/TMH



PRINCIPAL  
Sri Indu Institute of Engineering & Tech.  
Shenguda (V), Ibrahimpa  
R.R. Dist. Telangana - 501 101

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**KUKATPALLY, HYDERABAD 500085**  
**EXAMINATION BRANCH**  
REMUNERATION BILL

Name of Examination: \_\_\_\_\_ (Reg./Supl.) 2016

Name of the Staff member: \_\_\_\_\_

Designation & Address: \_\_\_\_\_

Mobile No: \_\_\_\_\_ Phone No: \_\_\_\_\_

Email: \_\_\_\_\_

**Mandatory Details:**

Name of the Bank \_\_\_\_\_ Branch \_\_\_\_\_ Bank IFSC code \_\_\_\_\_

A/C NO																			
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PAN NO																			
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Subject Code No.	Name of the Subject	No. of Sets	Amount(Rs.) @ Rs.1200 per set
	<b>Total:</b>		

Received Rupees \_\_\_\_\_  
only

Certified that the above work for which remuneration claimed is completed and in case, if the amount claimed is found to be in excess than eligible, I will refund the excess amount. I also certify that all the other particulars. Pertaining to bank details and PAN number are correct.

Place:

Date :

**Signature of the staff member**  
(Affix Revenue Stamp if claim exceeds

Rs.5000.00)

Paid for Rs. ....  
(Rupees .....  
.....only)

VERIFIED BY

A C E

  
**Production**  
**Sri Indu Institute of Engineering & Tech**  
**Changanur (V. Kanchimparambaram)**  
**R.R. Dist. Telangana-501510**

DR

DIRECTOR OF EVALUATION





STRICTLY CONFIDENTIAL  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
Kukatpally, HYDERABAD – 500 085, Telangana (India)

From

Date: 06-06-2016

**Dr. B.ANJANEYA PRASAD**

M.Tech., Ph.D., P.E., MISTE, M.C.I., MSES, MASME  
Professor of Mechanical Engg. &  
DIRECTOR OF EVALUATION

To

Dr. I. Satyanarayana  
Prof. & Principal, Mech. Engg. Dept.,  
Sri Indu Instit of Engg & Tech.,  
Ibrahimpatnam.

Dear Sir/Madam,

I am happy to inform you that, you are appointed as paper setter in the **subject of THERMAL AND NUCLEAR POWER PLANTS (R13)** for M.Tech I Semester Examinations, 2016.

I request you to prepare **Two sets of Question Papers** in the subject mentioned above. Please send the soft copy to [aceexam.2014@gmail.com](mailto:aceexam.2014@gmail.com) and hard copy along with the remuneration bill by mentioning the subject name and code number on the covers to the following address within **One Week** from the date of receipt of this letter.

Dr. B. Ramesh Chandra, Additional Controller of Examinations, EDEP Section, Examinations Building, 2<sup>nd</sup> floor, JNTUH Kukatpally, Hyderabad – 500 085. Mobile Number 8008103826.

The remuneration for setting of question paper of 3 hours duration is at the rate of Rs.1200/- for each question paper.

**Kindly follow the guidelines given below for setting the question paper.**

1. The questions are to be prepared from **within** and in the **entire range of prescribed syllabus** of the subject. The question paper should consist of **Part-A & Part-B**.
2. **Part-A** is compulsory question where it consists of five sub-questions, one from each unit and carries four marks each. This will be treated as question 1.
3. **Part-B** consists of five questions (numbered from 2 to 6) carries 8 marks each. Each of these questions is from one unit and may contain sub-questions. For each question, there will be an "either" "or" choice (that means there will be two questions from each unit and the student should answer only one question).
4. The student must be able to answer all questions in Part-A in about 60 minutes and each question from Part-B in about 20 minutes.
5. You are requested to include at least four **numerical problems** if the course requires.
6. You are requested not to reproduce questions either from guides or study materials.
7. You are requested to confirm your acceptance through e-mail.
8. **You are requested to use template provided.**
9. **Kindly keep your appointment strictly confidential.**

Yours sincerely,

DIRECTOR OF EVALUATION

Sri Indu Institute of Engineering & Tech.  
Shergaon (V), Ibrahimpatnam (M),  
R.R. Dist. Telangana - 501 610

