



**COMPUTER
SCIENCE AND
ENGINEERING**

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

(AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM) (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.Dt., A.P., INDIA :: PIN: 534 204

Dr. G. P. Saradhi Varma

B.Tech.(CSE), M.Tech.(CSE), Ph.D.(CSE).

PRINCIPAL



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

Direct :08816-222748

Fax:08816-224516

College Fax:08816-229377

Mobile No.98483 81818

Email: principal@srkrec.ac.in

principalsrkrec@gmail.com

gpsvarma@gmail.com

Web Site : www.srkrec.ac.in

SRKREC/BOS-1/CSE/2016-17

Date: 08.07.2016

To
Prof. P.S. Avadhani
Principal
AU College of Engineering
Andhra University
Visakhapatnam - 530 003.

Dear Sir,

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

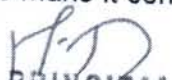
We wish to inform you that UGC has granted Autonomous Status to our college from the Academic Year 2016-17.

In this connection, the meeting of the Joint Board of Studies will be held on 17.07.2016 at 11-00 A.M in A.C. Auditorium, I-Block.

The Boards of Studies meetings will be conducted on 17.07.2016 at 2.30 P.M. in respective departments as per the schedule mentioned below:

S.I. No.	BOARD	DATE	TIME
1	Civil Engineering	17-07-2016	2.30 P.M.
2	Computer Science & Engineering	17-07-2016	2.30 P.M.
3	Electronics & Communication Engineering	17-07-2016	2.30 P.M.
4	Electrical & Electronics Engineering	17-07-2016	2.30 P.M.
5	Information Technology	17-07-2016	2.30 P.M.
6	Mechanical Engineering	17-07-2016	2.30 P.M.
7	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	17-07-2016	2.30 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.


PRINCIPAL

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



Yours faithfully,


PRINCIPAL

PRINCIPAL
S.R.K.R. Engg. Colle,
BHIMAVARAM-534 204

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SRKREC/BOS-1/CSE/2016-17

Date: 08.07.2016

To

Prof. M. Shashi

Professor, Dept. of CS&SE

AU College of Engineering

Andhra University

Visakhapatnam - 530 003.

Dear Madam,

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

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SRKREC/BOS-1/CSE/2016-17

Date: 08.07.2016

To
Prof P. Suresh Varma
Professor
Department of CSE
Adikavi Nannayya University
Rajahmundry-533296

Dear Sir,

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

We wish to inform you that UGC has granted Autonomous Status to our college from the Academic Year 2016-17.

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SRKREC/BOS-1/CSE/2016-17

Date: 08.07.2016

To
Sri Raju Alluri
Manager, Netenrich
Hyderabad.

Dear Sir,

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


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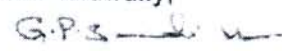
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SRKREC/BOS-1/CSE/2016-17

Date: 08.07.2016

To
Ms. Vani Vegesna
Scientist 'G'
ADA-Aeronautical Development Agency
Bangalore

Dear Madam,

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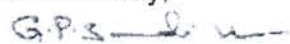
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SRKREC/BOS-1/CSE/2016-17

Date: 08.07.2016

To
Sri Ponnamanda .C. Varma
Senior Manager
VistaralT
Hyderabad

Dear Sir,

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

Dt: 08-07-2016

CIRCULAR

This is to inform you that the department of Computer Science & Engineering will convene a meeting on 17-07-2016 at 2.30 PM in CSE/Software Lab-1. In this connection, all the Board of Studies members are requested to attend the same.

Agenda:

1. Discussion and finalization of scheme of instruction for B.Tech. (CSE) under the autonomous scheme.
2. Any other related issues.

