



K.S. RANGASAMY COLLEGE OF ARTS AND SCIENCE
(Autonomous)

K.S.R Kalvi Nagar, Tiruchengode– 637 215
Namakkal Dt, Tamil Nadu, India

Department of Electronics and Communication

Value Added Course

Academic Year 2019-2020

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K.S.Rangasamy College of Arts and Science (Autonomous)

NAAC Reaccredited and an ISO Certified Institution

Affiliated to Periyar University, Salem

Included Under 2(f) & 12(B) of UGC Act, 1956

KSR Kalvi Nagar, Tiruchengode - 637 215; Namakkal Dist, Tamil Nadu, India

VALUE ADDED COURSES (CERTIFICATE COURSES) OFFERED BY THE COLLEGE ACADEMIC YEAR 2019 - 2020



| S.no | Offering Department | Name of Courses | Semester | Durations of the Courses |
|------|-------------------------------|--|----------|--------------------------|
| 1 | Commerce and Management | Personality Development | Odd/Even | 30 Hours |
| 2 | Computer Science | 3D Animation | Odd/Even | 30 Hours |
| 3 | Electronics and Communication | Cell Phone Servicing | Odd/Even | 30 Hours |
| 4 | Mathematics | MATLAB | Odd/Even | 30 Hours |
| 5 | Life Science | Basics of Biotechnology | Odd | 30 Hours |
| | | Understanding Immunity and Vaccination | Even | 30 Hours |

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TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, INDIA

K.S.Rangasamy College of Arts and Science (Autonomous)
Tiruchengode – 637 215

Department of Electronics and Communication

CIRCULAR

From
The Head
Department of Electronics & Communication

To
All HODs
Students of all Departments

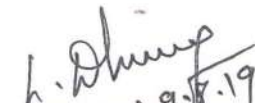
Date: 19-08-2019

Sub: Certificate Course- Cell Phone Servicing-reg


Our Department has planned to conduct certificate course on "Cell Phone Servicing" in this semester. Total duration of the course is 30 hours, course starts from September. Students who are all interested may enroll their names to the course coordinator. The Certificate course will be conducted after the class hours 4.15pm to 5.15pm. At the end of this course, certificate will be issued.

Students are advised to meet following staff for registration.

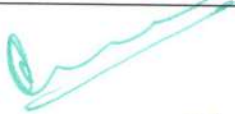
Mr.L.Dhatchinamurthy
Course Coordinator
Department of Electronics and Communication
KSRCAS


Course Coordinator
19.8.19


Head of the Department
Dr. K.M. PRAHUSANKARLAL, M.Sc., M.Phil., M.Tech.
Associate Professor & Head,
Dept. of Electronics & Communication
K.S. Rangasamy College of Arts & Science (Autonomous)
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| | | |
|--|--|-----------|
| 18UECCC01 | CERTIFICATE COURSE: CELL PHONE SERVICING | ODD/EVEN |
| Course Objectives: The Course aims <ul style="list-style-type: none"> • Learn the Basic generation and spectrum process • Understand the operating systems and principle of handset • Understand the basic repairing and troubleshooting the handset | | |
| Duration: 30Hrs | | |
| UNIT | CONTENTS | CO |
| I | Introduction: Introduction to mobile phones-Generations of mobile phones-FHSS networks-GSM-Spread spectrum-CDMA-TDMA-Fourth Generation (4G)- Fifth Generation (5G) - Basic electronics components. | CO1 |
| II | Handsets: Handset Specific operating systems-Handset features & applications- working principle of mobile handset -Components used in mobile handsets. | CO2 |
| III | Handset Troubleshooting: Tools & Equipment used for repairing - Maintenance of mobile handsets-Types of Power Supply & Batteries-Boosting a Battery-Trouble shooting basics. | CO3 |
| IV | Network Troubleshooting: Network problems-Power failure (dead)- Mobile phone hardware troubleshooting (water damage, hanging, charging & keypad problems)- Handsets Assembly& Disassembly-Soldering & Desoldering -SMD rework station. | CO4 |
| V | Mobile software: Mobile software's-Data cable-Card reader-Mobile display- Remove/replace Component- Mobile phone hardware troubleshooting-Troubleshooting through circuit diagram-Transmission-Transmitter filter- Microphone- Reception- Antenna-RF power amplifier- Local oscillator-Audio IC-speaker- charger. | CO5 |
| Text Books | | |
| 1 | <i>Chukky Operandu.</i> 2014. Mobile Phones and Tablets Repairs: A Complete Guide for Beginners and Professionals. [First Edition]. Mondraim Nig Limited | |
| Reference Books | | |
| 1 | <i>Sajal Kumar Das.</i> 2013. Mobile handset Design. Wiley Publication. | |
| 2 | <i>Chukky Operandu.</i> 2014. Smart Phones and Tablets Repairs: A Complete Guide for Beginners and Professionals. [First Edition]. Mondraim Nig Limited | |