Time: 3hrs

Max.Marks:60

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

**PART - A**

5 × 4 Marks = 20

- 1.a) from Unit-1
- b) from Unit-2
- c) from Unit-3
- d) from Unit-4
- e) from Unit-5

**PART - B**

5 × 8 Marks = 40

2. Unit-1  
(In this sub questions may be given as numbered as a, b, c etc)  
**OR**
3. Unit-1  
(In this sub questions may be given as numbered as a, b, c etc)
4. Unit-2  
(In this sub questions may be given as numbered as a, b, c etc)  
**OR**
5. Unit-2  
(In this sub questions may be given as numbered as a, b, c etc)
6. Unit-3  
(In this sub questions may be given as numbered as a, b, c etc)  
**OR**
7. Unit-3  
(In this sub questions may be given as numbered as a, b, c etc)
8. Unit-4  
(In this sub questions may be given as numbered as a, b, c etc)  
**OR**
9. Unit-4  
(In this sub questions may be given as numbered as a, b, c etc)
10. Unit-5  
(In this sub questions may be given as numbered as a, b, c etc)  
**OR**
11. Unit-5  
(In this sub questions may be given as numbered as a, b, c etc)

**THERMAL AND NUCLEAR POWER PLANTS**

**UNIT -I:**

**INTRODUCTION:** Sources of energy, Type of Power plants. Direct energy conversion system, Energy sources in India, Recent developments in power generation, Combustion of coal, Volumetric analysis, Gravimetric analysis, Fuel gas analysis.

**Steam power plant:** Introduction, General layout of steam power plant, Modern coal. Fired Steam, Steam power plant, Power plant cycle, Fuel Handling, Combustion equipment, Ash handling, Dust collectors.

**Steam Generators:** Types, Accessories, Feed water heaters, Performance of boiling, Water treatment, Cooling towers, Steam turbines, Compounding of turbines, Steam condensers, Jet and surface condensers.

**UNIT-II:**

**GAS TURBINE POWER PLANT:** Cogeneration, Combined cycle power plant, Analysis, Waste heat recovery, IGCC power plant, Fluidized bed, Combustion, Advantages, Disadvantages

**UNIT-III:**

**NUCLEAR POWER PLANT:** Nuclear physics, Nuclear Reactor, Classification, Types of reactors, Site selection, Method of enriching uranium, Application of nuclear power plant, Nuclear Power Plant Safety; Bi-Product of nuclear power generation, Economics of nuclear power plant, Nuclear power plant in India, Future of nuclear power.

**UNIT-IV:**

**ECONOMICS OF POWER GENERATION:** Factors affecting the economics, Loading factors, Utilization factor, Performance and operating characteristics of power plant, Point economic load sharing, Depreciation, Energy rate, Criteria for optimum loading, Specific economic energy problem

**UNIT-V:**

**POWER PLANT INSTRUMENTATIONS:** Classification, Pressure measuring instrument, Temperature measurement and Flow Measurement, Analysis of combustion gases, Pollution types, Methods of control.

**REFERENCES:**

1. Power Plant Engineering / P.K.Naga / TMH
2. Power Plant Engineering / R.K.Rajput/ Lakshmi Publications.
3. Power Plant Engineering / P.C.Sharma/ Kotearia Publications.
4. Power Plant Technology / Waki.

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**KUKATPALLY, HYDERABAD 500085**  
**EXAMINATION BRANCH**  
REMUNERATION BILL

Name of Examination: \_\_\_\_\_ (Reg./Supl.) 2016

Name of the Staff member: \_\_\_\_\_

Designation & Address: \_\_\_\_\_

Mobile No: \_\_\_\_\_ Phone No: \_\_\_\_\_

Email: \_\_\_\_\_

**Mandatory Details:**

Name of the Bank \_\_\_\_\_ Branch \_\_\_\_\_ Bank IFSC code \_\_\_\_\_

A/C.NO																			
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PAN NO																			
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Subject Code No.	Name of the Subject	No.of Sets	Amount(Rs.) @ Rs.1200 per set
	<b>Total:</b>		

Received Rupees \_\_\_\_\_  
only

Certified that the above work for which remuneration claimed is completed and in case, if the amount claimed is found to be in excess than eligible, I will refund the excess amount. I also certify that all the other particulars, Pertaining to bank details and PAN number are correct.

