

# **LOYOLA ACADEMY**

**(DEGREE & PG COLLEGE)**

**OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA**

**(Autonomous and Affiliated to Osmania University)**

**Re-accredited with 'A' Grade (III Cycle) by NAAC**

**A "College with Potential for Excellence" by UGC**

**[www.loyolaacademy.edu.in](http://www.loyolaacademy.edu.in) Ph: 040-27862363/27860077 Fax: 040-27867939**

## **SCHOOL OF INFORMATICS**

### **Department of B.Sc. Computer Science & Cyber Security**

**Year of Inception:2021**



**Minutes of 3<sup>rd</sup> meeting of the Board of Studies held on  
Thursday, 19<sup>th</sup> January 2023 at 10.30 a.m.**

**Academic Year: 2023-24 for the batch of 2021-24**

# LOYOLA ACADEMY, DEGREE & PG COLLEGE

(An autonomous institution-affiliated to Osmania University, Hyderabad)

www.loyolaacademy.edu.in

3<sup>rd</sup> Board of Studies Meeting

**Department of B.Sc. Computer Science and Cyber Security**

Venue: Xavier Hall, Admin Block,

Loyola Academy

Date & Time: 19/1/23 & 10.30 A.M.

## AGENDA

BOS/CY3.1	:	Welcome address and Opening Remarks by Mrs. P.Sushma Chairperson, Board Of Studies in the Department of B.Sc. Computer Science and Cyber Security
BOS/CY 3.2	:	Action Taken Report of 2 <sup>nd</sup> meeting of Board of Studies held on 4 <sup>th</sup> February 2022.  3.2.1 : Introduced second year tentative scheme and syllabus of III & IV Semesters of Academic year 2022-23 for the batch of 2021-2024. The scheme and second year syllabus were approved by the board.
BOS/CY3.3	:	Business brought forward by the Chairperson, Board of studies – 3.3.1: Proposal to approve the Consolidated scheme for III year for the academic year 2023-24 for the batch 2021-24.(Annexure-I) 3.3.2 : Proposal to offer the following courses in V semester(Annexure-II) <ul style="list-style-type: none"><li>➤ CSCS23501A/CSCS23501B Steganography/ Secure E-Commerce (DSE-1)</li><li>➤ CSCS23502A/CSCS23502B Internet of Things /Cloud Computing (DSE-2)</li><li>➤ CSCS23503 GoLang (Core-15)</li><li>➤ CSCS23504 Machine Language for Cyber Security (Core-16)</li><li>➤ CSCS23505 Database Technologies (Core-17)</li><li>➤ CSCS23506 Disaster Recovery and Risk Management (Core-18)</li><li>➤ CSCS23507 GoLang lab</li><li>➤ CSCS23508 Machine learning for cyber security lab</li><li>➤ CSCS23509 Database Technologies lab</li></ul> 3.3.3: Proposal to offer the following courses in VI semester(Annexure-II) <ul style="list-style-type: none"><li>➤ CSCS23601A/CSCS23601B Cyber Threat Intelligence /Blockchain and cryptocurrency (DSE-3)</li><li>➤ CSCS23602 Web Application Testing (SEC-4)</li><li>➤ CSCS23603 Database Security(Core-19)</li><li>➤ CSCS23604 Web Application Testing lab</li><li>➤ CSCS23605 Database security lab</li><li>➤ CSCS23606 Project Work(DSE-4)</li></ul> 3.3.4 : Proposal to approve list of examiners(Annexure-III) 3.3.5 : Proposal to approve list of Library books (Annexure-IV) 3.3.6 : Proposal to approve annual Budget (Annexure-V) 3.3.7 : Proposal to approve the requirement of a teaching faculty.(Annexure – VI) 3.3.8: Proposal to approve the requirement of a classroom for the AY: 2023-24. 3.3.9: proposal to approve the requirement of a laboratory for the AY:2023-24.
BOS/CY 3.4	:	Suggestions given by BOS Members
BOS/ CY 3.5	:	Concluding Remarks & Vote of Thanks

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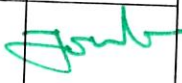

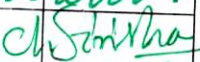
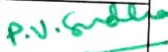
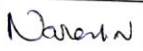
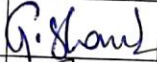


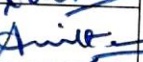

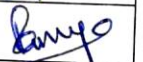

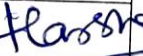
**MINUTES OF THE BOS MEETING**

**Date:** 19-01-2023

**Venue:** Xavier Hall

**Time:**

The Board Of Studies meeting of the program B.Sc. Computer Science and Cyber Security was held on 19th January 2023 at Loyola Academy in the Xavier hall. Following members attended the meeting.

SNo	Name of Attendee and Designation	Signature
1	Rev Fr Dr. L. Joji Reddy SJ, Principal, Loyola Academy, President, Xavier board of Higher Education, India	
2	Rev Fr Ch. Amara Rao SJ, Rector & Correspondent	
3	Rev Fr Arul SJ, Vice-Principal (UG)	
4	Rev Fr Dr AMJ Kumar SJ, Vice-Principal (PG)	
5	Dr. Mariadas, Lay Vice-Principal	
6	Dr. Ch. Sirisha, Lay Vice-Principal	
6	Prof. Dr. P. V. Sudha, Dean, Informatics, Osmania University	
7	Dr. Naresh Nelaturi, Data scientist, Cognitive care India Labs Pvt Ltd – Subject Expert	
8	Shankar Gandrakota, Sr. Tech Lead, Cyient, Hyderabad – Industrial Expert	
9	Dr. K. Rama, IQAC Coordinator, Asst. Prof. in Electronics	
10	Dr. Suchitra Naidu, Dean of Academics, Asst. Prof. in Biotechnology	
11	Dr. G. Anita Mary, Dean of Informatics	
12	Mrs. P.Sushma, Chairperson, BOS, Computer Science & Cyber security	
13	Mrs. Ramya, Assistant Professor.	
14	Mr. Srinivas, Assistant Professor.	
15	Dr. Harsha, Assistant Professor.	

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the Program, Computer Science and Cyber Security. **Mrs. P.Sushma** welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 2<sup>nd</sup> Board of Studies meeting held on 4<sup>th</sup> February 2022 were communicated to the members. The suggestions received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow** the Consolidated Scheme and syllabus for Third academic year 2023-2024 (5<sup>th</sup> and 6<sup>th</sup> semester) for the batch **2021-2024** (Enclosed in Annexure-I).
4. **It was resolved to introduce the following subjects in 5<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Steganography/ Secure E-Commerce
2.	Internet of Things /Cloud Computing
3.	GoLang
4.	Machine Language for Cyber Security
5.	Database Technologies
6.	Disaster Recovery and Risk Management
7.	GoLang lab
8.	Machine learning for cyber security lab
9.	Database Technologies lab

Above subjects are offered in 5<sup>th</sup> Semester from the AY: 2023-24.

**It was resolved to introduce the following subjects in 6<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Cyber Threat Intelligence /Blockchain and cryptocurrency
2.	Web Application Testing
3.	Database Security
4.	Web Application Testing lab
5.	Database security lab
6.	Project Work

Above subjects are offered in 6<sup>th</sup> semester from the AY: 2023-24

5. **It was resolved to approve the** list of examiners AY: 2023-24.(Enclosed in Annexure- II)
6. **It was resolved to purchase** library books worth **Rs. 1,91,034/-** for AY: 2023-24. (Enclosed in Annexure- III)

7. **It was resolved to introduce** self-study course on “Intrusion detection system” from the AY:2023-24.
8. **It was resolved to sanction a budget of Rs. 59,75,000/-** for AY: 2023-24.(Enclosed in Annexure- IV).
9. **It was resolved to organise an international Conference/Workshop.**
10. **It was resolved to recruit one** teaching faculty for AY: 2023-24.(Enclosed in Annexure- V)
11. **It was resolved to provide** a Laboratory for First year students for AY: 2023-24.

The above resolutions were unanimously approved in the meeting.



**BOS Chairperson**



**Dean**



**HOD**

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Hyderabad-500 007.

**B. Sc. COMPUTER SCIENCE AND CYBER SECURITY(2023-24) (CHOICE BASED CREDIT SYSTEM)**  
**PROPOSED SCHEME(NEW)**

Year	Sem	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits	
I	I	General English-I (3) (AECC-1)	Value Education & Personality Development (2) (AECC-2)	Computer Fundamentals(4+1) (SEC-1)	Mathematical Foundation for Cyber Security(4) (Core-1)	IT Hardware And Networking(4+1) (Core-2)	Problem Solving and Programming in C (4+1) (Core-3)	29	24	AECC=2 SEC=1 CORE=3
	II	General English-II (3) (AECC-3)	Indian Heritage and Culture (2) (AECC-4)	Computer Networks (4+1) (SEC-2)	Elementary Number Theory and Laplace Transforms(4)(Core-4)	Principles of Information Security(4+1) (Core-5)	C++ and Data Structures (4+1) (Core-6)	29	24	AECC=2 SEC=1 CORE=3
II	III	Environmental Studies & Gender Sensitization (3) (AECC-5)	(2+1) (GE-1)*	Ethical Hacking (4+1)(Core-7)	Cryptographic Algorithms(4)(Core-8)	Server Administration(4+1) (Core-9)	Python Programming(4+1) (SEC-3)	30	25	AECC=1 GE=1 CORE=3 SEC=1
	IV	Discrete Mathematics(4)(GE-2)	Computer Forensics (4) (Core-10)	Cyber Ethics and IPR(4) (Core-11)	Web Technologies(2+1) (Core-12)	Network Security (4+1) (Core-13)	Python Scripting (4+1) (Core-14)	29	25	GE=1 CORE=5
III	V	Steganography / Secure ECommerce(4) (DSE-1)	Internet of Things /Cloud Computing(4) (DSE-2)	GoLang (4+1) (Core-15)	Machine Learning for Cyber Security(4+1) (Core-16)	Database Technologies (4+1) (Core-17)	Disaster Recovery and Risk Management (4) (Core-18)	30	27	DSE=2 CORE=4
	VI	Cyber Threat Intelligence / Block chain and cryptocurrency (3) (DSE-3)	Web Application Testing (4+1) (SEC-4)	Database security(3+1) (Core-19)	Project Work (6) (DSE-4)			30	19	DSE=2 SEC=1 CORE=1
Legend:										
1. Ability Enhancement Compulsory Course (AECC)								: 05		
2. Generic Elective (GE)								: 02		
3. Skill Enhancement Course (SEC)								: 04		
4. Core								: 19		
5. Discipline-Specific Elective (DSE)								: 04		
*Principles of Information Security										
<b>Total</b>								<b>177</b>	<b>149</b>	

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## ANNEXURE- I

**YEAR AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY  
B.Sc. (COMPUTER SCIENCE AND CYBER SECURITY)  
FIFTH SEMESTER  
ACADEMIC YEAR 2023-24 OF 2021-24 BATCH(CBCS)**

Sl. No.	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
					Internal	External	Total	
1	CSCS23501A	<b>Electives-1(DSE-1)</b> Steganography	4	3	40	60	100	4
	CSCS23501B	Secure Ecommerce						
2	CSCS23502A	<b>Elective-2(DSE-2)</b> Internet of Things	4	3	40	60	100	4
	CSCS23502B	Cloud Computing						
3	CSCS23503	GoLang (Core-15)	4	3	40	60	100	4
4	CSCS23504	Machine Learning for Cyber Security (Core-16)	4	3	40	60	100	3
5	CSCS23505	Database Technologies (Core-17)	4	3	40	60	100	4
6	CSCS23506	Disaster Recovery and Risk Management (Core-18)	4	3	40	60	100	4
Practicals								
7	CSCS23507	GoLang lab	2	3	40	60	100	1
8	CSCS23508	Machine learning for cyber security lab	2	3	40	60	100	1
9	CSCS23509	Database Technologies lab	2	3	40	60	100	1
<b>Total</b>			<b>30</b>	<b>-</b>	<b>360</b>	<b>360</b>	<b>900</b>	<b>26</b>

\* Skill Enhancement course(SEC)

\*Discipline -Specific Elective(DSE)

\*Core

*P.V. Sudha*

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**YEAR AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS**  
**DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY**  
**B.Sc. (COMPUTER SCIENCE AND CYBER SECURITY)**  
**SIXTH SEMESTER**  
**ACADEMIC YEAR 2023-24 OF 2021-24 BATCH(CBCS)**

Sl. No.	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
					Internal	External	Total	
1	CSCS23601A	Electives-1(DSE-3) Cyber Threat Intelligence	3	3	40	60	100	3
	CSCS23601B	Blockchain and cryptocurrency						
2	CSCS23602	Web Application and Testing (SEC-4)	4	3	40	60	100	4
3	CSCS23603	Database Security (Core 19)	3	3	40	60	100	4
4	CSCS23606	Project Work(DSE-4) Project hour	15+1	3	40	60	100	6
<b>Practicals</b>								
5	CSCS23604	Web Application and testing lab	2	3	40	60	100	1
6	CSCS23605	Database security lab	2	3	40	60	100	1
Total			30	-	240	360	600	19

\* Skill Enhancement course (SEC)

\*Discipline -Specific Elective (DSE)

\*Core

*P. V. Sudha*

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## ANNEXURE-II

### APPROVAL FOR LIST OF EXAMINERS

#### DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience(yrs)	Area of Specialisation
1	Mr . Rajesh Satari	Assistant Professor	VBIT, Ghatkesar, Hyderabad	9966225467	14	Networks, security, AI, Data mining
2.	Mr. Ashok	Associate Professor	VBIT, Ghatkesar, hyderabad	8374070636, hi2kashok@gmail.com	20	Cyber Security
3	Mr.Sathish Yellanki	Industry expert	SkyEss Techno Solutions Pvt Ltd	Ph No- 8142190906 yellanki@skyess mail.com	15	Computer Science
4	Mr.Gouli Vamshi krishna	Industry &subject expert	CEO of Data Computing	628030750	05	Data science
5	Dr.S.Nag a Prasad	Asso.Prof essor	Tara Govt College,Sangareddy	7893606134 nagkanna80@gmail.com	18	Computer Science
6	Dr.G.N.R .Prasad	Assoc. Professor	CBIT,Hyderabad	9885191683 gnrp@cbit.ac.in	20	Computer Science
7	Mrs. T.Pushpa Latha	Asst. professor	St. Ann's College for Women , Mehidipatnam	8106828882 pushpareddy28 @gmail.com	16	Computer Science
8	Mrs. K. Sandhya Sree	Asst. Professor	St.Pious X Degree, and PG College for Women, Nacharam, Hyderabad	9866235230 sandhyagude69 @gmail.com	16	Computer Science
9	Mr. N.Bhaske r Rao	Asst. Professor	AV College of Arts Science & Commerce, GaganMahal, Hyd	9885639321 braon4@gmail.com	23	Computer Science
10	Mr.Premson(Alumnus)	Manager	Manager, Oracle Corps.	premson@gmail.com	12	Computer Science
11	Mr.Sreekar	Data Analyst	<u>Deloitte Consulting</u>	<u>9966424674</u>	05	Computer Science

