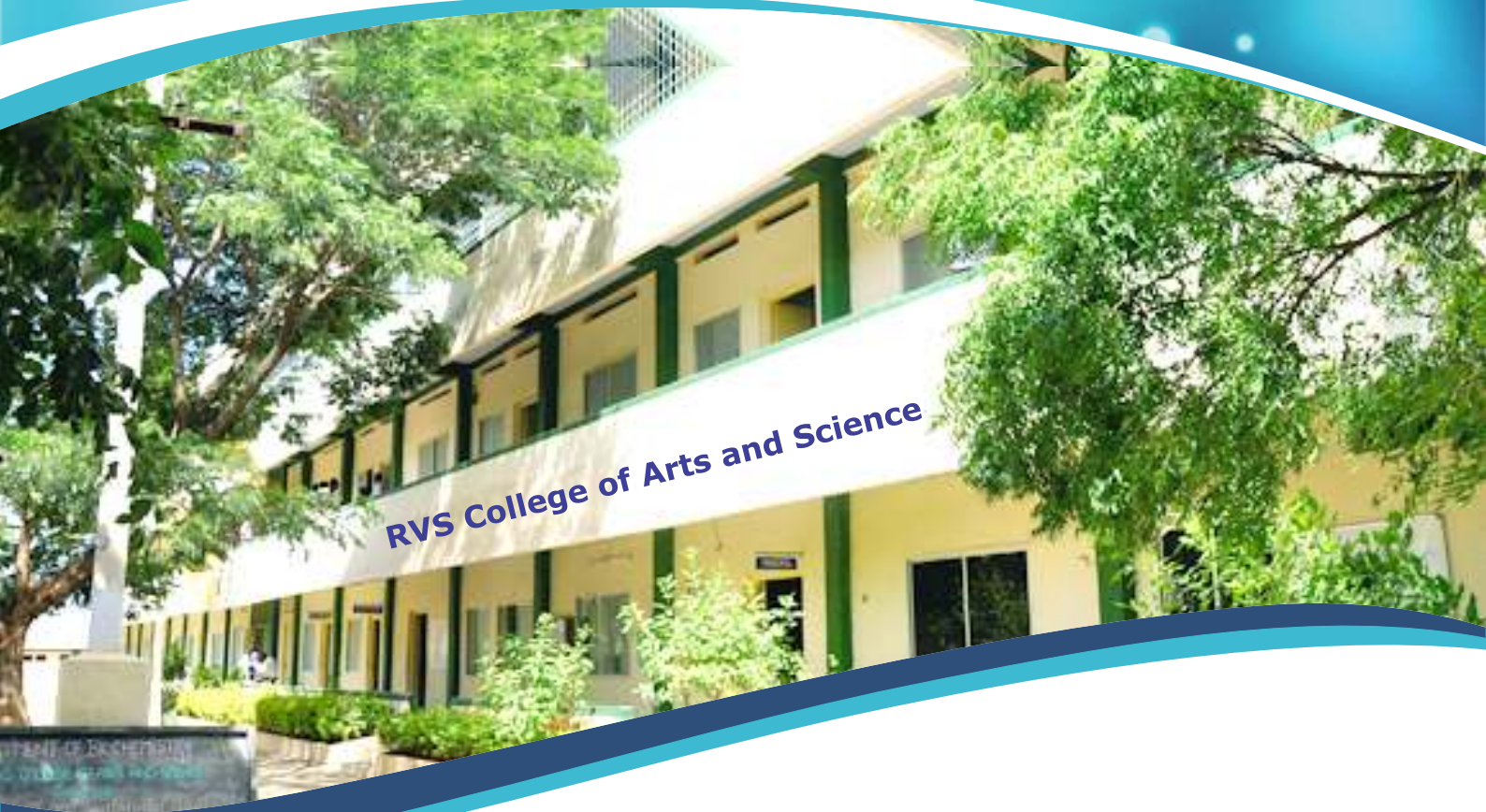


RVS College of Arts and Science

Autonomous and Affiliated to **Bharathiar University**, Approved by AICTE
Re Accredited with 'A' Grade by NAAC, Coimbatore



RVS College of Arts and Science



Estd 1983
RVS GROUP
Building Intellectual Capital





ABOUT THE COLLEGE

RVS College of Arts and Science, affiliated to **Bharathiar University**, Coimbatore offers career-oriented educational service leading to graduation, post-graduation and research degrees in Arts and Science disciplines. Founded on **31st OCT, 1986**, it has grown exuberantly to become one of the biggest self-financing colleges. The college was accorded autonomous status in **2004 by UGC** and **re-accredited in 2014 with 'A' Grade**. Besides, the institution is credited with **ISO 9001-2008 certification**.