C.C to:

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

N. Padma
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.

Date: 17-07-2016

Place: CSE/LAB1/SRKR

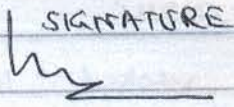
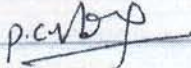
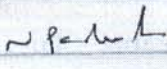

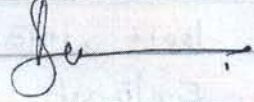

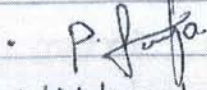
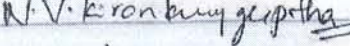
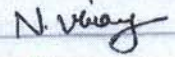
DEPARTMENT OF CSE - BOS MEETING

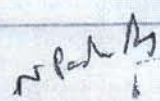
A meeting of Board of Studies of Department of CSE, SRKR Engineering College under Autonomous Scheme is held today at 2:30 PM in CSE/SOFTWARE LAB-1.

AGENDA:

1. Discussion and finalisation of scheme of Instruction for B.Tech (CSE) under Autonomous Scheme.
2. Any Other related issues

MEMBERS PRESENT:

S.NO.	NAME OF THE MEMBER	SIGNATURE
1.	Prof. P. Suresh Varma	
2.	P. C. Varma Sr. Mgr. VITARA IIT, HYB	
3)	Dr. G. V. Padma Raju HOD, CSE	
4)	Dr. K. V. KRISHNAM RAO ASSOCIATE PROFESSOR	
5)	Dr. V. Chandu Sekh Associate Prof in CSE	
6)	Dr. G. MAHESH ASSOCIATE PROF.	
7)	Smt. P. SAROJA, 2/2 M.TECH (C&T)	
8)	Mr. N. V. KIRAN KUMAR GUPTHA 4/4 CSE	
9)	Mr. Narayana Vinay 4/4 B.TECH (CSE)	



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


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

INVITED MEMBERS

S.NO.	NAME OF THE MEMBER	SIGNATURE
1	K. Raghav Siva Kumaraji Assistant Professor in C.S.E	<i>[Signature]</i>
2.	V.V. SIVA RAMA RAJU Assistant Professor in C.S.E	<i>[Signature]</i>
3.	Ch. Someswar Rao Assistant Professor in CSE	<i>[Signature]</i>
4.	Dr. Ravi Babu Asst Prof in CSE	<i>[Signature]</i>
5.	R. Shiva Shankar Asst Professor in CSE	<i>[Signature]</i>
6.	K.V.S.S. MURTHY ASST. Prof in C.S.E.	<i>[Signature]</i>

RESOLUTIONS

1. It is resolved to approve tentative scheme of instructions of 1st, 2nd, 3rd and final year B.Tech Programme subjected to a few changes in due course of time.
2. It is resolved to divide electives into streams so that student can follow one of the streams and gain expertise knowledge in that stream in three Semesters (3-1, 3-2, 4-1)
3. It is resolved to establish incubation LABS for all elective streams with 10 Systems in each incubation lab with necessary tools, internet and required resources on recommendations of External experts of BOS.
4. It is resolved to identify 4 faculty members to get expertise in each stream and to provide necessary training to the faculty members.

[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.

5. It is unanimously resolved to continue current Andhra University Syllabus for 1/2 M.Tech (CST) 1st Semester & 2nd Semester of R-16 Regulation.

N. Palu A.

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

H. Jagapathi Reddy

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

ANNEXURE-1

With reference of Board of Studies meeting dated 17-7-2016,

Resolution 1: It is resolved to approve the tentative scheme of instructions for the 2nd, 3rd, and final year B.Tech. programmes subjected to a few changes in due course of time.



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SCHEME OF INSTRUCTION & EXAMINATION (Regulation R16)

II/IV B.TECH
 (With effect from 2016-2017 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	Sessional Marks	Exam Marks	Total Marks
B16-CS-2101	Data Structures	4	3	1	--	4	30	70	100
B16-EC-2103	Elements of Electronics Engineering	4	3	1	--	4	30	70	100
B16-ENG-2102	Discrete Mathematical Structures	4	3	1	--	4	30	70	100
B16-CS-2102	Object-Oriented Programming	4	3	1	--	4	30	70	100
B16-CS-2103	Digital Logic Design	4	3	1	--	4	30	70	100
B16-ENG-2103	Environmental Studies	2	3	1	--	4	30	70	100
B16-CS-2105	Data Structures Lab.	2	--	--	3	3	50	50	100
B16-CS-2106	Object Oriented Programming Lab.	2	--	--	3	3	50	50	100
B16-ENG-2104	English Proficiency	2	1	1	--	2	50	50	100
B16-ENG-2105	Industry Oriented Training	1	--	--	2	2	50	--	50
Total		29	19	7	8	34	380	570	950