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*P.V. Gubina*

**ANNEXURE – III**

**INDENT FOR LIBRARY BOOKS**  
**DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY**

S.No.	Author, Title of the book & Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1	Peter Wayner, Disappearing Cryptography–Information Hiding: Steganography & Watermarking,	Morgan Kaufmann Publishers, New York, 2002.	2	3098
2	Ingemar J. Cox, Matthew L. Miller, Jeffrey A. Bloom, Jessica Fridrich, TonKalker, Digital Watermarking and Steganography,	Morgan Kaufmann Publishers, New York, 2008.	2	17822
3	Neil F. Johnson, Zoran Duric, Sushil Jajodia, Information Hiding: Steganography and Watermarking- Attacks and Countermeasures,	Springer, 2012.	2	18170
4	Stefan Katzenbeisser, Fabien A. P. Petitcolas, Information Hiding Techniques for Steganography and Digital Watermarking,	Artech House Print on Demand, 1999.	2	15132
5	Teach Yourself in Hours 24 Go Next Generation Systems Programming with Golang - George Ornbo	Sams	2	10700
6	. Go Programming by Example Agus Kurniawan	Agus Kurniawan 1st Edition, 2015 Copyright © 2015	2	11026
7	Soma Halder, Sinan Ozdemir. 2018. Hands-on Machine Learning for Cyber Security	. 1st Edition. Packt Publishing House.	2	5914
8	Acharya, Seema. 2020. Demystifying NoSQL	1st Edition. Wiley Emerging	2	916

*P.V. Sridhar*

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		Technology Series. India: New Delhi.		
9	Sadalage, Pramod and Fowler, Martin. 2013. NoSQL Distilled.	Addison Wesley. Pearson Education.	2	10908
10	Rhodes-Ousley, Mark. “ Information Security: The Complete Reference, Second Edition, Information Security Management: Concepts and Practice	New York, McGraw-Hill, 2013.	2	10104
11	Whitman, Michael E. and Herbert J. Mattord, “ Roadmap to Information Security for IT and Infosec Managers”	Boston, MA: Course Technology, 2011.	2	9798
12	Sandeep Bhowmik, Cloud computing	Paperback, Cambridge University Press, 2017	2	2560
13	Jon Friedman. Mark Bouchard, CISSP. Foreword by John P. Watters, Cyber Threat Intelligence	Definitive Guide TM, 2015.	2	5702
14	Scott J. Roberts, Rebekah Brown, Intelligence- Driven Incident Response: Outwitting the Adversary	O’Reilly Media, 2017	2	5000
15	Henry Dalziel, How to Define and Build an Effective Cyber Threat Intelligence Capability	Elsevier Science & Technology, 2014.	2	7992
16	John Robertson, Ahmad Diab, Ericsson Marin, Eric Nunes, Vivin Paliath, Jana Shakarian, Paulo Shakarian, DarkWeb Cyber Threat Intelligence Mining	Cambridge University Press, 2017.	2	10856
17	Bob Gourley, The Cyber Threat	Createspace Independent Pub, 2014	2	2120

*R.V. Goda*

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18	Arvind Narayanan, Joseph Bonneau, Edward Felten, Andrew Miller and StevenGoldfeder, "Bitcoin and Cryptocurrency Technologies: A Comprehensive Introduction"	Princeton University Press, July, 2016.	2	4806
19	Antonopoulos, "Mastering Bitcoin: Unlocking Digital Cryptocurrencies.	O'Reiley, 1st Edition,2014.	2	4000
20	Hassan A. Afyouni, 2013. Database Security and Auditing: Protecting Data Integrity and Accessibility	Thomson Course Technology (c2006).	2	1758
21	Ron Ben-Natan,2009. Secure and Audit Oracle 10g and 11g; 1 edition	Auerbach Publications	2	5292
22	Implementing Database Security and Auditing 1St Edition,	Elsevier India.	2	1600
23	Dafydd Stuttard, Marcus Pinto. 2011. The Web Application Hacker's Handbook Finding and Exploiting Security Flaws. 2nd Edition.	John Wiley & Sons Inc.	5	21365
24	Gupta, Richa. 2021. Hands-on Penetration Testing for Web Applications. 1st Edition	BPB Publications. India: New Delhi	2	1438
25	Rajneesh Gupta. 2018. Hands-On Cybersecurity with Blockchain. First Edition.	Packt Publishing. New Delhi: Mumbai	1	2957
<b>TOTAL</b>				Rs.1,91,034/-

*P.V. Godhina*

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**ANNEXURE-IV**  
**BUDGET PROPOSAL AY: 2023-24**  
**DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY**

S. No	Items	Estimated Amount(Rs)
1.	Computers - 60 with following configuration 16GB RAM, 500GB HDD and i7 processor with internet connectivity :(60*Rs.90000/-)	-
2.	Seminars State/National/International)	15,000
3.	Workshop	15,000
4.	Field Visit	10,000
5.	Stationary/Infrastructure 60 computer tables and chairs 3 AC's: 3*45000:Rs.1,35,000 13 KV UPS: 3,00,000 1 Class Room  1 projector: Rs.70,000 1 Almaras: 5000	-      75,000
6.	Guest Lecture	15,000
7.	Miscellaneous(any day to be celebrated)	5,000
Total:		Rs.1,35,000

  
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DEAN SIGNATURE

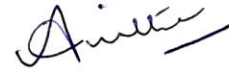
**ANNEXURE -V**

**REQUIREMENT OF TEACHING FACULTY**  
**DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY**

<b>S.No</b>	<b>Number of Faculty</b>	<b>Qualification</b>	<b>Workload</b>
1.	01	M.Sc in Cyber Security	Odd semester : 20 Hours Even semester : 20 Hours



**HOD Signature**



**Dean Signature**

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Venue: Xavier Hall, Admin Block.

Loyola Academy

Date & Time: 19/01/23 & 10:30 A.M.

**AGENDA**

BOS/CSAI3 .1	:	Welcome address and Opening Remarks by Mrs. D. Arpitha Rani, Chairman, and Board Of Studies in the Department of B.Sc. COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE.
BOS/ CSAI3 .2	:	Action Taken Report of 2 <sup>nd</sup> meeting of Board of Studies held on February 4 <sup>th</sup> 2022. 3.2.1: Introduced scheme and syllabus of 2 <sup>nd</sup> academic year 2022-23(Third and Fourth semester) for the batch 2021-2024. The scheme and syllabus for Secondyear were approved by the board.
BOS/ CSAI3.3	:	Business brought forward by the Chairman, Board of studies – 3.3.1 : Approval of the syllabus for 3 <sup>rd</sup> academic year 2023 -2024( 5 <sup>th</sup> and 6 <sup>th</sup> semester) for the batch 2021-2024. Following are the courses to be offered in semester 5 and 6 respectively as per CBCS.(Annexure –I) <b>Semester- 5</b> 1. Software Engineering/ Fuzzy Logic and Expert System (DSE1) 2. Data Visualization tools with practical(SEC-3) 3. Data Engineering and Distributed Databases(Core-15) 4. Big Data Analytics with practical(Core-16) 5. Natural Language Processing with practical(Core-17) 6. Robotic Process Automation with practical (Core-18) <b>Semester -6</b> 1. Software Testing/ Computer Vision (DSE-2) 2. Human Computer Interaction / Data Security(DSE-3) 3. Deep Learning with practical(Core-19) 4. Major project(DSE-4) 3.3.2 : Proposal for the approval for list of examiners(Annexure –II) 3.3.3 : Proposal to approve list of Library books(Annexure –III) 3.3.4 : Proposal to approve the annual budget for AY: 2023-24(Annexure – IV) 3.3.5 : proposal to approve IT ACT as self study course.(Annexure – V) 3.3.6: Proposal to approve the requirement of a teaching faculty for AY:2023-24(Annexure-VI) 3.3.7: Proposal to approve the requirement of a class room. 3.3.8 : Proposal to approve the requirement of a lab
BOS/ CSAI3 .4	:	Suggestions given by BOS Members
BOS/ CSAI3 .5	:	Concluding remarks & Vote of thanks

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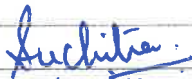






**MINUTES OF THE BOS MEETING**

**Date:** 19/01/2023

**Venue:** Xavier Hall

**Time:** 09:30 am

The Board Of Studies meeting for the program B.Sc. **COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**. was held on Thursday, 19 January at 09:30 am in the Xavier Hall. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Rev. Fr.Dr.L.Joji Reddy SJ	Principal ,President, Xavier board of Higher Education, India	
2.	Rev. Fr.CH.Amara Rao SJ	Rector & Correspondent	
3.	Fr.Dr.A.M.Joseph Kumar SJ	Vice- Principal	
4.	Fr. M. Arul Jothi SJ	Vice- Principal	
5.	Dr.N.Maria Das	Lay Vice-Principal	
6.	Dr.Ch.Sirisha	Vice- Principal	
7.	Prof .P.V.Sudha	University Nominee for BOS Dean of Informatics, University College of Technology, OU	
8.	Dr.Naresh Nelaturi	Data Scientist in Cognitive Care India Labs Pvt. Ltd	
9.	Shankar Gandrakota	Sr. Tech Lead Cyient Hyderabad	
10.	Dr.K.Rama	IQAC Coordinator	
11.	Dr. T.Suchitra Naidu	Dean, Academics	
12.	Dr. G.Anitha Mary	Dean, Informatics	
13.	Mrs.D.Arpitha Rani	Chairman, BOS	
14.	Mrs.S.Sarashri	Assistant Professor	
15.	MS.Ruchika Murthy	Assistant Professor	
16.	Mr.Harsha Sastry	Assistant Professor	

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the Program, **B.Sc. COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**. **Mrs D. Arpitha Rani** welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the **2<sup>nd</sup>** Board of Studies meeting held on February 4<sup>th</sup> 2022 were communicated to the members. The suggestions received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow** the Consolidated Scheme and syllabus for **Third Year** academic year 2023-2024 (**5<sup>th</sup> and 6<sup>th</sup> semester**) for the batch **2021-2024** (Enclosed in Annexure-I).
4. **It was resolved to introduce the following subjects in 5<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Software Engineering/ Fuzzy Logic and Expert System ( <b>DSE1</b> )
2.	Data Visualization tools with practical( <b>SEC-3</b> )
3.	Data Engineering and Distributed Databases( <b>Core-15</b> )
4.	Big Data Analytics with practical( <b>Core-16</b> )
5.	Natural Language Processing with practical( <b>Core-17</b> )
6.	Robotic Process Automation with practical ( <b>Core-18</b> )

Above subjects are offered in **5<sup>th</sup>** Semester from the AY: 2023-24.

**It was resolved to introduce the following subjects in 6<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Software Testing/ Computer Vision ( <b>DSE-2</b> )
2.	Human Computer Interaction / Data Security( <b>DSE-3</b> )
3.	Deep Learning with practical( <b>Core-19</b> )
4.	Major project( <b>DSE-4</b> )

Above subjects are offered in **6<sup>th</sup>** semester from the AY: 2023-24

5. **It was resolved to approve the** list of examiners AY: 2023-24.(Enclosed in Annexure-II)
6. **It was resolved to purchase** library books worth **5,35,430** for AY: 2023-24.(Enclosed in Annexure- III)
7. **It was resolved to sanction a budget of 3,00,000** for AY: 2023-24.(Enclosed in Annexure- IV).
8. **It was resolved to introduce self study course "IT ACT"** from the AY: 2023-24. (Enclosed in Annexure- V).

9. **It was resolved to organise an international Conference/Workshop.**
10. **It was resolved to recruit two teaching faculty for AY: 2023-24.(Enclosed in Annexure-VI)**
11. **It was resolved to provide the requirement of a classroom for Third year students for AY: 2023-24.**

The above resolutions were unanimously approved in the meeting.

*Anitha*  
Dean, Informatics

*P.V. Sridhar*  
**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.



