

**S.R.R. and C.V.R. Govt. Degree College (A), Vijayawada**  
**Department of Biochemistry**

**Certificate course in X-Ray and Operation Theatre Technician**

**Department of Biochemistry & Department of Physics and Electronics**

**In collaboration with Centurion University**



**SRR & CVR GOVT DEGREE COLLEGE(A)**  
MACHAVARAM, VIJAYAWADA



**TATA TRUST :**

"Become a Certified X-Ray & Operation Theatre Technician in one year"



**Centurion**  
UNIVERSITY



**DURATION :**

4 Months Class room training  
+ 6 Months internship



Course Certified by  
Healthcare  
Sector  
Skill Council

**Eligibility :**

12th pass with science background  
(No Upper age limit, No upper qualification limit)

Contact : 9014771547, 9493121313

**Dr. Velaga Joshi**  
Principal

**S.R.R. and C.V.R. Govt. Degree College (A), Vijayawada**  
**Department of Biochemistry**



Memorandum of Understanding is entered into the 9<sup>th</sup> day of January in the year of 2018

అంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH 8-1-2018  
 No: 46215...Dt 8-1-2018 Rs 100/-  
 ld to Sri. అ. లక్ష్మణ్... శా. లక్ష్మణ్... (ఉత్) విజయవాడ  
 r whom...

**MEMORANDUM OF UNDERSTNDING (MoU)**  
 Between  
**CENTURION UNIVERSITY OF TECHNOLOGY AND  
 MANAGEMENT, VISAKHAPATNAM**  
 AND  
**DEPARTMENT OF BIOCHEMISTRY**  
 AND  
**DEPARTMENT OF PHYSICS&ELECTRONICS,**  
**SRR&CVR GOVERNMENT DEGREE COLLEGE (A), VIJAYAWADA**

This Memorandum of Understanding is entered into the 9<sup>th</sup> day of January in the year of 2018 by and between Centurion University of technology and Mangement-Gram Tarang Employability services, Visakhapatnam actively engaged in the training of paramedical and allied health Sciences

And  
 SRR&CVR Government Degree College, Vijayawada therein after referred to as SRR&C, affiliated to Krishna University, accredited at B<sup>+</sup> by NAAC in cycle III with CGPA 2.60 and offering around forty UG,PG and Foreign Languages courses.