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COURSE OUTCOMES (CO)

After the completion of the course, the student will be able to

| | |
|-----|---|
| CO1 | Establish and run a Mobile Handset Repairing unit |
| CO2 | Repair and Diagnose the Problem of all kinds of faults in Mobile Phone handsets in Hardware as well Software. and |
| CO3 | Use appropriate tools, spares and software updates, conduct test for repairs, |
| CO4 | Ensure admittance of faulty handsets, prioritize and conduct repair activities. |
| CO5 | Rectify the faults using tools, equipments, and softwares |



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Work Plan Schedule

Faculty Name : Ms.K.Shanthikala

Department : B.Sc. ELEC

Class : II UG

Subject : CERTIFICATE COURSE: CELL

Period : ODD/EVEN 2019-2020

PHONE SERVICING (18UECCC01)

| S No | Unit | Topic | No Of Hours |
|--------------------------|--------|---|-------------|
| 1 | I | Introduction to mobile phones-Generations of mobile phones | 2 |
| 2 | I | FHSS networks-GSM-Spread spectrum-CDMA-TDMA | 2 |
| 3 | I | Fourth Generation (4G)- Fifth Generation (5G) -Basic electronics components. | 2 |
| 4 | II | Handset Specific operating systems-Handset features & applications | 2 |
| 5 | II | Working principle of mobile handset | 2 |
| 6 | II | Components used in mobile handsets. | 2 |
| 7 | III | Tools & Equipment used for repairing - Maintenance of mobile handsets | 2 |
| 8 | III | Types of Power Supply & Batteries | 2 |
| 9 | III | Boosting a Battery-Trouble shooting basics. | 2 |
| 10 | IV | Network problems-Power failure (dead)-Mobile phone hardware troubleshooting (water damage, hanging, charging & keypad problems) | 2 |
| 11 | IV | Handsets Assembly& Disassembly | 2 |
| 12 | IV | Soldering & Desoldering -SMD rework station. | 2 |
| 13 | V | Mobile software's-Data cable-Card reader-Mobile display- Remove/replace Component | 2 |
| 14 | V | Mobile phone hardware troubleshooting-Troubleshooting through circuit diagram-Transmission-Transmitter filter | 2 |
| 15 | V | Microphone- Reception- Antenna-RF power amplifier-Local oscillator-Audio IC-speaker-charger | 2 |
| 16 | Others | Revision | 2 |
| Total No of Hours | | | 32 |



HOD Signature
with Date

[Dr.K.M.PRABUSANKARLAL]


11/13/2019

Faculty
Signature
with Date

[Ms.K.Shanthikala]


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TIRUCHENGODE - 637 215

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

CERTIFICATE COURSE STUDENTS NAME LIST


Academic Year 2019-2020

Course Code: 18UECCC01

Course Name: Cell Phone Servicing

Batch : 2018-2021

| S. No | Register No | Student Name | STUDENTS SIGNATURE |
|-------|-------------|---------------------|--------------------|
| 1 | 18UTA013 | GOKULKRISHNAN M | Gokulkrish M |
| 2 | 18UTA023 | KARTHIKRAJA R | Karthik Raja R |
| 3 | 18UCO037 | PANNEERSELVAM S | Panneer Selvam S |
| 4 | 18UCO039 | PRABAKARAN S | Prabakaran S |
| 5 | 18UCC039 | GOWTHAM V | Gowtham V |
| 6 | 18UCC042 | GUNAL M | Gunal M |
| 7 | 18UCC075 | KRISHNARAJ K | Krishnaraj K |
| 8 | 18UCC077 | LOGESWARAN A | Logeswaran A |
| 9 | 18UCH022 | NANDHAKUMAR S | Nandhakumar S |
| 10 | 18UCH039 | VENUGOPAL K | Venugopal K |
| 11 | 18UMB002 | ARUNA D | Aruna D |
| 12 | 18UMB003 | BHUVANESHWARI S | Bhuvaneshwari S |
| 13 | 18UMB020 | MADHUMITHA M | Madhumitha M |
| 14 | 18UCA006 | ARUNKUMAR A | Arun Kumar A |
| 15 | 18UCA009 | BALAMURUGAN S | Bala Murugan S |
| 16 | 18UCA016 | CHANDIRAN G | Chandiran G |
| 17 | 18UCA022 | DHATCHANA MOORTHY S | Dhatchana S |
| 18 | 18UPH017 | GOWTHAM S | Gowtham S |
| 19 | 18UPH053 | SAMITHRA S | Samithra S |
| 20 | 18UPH063 | SATHISH KUMAR T | Sathish Kumar T |
| 21 | 18UPH064 | SELVAM S | Selvam S |
| 22 | 18UPH069 | SUNDAR T | Sundar T |
| 23 | 18UPH072 | VASU S | Vasu S |