Place:

Date:

Signature of the staff member  
(Affix Revenue Stamp if claim exceeds

Rs.5000.00)

Passed for Rs. ....  
(Rupees. ....  
..... only)

VERIFIED BY

  
**PRINCIPAL**  
A.C. & de Institute of Engineering & Tech.  
Kukatpally, Hyderabad  
Tel: 9848090000-9848090000

A.R.

DR

DIRECTOR OF EVALUATION

STRICTLY CONFIDENTIAL



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
Kukatpally, HYDERABAD – 500 085, Telangana (India)

From

Date: 23-12-2015

**Dr. B.ANJANEYA PRASAD**

M.Tech., Ph.D., FIE, MISTE, M.C.E., MISE, SI, MASME  
Professor of Mechanical Engg. &  
**DIRECTOR OF EVALUATION**

To

Dr. I. Satyanarayana,  
Professor & Principal,  
Sri Indu Institute of Engineering & Tech.,

Dear Sir/Madam,

I am happy to inform you that, you are appointed as paper setter in the **subject of CRYOGENIC ENGINEERING (R13)** for **M.Tech I Semester Examinations, 2016**.

I request you to prepare Two sets of Question Papers in the subject mentioned above. Please send the soft copy to [acecomun.2014@gmail.com](mailto:acecomun.2014@gmail.com) and hard copy along with the remuneration bill by mentioning the subject name and code number on the covers to the following address within **One Week** from the date of receipt of this letter.

Dr. R. Sridevi, Additional Controller of Examinations, EDEP Section, Examinations Building, 2<sup>nd</sup> floor, JNTUH Kukatpally, Hyderabad – 500 085. Mobile Number 8008103826.

The remuneration for setting of question paper of 3 hours duration is at the rate of Rs.600/- for each question paper.

Kindly follow the guidelines given below for setting the question paper.

1. The questions are to be prepared from within and in the entire range of prescribed syllabus of the subject. The question paper should consists of Part-A & Part-B.
2. Part-A is compulsory question where it consists of five sub questions, one from each unit and carries four marks each. This will be treated as question 1.
3. Part-B consists of five questions (numbered from 2 to 6) carries 8 marks each. Each of these questions is from one unit and may contain sub-questions. For each question, there will be an "either" "or" choice (that means there will be two questions from each unit and the student should answer only one question).
4. The student must be able to answer all questions in Part-'A' in about 60 minutes and each question from Part-B in about 20 minutes.
5. You are requested to include atleast four numerical problems if the course requires.
6. You are requested not to reproduce questions either from guides or study materials.
7. You are requested to confirm your acceptance through e-mail.
8. You are requested to use template provided.
9. **Kindly keep your appointment strictly confidential.**

  
PRINCIPAL  
Sri Indu Institute of Engineering  
Smergudatla, R.R. Dist. Telangana -501 510

**DIRECTOR OF EVALUATION**

**CRYOGENIC ENGINEERING  
(ELECTIVE-I)**

**UNIT -I:**

**INTRODUCTION TO CRYOGENIC SYSTEMS:** Mechanical Properties at low temperatures. Properties of Cryogenic Fluids.

**Gas Liquefaction:** Minimum work for liquefaction. Methods to protect low temperature. Liquefaction systems for gases other than Neon, Hydrogen and Helium.

**UNIT II:**

**LIQUEFACTION SYSTEMS FOR NEON, HYDROGEN AND HELIUM:** Components of Liquefaction systems. Heat exchangers. Compressors and expanders. Expansion valve, Losses in real machines.

**UNIT-III:**

**GAS SEPARATION AND PURIFICATION SYSTEMS:** Properties of mixtures, Principles of mixtures, Principles of gas separation, Air separation systems.

**UNIT-IV:**

**CRYOGENIC REFRIGERATION SYSTEMS:** Working Medium, Solids, Liquids, Gases, Cryogenic fluid storage & transfer, Cryogenic storage systems, Insulation, Fluid transfer mechanisms. Cryostat. Cryo Coolers

**UNIT-V:**

**APPLICATIONS:** Space technology, in-Flight air separation and collection of LOX, Gas industry, Biology, Medicine, Electronics.