B.Sc. Computer Science and Artificial Intelligence AY (2023-24) of 2021-24 Batch  
(Choice-Based Credit System)

Year	Sem	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits	
I	I	General English-I (3) (AECC-1)	Value Education and Personality Development(2) (AECC-2)	Computer Fundamentals (4+1)(SEC-1)	Fundamentals of IoT and Robotics (4+1) (Core-1)	Mathematics for Artificial Intelligence (4) (Core-2)	Problem Solving and Programming in C (4+1) (Core-3)	29	AECC=2 SEC=1 CORE=3	
	II	General English-II(3) (AECC-3)	Indian Heritage and Culture (2) (AECC-4)	Probability and Statistics (4) (GE-1)	Web Technologies (4+1) (SEC-2)	Operating Systems (4+1) (Core-4)	C++ and Data structures (4+1) (Core-5)	29	AECC=2 GE=1 SEC=1 CORE=2	
II	III	Environmental Studies and Gender Sensitization (3) (AECC-5)	GE-2* (2+1)(ID)	Distributed Systems(4) (Core-6)	DBMS (4+1) (Core-7)	Python Programming (4+1) (Core-8)	Artificial Intelligence (4+1) (Core-9)	30	AECC=1 GE=1 CORE=4	
	IV	Operations Research (4) (GE-3)	Computer Networks (4) (Core-10)	Machine Learning (4+1) (Core-11)	Cloud Computing (4) (Core-12)	Data Mining (4) (Core-13)	Data Engineering through Python (4+1) (Core-14)	29	GE=1 CORE=5	
III	V	Software Engineering/ Fuzzy Logic and Expert System (4) (DSE-1)	Data Visualization Tools (3+1) (SEC-3)	Data Engineering and Distributed Databases (4) (Core-15)	Big Data Analytics (4+1) (Core-16)	Natural Language Processing (3+1) (Core-17)	Robotic Process Automation (3+1) (Core-18)	29	DSE=1 SEC=1 CORE=4	
	VI	Software Testing/ Computer Vision (4) (DSE-2)	Human Computer Interaction / Data Security (4) (DSE-3)	Deep Learning(4+1) (Core-19)	MAJOR PROJECT(6) (DSE-4)			29	DSE=3 CORE=1	
		<b>Legend:</b> 1. Ability Enhancement Compulsory Course (AECC) : 05 2. Generic Elective (GE) : 03 3. Skill Enhancement Course (SEC) : 03 4. Core : 19 5. Discipline-Specific Elective (DSE) : 04 <b>LISP Programming*</b>								
		<b>PROFESSOR</b> Department of Computer Science & Engineering University College of Engineering (A) Osmania University Hyderabad-500 007.						Total	175	143



### ANNEXURE- I

LOYOLA ACADEMY, OLD ALWAL, SECUNDERABAD 500 010 TS  
DEPARTMENT OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

#### SCHEME OF INSTRUCTION FOR B.Sc CSAI: 2023-2024 FIFTH SEMESTER

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration Of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1	II	CSAI23501A	Software Engineering (DSE-1)	4	3	40	60	100	4
		CSAI2350 1B	Fuzzy Logic and Expert System (DSE-1))						
2	II	CSAI23502	Data Visualization Tools(SE C-3)	3	3	40	60	100	3
3	II	CSAI23503	Data Engineering and Distributed Databases (Core-15)	4	3	40	60	100	4
4	II	CSAI23504	Bigdata Analytics (Core-16)	4	3	40	60	100	4
5	II	CSAI23505	Natural Language Processing(Core-17)	3	3	40	60	100	3
6	II	CSAI23506	Robotic Process Automation	3	3	40	60	100	3
<b>PRACTICALS</b>									
7	II	CSAI23507	Data Visualization Tools Lab(SEC-3)	2	3	40	60	100	1

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*P.V. Sankar*

			Lab(SEC-3)						
8	II	CSAI23508	Big data Analytics Lab (Core-16)	2	3	40	60	100	1
9	II	CSAI23509	Natural Language Processing Lab(Core-17)	2	3	40	60	100	1
10	II	CSAI235010	Robotic Process Automation Lab Core-18)	2	3	40	60	100	1
<b>Total</b>				<b>29</b>	<b>-</b>	<b>400</b>	<b>600</b>	<b>1000</b>	<b>25</b>

**ACADEMIC YEAR 2023-2024 FOR THE BATCH 2021-2024 (CBCS)**

\*\*DisciplineSpecificElective(DSE)\*

SEC- Skill Enhancement Course

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*P.V. Sridhar*



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DEPARTMENT OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

**SCHEME OF INSTRUCTION FOR B.Sc CSAI: 2023-2024 SIXTH SEMESTER**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration Of Exam( hrs.)	Marks			Credits
						Internal	External	Total	
1	II	CSAI23601A	Software Testing (DSE-2)	4	3	40	60	100	4
		CSAI23601B	Computer Vision (DSE-2)						
2	II	CSAI23602A	Human Computer Interaction (DSE-3)	4	3	40	60	100	4
		CSAI23602B	Data Security (DSE-3)						
3	II	CSAI23603	Deep Learning (Core-19)	4	3	40	60	100	4
<b>PRACTICALS</b>									
4	II	CSAI23604	Deep Learning Lab(Core-19)	2	3	40	60	100	1
5	II	CSAI23605	Major Project	15	3	40	60	100	6
<b>Total</b>				<b>29</b>	<b>-</b>	<b>200</b>	<b>300</b>	<b>500</b>	<b>19</b>

**ACADEMIC YEAR 2023-2024 FOR THE BATCH 2021-2024 (CBCS)**

\*\*Discipline Specific Elective (DSE)\*

*P.V. S. S. S.*

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**ACADEMIC YEAR 2023-2024 FOR THE BATCH 2021-2024 (CBCS ANNEXURE- II)  
B.Sc COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**

**LIST OF BOARD OF EXAMINERS**

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience	Area of Specialisation
1.	Mrs.Kalpana	Professor	St. Francis College for Women, Begumpet, Hyderabad	9849000165 <a href="mailto:prem.kalpana@gmail.com">prem.kalpana@gmail.com</a> 14 Yrs	14 Yrs	AI, Python, OS, SE, Discrete Mathematics, Computer Networks, DAA, Network Security, OOAD, CO, Data warehousing and mining, Webprogramming, Distributed Systems.
2.	Mrs. K. SandhyaSree	Assistant professor	St.Pious X Degree, and PG College for Women, Nacharam, Hyderabad	9866235230 <a href="mailto:sandhyagude69@gmail.com">sandhyagude69@gmail.com</a> 20 Yrs	20 Yrs	AI, Python, OS, SE, Computer Networks, DAA, Network Security, OOAD, CO, Data warehousing and mining, Web programming.
3.	Mrs.V. Sreeprada	Assistant Professor	Vasundara Degree College for Women, ECIL, Hyderabad	9000145083 <a href="mailto:vsreeprada21@gmail.com">vsreeprada21@gmail.com</a>	11 Yrs	C, C++, DBMS, Web Programming, E-Commerce, Java, Operating Systems, Python Programming, Data Engineering Through Python
4.	Mr. N.BhaskerRao	Assistant Professor	AV College of Arts Science & Commerce, GaganMahal, Hyd	9885639321 <a href="mailto:braon4@gmail.com">braon4@gmail.com</a> 25 yrs	25 yrs	Data Structures, C++,DBMS, OS, Data mining, Information security, Computer networks, Cloud computing

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*P.V. Solla*

5.	Mrs.T. PushpaLatha	Assistant Professor	St. Ann's College for Women , Mehidipatn am	8106828882 <a href="mailto:pushpareddy28@gmail.com">pushpareddy28@gmail.com</a> 10 years	10 years	Data Structures, C++,DBMS, OS, Data Mining, Information security, Machine Learning, Computer networks, Distributed Systems.Mining Massive Datasets, Cloud computing, FIT
6.	Mr.P.Abdul Subhanallah	Assistant Professor	CSI Wesley Institute of Technolog y and Science, Hyd	9849567526 <a href="mailto:p.subhan@gmail.com">p.subhan@gmail.com</a> 23 years	23 years	IT Hardware and Networking, Information Security, DBMS, Operating Systems, C, C++ and Java
7	Mr.Sathish Yellanki	Industry expert	SkyEss Techno Solutions Pvt Ltd	Ph No-8142190906 <a href="mailto:yellanki@skyessmail.com">yellanki@skyessmail.com</a>	15	Computer Science
8	Dr.G.N.R. Prasad	Assoc. Professor	CBIT,Hyd erabad	9885191683 <a href="mailto:gnrp@cbit.ac.in">gnrp@cbit.ac.in</a>	20	Computer Science
9	Mr. N.Bhasker Rao	Asst. Professor	AV College of Arts Science & Commerc e, GaganMa hal, Hyd	9885639321 <a href="mailto:braon4@gmail.com">braon4@gmail.com</a>	23	Computer Science

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*P.V. Subhan*

### ANNEXURE- III

#### **B.Sc COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**

#### **INDENT FOR LIBRARY BOOKS**

S.No.	Title of the book & Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1	Saeed B. Niku, Introduction to Robotics Analysis, Application,	Pearson Education Asia, 2019, Third Edition.	3	35400
2	Vijay Madiseti and Arshdeep Bahga, Internet of Things - A Hands-on Approach,.	First Edition, University Press, 2015	20	14,600
3	Discrete Mathematics for Computer Scientists & Mathematicians	2 <sup>nd</sup> Edition, Joe L Mott, Kandel, Baker, PHI	3	28,755
4	Matrices By A.R.Vasistha	Krishna prakashanmandir, Meerut	10	4,000
5	Thareja, Reema. 2020. Fundamentals of Computers. 2 <sup>nd</sup> Edition	Oxford Higher Education	15	6,750
6	Thareja Reema. 2015. Programming in C. 2 <sup>nd</sup> Edition.	New Delhi:BPB.	15	11,625
7	Gupta, R.C. Statistical Quality Control. Kannapublications.	Richard A. Johnson, Miller, Freund.	5	10,000
8	Probability & Statistics for Engineers.	PHI Publications	5	5,000
9	Sebesta, Robert W. 2008. Programming the World Wide Web. 4 <sup>th</sup> Edition.	New Delhi: Pearson Education	15	8,400
10	Silberschatz Abraham, Galvin Peter, B. and Gagne Greg. 2006	Operating System Concepts, India: Wiley.	10	20,000
Seco nd	Distributed Systems	PHI 2nd Edition, 2009	10	30,253

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*P.V. Subba*

year 11	,Andrew S. Tanenbaum and Maarten Van Steen,			
12	Guide to Cloud Computing, R. Hill, L. Hirsch, P. Lake, S. Moshiri	Principles and Practicel, Springer, 2013.	10	10,500
13.	Data Communications and Networking. 3 <sup>rd</sup> Edition. New Delhi: Tata McGrawHill. (UNIT- I andII)	Forouzan, BeharouzA. 2011	15	5,985
14	TCP/IP Protocol Suite. 3 <sup>rd</sup> Edition. New Delhi: Tata McGrawHill. (UNIT- III,IV,V)	Forouzan, BeharouzA. 2010	15	5265
15.	Database System Concepts. 6 <sup>th</sup> Edition. McGraw-Hill	Silberschatz, Abraham. Korth, Henry F and Sudharshan, S. 2013.	10	5,360
16	PL/SQL (The Programming Language of Oracle). 4 <sup>th</sup> Revised Edition. New Delhi: BPB publications.	Bayross, Ivan. 2009. SQL	10	4,950
17	Introduction to Python Programming CRC Press, Taylor & Francis Group	Gowrishankar S, Veena A. 2019..	15	13,500
18	Core Python Programming. DreamTech Press. India:New Delhi	Dr NageshwaraRao. 2017	15	8,985
19	Artificial Intelligence 1 <sup>st</sup> Edition. I.K International Publishing House Delhi	Kumar, Ela. 2019	10	4,650
20	Artificial Intelligence, A Modern Approach. 3 <sup>rd</sup> Edition. Pearson Education. New Delhi: India.	RusselJ,Stuart. Norvig, Peter. 2015.	15	13,200

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*P.V. Godhena*

21	Operations Research. New Delhi: S. Chand & Co.	Sharma S.D. 2007	10	7,000
22	DT Editorial Services. 2016. Big Data Black Book	Dreamtech Press	20	10,000
23	Dutt Saikat, Chandra Mouli Subramanian, Das Amit Kumar. 2019. Machine Learning	1 <sup>st</sup> Edition. Pearson India Education Pvt Ltd. India: New Delhi	5	3,000
24	Jose, Jeeva. 2020. Introduction to Machine Learning Using Python	1 <sup>st</sup> Edition. Khanna Book Publishing Co. Pvt Ld. India: New Delhi.	5	800
25	Geoffrey C Fox, Kaattwangand Dongra Elsevier, Jack J. 2012. Distributed and Cloud Computing	India.	15	8,205
26	Coulouris G, Dollimore J and Kindberg T. Distributed Systems Concepts and Design	4 <sup>th</sup> Edition. Pearson Education	5	800
27	Jure Leskovec Anand Rajaraman Jeffrey Dfavid Ullman Mining Of Massive Data Sets Second edition	Second edition	15	9,270
28	Zinoriev, Dmitry. 2016. Data Science Essentials in Python: Collect, Organize, Explore, Predict, Value. The Pragmatic Programmers LLC	USA	15	28,600
Third year 29	Software Engineering, A practitioner's Approach.	Pressman, Rogers S. 2015. 6 <sup>th</sup> Edition. Mc Graw Hill Education <i>8<sup>th</sup> Edition.</i>	15	4,500
30	Fuzzy Logic with Engineering Applications.	Timothy J Ross. 2010. John Wiley and Sons.. 3 <sup>rd</sup> Edition.	15	9,450
31	Principles of Distributed Database Systems	M. Tamer Özsu • Patrick Valduriez Third Edition	2	19170

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*P.V. Subrah*

32	Distributed Operating Systems	Concepts and Design By Pradecp	3	10899
33	Learning Tableau	Milligan,Joshua N.20162 <sup>nd</sup> Edition.Packt Publishing Ltd	4	13180
34	Big DataBlackBook	DT EditorialServices.2016 Dreamtech Press	15	6840
35	Natural Language Processing with Python	Steven Bird, Ewan Klein, and Edward Lope, O'Reily, 2009	15	26,250
36	Natural Language Processing Recipes	Unlocking Text Data with Machine Learning and Deep Learning using Python. Akshay Kulkarni, Adarsha Shivananda, A press, 2019	2	8,028
37	Robotic Process Automation: Guide To Building Software Robots, Automate Repetitive Tasks & Become an RPA Consultant	Richard Murdoch. 2020. 1 <sup>st</sup> Edition. PacktPublishingKindle Store	5	7,825
38	Robotic Process Automation with Automation Anywhere: Techniques to fuel business productivity and intelligent automation using RPA.	HusanMahey. 2020. 1 <sup>st</sup> Edition. Packt Publishing Kindle Store.	5	16,475
39	TestingComputerSoftware	CemKaner,JackFalk,HungQuoc guyen.1998 Comdex	15	7,500
40	Computer Vision- A Modern Approach, PHI Learning (Indian Edition),	David A. Forsyth and Jean Ponce: Computer Vision 2009.	15	13,530
41	The essential guide to user interface design	Wilbert O Galitz, Wiley Dream Tech.	15	19,350
42	Human – Computer Interaction	Alan Dix, Janet Fincay, GreGoryd, Abowd, Russell Bealg, Pearson Education	5	30000

*P.V. Sreenivasulu Reddy*

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 Hyderabad-500 007.

