



**COMPUTER  
SCIENCE AND  
ENGINEERING**

# SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

(AFFILIATED TO JNTUK, KAKINADA) (RECOGNISED BY ALL INDIA COUNCIL FOR TECH. EDN., NEW DELHI)

Accredited by NAAC with 'A' Grade Recognised as Scientific and Industrial Research Organisation

CHINNA AMIRAM (P.O.): BHIMAVARAM :: W.G.DL., A.P., INDIA :: PIN: 534 204

**Dr. M. Jagapathi Raju**

M.Tech. (IIT,KGP), Ph.D.(A.U.), FIE,MINTE,  
PRINCIPAL (I/c.)



Phones: Off : EPADX :08816-223332 Ext.201

College :08816-222748

Fax:08816-224516

Mobile No.9848773515

Emails: profmjraju999@gmail.com

principal@srkrec.ac.in

Web Site : www.srkrec.ac.in

## PROCEEDINGS OF THE PRINCIPAL

Ref. No: SRKREC/Committee/BoS/CE/3

Date: 11-04-2019

**Sub:** Appointment of BoS members for Civil Engineering (CE) department-Reg.

The following members are nominated as Board of Studies members for the Department of Civil Engineering. This order will come into force with immediate effect until further orders.

S. No	Name	Position in the committee	Associated with
1	Dr. P.A.R.K. Raju	Chairman	Professor & HOD, Dept. of Civil Engg, SRKREC
2	Dr. M. Jagapathi Raju	Faculty of each Specialization	Vice Principal (Academics) & Principal, Dept. of Civil Engg, SRKREC
3	Dr. A. Subrahmanyam Raju		Professor Dept. of Civil Engineering, SRKREC
4	Prof. V. Siva Rama Raju		Professor, Dept. of Civil Engineering, SRKREC
5	Prof. K. Bhaskar		Professor, Dept. of Civil Engineering, SRKREC
6	Prof. V. Rama Raju		Professor, Dept. of Civil Engineering, SRKREC
7	Dr. B.R. Phani Kumar		Professor, Dept. of Civil Engineering, SRKREC
8	Sri K. Padmanabha Raju		Assoc Prof. Dept. of Civil Engineering, SRKREC
9	Sri V. Venkateswara Raju		Assoc Prof. Dept. of Civil Engineering, SRKREC
10	Dr. A.C.S.V. Prasad		Assoc Prof. Dept. of Civil Engineering, SRKREC
11	Dr. M. Viswanadham		Experts from Other Universities
12	Dr. K. Sudhakar Reddy	Professor, Dept. of Civil Engineering, IIT Kharagpur, Kharagpur-721302	
13	Dr. T.D. Gunneswara Rao	Professor, Dept. of Civil Engineering National Institute of Technology Warangal,	
14	Dr. S.R.K. Reddy	Professor & Mentor (AS&A), Dept. of Civil Engineering Gudlavalleru Engineering College, Gudlavalleru, Krishna District	
15	Dr. V. Sreenivasulu	JNTUK Nominee	Professor, Dept. of Civil Engineering, (UCEK), JNTUK, Kakinada - 533003
16	Prof. D.S.R. Murthy	AU Nominee	Professor & Chairman, BOS, Dept. of Civil Engineering, Andhra University, Vizag
17	Dr. P. Gandhi	Expert -Research Organization	Chief Scientist, CSIR-Structural Engineering Research Center, CSIR-SERC, Taramani,
18	Dr. P. Kodanda Rama Rao	Expert from Professional Body	Chairman, IE(I) AP State Centre, Dr. K.L. Rao Bhavan, Irrigation Offices Compound, Vijayawada,
19	G.Sai Krishna Ashok	Student	4/4 B.Tech Student
20	R.V. Narayana	Representatives	3/4 B.Tech Student

c.c.to:

1. Principal's table
2. HOD-Civil Engg.
3. All the above Members
4. Office file.



*S.R.K.R. Raju*  
PRINCIPAL  
S.R.K.R. Engineering College  
(Autonomous)  
Chinna Amiram, Bhimavaram-534 204.