**REFERENCES:**

1. Cryogenic Systems/ R.F. Baroni/ Oxford University Press
2. Cryogenic Research and Applications: Marshal Sittling/ Von Nostrand/ Inc. New Jersey
3. Cryogenic Heat Transfer/ R.F. Baron
4. Cryogenic Engineering Edit / B.A. Hands/ Academic Press, 1986
5. Cryogenic Engineering/ R.B.Scottm Vin Nostrand/ Inc. New Jersey, 1959
6. Experimental Techniques in Low Temperature Physics- O.K. White. Oxford Press, 1968
7. Cryogenic Process Engineering/ K.D. Timmerhaus & TM Flynn/ Plenum Press, 1998
8. Hand Book of Cryogenic Engineering – J.G.Weisend –II, Taylor and Francis, 1998



**PRINCIPAL**  
Sri Indu Institute of Engineering & Tech.  
Chennur (V), Ibrahimpetnam(M).  
Telangana -501 510

Code No:

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Tech I Semester Examinations, 2016

CRYOGENIC ENGINEERING

0

Time: 3hrs

Max.Marks:60

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

**PART - A**

5 × 4 Marks = 20

- 1.a) from Unit-1
- b) from Unit-2
- c) from Unit-3
- d) from Unit-4
- e) from Unit-5

**PART - B**

5 × 8 Marks = 40

2. Unit-1  
(In this sub questions may be given as numbered as a, b, c etc)  
**OR**
3. Unit-1  
(In this sub questions may be given as numbered as a, b, c etc)
4. Unit-2  
(In this sub questions may be given as numbered as a, b, c etc)  
**OR**
5. Unit-2  
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(In this sub questions may be given as numbered as a, b, c etc)
10. Unit-5  
(In this sub questions may be given as numbered as a, b, c etc)  
**OR**
11. Unit-5  
(In this sub questions may be given as numbered as a, b, c etc)

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**PRINCIPAL**  
 JNTU Institute of Engineering & Tech  
 -Sudh (V) Ibrahimpetnam(M)  
 Dist. Telangana -501 510

SET 1

Code No:

R13

JAWAHARLAL NEHRUTECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech I Semester Examinations, 2016

**CRYOGENIC ENGINEERING**

Time: 3 hrs

Max. Marks: 60

Note: This question paper contains two parts A and B.  
Part A is compulsory which carries 20 marks. Answer all questions in Part A.  
Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a,b,c as sub questions.

**PART - A**

5x4 Marks = 20

- 1.
- Define the term Cryogenics? What are the different types of Cryogenic gases?
  - Explain the working of Linde Cycle with neat diagram?
  - Why purification system requires in Cryogenics?
  - What is Cryostat? Explain it.
  - What are the applications of cryogenics in medical industry?

**PART - B**

5x8 Marks = 40

2. Discuss the mechanical properties of materials at cryogenic temperatures.

OR

3. What are the different types of Cryogenic fluids? Explain the properties of Cryogenic fluids.  
4. Explain the working of Collins liquefaction cycle with neat diagram? Also draw T-s diagram of this cycle?

OR

5. Explain the working of Claude liquefaction cycle with neat diagram? Also draw T-s diagram of this cycle?  
6. Explain the principles and properties of mixtures in gas separation and purification systems?

OR

7. a) What is meant by Gas separation? (2 marks)  
b) What are the different techniques of gas separation? (2 marks)  
c) Explain any one of gas separation technique? (4 marks)



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Bharatnagar(V), Ibrahimpatnam-501 510,  
Dist. Telangana-501 510



8. Compare the following insulations with their advantages and disadvantages of the following:  
a). Expanded foam b). Gas-filled powders c) fibrous materials d). Vacuum alone e). Evacuated  
powders f) fibrous materials g). Multilayer insulations h) Opacified powders

OR

9. Describe Walker's classification of Cryogenic CryoCollers?

10. Explain briefly the significance of cryogenics applications for space technology.

OR

11. Explain the applications of cryogenics in blood preservations, biocell Preservation and food preservation.

-----ooOoo-----



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Sheriguda(V), Itanampalle  
- R. Dist. Telangana - 501 510

SET 2

Code No:

R13

JAWAHARLAL NEHRUTECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech I Semester Examinations, 2016

## CRYOGENIC ENGINEERING

Time: 3 hrs

Max. Marks: 60

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a,b,c as sub questions.

### PART - A

5x4 Marks = 20

1.
  - a) What are the different properties of Cryogenic fluids?
  - b) Explain the o of Joule-Thomson (J-T) Cycle with neat diagram?
  - c) What is Figure of Merit (FOM)? Explain it.
  - d) What is CryoCooler? Explain it.
  - e) What are the applications of cryogenics in medical industry?