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

*Subjects highlighted in green colour are newly added subjects and subjects highlighted in yellow colour are revised subjects

(Signature)

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

SCHEME OF INSTRUCTION & EXAMINATION
(Regulation R16)

II/IV B.TECH
(With effect from 2016-2017 Admitted Batch onwards)
Under Choice Based Credit System

COMPUTER SCIENCE AND ENGINEERING

II-SEMESTER

Code No.	Course	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Total Contact Hrs/Week	Sessional Marks	Exam Marks	Total Marks
B16 CS 2201	Operating Systems	4	3	1	--	4	30	70	100
B16 CS 2202	Computer Organization	4	3	1	--	4	30	70	100
B16 CS 2203	Microprocessors	4	3	1	--	4	30	70	100
B16 CS 2204	Data Communications	4	3	1	--	4	30	70	100
B16 CS 2205	Advanced Data Structures	4	3	1	--	4	30	70	100
B16 CS 2206	Computer Graphics	4	3	1	--	4	30	70	100
B16 CS 2207	Operating Systems & Unix programming Lab	2	--	--	3	3	50	50	100
B16 CS 2208	Digital Electronics & Microprocessors Lab	2	--	--	3	3	50	50	100
B16 CS 2209	Competitive Programming	1	1	--	1	2	50	--	50
B16 ENG 2203	Industry Oriented Training	1	--	--	2	2	50	--	50
Total		30	19	6	9	34	380	520	900

N. Srinivas
Head of the Department of
Computer Science & Engineering
S.R.K.R. Engineering College
227/ARJAM-534 204, A.P., INDIA

H. Nagapathi Reddy

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



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.D.L. A.P., INDIA :: PIN: 534 204

SCHEME OF INSTRUCTION & EXAMINATION
 (Regulation R16)
III/IV B.TECH
 (With effect from 2016-2017 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	Sessional Marks	Exam Marks	Total Marks
B16 CS 3101	Computer Networks	4	3	1	--	4	30	70	100
B16 CS 3102	Web Technologies	4	3	1	--	4	30	70	100
B16 CS 3103	Formal Languages & Automata Theory	4	3	1	--	4	30	70	100
B16 CS 3104	Database Management Systems	4	3	1	--	4	30	70	100
#ELE-I	Elective-I	4	3	1	--	4	30	70	100
B16 CS 3110	Database Management Systems Lab.	2	--	--	3	3	50	50	100
B16 CS 3111	Application Development Lab.	2	--	--	3	3	50	50	100
B16 ENG 3102	Verbal & Quantitative Aptitude-I	2	5	--	--	5	100	--	100
#M-I	MOOCS-I	2	4	--	--	4	100	--	100
#M-II	MOOCS-II	2	4	--	--	4	100	--	100
Total		30	28	5	6	39	550	450	1000

#ELE-I	B16 CS 3105	Embedded Systems
	B16 CS 3106	Bio-Informatics
	B16 CS 3107	Image Processing
	B16 CS 3108	Application Development Using Java
#M-I	B16 ENG 3104	Advanced Coding
	B16 CS 3112A	Digital Image Processing
	B16 CS 3112B	E-Business
	B16 CS 3112C	Introduction to parallel Programming in Open MP
#M-II	B16 CS 3113A	Social Networks
	B16 CS 3113B	Introduction to Internet of Things
	B16 CS 3113C	Block chain Architecture Design and Use Cases
	B16 CS 3113D	Introduction to R-Software