Dr. K.M. PRABUSANKARLAL, M.Sc., M.Phil., M.E., Ph.D.,
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

CERTIFICATE COURSE NAME LIST

2019-2020

Batch : 2018-2021

| S. No | Register No | Student Name | 13/9 | 14/9 | 17/9 | 18/9 | 19/9 | 20/9 | 21/9 | 24/9 | 25/9 | 26/9 |
|-------|-------------|-----------------|------|------|------|------|------|------|------|------|------|------|
| 1 | 18UTA013 | GOKULKRISHNAN M | / | / | / | a | / | / | / | / | a | / |
| 2 | 18UTA023 | KARTHIKRAJA R | / | a | / | / | / | / | / | / | / | / |
| 3 | 18UCO037 | PANNEERSELVAM S | / | / | a | / | / | / | / | / | / | / |
| 4 | 18UCO039 | PRABAKARAN S | / | / | / | / | / | / | / | / | / | / |
| 5 | 18UCC039 | GOWTHAM V | / | / | / | / | / | / | / | / | / | / |
| 6 | 18UCC042 | GUNAL M | / | / | a | / | / | / | / | / | / | / |
| 7 | 18UCC075 | KRISHNARAJ K | / | / | / | / | / | / | / | / | / | / |
| 8 | 18UCC077 | LOGESWARAN A | a | / | / | / | / | / | / | / | / | / |
| 9 | 18UCH022 | NANDHAKUMAR S | / | / | / | / | / | a | / | / | / | / |
| 10 | 18UCH039 | VENUGOPAL K | / | / | / | / | / | / | / | / | / | / |
| 11 | 18UMB002 | ARUNA D | / | a | / | / | / | / | / | / | / | / |
| 12 | 18UMB003 | BHUVANESHWARI S | a | / | / | / | / | a | / | / | / | a |
| 13 | 18UMB020 | MADHUMITHA M | / | / | / | a | / | / | / | a | / | / |
| 14 | 18UCA006 | ARUNKUMAR A | / | / | / | / | / | / | / | / | / | a |
| 15 | 18UCA009 | BALAMURUGAN S | / | / | / | / | / | / | / | / | / | / |
| 16 | 18UCA016 | CHANDIRAN G | / | / | / | / | / | / | / | / | a | / |
| 17 | 18UCA022 -S | | / | / | / | / | / | / | / | / | / | / |
| 18 | 18UPH017 | GOWTHAM S | / | / | / | / | / | / | / | / | / | / |
| 19 | 18UPH053 | SAMITHRA S | / | / | a | / | / | / | a | / | / | / |
| 20 | 18UPH063 | SATHISH KUMAR T | / | / | / | / | / | / | / | / | / | / |
| 21 | 18UPH064 | SELVAM S | / | / | a | / | / | / | a | / | / | / |
| 22 | 18UPH069 | SUNDAR T | / | / | / | / | / | / | / | / | / | / |
| 23 | 18UPH072 | VASU S | / | / | / | / | / | / | / | / | / | / |