### PART - B

5x8 Marks = 40

2. Define the term Cryogenic? Explain the need to have separate science and technology subject in comparison with refrigeration?

OR

3. Discuss the mechanical properties of materials at cryogenic temperatures.

4. Explain the working of Claude liquefaction cycle with neat diagram? Also draw T-s diagram of this cycle?

OR

5. Explain the working of Collins liquefaction cycle with neat diagram? Also draw T-s diagram of this cycle?

6. Explain the principles and properties of mixtures in gas separation and purification systems?

OR

7. Explain air separation system with neat diagram?

8. What is the importance of insulation used in cryogenics? Explain cryogenic insulation and its types.

OR

  
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Sri Indu Institute of Engineering & Tech.  
Shrikopur (V), Ibrahimpatnam (M.D.)  
R.R. Dist. Telangana - 501 301

9. Explain cryogenic storage systems with neat diagrams?

10. Explain briefly the significance of cryogenics applications for space technology.

OR

11. Explain the applications of cryogenics used in Indian industry?

-----ooOoo-----



Prof. ...  
Institute of Engineering  
(Autonomous), Ibrahimpatnam,  
R.R. Dist. Telangana -501 514

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**KUKATPALLY, HYDERABAD 500085**  
**EXAMINATION BRANCH**  
REMUNERATION BILL

Name of Examination: \_\_\_\_\_ (Reg./Supl.) 2016

Name of the Staff member: \_\_\_\_\_

Designation & Address: \_\_\_\_\_

Mobile No: \_\_\_\_\_ Phone No: \_\_\_\_\_

Email: \_\_\_\_\_

**Mandatory Details:**

Name of the Bank \_\_\_\_\_ Branch \_\_\_\_\_ Bank IFSC code \_\_\_\_\_

A/C NO																				
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PAN NO														
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Subject Code No.	Name of the Subject	No.of Sets	Amount(Rs.) @ Rs.600 per set
	<b>Total:</b>		

Received Rupees \_\_\_\_\_ only

Certified that the above work for which remuneration claimed is completed and in case, if the amount claimed is found to be in excess than eligible, I will refund the excess amount. I also certify that all the other particulars. Pertaining to bank details and PAN number are correct.

Place:

Date:

**Signature of the staff member**  
 (Affix Revenue Stamp if claim exceeds

Rs.5000.00)

Passed for Rs. \_\_\_\_\_  
 (Rupees \_\_\_\_\_ only)

VERIFIED BY

  
**PRINCIPAL**  
 Sr. (Reg.) Institute of Engineering & Tech  
 (Shangubailu), Dist. Nalgonda (T.S. 14)  
 R.R. Dist. Telangana

st. Asst.

A.R.

DR

DIRECTOR OF EVALUATION



STRICTLY CONFIDENTIAL

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Kukatpally, HYDERABAD – 500 085, Telangana (India)

From

**Dr. B.ANJANEYA PRASAD**

M.Tech., Ph.D., P.E., MISTE, M.C.I., M.S.E.S., MASME

Professor of Mechanical Engg. &

**DIRECTOR OF EVALUATION**

Date: 23-12-2015

To

Dr. I. Satyanarayana

Prof. & Principal, Mech. Engg. Dept.,

Sri Indu Instit of Engg & Tech.,

Hirahimpatnam.

Dear Sir/Madam,

I am happy to inform you that, you are appointed as paper setter in the subject of THERMAL AND NUCLEAR POWER PLANTS (R13) for M.Tech I Semester Examinations, 2016.

I request you to prepare two sets of Question Papers in the subject mentioned above. Please send the soft copy to [neecommua.2014@gmail.com](mailto:neecommua.2014@gmail.com) and hard copy along with the remuneration bill by mentioning the subject name and code number on the covers to the following address within One Week from the date of receipt of this letter.

**Dr. R. Sridevi, Additional Controller of Examinations, EDEP Section, Examinations Building, 2<sup>nd</sup> floor, JNTUH Kukatpally, Hyderabad – 500 085, Mobile Number 8008103826.**

The remuneration for setting of question paper of 3 hours duration is at the rate of Rs.600/- for each question paper.