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principal@srkrec.ac.in

Web Site : www.srkrec.ac.in

## PROCEEDINGS OF THE PRINCIPAL

Ref. No: SRKREC/Committee/BoS/CSE/3

Date: 11-04-2019

**Sub:** Appointment of BoS members for Computer Science and Engineering (CSE) department-Reg.

The following members are nominated as Board of Studies members for the Department of Computer Science and Engineering (CSE) This order will come into force with immediate effect until further orders.

S.No	Name	Position in the committee	Associated with
01	Dr. Mantena S V S B Raju	Chairman	Professor & Head, Department of CSE, SRKREC.
02	Dr. G V Padma Raju	Faculty of each Specialization	Professor, Department of CSE, SRKREC
03	Dr. K Ramprasada Raju		Professor, Department of CSE, SRKREC
04	Dr. K V Krishnam Raju		Associate Professor, Department of CSE, SRKREC
05	Dr. G Mahesh		Associate Professor, Department of CSE, SRKREC
06	Dr. V Chandra Sekhar		Associate Professor, Department of CSE, SRKREC
07	Dr. S Viswanadha Raju	Experts from Other Universities	Professor, Department of CSE, Vice-Principal JNTUH College of Engineering, Jagtial, Telangana
08	Dr. KaSelvaradjou		Professor, Department of CSE, Pondicherry Engineering College, Puducherry
09	Dr. O Srinivasa Rao	JNTUK Nominee	Professor, Department of CSE, University College of Engineering Kakinada(UCEK), JNTUK, Kakinada
10	Ramesh Paturi	Expert from Professional Body	Director, Business Acceleration Service, Microsoft Services

c.c.to:

1. Principal's table
2. HOD-CSE
3. All the above Members 4 Office file.



*H. Jagapathi Raju*  
PRINCIPAL  
PRINCIPAL

**S.R.K.R. Engineering College  
(Autonomous)**

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**Dr. M. Jagapathi Raju**

M.Tech (IIT, KGP), Ph.D (A.U.), FIE, MISTE

Vice-Principal (Academics)

and

In-charge PRINCIPAL



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Email: profinjraju999@gmail.com

principal@srkrec.ac.in

Website: www.srkrec.ac.in

SRKREC/BOS-1/CSE/2018-19

Date: 15.04.2019

To  
Dr. K.V. Ramana  
Professor, Dept. of CSE  
University College of Engineering Kakinada  
JNTUK, Kakinada - 533003.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

\*\*\*

We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

We request you to kindly attend the meeting and give your expert advice in designing the curriculum to maintain quality in academics.

The Board of Studies meetings will be conducted in respective departments as per the schedule mentioned below:

S.No.	BOARD	DATE	TIME
1	Civil Engineering	22.04.2019	2.00 P.M
2	Computer Science & Engineering	22.04.2019	2.00 P.M
3	Electronics & Communication Engineering	22.04.2019	2.00 P.M
4	Electrical & Electronics Engineering	22.04.2019	2.00 P.M
5	Information Technology	22.04.2019	2.00 P.M
6	Mechanical Engineering	22.04.2019	2.00 P.M
7	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	22.04.2019	2.00 P.M

The T.A / D.A. will be paid to all the external members as per the university guidelines. We request you to make it convenient to attend the meetings.