Staff Signature K.S K.S K.S K.S K.S K.S K.S K.S K.S K.S



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TIRUCHENGODE - 637 215


DEPARTMENT OF ELECTRONICS AND COMMUNICATION

CERTIFICATE COURSE NAME LIST

Batch : 2018-2021

| S. No | Register No | Student Name | 27/9 | 28/9 | 1/10 | 2/10 | 4/10 | 5/10 | 6/10 | 12/10 | 13/10 | 19/10 |
|-------|-------------|-----------------|------|------|------|------|------|------|------|-------|-------|-------|
| 1 | 18UTA013 | GOKULKRISHNAN M | / | / | / | / | / | / | a | / | / | a |
| 2 | 18UTA023 | KARTHIKRAJA R | / | a | / | / | a | / | / | / | / | / |
| 3 | 18UCO037 | PANNEERSELVAM S | / | / | a | / | / | / | a | / | / | / |
| 4 | 18UCO039 | PRABAKARAN S | / | / | / | / | a | / | / | / | / | / |
| 5 | 18UCC039 | GOWTHAM V | / | / | / | a | / | / | / | / | / | / |
| 6 | 18UCC042 | GUNAL M | / | / | / | / | / | / | / | / | / | / |
| 7 | 18UCC075 | KRISHNARAJ K | / | / | / | / | / | / | / | a | / | / |
| 8 | 18UCC077 | LOGESWARAN A | / | / | / | / | / | / | / | / | / | / |
| 9 | 18UCH022 | NANDHAKUMAR S | / | / | / | / | / | / | / | / | a | / |
| 10 | 18UCH039 | VENUGOPAL K | / | / | / | / | / | / | / | / | / | / |
| 11 | 18UMB002 | ARUNA D | / | / | / | / | a | / | / | / | / | / |
| 12 | 18UMB003 | BHUVANESHWARI S | / | a | / | / | / | / | a | / | / | / |
| 13 | 18UMB020 | MADHUMITHA M | / | / | / | / | / | / | / | / | / | / |
| 14 | 18UCA006 | ARUNKUMAR A | / | / | / | / | / | / | / | / | / | / |
| 15 | 18UCA009 | BALAMURUGAN S | / | / | a | / | / | / | a | / | / | / |
| 16 | 18UCA016 | CHANDIRAN G | a | / | / | / | / | / | / | / | / | / |
| 17 | 18UCA022 | S | / | / | / | / | / | / | / | / | a | / |
| 18 | 18UPH017 | GOWTHAM S | / | / | / | / | a | / | / | / | / | / |
| 19 | 18UPH053 | SAMITHRA S | / | / | a | / | / | / | / | a | / | / |
| 20 | 18UPH063 | SATHISH KUMAR T | / | / | / | / | / | / | / | / | / | / |
| 21 | 18UPH064 | SELVAM S | / | / | / | / | / | / | / | / | / | a |
| 22 | 18UPH069 | SUNDAR T | / | / | / | / | / | / | / | / | a | / |
| 23 | 18UPH072 | VASU S | a | / | / | / | / | / | / | a | / | / |

Staff Signature K'S K'S K'S K'S K'S K'S K'S K'S K'S K'S K'S


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TIRUCHENGODE - 637 215

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

CERTIFICATE COURSE NAME LIST

Batch : 2018-2021

| S. No | Register No | Student Name | 20 12 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
|-------|-------------|-----------------|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 18UTA013 | GOKULKRISHNAN M | / | / | a | / | / | / | / | a | / | / | / | / | / | / | / |
| 2 | 18UTA023 | KARTHIKRAJA R | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 3 | 18UCO037 | PANNEERSELVAM S | / | / | / | / | a | / | a | / | / | / | / | / | / | / | / |
| 4 | 18UCO039 | PRABAKARAN S | / | a | / | / | / | / | / | / | / | / | / | a | / | / | / |
| 5 | 18UCC039 | GOWTHAM V | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 6 | 18UCC042 | GUNAL M | / | / | / | / | / | / | / | / | / | / | a | / | / | / | / |
| 7 | 18UCC075 | KRISHNARAJ K | / | / | a | / | / | a | / | / | / | / | / | / | / | / | / |
| 8 | 18UCC077 | LOGESWARAN A | / | / | / | / | / | / | / | / | / | / | / | / | / | / | a |
| 9 | 18UCH022 | NANDHAKUMAR S | a | / | / | / | / | / | / | / | / | / | / | a | / | / | / |
| 10 | 18UCH039 | VENUGOPAL K | / | / | / | / | a | / | / | / | / | / | / | / | / | / | / |
| 11 | 18UMB002 | ARUNA D | / | / | / | a | / | / | / | / | / | / | / | / | / | / | a |
| 12 | 18UMB003 | BHUVANESHWARI S | / | / | / | / | / | a | / | / | / | / | / | / | / | / | / |
| 13 | 18UMB020 | MADHUMITHA M | / | / | / | / | / | / | / | / | / | / | a | / | / | / | / |
| 14 | 18UCA006 | ARUNKUMAR A | / | / | a | / | / | / | / | / | / | / | / | / | / | / | / |
| 15 | 18UCA009 | BALAMURUGAN S | / | / | / | / | / | a | / | / | / | / | / | a | / | / | / |
| 16 | 18UCA016 | CHANDIRAN G | / | / | / | / | / | / | / | a | / | / | / | / | / | / | / |
| 17 | 18UCA022 | S | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 18 | 18UPH017 | GOWTHAM S | / | / | / | / | / | / | / | / | / | / | / | / | / | / | a |
| 19 | 18UPH053 | SAMITHRA S | a | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 20 | 18UPH063 | SATHISH KUMAR T | / | / | / | / | a | / | / | a | / | / | / | / | / | / | / |
| 21 | 18UPH064 | SELVAM S | / | a | / | / | / | / | / | / | / | / | / | a | / | / | / |
| 22 | 18UPH069 | SUNDAR T | a | / | / | / | / | / | a | / | / | / | / | / | / | / | a |
| 23 | 18UPH072 | VASU S | / | / | / | a | / | / | / | / | / | / | / | a | / | / | / |