Our Vision

To attain wisdom through holistic education.

Our Mission

To impart a need-based quality education through comprehensive curriculum by adopting apt technologies and progressive teaching, learning and research processes.

Awards & Achievements

RVSCAS is the **fourth best college** in Coimbatore.
-The Times of India - 26.06.2008

RVSCAS is the **first college with maximum strength of foreign students** among the colleges under the domain of Bharathiar University.
- Rated By Bharathiar University – 2009

OVERVIEW OF ACADEMIC PROGRAM

We are the only college to come out with a new course “B.Sc Computer Science (One Year) for Chinese”, with the intake strength of 50, subject to ratification by the Syndicate and subject to the rules and regulations of Bharathiar University in the Academic year 2014-15. We are very proud that we are the one and only college offering such a new course exclusively for Chinese to teach latest technologies like Android, JQuery, JQuery Mobile in creating responsive webpages and



mobile applications. Our College is highly equipped with wonderful lab facility and the classrooms are equipped with the necessary intellectual tools/technology such as computers and projectors for more interactive teaching and learning process. Nowadays, people are highly using variety of mobile devices having different OS like Android, Blackberry, iOS, Windows Phone, Nokia Symbian etc. These devices have own apps and different browsers which present challenges for us in web or apps development. Instead of developing an app for each mobile device, jQuery mobile allows you to create cross platform website or apps which are easy to develop and maintain, since it only uses HTML, CSS and JavaScript, which is standard for all mobile devices and mobile web browsers. To the contrast, if they want to develop their own application instead of one which they download from Playstore, they can learn Android Programming.

Candidate for admission to the B.Sc Computer Science UG degree course is required to have passed the two or three year diploma in computer science and other related discipline conducted by the Government of China or other examinations accepted as equivalent there to by the Syndicate, subject to such other conditions as may be prescribed therefore.

Core Values

The core values that will guide the institution have been explicitly stated and it is our intention that these values will infuse everything we do.

PROGRAM DESIGN

The two-semester intensive Computer Science course focuses both on conceptual and technical ends, delivered using a system of modules and is attributed with seventy five credits in this autonomous college. The basic requirement to join in this course is that a student should have completed two or three years Diploma in School of Software or Computer Science and Technology or Information Management and Engineering with Computer Science as Major.



This programme aims to give a well integrated balance of theoretical underpinnings and practical experience with demonstrable ethical and professional behavior, and possess effective communication, management, entrepreneurial and interpersonal skills. This program is characterized by purely a learner-centered, participating methodology. The examination pattern is designed not to test the learner's memory of the reproducible content but his/her understanding and acquirement of the skills in the various units, which constitute the program/course.

COURSE BREAKUP

I Year

The major subjects that we focus in our odd semester are:-

- ✈ PHP & MySQL
- ✈ Network Security & Cryptography
- ✈ Software Project Management
- ✈ Programming lab I (PHP &MySQL)
- ✈ Programming lab II(NSC)
- ✈ Minor project



Students engage in designing web pages using server-side scripting language, and also acquire in-depth knowledge on cryptographic techniques and standards. Our motive is before looking at when and what to encrypt in an organization, it is important to understand where encryption fits in overall security controls architecture. The Software Project management is another interesting domain that takes two major phases of a project, planning and execution; and all the sub-phases includes defining the project organization, scheduling, defining the project in a manner that facilitates management and execution, estimating, leading, controlling and implementing.



II Year

The major subjects that we focus in even semester are:-

- ✈ HTML 5 & jquery Mobile
- ✈ Android programming
- ✈ Programming lab III (HTML 5 & jQuery Mobile)
- ✈ Programming lab IV(ANDROID)
- ✈ Major project .



Students engage in designing responsive webpages using client-side scripting language like Javascript, add relevant styles using CSS, create a semantic layout using HTML5, make attractive animation and effects using jQuery and finally in building tremendous mobile websites using jQuery Mobile. To sum it up, we believe that jQuery Mobile and HTML5 is a viable platform for mobile application development. On the other end now-a-days **Android application development** becomes the most popular and useful one to develop mobile applications that benefits the application developers. Android is free to develop on, prototype and deploy without paying a single cent in license fees. The best thing about Android is that it is based on the Linux platform and provides absolutely easy environment accessibility and the core functionality for building fabulous applications for mobile phones. With tons of support from Google and other Android development communities coupled with a great deal of resources available on the web, making an Android app has become unexacting and trouble-free for many.