Yours faithfully,

*M. Jagapathi Raju*  
In-charge Principal

PRINCIPAL  
S.R.K.R. Engg. College  
BHIMAVARAM-534 204

*M. Jagapathi Raju*  
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Vice-Principal (Academics)

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Website: www.srkrec.ac.in

SRKREC/BOS-1/CSE/2018-19

Date: 15.04.2019

To

Prof. P.S. Avadhani

Professor, Dept. of CS & SE

AU College of Engineering (A)

Andhra University

Visakhapatnam-530003.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

\*\*\*

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Yours faithfully,

*M. Jagapathi Raju*  
In-charge Principal

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SRKREC/BOS-1/CSE/2018-19

Date: 15.04.2019

To

Prof. M. Shashi

Professor, Dept. of CS&SE

AU College of Engineering (A)

Andhra University

Visakhapatnam - 530 003.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

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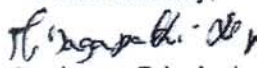
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S.R.K.R. Engineering College  
(Autonomous)  
China Amiram, Bhimavaram-534 204.



Yours faithfully,  
  
In-charge Principal

PRINCIPAL  
S.R.K.R. Engg. College  
BHIMAVARAM-534 204



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Website: www.srkrec.ac.in

SRKREC/BOS-1/CSE/2018-19

Date: 15.04.2019

To

Prof P. Suresh Varma

Rector & Professor in Dept. of Computer Science

Adikavi Nannayya University

Rajahmundry-533296.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

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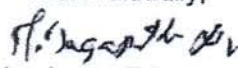
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(Autonomous)  
China Amiram, Bhimavaram-534 204.

Yours faithfully,  
  
In-charge Principal

PRINCIPAL  
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principal@srkrec.ac.in

Website: www.srkrec.ac.in

SRKREC/BOS-1/CSE/2018-19

Date: 15.04.2019

To  
Sri Raju Alluri  
Principal Member of Technical Staff,  
Salesforce.com India Private Limited,  
Hyderabad.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

\*\*\*


We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

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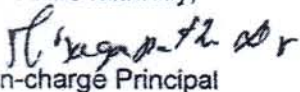
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Yours faithfully,  
  
In-charge Principal

PRINCIPAL  
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SRKREC/BOS-1/CSE/2018-19

Date: 15.04.2019

To  
Sri Ponnamanda .C. Varma  
Senior Manager  
OpsRamp  
Hyderabad.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

\*\*\*

We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

We request you to kindly attend the meeting and give your expert advice in designing the curriculum to maintain quality in academics.

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Yours faithfully,

*M. Jagapathi Raju*  
In-charge Principal

PRINCIPAL  
S.R.K.R. Engg. College  
BHIMAVARAM-534 204



**SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)**  
**CHINNA AMIRAM:: BHIMAVARAM-534204**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

Dt: 11-04-2019

**CIRCULAR**

This is to inform you that the Board of Studies meeting of department of Computer Science & Engineering will be held on 22-4-2019 at 2.00 P.M. in software lab -III. In this connection, all the Board of Studies members are requested to attend the same.

**Agenda:**

1. To discuss and approve R-16 4/4 B.Tech. (CSE) syllabus & scheme for 1<sup>st</sup> and 2<sup>nd</sup> semester during 2019-2020.
2. To discuss and approve ¾ B.Tech. (CSE) scheme and syllabus for 1<sup>st</sup> and 2<sup>nd</sup> semester R17 regulation for 2019-2020.
3. Any other issues related to the syllabus

C.C to:

1. The Members of the Board of Studies
2. Office file

*N. Padma L*  
Head of the Department

Head of the Department of  
Computer Science & Engineering  
S.R.K.R. Engineering College  
BHIMAVARAM-534 204, A.P, INDIA

*H. Nagapathi Reddy*  
PRINCIPAL  
S.R.K.R. ENGG. COLLEGE  
BHIMAVARAM-534 204



23

AUTONOMOUS (AU) SYLLABUS

DATE: 22-04-2019

A meeting of Board of Studies of the department of CSE under Autonomous Scheme (AU) is held today in SWLAB-III of CSE department.

Agenda: 1. To discuss and approve 4/4 B.Tech (CSE) syllabus & Scheme for 1st and 2nd sems during 2019-20 R-16.

2. Any other issues related to the syllabus.

The following members of the Board of Studies of CSE dept are present.