43	Cryptography and Network Security	Stallings, William 7 <sup>th</sup> Edition, New Delhi: Pearson Education	20	15,980
44	Deep Learning with Python	François Chollet, Manning Publications, 2018	20	11,600
				5,35,430

P. V. Sudha

**PROFESSOR**  
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ANNEXURE- IV

CSAI-BUDGET PROPOSAL AY: 2023-24

S.No.	Items	Estimated Amount(Rs)
1.	Computers for configuration, installation of Software and maintenance	50,000
2.	Seminars(State/National/International)	10,000
3.	Workshop	10,000
4.	Field Visit	10,000
5.	Guest Faculty	15,000
6.	Stationary/Infrastructure (LCD Projector& CPU, Class room)	2,00,000
7.	Miscellaneous(Any important day to be celebrated)	5,000
TOTAL		3,00,000

  
HOD Signature

  
Dean Signature

ANNEXURE – VI

LIST OF FACULTY REQUIREMENT

S.No	Number of Faculty	Qualification	Workload
1.	02	M.Tech(cse) Preferred either phd or specialized in Artificial Intelligence	I semester : 33 Hours II semester : 23 Hours

  
**HOD Signature**

  
**Dean Signature**

**PROFESSOR**  
Department of Computer Science & Engineering  
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# LOYOLA ACADEMY

(DEGREE & PG COLLEGE)

OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA

(Autonomous and Affiliated to Osmania University)

Re-accredited with 'A' Grade (III Cycle) by NAAC

A "College with Potential for Excellence" by UGC

[www.loyolaacademy.edu.in](http://www.loyolaacademy.edu.in) Ph: 040-27862363/27860077 Fax: 040-27867939

## SCHOOL OF ARTS & HUMANITIES

DEPARTMENT OF B.A (ECONOMICS, PUBLIC  
ADMINISTRATION, COMPUTER APPLICATIONS)

YEAR OF INCEPTION: 2021



Minutes of 3<sup>rd</sup> meeting of the Board of Studies held on  
Tuesday, 17 January 2023 at 11:30 am

Academic Year: 2023-24 for the batch of 2022-25.



## LOYOLA ACADEMY DEGREE & P.G. COLLEGE

(An autonomous institution -affiliated to Osmania University, Hyderabad)

[www.loyolaacademy.edu.in](http://www.loyolaacademy.edu.in)

3<sup>rd</sup>- Board of Studies Meeting

Department of B.A (EPCA)

Venue: ConferenceRoom, Admin Block

Loyola Academy

Date and time-17/1/23, 11.00 AM

### AGENDA

BOS/EPCA3.1	:	Welcome address and Opening remarks by Chairman, BOS Mrs Sunindita Pan in the Department of BA (EPCA).
BOS/EPCA3.2	:	Action Taken Report of 2 <sup>nd</sup> meeting of Board of Studies held on 3.2.1: Second BOS meeting was held on 1 <sup>st</sup> February2022 ,10.30 am at Osmania university in the respective BOS Chairpersons office for the approval of the scheme and syllabus for second academic year 2022-23(III and IV semester)for the batch 2021-2024. The scheme and second year syllabus were ratified and approved by the Board. The same is followed and taught by the faculty of the department for the second year students of BA Economics, Public Administration and Computer Application

BOS/EPCA3.3	<p>- Business brought forward by the Chairman, Board of studies –</p> <p>3.3.1: Proposal to approve the Consolidated Scheme for the batch 2021-24(Annexure-I).</p> <p>3.3.2: Proposal to approve new syllabus for third year (semester V and VI) for the academic year of 2023-2024for the batch of 2021-2024 as per CBCS. Following are the courses to be offered in Semester 5 and 6 respectively.</p> <p><b>V semester</b></p> <ul style="list-style-type: none"> <li>● EPCA 23501A Financial Economics / EPCA 23501B Urban governance(DSE1)</li> <li>● EPCA 23502 A Industrial Economics/ EPCA 23502 B cyber laws and IPR(DSE2)</li> <li>● EPCA 23503 Research methodology</li> <li>● EPCA 23504 International Economics</li> <li>● EPCA 23505 Human Resources Management</li> <li>● EPCA 23506 Python programming AND EPCA 23507 PYTHON PRACTICAL</li> </ul> <p><b>VI semester</b></p> <ul style="list-style-type: none"> <li>● EPCA 23601 A ECONOMICS OF ENVIRONMENT</li> <li>● /EPCA 23601 B Indian constitution</li> <li>● EPCA 23602A Good governance/</li> <li>● 23602 B Principles of information security</li> <li>● EPCA 23603 Agricultural economics</li> <li>● EPCA 23604 Financial and materials management</li> <li>● EPCA 23605 DBMS (with practical)</li> <li>● EPCA 23606 Project work</li> </ul> <p>3.3.3 : To consider and approve the list of examiners(Annexure –II)</p> <p>3.3.4 : To consider and approve list of Library books(Annexure –III)</p> <p>3.3.5 : To consider and approve the Annual budget (Annexure – IV)</p> <p>3.3.6: To consider and approve requirement of a teaching faculty for AY: 2023-24. (Annexure-V).</p> <p>3.3.7: To consider and approve requirement of a classroom for AY: 2023-24.</p>
BOS/EPCA3.4	- Suggestions given by BOS Members
BOS/EPCA3.5	- Concluding remarks & Vote of Thanks

Loyola Academy

Degree & PG College  
Alwal, Secunderabad- 500010

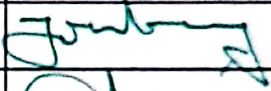

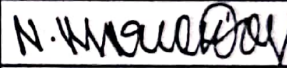
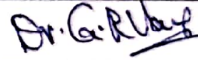



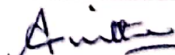

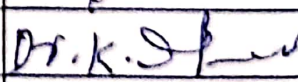

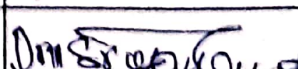
MINUTES OF THE -BOS MEETING

Date: 17/1/2023

Venue: Conference Room

Time: 11.00am

The Board of Studies meeting of the program BA Economics, Public Administration, Computer Applications was held on 17/01/2023 at Admin Block in the Conference room. Following members attended the meeting.

Sl.no	Name of the attendee	Designation	Signature
1	Rev. Fr Dr LJoji Reddy	Principal	
2	Rev. Fr Arul Jothi	Vice Principal	
3	Rev. Fr Dr Joseph Kumar	Vice Principal	
4	Dr. N. Maria Das	Lay Vice Principal	
5	Dr. T.Suchitra Naidu	Dean , Academics	
6	Dr. G. Ratna Vani	Dean , Arts	
7.	Prof B Narayana	OU BOS CHAIRPERSON, ECONOMICS	
8	Prof ArunaJyothy	OU BOS Chairperson, Public administration	
9	Prof P V Sudha	OU BOS Chairperson, computer applications	
10	Dr Anita Mary	Dean Of Informatics	
11	Mrs Sunindita Pan	HOD, BA EPCA	
12	Mr. Musalaiah	Asst. Professor	
13	Mr.Balramkrishna	Asst. Professor	
14	Mr. Srujan kumar	Asst. Professor	

The following resolutions were made in the meeting,

1. The chairman, BOS of the Program BA Economics, Public Administration, Computer Applications Mrs Sunindita Pan welcomed, introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the previous BOS held on 1<sup>st</sup> February 2022 was communicated to the members. The suggestions received have been incorporated and placed for the confirmation. The same was approved by the academic council.
3. It was resolved to follow the Consolidated Scheme for the academic year 2023-24 for the batch 2021-24(Annexure-I).
4. It was resolved to introduce the new syllabus for third year (semester V and VI) for the academic year of 2023-2024 for the batch of 2021-2024 as per CBCS.

It was resolved to introduce the following subjects in 5 semesters For AY 2023-24

Sl.no	Title of the subject
1	Financial economics/urban governance
2	Industrial economics/cyber law and IPR
3	Research methodology
4	International economics
5	HRM
6	Python programming with practical's

It was resolved to introduce the following subjects in 6 semester for AY 2023-24

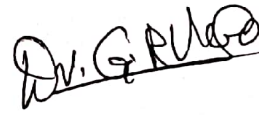
Sl.no.	Title of the subject
1	Economics of environment/Indian constitution
2	Good governance/principles of information security
3	Agricultural economics
4	Financial and materials management
5	DBMS with practical's
6	Project

5. It was resolved to approve the list of examiners for BA Economics, Public Administration, and Computer Applications. (Enclosed in Annexure- II)
6. It was resolved to purchase library books with a budget of Rs 42,750 for AY: 2023-24. (Enclosed in Annexure- III)
7. It was resolved to sanction the budget of Rs1, 66,250 for AY: 2023-24. (Enclosed in Annexure- IV)
8. It was resolved to recruit additional teaching faculty for AY: 2023-24. (Enclosed in Annexure- V)
9. It was resolved to provide additional one classroom and laboratory for third year students for AY: 2023-24.
10. It was resolved to offer the Bridge course as Basics of Computer Applications, Add on course as Research Writing, Self study course of Corporate Governance and GE in Human Rights.

11. The above resolutions were unanimously approved in the meeting.



Sign of BOS chairperson



Sign of Dean



Sign of HOD

**Chairperson, BoS**  
Dept. of Public Administration  
Univ. College of Arts & Social Science  
Osmania University, Hya-7, (H)


**Loyola Academy**  
**B. A (Economics, Public administration, computer applications) (2021-22) Academic Year**  
**Choice-Based Credit System (CBCS)**

Year	Sem.	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits		
I	I	English-I (3) (AECC-1)	Indian Heritage and Culture (2) (AECC-2)	Introduction to statistics (4+1) (SEC-1)	Microeconomics (4) (CORE-1)	Basics of public administration (4) (CORE-2)	Fundamentals of Information Technology (4+1) (CORE-3)	29	23		
	II	English-II (3) (AECC-3)	Value Education & Personality Development (2) (AECC-4)	Macroeconomics (4) (CORE-4)	Development Dynamics and Emerging Trends in Public Administration (4) (CORE-5)	Problem solving and programming in C (4+1) (CORE-6)	Public office administration (4) (GE-1)	29	22		
II	III	(2+1)(GE-1)	Environmental Studies and Gender Sensitization (3) (AECC-5)	Entrepreneurship development (4)(SEC-2)	Development economics (4) (CORE-7)	Union government of India (4) (CORE-8)	Programming using C++ (4+1) (CORE-9)	29	23		
	IV	Web programming (3+1) (SEC-3)	Indian economy (4) (core-10)	State government (4) (CORE-11)	Public economics (4) (core-12)	Rural Governance in India (4) (SEC-4)	Java programming (4+1) (Core-13)	29	25		
III	V	Financial Economics /Urban governance (4) (DSE-1)	Industrial economics/cyber laws and intellectual property rights (4) (4)(DSE-2)	Research methodology (4) (GE-2)	International economics (4) (CORE-14)	Human Resource Management (4) (CORE-15)	Python Programming (4+1) (CORE-16)	29	25		
	VI	Economics of environment/Indian Constitution (4) (DSE-3)	Good Governance/Principles of Information Security (4) (DSE-4)	Agricultural economics (4) (core-17)	Financial and materials management (4) (CORE-18)	DBMS (4+1) (CORE-19)	PROJECT (4)	29	25		
		1. Ability Enhancement Compulsory Course (AECC) : 05 2. Inter disciplinary (GE) : 01 3. Skill Enhancement Course (SEC) : 04 4. Core : 19 5. Discipline-Specific Elective (DSE) : 04 6. generic elective : 02								174	143
<b>Total</b>											

B A economics, public administration, computer applications

P. J. S. ...  
 Professor, Engineering  
 Dept. of Computer Science  
 Osmania University  
 Hyderabad-500007

Academic Year 2023-2024  
 Chairperson, BOS  
 Dept. of Public Administration  
 College of Arts & Social Science  
 Osmania University, Hyd-7. (TS)

  
 Head  
 Department of Economics  
 Osmania University, Hyd-7.



**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
B.A. ECONOMICS, PUBLIC ADMINISTRATION, COMPUTER APPLICATIONS (CBCS)  
FIFTH SEMESTER  
ACADEMIC YEAR 2023-24 of 2021-24 BATCH**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
<b>THEORY</b>									
1	II	EPCA23501 A EPCA23501B	(DSE-1)financial economics /urban governance (DSE-1)	5	3	40	60	100	4
2	II	EPCA23502A EPCA23502B	Industrial economics/cyber laws and intellectual property rights (DSE-2)	5	3	40	60	100	4
3	II	EPCA23503	Research methodology (GE-2)	5	3	40	60	100	4
4	II	EPCA23504	International economics (CORE -14)	4	3	40	60	100	4
5	II	EPCA23505	Human Resource Management (CORE - 15)	4	3	40	60	100	4
6	II	EPCA23506	Python programming (CORE -16)	4	3	40	60	100	4
<b>Practicals</b>									
7	II	EPCA23507	Python programming (core-16)	2	3	40	60	100	1
<b>Total</b>				<b>29</b>		<b>280</b>	<b>420</b>	<b>700</b>	<b>25</b>

*[Signature]*  
Chairperson, BoS  
Dept. of Public Administration  
College of Arts & Social Science  
Osmania University, Hyd-7. (TS)

*[Signature]*

*[Signature]*  
**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007

B A Economics, Public Administration, computer applications for Academic Year 2023-24 (CBCS)



Loyola Academy Degree & PG College, Alwal, Secunderabad 500 010

**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS**  
**B.A. ECONOMICS, PUBLIC ADMINISTRATION, COMPUTER APPLICATIONS (CBCS)**  
**SIXTH SEMESTER**  
**ACADEMIC YEAR 2023-24 of 2021-24 Batch**

Sl. No.	Part	Subject Code	Title of the Subject	Hour s/ week	Duration of Exam (hrs.)	Marks			Credits
						Inter nal	Exter nal	Total	
<b>THEORY</b>									
1	II	EPCA23601 A EPCA23601 B	Economics of environment/Indian constitution(DSE 3)/ (DSE 3)	5	3	40	60	100	4
2	II	EPCA23602A EPCA23602B	Good governance and/Principles of information security(DSE 4)/ (DSE-4)	5	3	40	60	100	4
3	II	EPCA23603	Agricultural economics(4)(Core - 17)	4	3	40	60	100	4
4	II	EPCA23604	Financial and materials management(CORE 18)	4	3	40	60	100	4
5	II	EPCA23605	DBMS and Networks (CORE -19)	4	3	40	60	100	4
<b>PRACTICALS</b>									
6.	II	EPCA23606	DBMS	2	3	40	60	100	1
7	II	EPCA23607	Project Work	5	3	40	60	100	4
<b>Total</b>				<b>29</b>		<b>280</b>	<b>420</b>	<b>700</b>	<b>25</b>

*[Signature]*  
 Chairperson, BOS  
 Dept. of Public Administration  
 College of Arts & Social Science  
 Osmania University, Hyd-7. (TS)

*[Signature]*  
**PROFESSOR**  
 Department of Computer Science & Engineering  
 University College of Engineering (A)

B A Economics, Public Administration, computer applications for Academic Year 2023-2024 (CBCS)