Staff Signature K'S K'S K'S K'S K'S K'S K'S K'S K'S K'S K'S K'S K'S K'S


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CERTIFICATE COURSE : CELL PHONE

CLASS : II - V6 . 2019-2020 SUBJECT : SERVICING (18UECC01)

| Planned | | Topics Covered | Executed | | Signature | |
|---------|-------------|----------------------------------|----------|-----------|-----------|-----|
| Date | Hour | | Date | Hour | Faculty | HOD |
| 13/9 | 4.15 - 5.15 | Introduction to mobile phone | 13/9 | 4.15-5.15 | K.S | } |
| 14/9 | 4.15-5.15 | Generation of mobile phones | 14/9 | 4.15-5.15 | K.S | |
| 17/9 | 4.15-5.15 | FHSS network - GSM - spread | 17/9 | 4.15-5.15 | K.S | |
| 18/9 | 4.15-5.15 | Spectrum - CDMA - TDMA | 18/9 | 4.15-5.15 | K.S | |
| 19/9 | 4.15-5.15 | Fourth Generation (4G) | 19/9 | 4.15-5.15 | K.S | |
| 20/9 | 4.15-5.15 | Fifth Generation (5G) - Basic | 20/9 | 4.15-5.15 | K.S | |
| | | Electronics components. | | | | |
| 21/9 | 4.15-5.15 | Handset specific operating | 21/9 | 4.15-5.15 | K.S | |
| 24/9 | 4.15-5.15 | Systems - Handset features | 24/9 | 4.15-5.15 | K.S | |
| | | applications | | | | |
| 25/9 | 4.15-5.15 | Working principle of | 25/9 | 4.15-5.15 | K.S | } |
| 26/9 | 4.15-5.15 | mobile handset. | 26/9 | 4.15-5.15 | K.S | |
| 27/9 | 4.15-5.15 | Components used in | 27/9 | 4.15-5.15 | K.S | |
| 28/9 | 4.15-5.15 | mobile handset. | 28/9 | 4.15-5.15 | K.S | |
| 1/10 | 4.15-5.15 | Tools, Equipment used for | 1/10 | 4.15-5.15 | K.S | |
| 2/10 | 4.15-5.15 | repairing - Maintenance of | 2/10 | 4.15-5.15 | K.S | |
| | | mobile handsets. | | | | |
| 4/10 | 4.15-5.15 | Types of power supply & | 4/10 | 4.15-5.15 | K.S | |
| 5/10 | 4.15-5.15 | Batteries. | 5/10 | 4.15-5.15 | K.S | |
| 6/10 | 4.15-5.15 | Boosting a Battery - Trouble | 6/10 | 4.15-5.15 | K.S | |
| 12/10 | 4.15-5.15 | shooting basics. | 12/10 | 4.15-5.15 | K.S | |
| 13/12 | 4.15-5.15 | Network. Problems - Power | 13/12 | 4.15-5.15 | K.S | } |
| 14/12 | 4.15-5.15 | failure (dead) - Mobile phones | 14/12 | 4.15-5.15 | K.S | |
| | | hardware troubleshooting | | | | |
| | | (Water damage, hanging, Charging | | | | |
| | | Keypad problems) | | | | |
| 20/12 | 4.15-5.15 | Handsets Assembly & | 20/12 | 4.15-5.15 | K.S | |
| 2/1 | 4.15-5.15 | Disassembly | 2/1 | 4.15-5.15 | K.S | |
| 3/1 | 4.15-5.15 | Soldering & Desoldering | 3/1 | 4.15-5.15 | K.S | |
| 4/1 | 4.15-5.15 | SMD work station. | 4/1 | 4.15-5.15 | K.S | |