<u>S.No</u>	<u>Name of the member</u>	<u>Signature</u>
1	Prof. P. Suresh Varma	[Signature]
2	G. V. Padma Raju	[Signature]
3		
4		
5	G. MAHESH	[Signature]
6	K V KRISHWAN RAN	[Signature]
7	K.Y.S.S. Manjusha (1/2 M.Tech CST)	[Signature]
8		
9		
10		

Other Invited Members present

1	Dr. Ch. Someswara Rao	[Signature]
2	J. Rajanikanth	[Signature]
3	V.V. Sivakumara Raju	[Signature]
4	V. MURSVIKR GUPTA	[Signature]
5	V. Dilip Kumar	[Signature]
6	M. Janakidevi	[Signature]
7	P. Bhavati Siva Varma	[Signature]

[Signature]

Head of the Department  
Computer Science & Engineering  
S.R.K.R. Engineering College  
TUMAVARAM-534 204, A.P., INDIA

PRINCIPAL  
S.R.K.R. Engg. College  
TUMAVARAM-534 204.



DATE: 22.01.19

- 8. K. Raghav Sibi Rama Raju
- 9. B.N.V. Narasimha Raju
- 10. Ajay Dilip Kumar.
- 11. CH. Vinod Kumar
- 12. G.N.V.G. SIRISHA
- 13. K. Aruna Kumari
- 14. LV. SRINIVAS
- 15. M. Srihari Kumar

*[Handwritten signatures and initials]*  
 22/01/19  
 L.V. Srinivasa  
 L.V. Srinivasa

Resolutions: All the members are discussed and approved the scheme for Ufy 1st sem and 2nd Sem and syllabus will be discussed in the subsequent meeting.

- 1. K. Rama prasada Raju
- 2. Dr. M.S.V.S. Bhadrani Raju
- 3. Dr. V. Chandu Sekhar
- 4. Dr. G. Mahesh

*[Handwritten signatures and dates]*  
 22/01/19 3:15 PM  
 22/01/19  
 22/01/19

*[Handwritten signature]*  
 Head of the Department  
 Computer Science & Engineering  
 S.R.K.R. Engineering College  
 BHIMAVARAM-534 204, A.P., INDIA

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**PRINCIPAL**  
**S.R.K.R. Engg. College**  
**BHIMAVARAM-534 204.**



DATE 22-04-2019

A meeting of Board of Studies of the department of CSE under Autonomous scheme (JNTUK) is held today in SW lab - III of CSE department.

- Agenda:
1. To discuss and approve 3/4 B.Tech (CSE) syllabus & scheme for 1st and 2nd semester of R-17 regulations for 2019-20.
  2. Any other issue related to the syllabus.

The following members of Board of Studies of CSE department are present.

<u>S.No</u>	<u>Name of the Faculty</u>	<u>Signature</u>
1.	Prof. P. Suresh Varma	
2)	Dr. V. Padma Ravi	
3)	Dr. K. V. Krishna Rao	
4)	K.Y.S.S. Manjusha (Ex M.Tech CST)	Manju

Other invited members present:

<u>S.No.</u>	<u>Name of the Faculty</u>	<u>Signature</u>
1	Dr. Ch. Someswar Rao	
2	T. Rajanikanth	
3	V.V. Srinimalaju	
4.	V. M. SSVIKR GUPTA	V.K.R. Gupta
5.	V. Dilip Kumar	

Head of the Department  
Computer Science & Engineering  
S.R.K.R. Engineering College  
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S.No

- 6. M. Janakidevi
- 7. P. Bharat siva Varma
- 8. K. Raghu Sita Rama Raju
- 9. B.N.V. Narasimha Raju
- 10. S. S. N. Raju
- 11. K. ARUNA KUMARI
- 12. L.V. SRINIVAS
- 13. M. Sibi Varma

*(Handwritten signatures and dates)*  
 22/4/19  
 22/4/19  
 L.V. Srinivasa

Resolution: All the members are unanimously approved the schemes of 3/4<sup>th</sup> Sem and 3/4<sup>th</sup> 2<sup>nd</sup> Sem and Syllabus discussion will be taken place in the subsequent meeting.