**ANNEXURE- II**  
**LIST OF BOARD OF EXAMINERS**

S.N O.	NAME OF EXPERT	DESIGNATION	INSTITUTION	CONTACT DETAILS	EXPERI ENCE	AREA OF SPECIALIZATIO N
1.	Dr.Rupali	Assit.Prof. Public Administration	St.Francis College for Women	9866524501 rupalistf@gmail .com	20	Human resource management & Union Administration
2.	Dr.V.V. Mallika	Assit.Prof. Public Administration	Babu Jagjivan Ram Govt.Degree college	9291467682 mallikavvdl@g mail.com	15	Good governance & Urban governance
3.	Mrs.Haritha	Assit.Prof. Public Administration	Kasturbha college for women	9849977245 Mharitha2205@ gmail.com	10	Basics of Public Admin&Develo pment Dynamics of Pub Admin

**ANNEXURE-III**  
**INDENT FOR LIBRARY BOOKS**

<b>Sl.no.</b>	<b>Title of book and edition</b>	<b>Publishing house</b>	<b>No. of copies</b>	<b>Estimated cost</b>
1	Agricultural economics,2019	Himalaya publishers	05	2,250
2	Agricultural economics,2019	CBS publishers	05	1,250
3	Agricultural economics,2019	Laxmi publications	05	1500
4	Economics of insurance,2022	Chand publishers	05	1,250
5	Economics of insurance,2022	Himalaya publishers	05	1000
6	Economics of insurance,2022	Telugu academy	05	1000
7	Industrial economics,2021	Himalaya	05	1250
8	Industrial economics,2021	pearson	05	1500
9	Industrial economics,2021	Chand publications	05	350

10	Public economics,2021	Himalaya publishers	05	2000
11	Financial economics,2021	oxford	05	2000
12	Financial economics,2021	Chand	05	2000
13	Economics of environment,2022	Himalaya	05	2000
14	Economics of environment,2022	Chand	05	1500
15	Economics of environment,2022	pearson	05	1500
16	Economics of environment,2022	SIA	05	1500
17	International economics,2022	Himalaya	05	1500
18	International economics,2022	pearson	05	2000
19	International economics,2022	Chand	05	2000
20	A hand book of Human resource management practice	Kogan page	05	2000
21	Rethinking Governance : The centrality of the State in modern society	Cambridge university	05	2500
22	Key Concepts in Governance	Sage	05	3000
23	Hand book of Globalisation, Governance and Public administration (Ed)	CRC	05	2500
24	Public personnel Administration by Goel.S.L	Deep&Deep	05	2500

25	Financial Management by Brigham	CengageLearning	05	2500
<b>TOTAL</b>				42,750

**ANNEXURE-IV**  
**BUDGET PROPOSAL AY 2023-24**

S.no	Items	Estimated Amount (Rs)
1.	Computer-desktop with scanner cum printer	45,000
2	Library books for department(YOJANA, INDIA TODAY MAGAZINE, COMPETITIVE EXAM UPSC BOOK)	42,750
3	Seminar/workshop	30,000
4	Field visit	6,000
5	Guest faculty	10,000
6	DEPARTMENT activity ( any important day to be celebrated)	5,000
7	Infrastructure like , bulletin board, almirah	5,000
8.	Miscellaneous	2,500
	GRAND TOTAL	1,46,250



HOD's Signature



Dean's Signature

**ANNEXURE – V**  
**LIST OF FACULTY REQUIREMENT**

S.No	Number of Faculty	Qualification	Workload
1.	01-Public Administration	MA, Ph D	I semester : 25 Hours II semester : 37 Hours
2.	01-Economics	MA, Ph D	I semester : 20 Hours II semester : 16 Hours
3.	01-Computer Science	M Tech	I semester : 16 Hours II semester : 17 Hours

  
**HOD Signature**

  
**Dean Signature**

# LOYOLA ACADEMY

(DEGREE & PG COLLEGE)

OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA

(Autonomous and Affiliated to Osmania University)

Re-accredited with 'A' Grade (III Cycle) by NAAC

A "College with Potential for Excellence" by UGC

[www.loyolaacademy.edu.in](http://www.loyolaacademy.edu.in) Ph: 040-27862363/27860077 Fax: 040-27867939

## SCHOOL OF INFORMATICS

### Department of B.Sc. Computer Science & Internet of Things

Year of Inception:2022



Minutes of 2<sup>nd</sup> meeting of the Board of Studies held on  
Thursday, 19<sup>th</sup> January 2023 at 10.30 a.m.

PROFESSOR  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

Academic Year: 2023-24 for the batch of 2022-25

# LOYOLA ACADEMY

(An autonomous institution-affiliated to Osmania University, Hyderabad)

www.loyolaacademy.edu.in

2<sup>nd</sup> Board of Studies Meeting

Department of B.Sc. Computer Science & Internet of Things

Venue: Conference Room, Admin Block.

Loyola Academy

Date & Time: 19/1/23 at 10.30 a.m.

## AGENDA

Pre-BOS/CSIOT 2.1	:	Welcome address and Opening Remarks by Mrs. T. Suneetha Chairman, Board Of Studies in the Department of B.Sc. Computer Science & Internet of Things
Pre-BOS/CSIOT 2.2	:	Action Taken Report of 1 <sup>st</sup> meeting of Board of Studies held on 19 <sup>th</sup> August 2022. 2.2.1: Introduced Tentative scheme and syllabus of 1 <sup>st</sup> academic year 2022-23 (first and second semester) for the batch 2022-2025. The Tentative scheme and first year syllabus were approved by the board.
Pre-BOS/CSIOT 2.3	:	Business brought forward by the Chairman, Board of studies – 2.3.1 : Approval of the Consolidated Scheme and Syllabus for 2 <sup>nd</sup> academic year 2023-24 (3 <sup>rd</sup> and 4 <sup>th</sup> semester) for the batch 2022-2025. Following are the courses to be offered in semester 3 and 4 respectively as per CBCS (Choice Based Credit System). (Annexure -I) <b>Semester - 3</b> ➤ Environmental Studies and Gender Sensitization ) (AECC-5) ➤ G23CSIOT1T GE1 - Introduction to IOT using Arduino ➤ CSIOT22301 - Discrete Mathematics (Core-7) ➤ CSIOT22302 - Advanced Micro Processors (Core-8) ➤ CSIOT22303 - Computer Organization and Architecture(Core-9) ➤ CSIOT22304 - Python Programming (Core-10) ➤ G23CSIOT1P GE1 - Introduction to IOT using Arduino with practical's ➤ CSIOT22305 - Advanced Micro Processors with practical's ➤ CSIOT22306 - Python Programming with practical's <b>Semester - 4</b> ➤ BS23401 GE2 - Probability and Statistics ➤ CSIOT22401 - Smart Sensor Technologies (SEC-3) ➤ CSIOT22402 - Advanced Micro-controller based systems (Core-11) ➤ CSIOT22403 - Fundamentals of IOT and Robotics (Core-12) ➤ CSIOT22404 - Embedded System Design and Programming (Core-13) ➤ CSIOT22405 - Programming with Raspberry Pi (Core-14) ➤ CSIOT22406 - Advanced Micro-controller based systems with practical's ➤ CSIOT22407 - Fundamentals of IOT and Robotics with practical's ➤ CSIOT22408 - Embedded System Design and Programming with practical's ➤ CSIOT22409 - Programming with Raspberry Pi with practical's 2.3.2: Proposal for the approval for list of examiners for AY: 2023-24 (Annexure-II) 2.3.3: Proposal to approve list of Library Books for AY: 2023-24 (Annexure - III) 2.3.4: Proposal to approve the annual budget for AY: 2023-24(Annexure - IV) 2.3.5: Proposal to approve the new Self Study Course "Study of electronic component data sheet". (Annexure-V) 2.3.6: Proposal to approve the new Add-On course "Smart home Automation with IoT". (Annexure-V) 2.3.7: Proposal to approve the requirement of a teaching faculty for AY: 2023-24. (Annexure-VI) 2.3.8: Proposal to approve the requirement of a class room. 2.3.9: Proposal to approve the new computer lab.
Pre-BOS/CSIOT 2.4		Suggestions given by BOS Members
Pre-BOS/CSIOT 2.5	:	Concluding remarks & Vote of Thanks



# LOYOLA ACADEMY

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## DEPARTMENT OF COMPUTER SCIENCE & INTERNET OF THINGS BOARD OF STUDIES MEETING

Thursday, 19<sup>th</sup> January, 2023

09:30 AM

1	Rev Fr Dr. L. Joji Reddy SJ, Principal, Loyola Academy, President, Xavier board of Higher Education, India	
2	Rev Fr Ch. Amara Rao SJ, Rector & Correspondent	
3	Rev Fr Arul SJ, Vice-Principal (UG)	
4	Rev Fr Dr. AMJ Kumar SJ, Vice-Principal (PG)	
5	Dr. N. Maria Das Lay Vice-Principal	
6	Dr. CH. Sirisha Lay Vice-Principal	
7	Dr. P. V. Sudha, Prof.Dr.P.V Sudha Dean, Informatics OU	
8	Dr. Naresh Nelaturi, Data scientist, Cognitive care India Labs Pvt Ltd – Subject Expert	
9	Shankar Gandrakota, Sr Tech Lead, Cyient, Hyderabad – Industrial Expert	
10	Dr. K. Rama, IQAC Coordinator, Asst. Prof in Electronics	
11	Dr. T. Suchitra Naidu, Dean of Academics, Asst. Prof in Biotechnology	
12	Dr. K. Vijaya Lakshmi, Dean of Science & Research, Asst. Prof in Mathematics	
13	Dr. G. Anita Mary, Dean of Informatics	
14	Mrs. T. Suneetha, Chairman, BOS, Computer Science & Internet of Things	
15	Dr. Radhika Rani L, Asst. Prof in Electronics	
16	Dr. Santhi C, Asst. Prof in Electronics	

**PROFESSOR**

Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

The following resolutions were made in the BOS meeting,

1. The Chairperson, BOS of the Program, B.Sc. Computer Science and Internet of Things Mrs. T. Suneetha welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the First Board of Studies meeting held on 19/8/2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 2023 Academic council.
  - To consider and approve the Consolidated Scheme and syllabus for second academic year 2023-24 (3<sup>rd</sup> and 4<sup>th</sup> semester) for the batch 2022-25 (Enclosed in Annexure – I).
  - To consider and approve the list of examiners for B.Sc. Computer Science and Internet of Things – under regulation 2023. (Enclosed in Annexure – II).
  - To consider and approve the requirement of library books Rs: 5,42,159/- for AY: 2023-24. (Enclosed in Annexure – III).
  - To consider and approve the budget proposal for AY: 2023-24 Rs.65,40,000/- (Enclosed in Annexure-IV).
  - To consider and approve the syllabus for self-study course on “Study of electronic component data sheet” for second year students under regulation 2023. (Enclosed in Annexure – V).
  - To consider and approve the syllabus for Add-On on, “Smart home Automation with IoT ”. (Enclosed in Annexure – V).
  - To consider and approve the requirement of teaching faculty for AY: 2023-24. (Enclosed in Annexure- VI).
  - To consider and approve the requirement of a classroom for second year students for AY: 2023-24.
  - Proposal to build a new computer lab with configuration of 16GB RAM, 500GB HDD and 17 processor with internet connectivity (60\*96000+60 computer tables and chairs+projector+3 AC's+13 KV UPS).

The expert committee read through the report/recommendations of the faculty members of the department and approved the Consolidated Scheme and syllabi of second year for the academic year 2023-2024 to main BOS.

Based on the suggestions given by the members of expert committee, BOS resolved to recommend Syllabus for third and fourth semesters & list of examiners to the BOS for further approval.

Mrs T. Suneetha, HOD & Assistant Professor in B. Sc Computer Science and Internet of Things thanked all the members for their kind cooperation and the meeting came to an end.

*P.V. Suneetha*

PROFESSOR  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the B. Sc Computer Science and Internet of Things, **Mrs T. Suneetha** welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the **First** Board of Studies meeting held on 19<sup>th</sup> August 2022 were communicated to the members. The suggestions received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow** the Consolidated Scheme and syllabus for **Second** academic year 2023-2024 (**3<sup>rd</sup> and 4<sup>th</sup> semester**) for the batch **2022-2025** (Enclosed in Annexure-I).
4. **It was resolved to introduce the following subjects in 3<sup>rd</sup> Semester.**

S.No	Title of Subject
1.	Environmental Studies and Gender Sensitization
2.	Introduction to IOT using Arduino - GE-1 (T+P)
3.	Discrete Mathematics
4.	Advanced Micro Processors (T+P)
5.	Computer Organization (T+P)
6.	Python Programming (T+P)

Above subjects are offered in 3<sup>rd</sup> Semester from the AY: 2023-24.

**It was resolved to introduce the following subjects in 4<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Probability and Statistics - (GE-2)
2.	Smart Sensor Technologies
3.	Advanced Micro-controller based systems (T+P)
4.	Fundamentals of IOT and Robotics (T+P)
5.	Embedded System Design and Programming (T+P)
6.	Programming with Raspberry Pi (T+P)

Above subjects are offered in 4<sup>th</sup> semester from the AY: 2023-24

5. **It was resolved to approve the** list of examiners AY: 2023-24.(Enclosed in Annexure- II)
6. **It was resolved to purchase** library books worth **Rs. 5,42,159/-** for AY: 2023-24.(Enclosed in Annexure- III)
7. **It was resolved to sanction a budget of Rs. 64,40,000/-** for AY: 2023-24.(Enclosed in Annexure- IV).
8. **It was resolved to organize an international Conference/Workshop.**
9. **It was resolved to introduce** the new Self-study course "**Study Of Electronic Component Data Sheet**" for AY: 2023-24.(Enclosed in Annexure- V)
10. **It was resolved to introduce** the new Add-on course "**Smart home Automation with IoT**" for AY: 2023-24.(Enclosed in Annexure- V)
11. **It was resolved to recruit 2** teaching faculty for AY: 2023-24.(Enclosed in Annexure- VI)
12. **It was resolved to provide** a Class room for First year students for AY: 2023-24.
13. **It was resolved to provide** a Laboratory for First year students for AY: 2023-24.

The above resolutions were unanimously approved in the meeting.

  
**BOS Chairperson**

  
**Dean**

  
**HOD**

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.