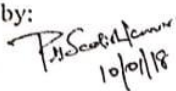

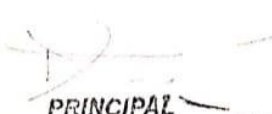

**S.R.R. and C.V.R. Govt. Degree College (A, Vijayawada**  
**Department of Biochemistry**

**5. Duration of the MoU:**

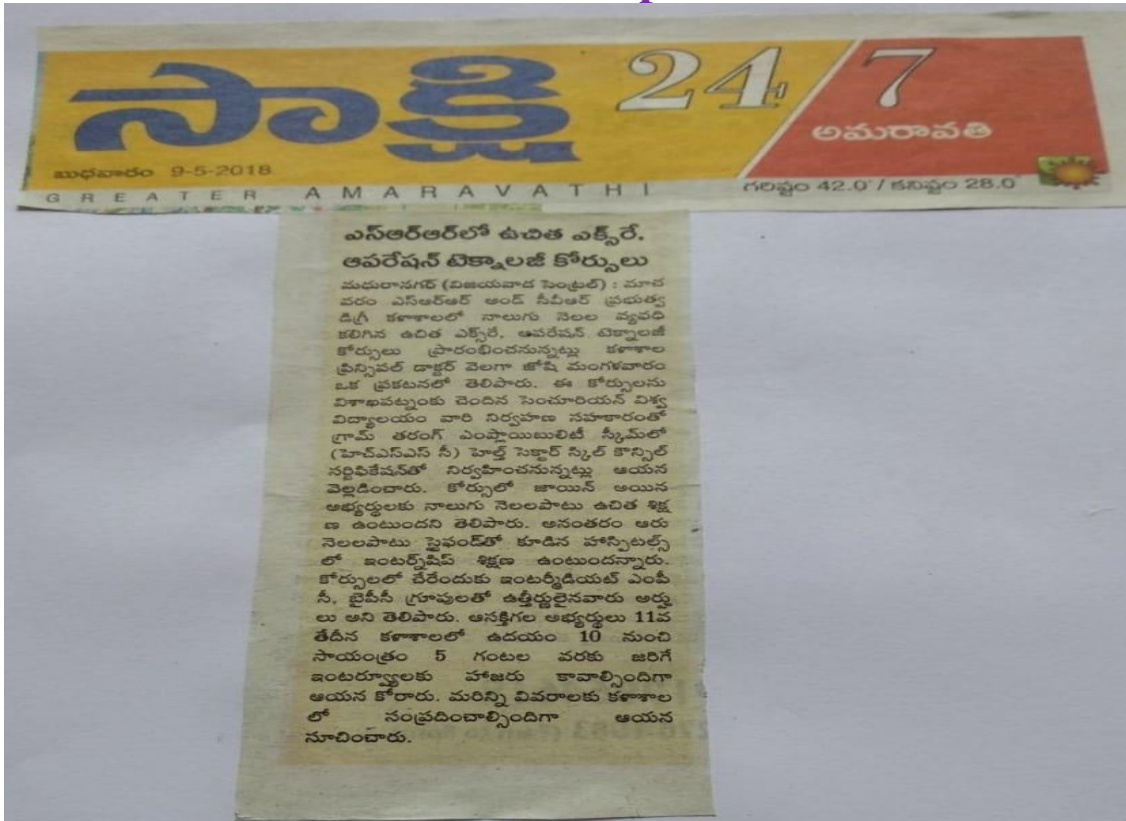
The duration of this MoU will be for three years from the date this MoU has come into effect as specified in the first paragraph and can be extended for another two years with the mutual written consent of both the institutions. Any violation of said training schedule of One year period by Centurion University of technology and Mangement-Gram Tarang Employability services, Visakhapatnam may lead to legal action.

**6. Signed in Duplicate:**

The MoU is executed in duplicate with each copy being an official and legally valid document. This is signed by the duly authorized officers of Centurion University of technology and Mangement-Gram Tarang Employability services, Visakhapatnam and SRR as given below and this MoU comes into effect from the date and year mentioned above.

<p>On the behalf of Centurion University of technology and Mangement-Gram Tarang Employability services, Visakhapatnam</p> <p>Signed by:  10/01/18.</p> <p>Sri. The Director, Centurion University of technology and Mangement-Gram Tarang Employability services, Visakhapatnam</p> <p>Seal: </p>	<p>On the behalf of SRR&amp;CVR Govt. Degree College (Autonomous) Vijayawada</p> <p>Signed by :  <b>PRINCIPAL</b> SRR &amp; CVR GOVT. DEGREE COLLEGE (Autonomous) Machavaram, VIJAYAWADA - 520 004.</p> <p><b>Dr. Velaga Joshi,</b> Principal SRR&amp;CVR Govt. Degree College(A) Vijayawada</p> <p>Seal: </p>
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**S.R.R. and C.V.R. Govt. Degree College (A, Vijayawada)**  
**Department of Biochemistry**



అయితే ఆదే నమయంలో హాజరవ్వాలని సూచించారు.