**Kindly follow the guidelines given below for setting the question paper.**

1. The questions are to be prepared from **within** and in the **entire range** of prescribed syllabus of the subject. The question paper should consist of Part-A & Part-B.
2. **Part-A** is compulsory question where it consists of five sub questions, one from each unit and carries four marks each. This will be treated as question 1.
3. **Part-B** consists of five questions (numbered from 2 to 6) carries 8 marks each. Each of these questions is from one unit and may contain sub-questions. For each question, there will be an "either" "or" choice (that means there will be two questions from each unit and the student should answer only one question).
4. The student must be able to answer all questions in Part-'A' in about 60 minutes and each question from Part-B in about 20 minutes.
5. You are requested to include atleast four numerical problems if the course requires.
6. You are requested not to reproduce questions either from guides or study materials.
7. You are requested to confirm your acceptance through e-mail.
8. You are requested to use template provided.
9. Kindly keep your appointment strictly confidential.

PRINCIPAL  
Sri Indu Institute of Engineering & Tech.  
- Sangareddy (V), Sangareddy - 508 202 - (India)  
R. R. Dist. Telangana State

**DIRECTOR OF EVALUATION**

Code No:

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Tech I Semester Examinations, 2016

THERMAL AND NUCLEAR POWER PLANTS

0

Time: 3hrs

Max.Marks:60

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

## PART - A

5 × 4 Marks = 20

- 1.a) from Unit-1
- b) from Unit-2
- c) from Unit-3
- d) from Unit-4
- e) from Unit-5

## PART - B

5 × 8 Marks = 40

2. Unit-1  
(In this sub questions may be given as numbered as a, b, c etc)

OR

3. Unit-1  
(In this sub questions may be given as numbered as a, b, c etc)

4. Unit-2  
(In this sub questions may be given as numbered as a, b, c etc)

OR

5. Unit-2  
(In this sub questions may be given as numbered as a, b, c etc)

6. Unit-3  
(In this sub questions may be given as numbered as a, b, c etc)

OR

7. Unit-3  
(In this sub questions may be given as numbered as a, b, c etc)

8. Unit-4  
(In this sub questions may be given as numbered as a, b, c etc)

OR

9. Unit-4  
(In this sub questions may be given as numbered as a, b, c etc)

10. Unit-5  
(In this sub questions may be given as numbered as a, b, c etc)

OR

11. Unit-5  
(In this sub questions may be given as numbered as a, b, c etc)

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Jawahar Institute of Engineering & Tech.  
Hyderabad, Ibrahimpatnam  
Dist. Telangana-501154

**THERMAL AND NUCLEAR POWER PLANTS**

**UNIT -I:**

**INTRODUCTION:** Sources of energy, Type of Power plants, Direct energy conversion system, Energy sources in India, Recent developments in power generation, Combustion of coal, Volumetric analysis, Gravimetric analysis, Fuel gas analysis.

**Steam power plant:** Introduction, General layout of steam power plant, Modern coal. Fired Steam, Steam power plant. Power plant cycle, Fuel Handling, Combustion equipment, Ash handling, Dust collectors.

**Steam Generators:** Types, Accessories. Feed water heaters, Performance of boiling, Water treatment, Cooling towers. Steam turbines. Compounding of turbines. Steam condensers. Jet and surface condensers.

**UNIT-II:**

**GAS TURBINE POWER PLANT:** Cogeneration, Combined cycle power plant, Analysis, Waste heat recovery, IGCC power plant, Fluidized bed, Combustion, Advantages, Disadvantages

**UNIT-III:**

**NUCLEAR POWER PLANT:** Nuclear physics, Nuclear Reactor, Classification, Types of reactors, Site selection. Method of enriching uranium. Application of nuclear power plant. Nuclear Power Plant Safety: Bi-Product of nuclear power generation, Economics of nuclear power plant, Nuclear power plant in India, Future of nuclear power.

**UNIT-IV:**

**ECONOMICS OF POWER GENERATION:** Factors affecting the economics, Loading factors, Utilization factor, Performance and operating characteristics of power plant, Point economic load sharing, Depreciation, Energy rate, Criteria for optimum loading. Specific economic energy problem

**UNIT-V:**

**POWER PLANT INSTRUMENTATIONS:** Classification, Pressure measuring instrument, Temperature measurement and Flow Measurement, Analysis of combustion gases, Pollution types, Methods of control.