CORE OBJECTIVES

- To develop cross platform websites as well as applications which work across all popular smart-phones, tablets and desktops.
- To create flexibility in designing, planning and building real-world projects.
- To estimate the cost of project, schedule and track it effectively.
- To enable the students to understand different cryptographic techniques and standards.

THE STUDENT TAKEAWAY

At the end of this course,

- The learner would have acquired in-depth knowledge in designing mobile websites and cross-platform applications.
- A better knowledge of how to manage software projects.
- A sound knowledge in working with server-side and client-side scripting languages.
- The ability to apply various cryptographic techniques in maintaining network security.

THE CURRICULUM

The Bachelor of Computer Science course comprises of two semesters. In each semester the students learn two to three core subjects which focus both on conceptual and technical ends. The syllabi are framed according to the current expectations of various software industries. Their lesson plan includes five units for each core subjects. And each unit includes topic, subtopic, keypoints and the references with the limited time frame. They are also given detailed Pacing guidelines for each subject containing day-to-day lesson planning guides. This details exactly how many textbook units and topics are to be presented and practiced during a specified time frame.



Resources/Study Materials:

- Syllabus
- Lesson plan- a detailed day-to-day lesson plan
- Power point (.ppts) documents for each unit
- Question Bank for each unit
- MCQ's for each unit
- Practical programs for each concept
- Project Guidelines (Minor and Major Projects)
- Video tutorials
- Website – Reference
- Sample Project – Reference

Projects:

The students are motivated to do minor project in first semester with in-depth knowledge they acquired in theory and practical classes. Most of the students try to incorporate software managing concept in their minor projects which helps them to get real experience in building software projects. In the second semester they are trained to do major projects either with JQuery Mobile or Android in creating mobile websites and applications. So, this helps them to feel more confident to step-up to software industry.



Examination System

The examination system has 3 components.

- 1.Theory Examination.
- 2.Practical Examination.
- 3.Project Examination.

Tests are conducted regularly and in an organized manner as a part of the CIA (Continuous Internal Assessment) test of 2 hours duration and Model examinations of 3 hours duration for each semester. There will be two micro tests of 1 hour duration before CIA and models which will provide teacher and student with constant feedback on the teaching-learning process.



Theory Examination (100) (Mark Split-up Pattern)

Internals (25 Marks)

Continuous Internal Test I – 10 Marks

Assignment – 05 Marks

Model exam – 10 marks

End of semester (Eos) exam (75 Marks)

Practical Examination (100) (Mark Split-up Pattern)

Internals (40 Marks)

Observation – 10 Marks

Model examination – 30 Marks

End of semester (eos) practicals (60 Marks)

(A MINIMUM OF 24 MARKS OUT OF 60 IS MANDATORY)

Minor project (100) (Mark Split-up Pattern)

Internals (40 Marks)

- Review I – 10 Marks

- Review II – 15 Marks

- Review III – 15 Marks

Project viva-voce (60 Marks)

(A MINIMUM OF 24 MARKS OUT OF 60 IS MANDATORY)

Major project (200) (Mark Split-up Pattern)

Internals (80 Marks)

- Review I – 25 Marks
- Review II – 25 Marks
- Review III – 30 Marks

Project viva-voce (120 Marks)

(A MINIMUM OF 48 MARKS OUT OF 120 IS MANDATORY)

Continuous Internal Assessment I (CIA I):

conducted during 41st working day

Maximum marks – 50

Duration – 2 hrs.

Portions – 50 % of syllabus

Pattern – Section A (20*1=20) - MCQ's

Section B (2 * 5=10) – Short Answers

Section C (4 * 5=20) – Detail Answers

Weightage marks – 10 marks.

Assignment:

5 assignments .

ppt presentation has to be prepared.

student's presentation.

Weightage – 05 marks.

Model examination:

conducted at the end of 90th working day.

Maximum marks – 75

Duration – 3 hrs.

Portions – complete syllabus

Pattern – section A (20*1=20) - MCQ's

section B (5 * 5=25) – Short Answers

section C (3 *10=30) – Detail Answers

Weightage marks – 10 marks.



RVS GROUP OF INSTITUTIONS

(Approved & Affiliated to Bharathiar University)
NAAC RE-ACCREDITED & ISO 9000-2008 CERTIFIED INSTITUTION

Website: www.rvscas.ac.in, www.rvshs.ac.in, www.rvsgroup.com



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