**28న ఉచిత ఎక్స్రే కోర్సు ప్రవేశానికి ఎంపికలు**

మాచవరం (సీతారాంపురం, న్యూస్టుడే): మాచవరంలోని ఎస్సార్ఆర్ ఆండ్ సీవీఆర్ ప్రభుత్వ డిగ్రీ కళాశాలలో ఈ నెల 28వ తేదీన నిర్వహించే ఉచిత ఎక్స్రే కోర్సులో ప్రవేశానికి అర్హులైన అభ్యర్థులకు ఇంటర్వ్యూలు నిర్వహిస్తామని కళాశాల ప్రెసిడెంట్ డాక్టర్ వెలగా జోషి తెలిపారు. నాలుగు నెలల వ్యవధిగల ఈ కోర్సును సెంచురీయన్ యూనివర్సిటీ నిర్వహణ సహకారంతో గ్రామ్ తరంగ్ ఎంప్లాయిబిలిటీ స్కీమ్లో (హెచ్ఎస్ఎస్సీ) హెల్త్ సెక్టార్ స్కిల్ కౌన్సిల్ సర్టిఫికేట్తో నిర్వహిస్తున్నట్లు వెల్లడించారు. ఈ కోర్సులో ప్రవేశించిన అభ్యర్థులకు నాలుగు నెలల పాటు తరగతి గదుల్లో ఉచిత శిక్షణ, అనంతరం ఆరు నెలల పాటు స్టైపెండ్తో కూడిన ఆసుపత్రుల్లో ఇన్టర్నీషిప్ శిక్షణ ఉంటుందన్నారు. ఇంటర్మీడియట్ ఎంపీసీ/బైపీసీ గ్రూపులో ఉత్తీర్ణులైన అభ్యర్థులు ఈ కోర్సులో ప్రవేశానికి అర్హులన్నారు. అసక్తిగల అభ్యర్థులు ఈ నెల 28వ తేదీ ఉదయం 10 నుంచి మధ్యాహ్నం 12 గంటల వరకు నిర్వహించే ఇంటర్వ్యూలకు హాజరవ్వాలని సూచించారు. మరిన్ని వివరాలకు ఫోన్ 90147 71547, 81255 08983 సంబర్ధించే సంప్రదించాలన్నారు.

# ఈనాడు అమరావతి

బుధవారం 9 మే 2018

20 పేజీలు

## ఎస్సార్‌లో ఉచిత ఎక్స్‌రే, ఆపరేషన్ టెక్నాలజీ కోర్సు

మాచవరం (సీతారాంపురం): ఎస్సార్‌లో ఆండ్ సీవీఆర్ ప్రభుత్వ డిగ్రీ కళాశాలలో ఈ విద్యా సంవత్సరంలో ఉచిత ఎక్స్‌రే, ఆపరేషన్ టెక్నాలజీ కోర్సును ప్రవేశపెడుతున్నట్లు కళాశాల ప్రెసిడెంట్ డాక్టర్ వెలగా ఊపి తెలిపారు. విశాఖపట్నంలోని సెంచూరియన్ విశ్వవిద్యాలయం వారి నిర్వహణా సహకారంతో గ్రామ్ తరంగ్ ఎంప్లాయిబిలిటీ స్కీమ్ ద్వారా హెచ్ఎస్ఎస్సీ (హెల్త్ సెక్టార్ స్కిల్ కౌన్సిల్) సర్టిఫికేషన్తో ఈ కోర్సు నిర్వహిస్తున్నట్లు పేర్కొన్నారు. ఇంటర్మీడియట్ ఎంపీసీ/బైపీసీ ఉత్తీర్ణులైన అభ్యర్థులు ఈ కోర్సులో ప్రవేశానికి అర్హులన్నారు. నాలుగు నెలల ఉచిత శిక్షణ, తర్వాత ఆరు నెలల పాటు స్టైపెండ్‌తో కూడిన ఆసుపత్రిలో ఇంటర్నీషిప్ శిక్షణ ఉంటుందన్నారు. కోర్సులో ప్రవేశానికి ఆసక్తిగల అభ్యర్థులు ఈ నెల 11వ తేదీన కళాశాలలో హాజరవ్వాలన్నారు.