- 1. K Ramaprasada Raju
- 2. Dr MSVS Bhedri Raji
- 3. Dr. V. Chaita Seetha
- 4. Dr G. Mahesh

*(Handwritten signatures and dates)*  
 22/4/19. 3.15 PM  
 22/4/19  
 22/4/19

*(Handwritten signature)*  
 Head of the Department  
 Computer Science & Engineering  
 S.R.K.R. Engineering College  
 BHIMAVARAM-534 204, A.P., INDIA

*(Handwritten signature)*  
 PRINCIPAL  
 S.R.K.R. Engg. College  
 BHIMAVARAM-534 204.



## ANNEXURE-1

With reference of Board of Studies meeting dated 22-4-2019,

**Resolution 1:** All the members have discussed and approved the scheme of 4/4 1<sup>st</sup> semester and 2<sup>nd</sup> semester. Syllabus will be discussed in the subsequent meeting.



**SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)**  
(Affiliated to Andhra University, Visakhapatnam), (Recognised by AICTE, New Delhi)  
Accredited by NAAC with 'A' Grade  
Recognised as Scientific and Industrial Research Organisation  
CHINNA AMIRAM (P.O.): BHIMAVARAM :: W.G.DL., A.P., INDIA :: PIN: 534 204

**SCHEME OF INSTRUCTION & EXAMINATION**  
(Regulation R16)  
**IV/IV B.TECH**  
(With effect from 2016-2017 Admitted Batch onwards)  
Under Choice Based Credit System

**COMPUTER SCIENCE AND ENGINEERING**  
**1-SEMESTER**

Code No.	Name of the Subject	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Contact Hrs/Week	Sessional Marks	External Marks	Total Marks
B16CS 4101	Machine Learning	4	3	1	--	4	30	70	100
B16CS 4102	Big Data Analytics	4	3	1	--	4	30	70	100
B16ENG 4101	Principles of Economics and Management	4	3	1	--	4	30	70	100
B16CS 4104	Knowledge Engineering Lab	2	--	--	3	3	50	50	100
B16CS 4105	Big Data Analytics Lab	2	--	--	3	3	50	50	100
B16 CS 4106	Project Phase-I	2			3	3	50	--	50
Total		18	9	3	9	21	240	310	550

*[Signature]*  
Head of the Department of  
Computer Science & Engineering  
S.R.K.R. Engineering College  
CHINNA AMIRAM, W.G.DL., A.P., INDIA

*[Signature]*

**PRINCIPAL**  
**S.R.K.R. Engg. College**  
**BHIMAVARAM-534 204.**



**SCHEME OF INSTRUCTION & EXAMINATION**  
(Regulation R16)  
**IV/IV B.TECH**  
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Under Choice Based Credit System

**COMPUTER SCIENCE AND ENGINEERING**  
**II-SEMESTER**

Code No.	Name of the Subject	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Contact Hrs/Week	Sessional Marks	External Marks	Total Marks
B16CS 4201	Internet of Things	4	3	1	--	4	30	70	100
B16CS 4202	Cryptography and Network Security	4	3	1	--	4	30	70	100
B16CS 4203	Operations Research	4	3	1	--	4	30	70	100
<del>B16CS 4204</del>	<del>Internet of Things Lab</del>	2	--	--	3	3	50	50	100
B16CS 4205	Project Phase-II	12	--	--	9	9	50	100	150
Total		<b>26</b>	<b>9</b>	<b>3</b>	<b>12</b>	<b>24</b>	<b>190</b>	<b>360</b>	<b>550</b>

*[Signature]*  
Head of the Department of  
Computer Science & Engineering  
S.R.K.R. Engineering College  
SRIKAVYAPURAM, S.P., INDIA