**B.Sc. COMPUTER SCIENCE & INTERNET OF THINGS (2022-25) (CHOICE BASED CREDIT SYSTEM)  
CONSOLIDATED SCHEME**

Year	Sem	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits	
I	I	General English-I (3)(AECC-1)	Value Education and Personality Development (2)(AECC-2)	Fundamentals of Information Technology (4+1) (SEC-1)	Mathematics Foundation For Electronics (4)(Core-1)	Basic Electronics and Circuits (4+1) (Core-2)	Problem Solving and Programming in C * (4+1) (Core-3)	29	24	AECC=2 SEC=1 CORE=3
	II	General English-II (3) (AECC-3)	Indian Heritage and Culture (2) (AECC-4)	Computer Networks (4+1)(SEC-2)	Vector Calculus & Laplace Transforms (4) (Core-4)	Logic and Digital Circuits (4+1) (Core-5)	C++ and Data structures* (4+1)(Core-6)	29	24	AECC=2 SEC=1 CORE=3
II	III	Environmental Studies and Gender Sensitization (3) (AECC-5)	GE-1* (2+1)(ID)	Discrete Mathematics * (4)(Core-7)	Advanced Micro Processors * (4+1) (Core-8)	Computer Organization and Architecture (4) (Core-9)	Python Programming* (4+1) (Core-10)	30	25	AECC=1 GE=1 CORE=4
	IV	Probability and Statistics (4) (GE-2)	Smart Sensor Technologies (3)(SEC-3)	Advanced Micro-controller based systems (4+1) (Core-11)	Fundamentals of IOT and Robotics (3+1) (Core-12)	Embedded System Design and Programming (4+1) (Core-13)	Programming with Raspberry Pi (4+1) (Core-14)	30	26	GE=1 SEC=1 CORE=4
III	V	Privacy and Security in IOT/ Artificial Intelligence (4) (DSE-1)	Data Analytics for IoT (3) (SEC-4)	Mobile Application Development for IOT (4+1)(Core-15)	IOT Architecture and its Protocols (4) (Core-16)	Cloud Computing and Virtualization (4+1) (Core-17)	Database Management Systems (4+1)(Core-18)	29	26	SEC=1 DSE=1 CORE=4
	VI	Applications of IOT/ Machine Learning (4)(DSE-2)	Adhoc and Wireless Sensor Networks/ IOT Automation (4) (DSE-3)	Parallel Programming (4+1) (Core-19)	MAJOR PROJECT(6) (DSE-4)			29	19	DSE=3 CORE=1
Legend: 1. Ability Enhancement Compulsory Course (AECC) 2. Generic Elective (GE) 3. Skill Enhancement Course (SEC) 4. Core 5. Discipline-Specific Elective (DSE) GE: * Introduction to IOT using Arduino				: 05 : 02 : 04 : 19 : 04				176	144	

*P.V. Sudha*

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.



Loyola Academy, Alwal, Secunderabad - 500 010

**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**B.Sc. (COMPUTER SCIENCE AND INTERNET OF THINGS)**  
**THIRD SEMESTER**  
**ACADEMIC YEAR 2023-24 OF 2022-25 BATCH (CBCS)**

Sl. No.	Part	Course Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1	I	ES23301	Environmental Studies and Gender Sensitization (AECC-5)	3	3	40	60	100	3
2	I	G23CSIOT1T	Introduction to IoT using Arduino GE-1*(ID)	2	3	40	60	100	2
3	II	CSIOT23301	Discrete Mathematics (Core-7)	5	3	40	60	100	4
4	II	CSIOT23302	Advanced Micro Processors (Core-8)	5	3	40	60	100	4
5	II	CSIOT23303	Computer Organization and Architecture (Core-9)	4	3	40	60	100	4
6	II	CSIOT23304	Python Programming (Core10)	5	3	40	60	100	4
<b>PRACTICALS</b>									
7	II	G23CSIOT1P	Introduction to IoT using Arduino – Lab GE-1*(ID)	2	3	40	60	100	1
8	II	CSIOT23305	Advanced Micro Processors–Lab (Core-9)	2	3	40	60	100	1
9	II	CSIOT23306	Python Programming -Lab (Core10)	2	3	40	60	100	1
<b>Total</b>				<b>30</b>	<b>-</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>25</b>

\*Ability Enhancement Compulsory Course (AECC)

\* Skill Enhanced Compulsory Course (SEC)

B.Sc. (Computer Science and Internet of Things)

Academic Year 2023-24 (CBCS)

*P.V. Subbarao*

**PROFESSOR**  
1  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.



Loyola Academy, Alwal, Secunderabad - 500 010

**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF COMPUTER SCIENCE  
B.Sc. (COMPUTER SCIENCE AND INTERNET OF THINGS)  
FOURTH SEMESTER  
ACADEMIC YEAR 2023-24 OF 2022-25 BATCH (CBCS)**

Sl. No.	Part	Course Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1	I	BS23401	Probability and Statistics( <b>GE-2</b> )	4	3	40	60	100	4
2	I	CSIOT23401	Smart Sensor Technologies ( <b>SEC-3</b> )	3	3	40	60	100	3
3	II	CSIOT23402	Advanced Micro-controller based systems ( <b>Core-11</b> )	4	3	40	60	100	4
4	II	CSIOT23403	Fundamentals of IOT and Robotics ( <b>Core-12</b> )	3	3	40	60	100	3
5	II	CSIOT23404	Embedded System Design and Programming ( <b>Core-13</b> )	4	3	40	60	100	4
6	II	CSIOT23405	Programming with Raspberry Pi ( <b>Core-14</b> )	4	3	40	60	100	4
<b>PRACTICALS</b>									
7	II	CSIOT23406	Advanced Micro-controller based systems-Lab ( <b>Core-11</b> )	2	3	40	60	100	1
8	II	CSIOT23407	Fundamentals of IOT and Robotics - Lab ( <b>Core-12</b> )	2	3	40	60	100	1
9	II	CSIOT23408	Embedded System Design and Programming -Lab ( <b>Core-13</b> )	2	3	40	60	100	1
	II	CSIOT23409	Programming with Raspberry Pi - Lab( <b>Core-14</b> )	2	3	40	60	100	1
Total				<b>30</b>	-	360	540	900	26

\*Ability Enhancement Compulsory Course (A.E.C.C)

\*Skill Enhancement Course (SEC)

**B.Sc. (Computer Science and Internet of Things)**

**Academic Year 2023-24 (CBCS)**

PROFESSOR  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

*P.V. Sudhakar*

## ANNEXURE- II

### LIST OF BOARD OF EXAMINERS

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience (yrs)	Area of Specialisation
1	Mr.Sathish Yellanki	Industry expert	SkyEss Techno Solutions Pvt Ltd	Ph No- 8142190906 yellanki@skyessmail.com	15	Computer Science
2	Mr.Gouli Vamshi krishna	Industry &subject expert	CEO of Data Computing	628030750	05	Data science
3	Dr.S.Naga Prasad	Asso.Professor	Tara Govt College,Sangareddy	7893606134 nagkanna80@gmail.com	18	Computer Science
4	Dr.G.N.R. Prasad	Assoc. Professor	CBIT,Hyderabad	9885191683 gnrp@cbit.ac.in	20	Computer Science
5	Mrs. T.Pushpa Latha	Asst. professor	St. Ann's College for Women, Mehidipatnam	8106828882 pushpareddy28@gmail.com	16	Computer Science
6	Mrs. K. Sandhya Sree	Asst. Professor	St.Pious X Degree, and PG College for Women, Nacharam, Hyderabad	9866235230 sandhyagude69@gmail.com	16	Computer Science
7	Mr. N.Bhasker Rao	Asst. Professor	AV College of Arts Science & Commerce, GaganMahal, Hyd	9885639321 braon4@gmail.com	23	Computer Science

*P.V. Godhena*

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

8	Mr.Premson(Alumnus)	Manager	Manager, Oracle Corps.	premsom@gmail.com	12	Computer Science
9	Mr.Sreekar	Data Analyst	Deloitte Consulting	Mno:9966424674	05	Computer Science
10	R Sravan Kumar	Associate Professor	Aurora Degree and PG College, Chikkadpally	9490558958 Saisravan16@gmail.com	18	Department of Electronics
11	G. Shridhar	HOD	HRD Degree and PG college, Narayanaguda, Hyderabad	9951435383 sridharpravalika@gmail.com	16	Department of Physics and Electronics
12	P.Bhagyasree	Faculty	St. Ann's Degree College for Women, IDA Mallapur Road, Hyderabad-500076.	7674056322 Bhagyasri.27@gmail.com	8	Department of Electronics
13	Dr. Naresh Nelaturi	Data scientist	Cognitive care India Labs Pvt Ltd	9000534551		
14	Shankar Gandrakota	Sr Tech Lead	Cyient, Hyderabad			

*P.V. Sridhar*

**PROFESSOR**  
 Department of Computer Science & Engineering  
 University College of Engineering (A)  
 Osmania University  
 Hyderabad-500 007.

**ANNEXURE- III- Indent for Library Books**

**Proposal to procure books for the library and the proposed amount is Rs. 5,42,159/-.**

S. No	Subject Name	Name of The Book	Author Name	Publication Name	No Of Copies	Cost
1	Environmental Studies & Gender Sensitization	Towards a World of Equals : A Bilingual Text on Gender	A. Suneetha, Uma Bhrugubanda, Duggirala Vasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, Gogu Shyamala, Deepa Sreenivas and Susie Tharu. 201	Hyderabad: Telugu Akademi	5	195*5
		Environmental Studies- from Crisis to Cure.	Rajagopalan R. 2015.	Third Edition. Chennai: Oxford University Press.	5	1000*5
		A Text Book of Environmental Studies	Dr D K Asthana and Dr Meera Asthana. 2014.	Revised Edition. New Delhi: S. Chand & Company	5	337*5
		Perspectives in Environmental Studies.	Anubha Kaushik and C.P. Kaushik Published. 2016	Fifth Edition. New Delhi: New Age International	5	291*5
		More Than One Million Women Are Missing	Sen Amartya	New York Review of Books 37.20 (20 December 1990).	5	536*5
		We Were Making History...Life Stories of Women in the Telangana People's Struggle	Sen Amartya	New Delhi: Kali for Women. 1998	5	5000*5
		Vantillu ( The Kitchen)". Women Writing in India: 600 Bc to the Present. Volume II.	Vimala.	The 20 <sup>th</sup> Century. Ed. Suse Tharu and K.Lalitha. Delhi: Oxford University Press, 1995.599-601.	5	5247*5
		Women's Work and its Impact on Child Health and Nutrition	Shatrughna, Veena.	Hyderabad: National Institute of Nutrition, Indian Council of Medical Research .1993	5	4523*5
					85,645	
2	Introduction to IOT using Arduino	Basic Electronics	Bernard Grob 10 <sup>th</sup> Edition	TMH	5	900*5
		Digital Electronics: Circuits and systems	Puri V.K., 1997 1 <sup>st</sup> Edition	TMH	5	650*5
		The Internet of Things: Key Applications and Protocols	Olivier Hersent, David Boswarthick, and Omar Elloumi	WileyPublications	5	382.91 *5
		Electronic Instrumentation and Measurement Techniques	Helfrick Albert D. and Cooper W. D	Prentice Hall India	5	350*5

		Electronic Instrumentation	Kalsi H. S	Tata McGraw-Hill Education	5	268*5
					14184	
3	Discrete Mathematics	Discrete Mathematics and its Applications	Kenneth H. Rosen	Tata McGraw – Hill	5	621*5
		Discrete Mathematics with Applications	Susanna S. Epp,	4th edition, Wadsworth Publishing Co. Inc.	5	2,092*5
		Elements of Discrete Mathematics A Computer Oriented Approach	C L Liu and D P Mohapatra	3rd Edition by, Tata McGraw – Hill	5	300*5
		Discrete Mathematical Structure and It's Application to Computer Science	J.P. Tremblay and R. Manohar	TMG Edition, Tata McGraw-Hill	5	1250*5
		Discrete Mathematics	Norman L. Biggs	2nd Edition, Oxford University Press	5	840*5
		Schaum's Outlines Series	Seymour Lipschutz, Marc Lipson	Oxford University Press	5	999*5
		Discrete Mathematics	Veerarajan,	Tata McGraw – Hill	5	475*5
					32,885	
4	Fundamentals of IoT and Robotics	Internet of Things - A Hands-on Approach	Vijay Madiseti and Arshdeep Bahga	First Edition, University Press, 2015.	5	699*5
		Introduction to Robotics Analysis, Controls, Application	Saeed B. Niku,	Wiley, 2019, Third Edition.	5	1100*5
					8995	
5	Embedded System Design and Programming	Programming Embedded Systems in C and C++,	Michael Barr, O' Reilly	First Edition, Tata McGraw-Hill	5	675*5
		Introduction to embedded systems	Shibu K V	Tata McGraw-Hill	5	595*5
		Embedded Systems	Rajkamal	Tata McGraw-Hill	5	590*5
					9300	
6	Programming with Raspberry Pi	Python Programming for Raspberry Pi	Richard Blum, Christine Bresnahan	Second edition, 2016 by Pearson Education, Inc	5	2733*5
		Programming the Raspberry Pi :Getting started with Python	Simon Monk	Second edition	5	1244*5
					19,885	
7	Probability and Statistics	Fundamentals of statistics (pp.18-1).	Gupta, S. C. (2011).	New Delhi, India: Himalaya publishing house.	5	795*5

		Statistical Methods	Gupta, S. P. (1978).	1978. 46 <sup>th</sup> Edition	5	634*5
		Probability and statistics for engineering and science.	Dcovre, J. (1987).	Brooks/Cole, Belmont, CA.	5	820*5
		Probability & Statistics for Engineers.	Richard A. Johnson, Miller, Freund	PHI Publications	5	1929*5
					20,905	
8	Smart Sensor Technologies	Sensor Technologies	Michael J Mc Grath and Clíodhna Ni Scanaill	Xpress Open	10	3138*5
		Technologies for Smart Sensors and Sensor Fusion	Kevin Yallup & Krzysztof Iniewski	CRC Press, 2014	10	7716*5
		Understanding Smart Sensors	Randy Frank	Artech House – Second Edition, 2000	5	14,364*5
		Introduction to IoT	Sudip Misra	Cambridge University, 2021 Ed	5	749*5
					1,29,835	
9	Advanced Microcontroller based Systems	The 8051 Microcontrollers and Embedded Systems	Muhammad Ali Mazidi and JanicegillipsieMazidi	Pearson Education Asia, 4th Reprint, 2002	10	699*5
		PIC Microcontroller and Embedded Systems	Muhammad Ali Mazidi	Pearson Education Asia, 2008.	10	480*5
		Text book of Electronics B.sc III year	vol.III	Telugu Akademi	5	204*5
		The 8051 Microcontroller – architecture, programming and applications	Kennth J. Ayala	Penram International Publishing, 1995	5	6219*5
		Micro controllers-Theory and Applications	Ajay V.Deshmukh		5	619*5
		Micro-controller 8051	D. KarunaSagar	Narosa Publications (2011).	5	1114*5
					46,675	
10	Advanced Micro Processors	Microprocessors and Interfacing Programming and Hardware	Douglas V.Hall	2nd Edition, Tata McGraw-Hill publishing company Limited, New Delhi, 1994	5	395*5