S: II - V GI 2019-2020 SUBJECT: SERVICING (18VECC01)

| Planned | | Topics Covered | Executed | | Signature | |
|---------|-----------|---|------------------------------|-----------|-----------|------|
| Date | Hour | | Date | Hour | Faculty | HOD |
| 10/1 | 4.15-5.15 | | Mobile software - Data cable | 10/1 | 4.15-5.15 | K.d. |
| 23/1 | 4.15-5.15 | Card reader - Mobile display - Remove / replace components. | 23/1 | 4.15-5.15 | K.d. | |
| 24/1 | 4.15-5.15 | Mobile phones hardware | 24/1 | 4.15-5.15 | K.d. | } |
| 30/1 | 4.15-5.15 | Software troubleshooting - Troubleshooting through circuit diagram - Transmission - Transmitter filter | 30/1 | 4.15-5.15 | K.d. | |
| 31/1 | 4.15-5.15 | Microphone - Reception - | 31/1 | 4.15-5.15 | K.d. | } |
| 21/2 | 4.15-5.15 | Antenna - RF Power amplifier Local oscillator - Audio IC - Speaker charger | 21/2 | 4.15-5.15 | K.d. | |
| 27/2 | 4.15-5.15 | Revisions | 27/2 | 4.15-5.15 | K.d. | } |
| 28/2 | 4.15-5.15 | Revision | 28/2 | 4.15-5.15 | K.d. | |
| | | Syllabus Completed → | | | | |
| | | K.d. | | | | |


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

CERTIFICATE COURSE MARK LIST

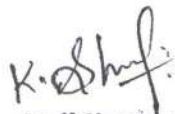
Course Code: 18UECCC01

Course Name: Cell Phone Servicing

Batch : 2018-2021

Max Marks: 100

| S. No | Register No | Student Name | ASS 1 (10) | ASS 2 (10) | Test (75) | Att % | Att (5) | Total |
|-------|-------------|-------------------|------------|------------|-----------|-------|---------|-------|
| 1 | 18UTA013 | GOKULKRISHNAN M | 9 | 8 | 74 | 92 | 5 | 96 |
| 2 | 18UTA023 | KARTHIKRAJA R | 9 | 8 | 72 | 93 | 5 | 94 |
| 3 | 18UCO037 | PANNEERSELVAM S | 9 | 7 | 70 | 90 | 5 | 91 |
| 4 | 18UCO039 | PRABAKARAN S | 8 | 8 | 70 | 94 | 5 | 91 |
| 5 | 18UCC039 | GOWTHAM V | 9 | 6 | 70 | 97 | 5 | 90 |
| 6 | 18UCC042 | GUNAL M | 7 | 9 | 72 | 96 | 5 | 93 |
| 7 | 18UCC075 | KRISHNARAJ K | 8 | 7 | 73 | 93 | 5 | 93 |
| 8 | 18UCC077 | LOGESWARAN A | 6 | 8 | 74 | 95 | 5 | 93 |
| 9 | 18UCH022 | NANDHAKUMAR S | 9 | 9 | 73 | 94 | 5 | 96 |
| 10 | 18UCH039 | VENUGOPAL K | 8 | 8 | 72 | 97 | 5 | 93 |
| 11 | 18UMB002 | ARUNA D | 8 | 9 | 70 | 93 | 5 | 92 |
| 12 | 18UMB003 | BHUVANESHWARI S | 7 | 8 | 71 | 92 | 5 | 91 |
| 13 | 18UMB020 | MADHUMITHA M | 9 | 9 | 70 | 95 | 5 | 93 |
| 14 | 18UCA006 | ARUNKUMAR A | 8 | 7 | 72 | 96 | 5 | 92 |
| 15 | 18UCA009 | BALAMURUGAN S | 6 | 7 | 72 | 92 | 5 | 90 |
| 16 | 18UCA016 | CHANDIRAN G | 7 | 6 | 67 | 95 | 5 | 85 |
| 17 | 18UCA022 | DHATCHANA MOORTHY | 8 | 6 | 70 | 97 | 5 | 89 |
| 18 | 18UPH017 | GOWTHAM S | 9 | 8 | 70 | 96 | 5 | 92 |
| 19 | 18UPH053 | SAMITHRA S | 8 | 7 | 74 | 93 | 5 | 94 |
| 20 | 18UPH063 | SATHISH KUMAR T | 7 | 6 | 73 | 92 | 5 | 91 |
| 21 | 18UPH064 | SELVAM S | 8 | 7 | 72 | 90 | 5 | 92 |
| 22 | 18UPH069 | SUNDAR T | 7 | 9 | 71 | 90 | 5 | 92 |
| 23 | 18UPH072 | VASU S | 9 | 8 | 71 | 92 | 5 | 93 |