**Resolution 2:** All the members have unanimously approved the schemes of ¾ 1<sup>st</sup> semester and 2<sup>nd</sup> semester. Syllabus discussion will take place in subsequent meeting

*[Signature]*

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**S.R.K.R. Engg. College**  
**SRIKAVYAPURAM-534 204.**





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**SCHEME OF INSTRUCTION & EXAMINATION**  
 (Regulation R17)  
**III/IV B.TECH**  
 (With effect from 2017-2018 Admitted Batch onwards)  
 Under Choice Based Credit System

**COMPUTER SCIENCE AND ENGINEERING**  
**I-SEMESTER**

Code No.	Course	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Total Contact Hrs/Week	Internal Marks	Exam Marks	Total Marks
B17 CS 3101	Computer Networks	3	3	1	--	4	30	70	100
B17 CS 3102	Web Technologies	3	3	1	--	4	30	70	100
B17 CS 3103	Formal Languages & Automata Theory	3	3	1	--	4	30	70	100
B17 CS 3104	Database Management Systems	3	3	1	--	4	30	70	100
B17 CS 3105	Application Development Using Java	3	3	1	--	4	30	70	100
#OE	Open Elective	3	3	1	--	4	30	70	100
B17 CS 3108	Database Management Systems Lab.	2	--	--	3	3	50	50	100
B17 CS 3109	Application Development Lab.	2	--	--	3	3	50	50	100
B17 BS 3101	Problem Solving & Linguistic Competence	1	--	3	--	3	30	70	100
B17 BS 3103	Advanced Coding	1	--	--	3	3	50	50	100
<b>Total</b>		<b>24</b>	<b>18</b>	<b>9</b>	<b>9</b>	<b>36</b>	<b>360</b>	<b>640</b>	<b>1000</b>

#OE	B17CS3106	Embedded Systems
	B17CS3107	Cyber Security
	B17EC3109	Digital Signal Processing
	B17ME3110	Industrial Robotics

*[Signature]*  
 Head of the Department of  
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 CHINNA AMIRAM-534 204 A.P., INDIA

*[Signature]*  
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**S.R.K.R. Engg. College**  
**BHIMAVARAM-534 204.**



**SCHEME OF INSTRUCTION & EXAMINATION**  
(Regulation R17)

**III/IV B.TECH**  
(With effect from 2017-2018 Admitted Batch onwards)

**COMPUTER SCIENCE AND ENGINEERING**

**II-SEMESTER**

Code No.	Name of the Subject	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Contact Hrs/Week	Internal Marks	External Marks	Total Marks
B17 CS 3201	Data Warehousing & Data Mining	3	3	1	--	4	30	70	100
B17 CS 3202	Object Oriented Software Engineering	3	3	1	--	4	30	70	100
B17 CS 3203	Design and Analysis of Algorithms	3	3	1	--	4	30	70	100
B17 CS 3204	Artificial Intelligence	3	3	1	--	4	30	70	100
B17 CS 3205	Compiler Design	3	3	1	--	4	30	70	100
ELE-I	Elective-I	3	3	1	--	4	30	70	100
B17 CS 3210	Software Engineering Mini Project Lab	2	--	--	3	3	50	50	100
B17 CS 3211	Network Programming Lab	2	--	--	3	3	50	50	100
B17 BS 3201	Employability Skills	1	--	3	--	3	30	70	100
B17 BS 3204	Competitive Coding	1	--	--	3	3	50	50	100
B17 BS 3206	IPR & PATENTS	--	--	2	--	2	--	--	--
Total		<b>24</b>	<b>18</b>	<b>11</b>	<b>9</b>	<b>38</b>	<b>360</b>	<b>640</b>	<b>1000</b>

Elective-I	B17CS3206	Cloud Computing
	B17CS3207	Mobile Computing
	B17CS3208	Distributed Systems
	B17CS3209	Information Retrieval Systems

*N. P. S. A.*  
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*H. Nagapathi Reddy*

**PRINCIPAL**  
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**BHIMAVARAM-834 204.**