		Advanced Microprocessors and Peripherals	Ray A.K. & Bhurchandi K.M	Tata McGraw Hill, 3 <sup>rd</sup> edition, 2013	5	495*5
		Microcomputer Systems: The 8086/ 8088 Family Architecture, Programming and Design	Yn – cheng Liu and Gibson G. A.,	Prentice Hall of India, 2 <sup>nd</sup> edition, 2006.	5	690*5
		The Intel Microprocessors- Architecture, Programming and Interfacing	Barry B. Brey	Pearson Education India. Eighth Edition	5	305*5
		The 8088 and 8086 Microprocessors :Programming, Interfacing, Software, Hardware and Applications	Walter A.Triebe1 and Avatar singh	Prentice-Hall of India Private Limited, New Delhi, 1996..	5	299*5
					10920	
11	Computer Organization and architecture	Computer organization	V. Carl, G. Zvonko and S. G. Zaky	McGraw Hill, 1978	5	2482*5
		Computer Architecture - A Quantitative Approach	J. L. Hennessy and D. A. Patterson	Morgan Kauffman, 2011	5	8603*5
		Advanced Computer Architecture, Parallelism, Scalability, Programmability	Kai Hwang	McGraw Hill, 1993	5	699*5
		Computer organization	W. Stallings	PHI, 1987	5	674*5
		Modern Embedded Computing	P. Barry and P. Crowley	Morgan Kaufmann, 2012	5	2741*5
		Microprocessors, PC Hardware and Interfacing	N. Mathivanan	Prentice Hall, 2004	5	316*5
		Microcomputer Systems: The 8086/8088 Family	Y. C. Lieu and G. A. Gibson	Prentice Hall India, 1986.	5	240*5
					78775	
12	Python Programming	Python Programming	Thareja, Reema. 2017	3 <sup>rd</sup> Edition. New Delhi: Oxford HED	5	449*5
		Starting Out With Python	Tony Gaddis.	3 <sup>rd</sup> Edition	5	15,183*5
		Problem Solving and Python Programming	BalaGuruSwamy , E. 2017	1 <sup>st</sup> Edition. McGraw Hill Education	5	450*5

ANNEXURE – IV

UPGRADATION OF IOT LAB

BUDGET PROPOSAL AY: 2023-24

S. No.	Items	Estimated Amount(Rs)
1.	Computers -- Lenovo ThinkStation P348 – 22 inches monitor 60 with following configuration 16GB RAM, 1TB SSD and 11 <sup>th</sup> gen processor with internet connectivity :(60*Rs.96000/-)	2,00,000
2.	Project Kit Raspberry Pi 3 Model A+ - Rs: 8000/- (25*Rs:8000/-)	2,50,000
3.	MASM Software: MASM32 SDK Supplier: ASCENTRONICS 30 users cost:	-----
3.	Library Books	-----
4.	Seminars(State/National/International)	15,000
5.	Workshop	15,000
6.	Field Visit	10,000
7.	Stationary/Infrastructure 60 computer tables and chairs 3 AC's: 3*45000:Rs.1,35,000 13 KV UPS: 3,00,000 1 Class Room required for NCSIoT  1 projector: Rs.70,000 1 Almara: 5000 1 Book rack: 10000	85,000
	Guest Lecture	15,000
9.	Miscellaneous(any day to be celebrated)	5,000
Total:		Rs. 5,95,000/-

*Suresh*

**HOD Signature**

*library 5,42,159*

*Anita*  
**Dean Signature**

ANNEXURE - VI

LIST OF FACULTY REQUIREMENT

S. no	Number of Faculty	Qualification	Workload
1	01	P. hD (CS) or M. Tech (CSE)	Semester-I-15 Hours Semester-II-5 Hours



**HOD Signature**



**Dean Signature**

# **LOYOLA ACADEMY**

(DEGREE & PG COLLEGE)

OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA

(Autonomous and Affiliated to Osmania University)

Re-accredited with 'A' Grade (III Cycle) by NAAC

A "College with Potential for Excellence" by UGC

[www.loyolaacademy.edu.in](http://www.loyolaacademy.edu.in) Ph: 040-27862363/27860077 Fax: 040-27867939

## **SCHOOL OF INFORMATICS**

### **Department of B.Sc. Computer Science & Cloud Computing**

**Year of Inception:2022**



**Minutes of 2<sup>nd</sup> meeting of the Board of Studies held on  
Thursday, 19<sup>th</sup> January 2023 at 10.00 a.m.**

**Academic Year: 2023-24 for the batch of 2022-25**

**LOYOLA ACADEMY, DEGREE & PG COLLEGE**  
 (An autonomous institution-affiliated to Osmania University, Hyderabad)  
 www.loyolaacademy.edu.in

2<sup>nd</sup> Board of Studies Meeting  
 Department of B.Sc. Computer science & Cloud Computing  
 Venue: Xavier Hall, Admin Block.  
 Loyola Academy

Date & Time: 19/01/23 & 10.00 A.M.

**AGENDA**

BOS/CSCC 2.1	:	Welcome address and Opening Remarks by Chairman, Board Of Studies Mr. K Siva Rama Krishna in the Department of B.Sc Computer science & Cloud Computing.
BOS/CSCC 2.2	:	Action Taken Report of 1 <sup>st</sup> meeting of Board of Studies held on August 22, 2022. Introduced tentative scheme and syllabus for I and II semesters of 2022-23, for the batch of 2022-25. The scheme and first year syllabus were approved by the board.
BOS/CSCC 2.3	:	Business brought forward by the Chairman, Board of studies – 2.3.1 : Proposal to approve the Consolidated scheme for II Year and syllabus of III and IV semesters for the academic year of 2023-2024 for the batch of 2022-2025 as per CBCS. The following are the subjects for 3 <sup>rd</sup> semester. a. Environmental Studies and Gender Sensitization b. Web Programming with practical's (Generic Elective & Inter disciplinary) c. Database Management Systems with practical's d. Discrete Mathematics e. Distributed Systems f. Java Programming with practical's  The following are the subjects for 4 <sup>th</sup> semester. a. Probability & Statistics b. Machine Learning c. Python Programming with practical's d. Web Technologies with practical's e. Cloud Computing Architecture with practical's f. Software Engineering 2.3.2 :Proposal to approve the list of examiners(Annexure –II) 2.3.3 :Proposal to approve list of Library books(Annexure –III) 2.3.4 :Proposal to approve the annual budget (Annexure – IV) 2.3.5 :Proposal to approve requirement of teaching faculty(Annexure– V) 2.3.6 :Proposal to approve the setup a new lab with high-end configuration for 55 Systems with internet connection(55* 60000) and cloud subscription (4,50,000) annually
BOS/CSCC 2.4	:	Suggestions given by BOS Members
BOS/CSCC 2.5	:	Concluding remarks & Vote of Thanks



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DEPARTMENT OF COMPUTER SCIENCE & CLOUD COMPUTING  
BOARD OF STUDIES MEETING  
Thursday, 19<sup>th</sup> January, 2023, 9:30 AM

1	Rev Fr Dr. L. Joji Reddy SJ, Principal	
2	Rev Fr Arul Jothi SJ, Vice-Principal, UG	
3	Dr. N. Maria Das, Lay Vice-Principal, UG, Asst. Prof in Economics	
4	Dr. P.V Sudha, Professor in CSE, Dean Of Informatics, OU	
5	Dr. Naresh Nelaturi, Data Scientist, Cognitive Care India Labs Pvt Ltd, Subject Expert	
6	Mr. Shankar Gandrakota, Sr Tech Lead, Cyient, Hyderabad, Industry Expert	
7	Dr. K. Rama, IQAC Coordinator, Asst. Prof in Electronics	
8	Dr. N. Suchitra Naidu Dean Of Academic, Asst. Prof in Biotechnology	
9	Dr. G. Anitha Mary, Dean of Informatics	
10	Mr. K. Siva Rama Krishna, Chairman, BOS, Computer Science & Cloud Computing	
11	Mr. Samuel Prasad, Assistant Professor in English	

Loyola Academy  
Degree & PG College  
Alwal, Secunderabad- 500010

**MINUTES OF THE BOS MEETING**

**Date:**19/1/23**Venue:** Xavier Hall

**Time:**10:00 AM

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the Program, **B.Sc Computer Science and Cloud Computing.** **Mr K. Siva Rama Krishna** welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the **I** Board of Studies meeting held on **22<sup>nd</sup> August 2022** were communicated to the members. The suggestions received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow the Consolidated Scheme and syllabus for Second academic year 2023-2024 (3<sup>rd</sup> and 4<sup>th</sup> semester) for the batch 2022-2025 (Enclosed in Annexure-I).**
4. **It was resolved to introduce the following subjects in 3<sup>rd</sup> Semester.**

S.No	Title of Subject
1.	Environmental Studies and Gender Sensitization
2.	Web Programming with practical's (Generic Elective & Inter disciplinary)
3.	Database Management Systems with practical's
4.	Discrete Mathematics
5.	Distributed Systems
6.	Java Programming with practical's

Above subjects are offered in 3<sup>rd</sup> Semester from the AY: 2023-24.

**It was resolved to introduce the following subjects in 4<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Probability & Statistics
2.	Machine Learning
3.	Python Programming with practical's
4.	Web Technologies with practical's
5.	Cloud Computing Architecture with practical's
6.	Software Engineering

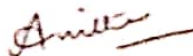
Above subjects are offered in 4<sup>th</sup> semester from the AY: 2023-24

5. It was resolved to approve the list of examiners AY: 2023-24.(Enclosed in Annexure- II)
6. It was resolved to purchase library books worth (Rs. 4,03,000) for AY: 2023-24.(Enclosed in Annexure- III)
7. It was resolved to sanction a budget of (Rs. 38,58,000) for AY: 2023-24.(Enclosed in Annexure- IV).
8. It was resolved to organise an international Conference/Workshop.
9. It was resolved to recruit (02) teaching faculty for AY: 2023-24.(Enclosed in Annexure- V)
10. It was resolved to provide a Laboratory for Second year students for AY: 2023-24.

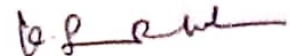
The above resolutions were unanimously approved in the meeting.



**BOS Chairperson**



**Dean**



**HOD**


**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.



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**B.Sc. COMPUTER SCIENCE & CLOUD COMPUTING (2022-25) (CHOICE BASED CREDIT SYSTEM) [PROPOSED]**

Year	Sem	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits	
I	I	General English-I (3) (AECC-1)	Value Education & Personality Development (2) (AECC-2)	Fundamentals of IT (4+1) (SEC-1)	Mathematics- I (4) (Core-1)*	Operating Systems (4+1) (Core-2)	Problem Solving and Programming Through C* (4+1) (Core-3)	29	24	AECC=2 SEC=1 CORE=3
	II	General English-II (3) (AECC-3)	Indian Heritage and Culture (2) (AECC-4)	IT Hardware & Networking(4+1) (GE-1)	Mathematics- II (4) (Core-4)*	Computer Networks (4+1) (Core-5)	Data Structures through C* (4+1) (Core-6)	29	24	AECC=2 GE=1 CORE=3
II	III	Environmental Studies & Gender Sensitization (3) (AECC-5)	Web Programming (ID) (2+1) (GE-2)*	DBMS *(4+1) (Core-7)	Discrete Mathematics*(4) (SEC-2)	Distributed Systems (4) (Core-8)	Java Programming* (4+1) (Core-9)	30	24	AECC=1 GE=1 SEC=1 CORE=3
	IV	Probability & Statistics(4) (SEC-3)	Machine Learning (4) (Core-10)	Python Programming (4+1)(Core-11)	Web Technologies (3+1) (SEC-4)	Cloud Computing Architecture(4+1) (Core-12)	Software Engineering(4) (Core-13)	29	26	SEC=2 CORE=4
III	V	Cryptography & Network Security/Internet of Things (4) (DSE-1)	Cloud Based Application Development & Deployment (4+1) (Core-14)	Cloud Backup & Disaster Recovery (4) (Core-15)	DEVOPS (4+1) (Core-16)	Deep Learning (3+1) (Core-17)	Bigdata with SPARK (4) (Core-18)	29	26	DSE=1 SEC=1 CORE=4
	VI	Cloud Strategy Planning & Management(4) (Core-19)	Cyber Security(4+1) (Core-20)	Software Testing (4) (Core-21)	Project Work (6) 15hrs (DSE-2)			29	19	DSE=1 CORE=3
Legend:		1. Ability Enhancement Compulsory Course (AECC)		: 05						
		2. Generic Elective (GE)		: 02						
		3. Skill Enhancement Course (SEC)		: 04						
		4. Core		: 21						
		5. Discipline-Specific Elective (DSE) OR PROFESSOR		: 02						
				<b>Total</b>				<b>175</b>	<b>143</b>	

  
 Department of Computer Science & Engineering (A)  
 University College of Engineering  
 Osmania University  
 Hyderabad-500 007.