**REFERENCES:**

1. Power Plant Engineering / P.K.Naga / TMH
2. Power Plant Engineering / R.K.Rajput/ Lakshmi Publications.
3. Power Plant Engineering / P.C.Sharma/ Kotearia Publications.
4. Power Plant Technology / Wakil.

  
PRINCIPAL  
Sri Indu Institute of Engineering  
-Angutla(V), Ilakshmapuram  
Dist. Telangana -501 510

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**KUKATPALLY, HYDERABAD 500085**  
**EXAMINATION BRANCH**  
REMUNERATION BILL

Name of Examination: \_\_\_\_\_ (Reg./Supl.) 2016

Name of the Staff member: \_\_\_\_\_

Designation & Address: \_\_\_\_\_

Mobile No: \_\_\_\_\_ Phone No: \_\_\_\_\_

Email: \_\_\_\_\_

**Mandatory Details:**

Name of the Bank \_\_\_\_\_ Branch \_\_\_\_\_ Bank IFSC code \_\_\_\_\_

A/C.NO																				
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PAN NO											
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Subject Code No.	Name of the Subject	No.of Sets	Amount(Rs.) @ Rs.600 per set
<b>Total:</b>			

Received Rupees \_\_\_\_\_ only

Certified that the above work for which remuneration claimed is completed and in case, if the amount claimed is found to be in excess than eligible, I will refund the excess amount. I also certify that all the other particulars, Pertaining to bank details and PAN number are correct.

Place:

Date:

Signature of the staff member  
 (Affix Revenue Stamp if claim exceeds

Rs.5000.00)

Passed for Rs. ....  
 (Rupees .....  
 ..... only)

*(Handwritten Signature)*  
 Director  
 Institute of Engineering & Tech  
 Shergarh V, Barampochampally  
 R R Dist. Telangana 501 510

VERIFIED BY \_\_\_\_\_ sr. Asst. \_\_\_\_\_ A.R. \_\_\_\_\_ DR \_\_\_\_\_ DIRECTOR OF EVALUATION





JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
Kukatpally, HYDERABAD – 500 085, Telangana (India)

From

Date: 19-03-2016

**Dr. B.ANJANEYA PRASAD**

M.Tech., Ph.D., FIE., MISTE., M.C.I., MSES., MASME  
Professor of Mechanical Engg. &  
DIRECTOR OF EVALUATION

To

Dr. I. Satyanarayana  
Prof. & Principal, Mech. Engg. Dept.  
Sri Indu Instit of Engg. & Tech.,  
Ibrahimpatnam.

Dear Sir/Madam,

I am happy to inform you that, you are appointed as paper setter in the subject of ENGINEERING DRAWING for B.Tech I Year Examinations, 2016.

I request you to prepare Two sets of Question Papers in the subject mentioned above. Please send the soft copy of question papers to [acccommn.2014@gmail.com](mailto:acccommn.2014@gmail.com) and hard copy of bill form to the following address within One Week from the date of receipt of this letter.

Dr. B. Ramesh Chandra, Additional Controller of Examinations, EDEP Section, Examinations Building, 2<sup>nd</sup> floor, JNTUH Kukatpally, Hyderabad – 500 085 (Mobile No: 8008103826).

The remuneration for setting of question paper of 3 hours duration is at the rate of Rs. 500/- per each question paper. You are requested to send the remuneration bill (include postal receipt, if any) duly signed, along with the question paper(s). Requested to follow the guidelines given below.

1. The questions are to be prepared to cover the entire range of prescribed syllabi of the subject and units, Adopting SI Systems of units only.
2. Kindly set 8 questions (Questions may contain sub questions i.e., 1.a, b, ... ) in each of the question paper out of which candidates have to answer any five full questions.
3. The student must be able to answer each question in about 30 minutes and the maximum marks allotted for each question is 16 marks.
4. You are requested to include atleast four numerical problems if the course requires.
5. You are requested not reproduce questions from the guides or study materials.
6. You are requested to confirm your acceptance through mail.
7. You are requested to use template provided.
8. Kindly keep your appointment strictly confidential.

  
PRASAD  
Sri Indu Institute of Engineering & Tech.  
Ibrahimpatnam (V), Ibrahimpatnam (M),  
R.R. Dist. Telangana - 501 610

DIRECTOR OF EVALUATION