Staff Signature

(Ms.K.Shanthikala)



HoD

(Dr.K.M.Prabusankarlal)

Dr. K.M. PRABUSANKARLAL, M.Sc., M.Phil., M.E., Ph.D.,
Associate Professor & Head,
Dept. of Electronics & Communication
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Dr.V.Radhakrishnan
Principal

Mr.L.Dhatchinamurthy
Course Coordinator

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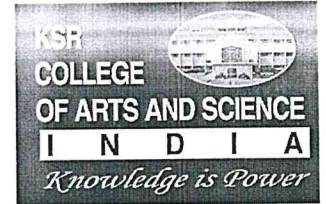
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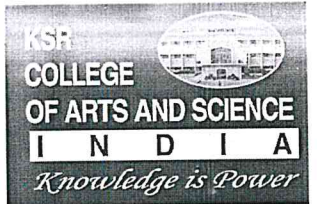
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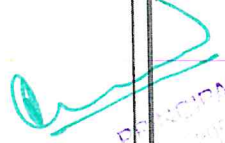
Certificate

*This is to certify that **GUNAL M, (18UCC042)** of **II B.COM CA** has completed a Certificate Course in **Cell Phone Servicing** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15***


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This is to certify that **KRISHNARAJ K, (18UCC075)** of **II B.COM CA** has completed a Certificate Course in ***Cell Phone Servicing*** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**


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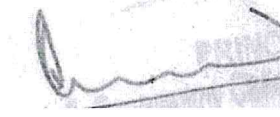


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*This is to certify that LOGESWARAN A, (18UCC077) of II B.COM CA has completed a Certificate Course in Cell Phone Servicing during the academic year 2019-2020, ODD/EVEN semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15***


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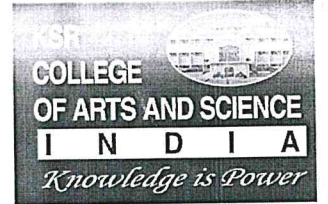

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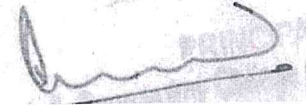
This is to certify that NANDHAKUMAR S, (18UCH022) of II B.Sc., CHE has completed a Certificate Course in **Cell Phone Servicing** during the academic year 2019-2020, ODD/EVEN semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**



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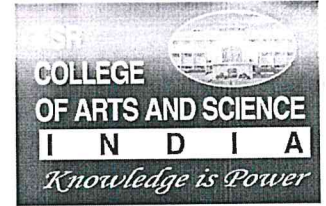
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This is to certify that VENUGOPAL K, (18UCH039) of II B.Sc., CHE has completed a Certificate Course in **Cell Phone Servicing** during the academic year 2019-2020, ODD/EVEN semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**

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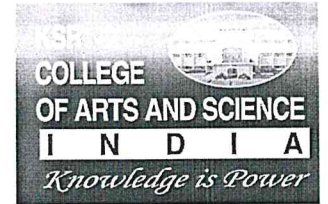
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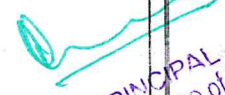
Certificate

This is to certify that ARUNA D, (18UMB002) of II B.Sc., MB has completed a Certificate Course in **Cell Phone Servicing** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**


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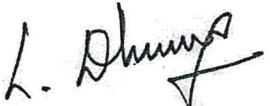
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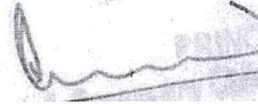


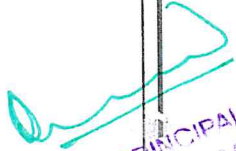
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This is to certify that **BHUVANESHWARI S, (18UMB003)** of **II B.Sc., MB** has completed a Certificate Course in **Cell Phone Servicing** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**


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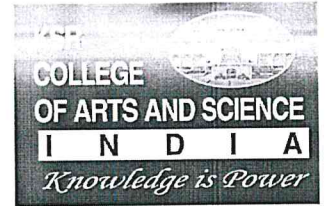

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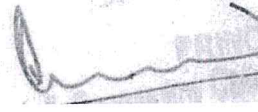