# S.R.R. and C.V.R. Govt. Degree College (A, Vijayawada)

## Department of Biochemistry



www.cutm.ac.in

## Centurion University of Technology and Management

Established Vide AP Act No.3 of 2016, G.O.Ms No. 23

Date: 01-03-2018

To  
**Dr. Sujata Sharma, I.A.S,**  
**Special Commissioner, Collegiate Education**  
**Government of Andhra Pradesh**  
**Prasadampadu, Vijayawada,**

**Madam,**

**Sub:** Access to students, infrastructure in prominent Govt. Colleges to impart Vocational Education.

Centurion University of Technology & Management (CUTM), established through a legislation passed in 2010 in the Orissa State assembly is a private state university constituting of a School of Engineering, School of Management, School of Basic Sciences, MS Swaminathan School of Agricultural Sciences, and, a School of vocational Education & Training with 6 constituent campuses in Vishakapatnam, Chatrapur, Paralakhemundi, Rayagada, Bolangir & Bhubaneswar with a total campus area of over 200 acres with over 5,000 students in its under graduate and post graduate programs. The University won much recognition at National & International level & some of these are

- Youngest State University to be accredited as Grade "A" University by NAAC.
- Recognised in Australia as Section One University (among top 30 Universities of India) thus having Degree Equivalence.
- Cited in UN General Assembly by name, which is a rarity as a model.
- Sub Group of Chief Ministers Report of Skill Development Cites Centurion Model of Education as "Numero Uno in any parameter"
- The World Bank Report on Governance in Higher Education prominently describes Centurion University Model as replicable in HEIs
- Centurion University – Gram Tarang is the only best practice example in the NITI Ayog Report on "Best Practices of our States" released recently by Hon'ble PM.
- UNESCO has also published the model as a case study for Skill Integrated Higher Education in Practice.
- FICCI Global Skills Summit: Awarded Best Skills Project in Rural Community by FICCI and UK-India Business Council in 2010.
- "Honour Roll – Skills Champion: Emerging Warrior" at Global Skills Summit in FY 11-12, "Skills Champion of India Award" at FICCI Global Skills Summit in FY 12-13.
- Gram Tarang Inclusive Development Services received the 12<sup>th</sup> Manthan Award in the Financial Inclusion category.
- India Education Award 2015 for "Outstanding Employer Engagement Initiative".
- Centurion School of Rural Enterprise Management was nominated for the Europe Business Assembly Prestigious International Award 'Best Enterprise and Best Manager of the Year' – 2015.
- Awards from the "National Skill Development Corporation: Bhubaneswar Center awarded "Best Performing Center" by NSDC for FY 13-14; adjudged 'Overall Best Performer' in skill development by NSDC during FY 11-12.
- EY, that is, Ernest and Young LLP firm which is a global leader has taken up Centurion University for a case study and gave a report on Role of Higher Education in Creating Sustainable Livelihoods and Social Enterprise taking the inputs from Centurion University on July 2017.

### CUTM Campuses

**Paralakhemundi** : At - village Alluri Nagar, P.O. - R.Sitapur, Via - Uppalada,  
Paralakhemundi - 761211, Dist. Gajapati, Orissa, India.  
Email: registrar@cutm.ac.in

**Bhubaneswar**: At - Ramachandrapur, P.O. - Jatni, Bhubaneswar, Dist. - Orissa, India  
Email: vc@cutm.ac.in

### Corporate Office

Centurion University of Technology and Management  
MIG 33, D/N 39-33-33, Vuda Colony, Phase I,  
Madhavadar, Visakhapatnam - 530 018 A.P.  
Phone : 0891 2708977,  
email: dnrao@cutm.ac.in  
registrar@cutmap.ac.in  
vc@cutmap.ac.in

# S.R.R. and C.V.R. Govt. Degree College (A, Vijayawada)

## Department of Biochemistry



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## Centurion University of Technology and Management

Established Vide AP Act No.3 of 2016, G.O.Ms No. 23

CUTM has become famous and well known

- In skill integration through blended learning.
- Providing innovative education.
- Establishing smart and great campuses with community outreach.
- It is also famous in creating innovative social ventures by establishing
  - Gram Tarang Foods
  - Urban Micro Business Center
  - Gram Tarang Employability Services
  - Gram Tarang Inclusive Development Services etc.