[Signature]
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II-SEMESTER

Code No.	Course	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Total Contact Hrs/Week	Sessional Marks	Exam Marks	Total Marks
B16 CS 3201	Data Warehousing & Data Mining	4	3	1	--	4	30	70	100
B16 CS 3202	Object Oriented Software Engineering	4	3	1	--	4	30	70	100
B16 CS 3203	Design and Analysis of Algorithms	4	3	1	--	4	30	70	100
B16 CS 3204	Compiler Design	4	3	1	--	4	30	70	100
B16 CS 3205	Artificial Intelligence	4	3	1	--	4	30	70	100
#ELE-II	Elective-II	4	3	1	--	4	30	70	100
B16 CS 3213	Software Engineering Mini Project Lab	2	--	--	3	3	50	50	100
B16 CS 3214	Network Programming Lab	2	--	--	3	3	50	50	100
B16 ENG 3202	Verbal & Quantitative Aptitudes-I	2	5	--	--	5	100	--	100
#M-III	MOOCS-III	2	4	--	--	4	100	--	100
Total		32	27	6	6	39	480	520	1000

#ELE-II	B16CS3206	Cloud Computing
	B16CS3207	Mobile Computing
	B16CS3208	Distributed Systems
	B16CS3209	Advanced Computer Architecture
	B16 ENG 3205	Competitive Coding
#M-III	B16CS3215A	AngularJS
	B16CS3215B	ASP.NET
	B16CS3215C	C#.NET & VB.NET

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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

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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
B16CS 4204	Internet of Things Lab	2	--	--	3	3	50	50	100
B16CS 4205	Project Phase-II	12	--	--	9	9	50	100	150
Total		26	9	3	12	24	190	360	550

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2. It is resolved to divide electives into streams so that student can follow one of the streams and gain expert knowledge in that stream in three streams (3-1, 3-2, 4-1)

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B16 CS 3103	Formal Languages & Automata Theory	4	3	1	--	4	30	70	100
B16 CS 3104	Database Management Systems	4	3	1	--	4	30	70	100
#ELE-I	Elective-I	4	3	1	--	4	30	70	100
B16 CS 3110	Database Management Systems Lab.	2	--	--	3	3	50	50	100
B16 CS 3111	Application Development Lab.	2	--	--	3	3	50	50	100
B16 ENG 3102	Verbal & Quantitative Aptitude-I	2	5	--	--	5	100	--	100
#M-I	MOOCS-I	2	4	--	--	4	100	--	100
#M-II	MOOCS-II	2	4	--	--	4	100	--	100
Total		30	28	5	6	39	550	450	1000

#ELE-I	B16 CS 3105	Embedded Systems
	B16 CS 3106	Bio-Informatics
	B16 CS 3107	Image Processing
	B16 CS 3108	Application Development Using Java
#M-I	B16 ENG 3104	Advanced Coding
	B16 CS 3112A	Digital Image Processing
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	B16 CS 3112C	Introduction to parallel Programming in Open MP
#M-II	B16 CS 3113A	Social Networks
	B16 CS 3113B	Introduction to Internet of Things
	B16 CS 3113C	Block chain Architecture Design and Use Cases
	B16 CS 3113D	Introduction to R Software

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*Subjects highlighted in yellow colour are electives

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B16 CS 3205	Artificial Intelligence	4	3	1	--	4	30	70	100
#ELE-II	Elective-II	4	3	1	--	4	30	70	100
B16 CS 3213	Software Engineering Mini Project Lab	2	--	--	3	3	50	50	100
B16 CS 3214	Network Programming Lab	2	--	--	3	3	50	50	100
B16 ENG 3202	Verbal & Quantitative Aptitude-II	2	5	--	--	5	100	--	100
#M-III	MOOCS-III	2	4	--	--	4	100	--	100
Total		32	27	6	6	39	480	520	1000

#ELE-II	B16CS3206	Cloud Computing
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	B16CS3208	Distributed Systems
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#M-III	B16 ENG 3205	Competitive Coding
	B16CS3215A	AngularJS
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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

3. It is unanimously resolved to continue current Andhra University syllabus for ½ M.Tech. (CST) 1st semester and 2nd semester of R-16 Regulation

M.Tech. R16 Regulation

Item Name	R16	
Newly added courses	Course Code	Course Name
	M16 CST 1212	Pervasive Computing #4-Elective-IV
Courses in which syllabus is revised	Course Code	Course Name
	No Change	No Change
Removed courses	Course Code	Course Name
	NIL	NIL

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