Certificate

This is to certify that MADHUMITHA M, (18UMB020) of II B.Sc., MB has completed a Certificate Course in **Cell Phone Servicing** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**


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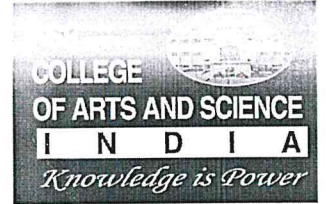

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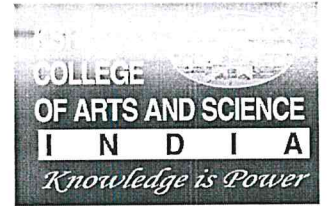

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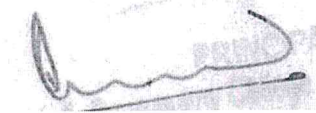


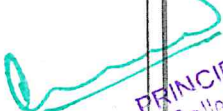
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This is to certify that **BALAMURUGAN S, (18UCA009)** of **II BCA** has completed a Certificate Course in ***Cell Phone Servicing*** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**


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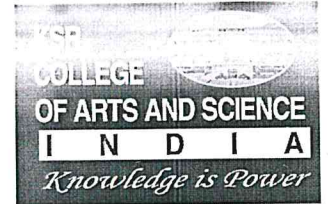

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This is to certify that **CHANDIRAN G, (18UCA016)** of **II BCA** has completed a Certificate Course in ***Cell Phone Servicing*** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**



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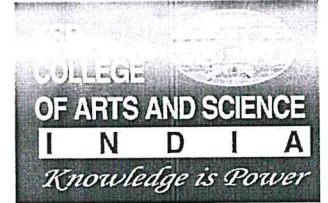
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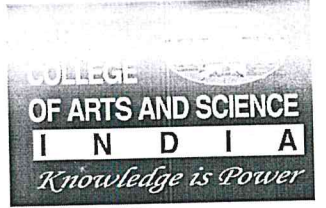

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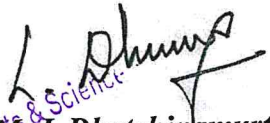

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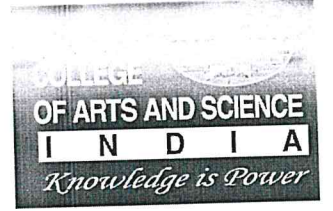
This is to certify that **GOWTHAM S, (18UPH017)** of **II B.Sc., PHY** has completed a Certificate Course in **Cell Phone Servicing** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**


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Course Coordinator


Dr. K.M. Prabusankarlal
Head of the Department

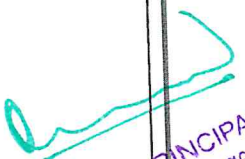

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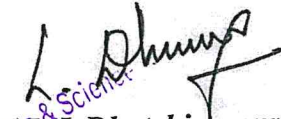
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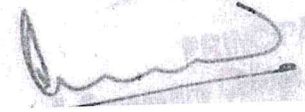
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This is to certify that SAMITHRA S, (18UPH053) of II B.Sc., PHY has completed a Certificate Course in **Cell Phone Servicing** during the academic year 2019-2020, ODD/EVEN semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**


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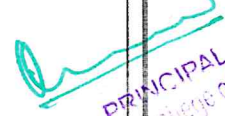
Certificate

This is to certify that **SATHISH KUMAR T, (18UPH063)** of **II B.Sc., PHY** has completed a Certificate Course in ***Cell Phone Servicing*** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**


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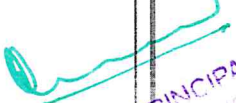
Certificate

This is to certify that **SELVAM S, (18UPH064)** of **II B.Sc., PHY** has completed a Certificate Course in ***Cell Phone Servicing*** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**


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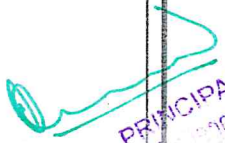
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This is to certify that **SUNDAR T, (18UPH069)** of **II B.Sc., PHY** has completed a Certificate Course in **Cell Phone Servicing** during the academic year **2019-2020, ODD/EVEN** semester conducted by the Department of Electronics and Communication, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15**


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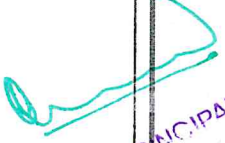
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This is to certify that VASU S, (18UPH072) of II B.Sc., PHY has completed a Certificate Course in Cell Phone Servicing during the academic year 2019-2020, ODD/EVEN semester conducted by the Department of Electronics and Communication, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-15


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