Apart from higher education, the University has a major focus in skill building & vocational training through the *School of Vocational Education & Training* and was one of the first ever partners of NSDC in 2010 when it created an entrepreneurial outreach, Gram Tarang Employability Training Services Pvt. Ltd. (GTET). GTET has already trained over 100,000 youth in trades like automotive service technicians, manufacturing machinists, fitters, welders, electricians, CNC operators, Retail and Hospital entry level staff, IT & ITeS Data Entry, Domestic BPO, Apparel Sewing Machine Operators, Textile Mill Operators etc.

CUTM through its campuses in Vishakapatnam and Vizianagaram promises to bring the labs of all its 25 industry partners to Andhra Pradesh campus too. As a skill university, it will be a unique such university and will be pride of the state. The University is heading to contribute and play a major role in Higher Education and also ready to contribute for the development of Sunrise Andhra Pradesh to meet the dreams and vision of the great Chief Minister.

CUTM is working in close coordination with Andhra Pradesh State Skill Development Corporation (APSSDC) and implementing skilling programmes across the state of Andhra Pradesh. It is in need of infrastructure and access to students in prominent Government colleges of Andhra Pradesh to impart training on Unity Gaming Software to B.Sc (Physics, Chemistry, Mathematics) and Tally Accounting Software to B.Com (General, Honours, Computers) students. Also, CUTM is in need of 2 class rooms with a seating capacity of 30 students each and a computer lab in S.R.R & C.VR College to run paramedical courses like (X-Ray Technician, Operation Theatre Technician, Anaesthesia Technician, Cardio Technician, General duty Assistant etc.).

Looking forward to your kind support and cooperation.

With regards

Yours Sincerely

VICE-PRESIDENT  
CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT  
ANDHRA PRADESH

### CUTM Campuses

**Paralakhemundi** : At - village Alluri Nagar, P.O. - R.Sitapur, Via - Uppalada,  
Paralakhemundi - 761211, Dist. Gajapati, Orissa, India.  
Email: registrar@cutm.ac.in

**Bhubaneswar**: At - Ramachandrapur, P.O. - Jatni, Bhubaneswar, Dist. - Orissa, India  
Email: vc@cutm.ac.in

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vc@cutmap.ac.in

# **S.R.R. and C.V.R. Govt. Degree College (A, Vijayawada**

## **Department of Biochemistry**

Centurion University of Technology and Management is pioneering the concept of a School of Vocational Training in India with an overall objective of building human resource capability, resulting in employability as well as entrepreneurship development across disadvantaged areas of the world.

Centurion University has been providing various short and medium term vocational training and skill building programmes in collaboration with various Departments Government of India and other like-minded organisations. The manager from university approached APCCE Vijayawada and Principal of SRR&CVR GDC to start free course in X-ray technology & Operation theatre in S.R.R.&C.V.R GDC(A), in collaboration with department of biochemistry and physics, electronics.

The notification for the course was given through news paper media and banner at collage main gate. B.Sc. Students from S.R.R.&C.V.R GDC (A) and other college students joined the course. Principal Dr. Velaga Joshi provided a room to conduct the theory classes. Guest faculty Mrs. Dorca Anand, from department of microbiology appointed as part time faculty to teach for remuneration. And faculty from nursing colleges are also appointed to teach by Centurion University. The theory classes commenced for 4 months from 11/5/2028 to 20/9/20218. There after students were sent for 6 months internship (part time) bases to different hospitals. Syed Vaziha Tahaseen, Faculty from department of biochemistry, Dr. Sujatha faculty from department of physics & electronics acted as coordinators for the course.

### Course Objectives

1. Covers the practical application of radiography in the paramedical profession.
2. Includes principles of x-ray production, the operation and uses of x-ray machines, the care and development of films, and radiographic positioning of patients.
3. Prerequisites: Admission to the X-Ray Technology program.
4. Use an understanding of diagnostic quality images to determine options to correct deficiencies and to maximize diagnostic benefit and minimize radiation exposure based on repeated images.

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Apply knowledge of the health risks and effective safety procedures and professional judgment to minimize risks to personnel and patients during radiographic procedures.

### **Learning Outcomes**

#### **Upon successful completion of the course,**

- The student will be able to safely and effectively : Prepare radiographic and darkroom equipment, Choose an appropriate radiographic technique to minimize the need for repeat exposures, Produce the latent image, Process the exposed film, analyze the final radiograph for quality in order to provide maximum diagnostic benefit.
- The individual will be able to Handle X-ray equipment's, develop exposed x-ray films, Prepare the room, apparatus, and instruments for conventional radiological procedures like X-ray and Mammography and Set up the machine for the desired procedure
- Trainee will be able to position the patient correctly for an x-ray in the following positions: Erect, Sitting, supine, prone, lateral, oblique, decubitus
- Able to explain relative positions of x-ray tube and patient and the relevant exposure factors related to these
- Explain the use of accessories such as Radiographic cones, grid and positioning aids
- Setting up the equipment for images & ensuring safety from radiation to patients, self, coworkers

### **Course Syllabus**

#### **Module -1**

##### **Anatomy & Physiology:**

Skeletal System, .Respiratory system, Digestive System, Urinary system, Central nervous system, Endocrine system, Reproductive system

#### **Module -2**

##### **Essential Physics:**

Sound & Heat, A.C. and D.C. power supply, Rectification and Transformers, Electromagnetic radiation spectrum and its properties, Production of X and gamma rays, Radioactivity, Interaction of radiation with matter, Thermoluminescent dosimeter (TLD), Radiation protection.

# **S.R.R. and C.V.R. Govt. Degree College (A, Vijayawada**

## **Department of Biochemistry**

### **Module – 3**

#### **Principles of imaging:**

X-ray films, Intensifying screens, X-ray cassettes, Darkroom and types of equipment in Darkroom, Developer & fixer, Automatic Processing system, LASER Printer.

### **Module -4**

#### **Construction of Equipment:**

Stationery anode x-ray tube, rotating anode x-ray tube, Beam Restrictors, Grids, Fluoroscopy, Image Intensifier tube, Portable and mobile x-ray units, Dual-energy x-ray absorptiometry (DEXA).

### **Module-5**

#### **Radiographic Technique– 1:**

Upper limb, Lower Limb, Vertebral column, Skull Radiography, Chest X-Ray, Abdominal X-Ray. Views: AP, PA, LATERAL, OBLIQUE, RAO, LAO

### **Module – 6**

#### **Radiographic Special Procedures:**

Contrast media used in the x-ray department (inclusive of those applicable to CT & MRI), Barium meal, Barium swallow, Barium enema, BMFT, IPV, HSG, RGU, MCUG, Myelography, Sialography, Angiography

### **Module- 7**

#### **Mammography & Ultrasound:**

Mammography Machine, Views, Ultrasound, Transducer, Probes, Properties of Ultrasound. Doppler Ultra Sound

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**Department of Biochemistry**



Student hands-on training in procedures





S NO	DOMAIN	NAME OF THE STUDENT	MOBILE NUMBER	INTERNS
1	OTAT	KAMABATTULA BHARGAVI	9398253288	
2	OTAT	MERUGUMALA SRAVANI	8247261097	
3	OTAT	DEVULURI TONNY	9948256656	
4	OTAT	NETHALA JAYABABU	9966633654	
5	OTAT	MANDADAPU V VENUGOPAL	8074127071	
6	OTAT	MOHAMMED SOHAIL	9700523799	
7	OTAT	THOTA V S K MANIKANTA	9052561263	
8	OTAT	VALLURI LAKSHMINARAYANA	8184893484	
9	OTAT	GANDIKOTA NAGA PRATHYUSHA	8142851782	
10	OTAT	GUNTUR PRAVALLIKA	9985674132	
11	OTAT	GUBBALA NAVYASREE DURGA	8374862982	
12	OTAT	KOPPULA UDAY BHANU	7997657646	
13	OTAT	NEMALIKANTI SUDHAKAR	9010056915	
14	OTAT	ALLU INDU	7729065001	
15	OTAT	BOMMIDI PRASANTHI	9603199321	
16	OTAT	DEVADA SANTHOSI KUMARI	8897595373	
17	OTAT	PAPABATHINA ROJA	9949669662	
18	OTAT	BEZAWADA BLESSI	9652465597	
19	OTAT	BEJAWADA RANI PRAMILA	9603885901	
20	OTAT	BEVARA DIVYA	9959055213	
21	OTAT	RALI KALYANI	6305669422	
22	OTAT	BOGGAVARAPU RAJA KUMARI	9640802852	

SHIP PROVIDED (Y/N)	INTERNSHIP START DATE	INTERNSHIP HOSPITAL	WORK TIMINGS
Y	11/20/2018	PRASANTH HOSPITAL	9 AM-6 PM
Y	12/1/2018	SUNRISE HOSPITAL	10 AM-7 PM
Y	11/20/2018	PRASANTH HOSPITAL	9 AM-6 PM
Y	11/14/2018	CAPITAL HOSPITAL	9 AM-6 PM
Y	11/20/2018	PRASANTH HOSPITAL	9 AM-6 PM
Y	12/1/2018	AAYUSH HOSPITAL	10 AM-7 PM
Y	11/20/2018	PRASANTH HOSPITAL	9 AM-6 PM
Y	11/14/2018	CAPITAL HOSPITAL	9 AM-6 PM
Y	11/14/2018	CAPITAL HOSPITAL	9 AM-6 PM
NA	NA	SRR & CVR GOVT COLLEGE	NA
Y	12/1/2018	AAYUSH HOSPITAL	10 AM-7 PM
Y	12/1/2018	AAYUSH HOSPITAL	10 AM-7 PM
Y	12/1/2018	SUNRISE HOSPITAL	10 AM-7 PM
Y	12/1/2018	LIBERTY HOSPITAL	7 AM-2 PM
Y	11/20/2018	PRASANTH HOSPITAL	9 AM-6 PM
Y	11/20/2018	PRASANTH HOSPITAL	9 AM-6 PM
Y	11/14/2018	CAPITAL HOSPITAL	9 AM-6 PM
Y	12/1/2018	AAYUSH HOSPITAL	10 AM-7 PM
Y	12/1/2018	LIBERTY HOSPITAL	7 AM-2 PM
Y	11/20/2018	PRASANTH HOSPITAL	9 AM-6 PM
Y	12/1/2018	LIBERTY HOSPITAL	7 AM-2 PM
Y	12/1/2018	AAYUSH HOSPITAL	10 AM-7 PM

CONTACT PERSON AT HOSPITAL	STIPEND	REMARKS
MS. SIRISHA 9032691610	4000 INR	NONE
MR. LAKSHMAN 7660873111	4000 INR	NONE
MS. SIRISHA 9032691610	4000 INR	NONE
MR. VARDHAN 9966013143	5000 INR	NONE
MS. SIRISHA 9032691610	4000 INR	NONE
MR. SRINIVASA RAO 9912373111	5000 INR	NONE
MS. SIRISHA 9032691610	4000 INR	NONE
MR. VARDHAN 9966013143	5000 INR	NONE
MR. VARDHAN 9966013143	5000 INR	NONE
NA	NA	DROPOUT
MR. SRINIVASA RAO 9912373111	5000 INR	NONE
MR. SRINIVASA RAO 9912373111	5000 INR	NONE
MR. LAKSHMAN 7660873111	4000 INR	NONE
MR. DINESH 9553666054	4000 INR	NONE
MS. SIRISHA 9032691610	4000 INR	NONE
MS. SIRISHA 9032691610	4000 INR	NONE
MR. VARDHAN 9966013143	5000 INR	NONE
MR. SRINIVASA RAO 9912373111	5000 INR	NONE
MR. DINESH 9553666054	4000 INR	NONE
MS. SIRISHA 9032691610	4000 INR	NONE
MR. DINESH 9553666054	4000 INR	NONE
MR. SRINIVASA RAO 9912373111	5000 INR	NONE