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## SCHEME OF INSTRUCTIONS FOR B.Sc COMPUTER SCIENCE & CLOUD COMPUTING

### SECOND YEAR SUBJECTS FOR AY (2023-24) OF BATCH 2022-25

III SEMESTER			IV SEMESTER		
S.No.	Subject Code	Theory	S.No.	Subject Code	Theory
1	ES18301	Environmental Studies and Gender Sensitization	1	BS23401	Probability & Statistics
2	G23CSCC1T	Web Programming (GE-2)(IDE)	2	CSCC23401	Machine Learning
3	BS23301	Database Management Systems	3	CSCC23402	Python Programming
4	BS18335	Discrete Mathematics	4	CSCC23403	Web Technologies
5	CSCC23301	Distributed Systems	5	CSCC23404	Cloud Computing Architecture
6	BS18336	Java Programming	6	CSCC23405	Software Engineering
S.No.	Subject Code	Practicals	S.No.	Subject Code	Practicals
7	G23CSCC1P	Web Programming (GE-2)(IDE)	7	CSCC23406	Python Programming
8	CSCC23302	Database Management Systems	8	CSCC23407	Web Technologies
9	CSCC23303	Java Programming	9	CSCC23408	Cloud Computing Architecture

*A.V. Gadda*

PROFESSOR  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

**ANNEXURE II**

**LIST OF BOARD OF EXAMINERS**

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience	Area of Specialisation
1	Mrs. M Krishna Shanthi	Associate Professor	Bankatlal Badruka College for IT	9963100851 mksanthi9@gmail.com	24 Years	Computer Science(C, C++, Data Structures, OS, Fundamentals of IT, DBMS, Networks, Cloud Computing, Introduction to Virtualization, Distributed Systems, OOSD, Software Engineering, Python
2	Mrs Krishna Veni S	Associate Professor	Bankatlal Badruka College for IT	9849202464 Sidhanthikris hnaveni109@gmail.com	22 Years	Computer Science(C, C++, Data Structures, OS, Fundamentals of IT, DBMS, Networks, Cloud Computing, Introduction to Virtualization, Distributed Systems, OOSD, Software Engineering, Python
3	Mrs S. Sunitha	Associate Professor	Bankatlal Badruka College for IT	9492051782 amruthabala2725@gmail.com	18 Years	Computer Science(C, C++, Data Structures, OS, Fundamentals of IT, DBMS, Networks, Distributed Systems, OOSD, Python

**ANNEXURE- III**

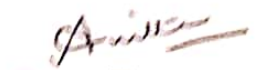
**BSc.CSCC-INDENT FOR LIBRARY BOOKS**

S.No.	Title of the book& Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1.	Behrouz Forouzan A. Computer Science, A Structured Programming Approach using C. 3rd Edition.	Cengage Learning	25	18000
2.	Byron, Gottfried Programming with C. 3 <sup>rd</sup> Edition	India: Schaum's Outlines Series.	25	12,000
3.	Silber Schatz Abraham, Galvin Peter, B. and Gagne Greg. 2006. <b>Operating System Concepts.</b> 6 <sup>th</sup> Edition. India: Wiley.	Addison Wesley Publications	25	15,000
4.	Curtin Dennis, P. and Foley, Kim. 2000. <b>Information Technology – The Breaking Wave.</b> 7 <sup>th</sup> edition.	Tata McGraw Hill Publications: New Delhi	20	12,000
5.	Williams Brian, K. and Sawyer Stacey, C. 2007. <b>Using Information Technology – A Practical Introduction to Computers and Communications</b> 6 <sup>th</sup> edition.	Tata McGrawHill Publications: New Delhi	20	10,000
6	Zafar Ahsan. <b>Differential Equations and their Applications.</b> 2 <sup>nd</sup> Edition.	Prentice Hall of India	20	16,000
7	B.S. Grewal. 2014. <b>Higher Engineering Mathematics.</b> 3 <sup>rd</sup> Edition.	Khanna Publishers. India: New Delhi	15	15,000
8.	Meyers Mike. 2012. <b>Managing and Troubleshooting PCs.</b> 4 <sup>th</sup> Edition.	Tata McGraw Hill New Delhi	20	20,000
9	Vasistha, A.R and Dr.Agarwal, D.C. 2015. <b>Vector Calculus.</b> 9 <sup>th</sup> Edition.	Meerut: Krishna Publications.	25	10,000
10	Vasistha, A.R and Vasistha, A.K.2014. <b>Matrices.</b>	Meerut : Krishna Prakashan Media	25	10,000
11	Forouzan, Beharouz A. 2011. <b>Data Communications and Networking.</b> 3 <sup>rd</sup> Edition.	New Delhi: Tata Mc Graw Hill.	25	10,000
12	Forouzan, Beharouz A. 2010. <b>TCP/IP Protocol Suite.</b> 3 <sup>rd</sup> Edition.	New Delhi: Tata McGraw Hill.	25	10,000
13	Kanetkar, Yashvanth. 2008. <b>Data Structures through C.</b>	India: BPB Publications.	25	10,000
14	<b>Sebasta W. Robert, Programming the Worls Wide Web.</b> 4 <sup>th</sup> Edition Pearson Publications.	Pearson Publications.	20	10,000
15	Deitel H.M. <b>Internet &amp; World Wide Web, How to Program.</b> 4 <sup>th</sup> Edition Pearson Publications	Pearson Publications.	20	10,000
16	Silberschatz, Abraham. Korth, H.F. Sudharshan,	New York: Tata	20	10,000

	<b>S.Database System Concepts. 5<sup>th</sup> Edition.</b>	McGraw Hill.		
17	Bayross, Ivan.SQL,PL/SQL ( The programming language of oracle).3 <sup>rd</sup> RevisedEdition. Mumbai:BPB Publications.	BPB Publications.	20	10,000
18	Pramod J. Sadalage, Martin Fowler. NoSQL Distilled, Addison Wesley 2013	Addison Wesley 2013	20	10,000
19	Tremblay Jean, P. and Manohar, R. 2007. <b>Discrete Mathematical Structures with Applications to Computer Science.</b> New Delhi: McGraw-Hill. (For Unit I)	McGraw-Hill. (For Unit I)	20	10,000
20	Mott Joe, L. Kandel Abraham. And Baker Theodore, P. 1999. <b>Discrete Mathematics for Computer Scientists and Mathematicians.</b> 2 <sup>nd</sup> Edition. New Delhi: PHI (For Units II,III and IV)	New Delhi: PHI	20	10,000
21	Burton David, M. 2010. <b>Elementary Number Theory.</b> 7 <sup>th</sup> Edition. New Delhi: McGraw-Hill. (For Unit V)	New Delhi: McGraw-Hill.	20	10,000
22	Andrew S. Tanenbaum and Maarten Van Steen. <b>Distributed Systems.</b> PHI 2nd Edition, 2009.	PHI 2nd Edition, 2009.	40	15,000
23	R. Hill, L. Hirsch, P. Lake, S. Moshiri, Guide to Cloud Computing, Principles and Practicel, Springer, 2013.	Springer, 2013.	20	10,000
24	R. Buyya, J. Borberg. A. Goscinski, Cloud Computing-Principles and Paradigms, Wiley, 2013.	Wiley, 2013.	20	10,000
25	Schildt Herbert. 2002. <b>Java 2: The Complete Reference.</b> 5 <sup>th</sup> Edition. New Delhi: McGraw-Hill.	New Delhi: McGraw-Hill.	20	10,000
26	Gupta, S. C. (2011). <b>Fundamentals of statistics</b> (pp. 18-1). New Delhi, India: Himalaya publishing house.	Himalaya publishing house.	25	10,000
27	Gupta, S. P. (1978). <b>Statistical Methods</b> 1978. 46 <sup>th</sup> Edition.	Himalaya publishing house.	20	10,000
28	DuttSaikat, Chandra Mouli Subramanian, Das Amit Kumar.	Pearson India Education Pvt Ltd. India: New	20	10,000

	2019. <b>Machine Learning</b> , 1 <sup>st</sup> Edition. Pearson India Education Pvt Ltd. India: New Delhi	Delhi		
29	Jose, Jeeva, 2020. <b>Introduction to Machine Learning Using Python</b> , 1 <sup>st</sup> Edition. Khanna Book Publishing Co. Pvt Ltd. India: New Delhi.	Khanna Book Publishing Co. Pvt Ltd. India: New Delhi.	20	10,000
30	Rao, Dr. R. Nageswara. <b>Core Python Programming</b> , 2 <sup>nd</sup> Edition. Dreamtech Press.	Dreamtech Press.	20	10,000
31	Data Science Essentials in Python: Collect, Organize, Explore, Predict, Value. DmitryZinoriev, The Pragmatic Programmers LLC, 2016	The Pragmatic Programmers LLC, 2016	20	10,000
32	Introduction to Python Programming, Gowrishankar S., Veenu A. CRC Press, Taylor & Francis Group, 2019	CRC Press, Taylor & Francis Group, 2019	20	10,000
33	<b>Pro Mean Stack Development</b> , ELadElrom, Apress	Apress	20	10,000
34	Singh, Shalendra. 2018. <b>Cloud Computing</b> .	New Delhi: Oxford University Press	20	15,000
35	Pressman, Rogers S. 2015. <b>Software Engineering, A practitioner's Approach</b> . 6 <sup>th</sup> Edition. McGraw Hill Education	McGraw Hill Education	20	15,000
Total				4,03,000

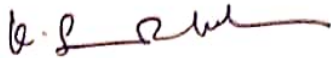
  
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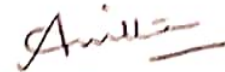
ANNEXURE-IV

BUDGET PROPOSAL AY: 2023-24

S.No.	Items	Estimated Amount(Rs)
1.	Computers(High-end Systems with 16Gb RAM and 1TB Hard Disk I7 Processor with internet connection and cloud subscription)	55*60000+4.5 lakhs Cloud subscription= 37,50,000
2.	Seminars(State/National/International)	10,000
3.	Workshop	10,000
4.	Field Visit	10,000
5.	Guest Faculty	15,000
6.	Stationary/Infrastructure(Lab Setup, Projector with screen, Almara, Book Rack)	60,000
7.	Miscellaneous(Any important day to be celebrated)	3000
	TOTAL	38,58,000



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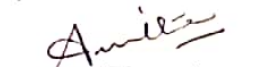
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ANNEXURE - V

LIST OF FACULTY REQUIREMENT

S.No	Number of Faculty	Qualification	Workload
1.	01	IT/IT-Cloud Specialization	I semester : 22 Hours II semester : 26 Hours
2.	01(Lab Technician)	M.Sc(Computer Science)/MCA	I semester : 20 Hours II semester : 20 Hours

  
HOD Signature

  
Dean Signature



**B.Sc COMPUTER SCIENCE AND CLOUD COMPUTING**

**BRIDGE COURSE SYLLABUS**

**FUNDAMENTALS OF COMPUTERS AND MATHEMATICS**

**Semester: I**

**No. of Lecture Hours: 30**

<b>UNIT-I</b>	<b>6hrs</b>
1. Computer Languages	2
a. Machine Level	
b. Assembly Level	
c. High Level	
d. Very High Level	
e. Natural Languages	
2. Algorithms – Definition and Examples	2
3. Flow Charts – Definition and Examples	2
<b>UNIT-II</b>	<b>6hrs</b>
1. Number Systems – Definition	4
a. Binary, Decimal, Octal and Hexa-Decimal and their conversions	
2. Basic on working of internet	
3. Basic on working of computer (Mathematically)	2
<b>UNIT-III</b>	<b>6hrs</b>
1. Types of Mainframe Systems – Working of Batch Processing Systems	3
2. MS-DOS Basic Commands	3
<b>UNIT-IV</b>	<b>6hrs</b>
<b>Elements of Number Theory:</b>	
1. Divisibility- Division algorithm	3
2. Euclid’ algorithm	3
<b>UNIT-V</b>	<b>6hrs</b>
<b>Elements of Number Theory:</b>	
1. Properties of G.C.D	3
2. Primes – Fundamental theorem of Arithmetic.	3

*B.V. Solla*

**PROFESSOR**  
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Osmania University  
Hyderabad-500 007.



**B.Sc COMPUTER SCIENCE AND CLOUD COMPUTING**

**SELF STUDY COURSE SYLLABUS**

**OBJECT ORIENTED SYSTEM DEVELOPMENT**

**Semester: IV**

**No. of Lecture Hours: 30**

<b>UNIT-I</b>	<b>6hrs</b>
1. Object Basics – Introduction, Objects, Attributes, Object Behaviour and Methods,	2
2. Objects responds to messages, Encapsulation, and information hiding, Class Hierarchy, Polymorphism, Object Relationships and Associations, Aggregations and Object Containment.	3
3. Advanced Topics – Object & Identity, Static and Dynamic Binding, Object Persistence and Meta – Classes.	1
<b>UNIT-II</b>	<b>6hrs</b>
1. Object Oriented Methodologies – Rumbaugh Methodology, The Booch Methodology, The Jacobson Methodologies,	2
2. Unified Modeling Language – Introduction, Static & Dynamic Models, UML Diagrams, UML Class Diagrams, Use-Case Diagram	4
<b>UNIT-III</b>	<b>6hrs</b>
1. UML Dynamic Modeling- UML Interaction Diagrams, Sequence diagrams, Collaboration diagrams, Statechart Diagrams, Activity Diagrams, Component and Deployment diagrams	4
2. Object Oriented Analysis Process :Identifying Usecases-Use Case Model	2
<b>UNIT-IV</b>	<b>6hrs</b>
1. Identifying Object Relationships, Attributes and Methods – Introduction, Associations Super-Sub Class Relationships, Aggregations, Case Study – Relationship Analysis for the ViaNet Bank ATM System	3
2. Class Responsibility – Identifying attributes and methods, Defining Attributes by Analyzing Use cases and Other UML Diagrams, Defining Attributes and Methods for vianet Bank Objects	3
<b>UNIT-V</b>	<b>6hrs</b>
1. Designing Classes – Introduction, The Process, Class Visibility-Designing Well-Designed Public, Private and Protected Protocols , Refining Attributes	3
2. Refining Attributes for the ViaNet Bank Objects, Designing Methods and Protocols, Designing Methods and Protocols-ViaNet Bank Objects, Packages and Managing Classes	3

**ESSENTIAL READING**

1. Bahrami. Ali Object Oriented Systems Development Mcgraw-Hill Publications

*B.V. Sridhar*

**DEPT. OF BBA ENTREPRENEURSHIP DEVELOPMENT**

**Year of Inception: 2022**



**Minutes of 2<sup>ND</sup> meeting of the Board Of Studies held on  
Friday, 20 January 2023 at 10.30 a.m.**

**Venue: Conference Room, Admin Block  
Loyola Academy, Degree & PG College**

## LOYOLA ACADEMY, DEGREE & PG COLLEGE

(An autonomous institution-affiliated to Osmania University, Hyderabad)

www.loyolaacademy.edu.in

2<sup>nd</sup> Board of Studies Meeting

Department of BBA Entrepreneurship Development

Venue: Conference Room, Admin Block,

Loyola Academy

Date & Time: 20/01/23 & 10.30 A.M.

### AGENDA

BOS/ED2 .1	:	Welcome address and Opening Remarks by Chairman, Board Of Studies in the Department of BBA Entrepreneurship Development
BOS/ED 2.2	:	Action Taken Report of 1 <sup>st</sup> meeting of Board of Studies. Introduced new scheme and new syllabus of 1 <sup>st</sup> year first and second semester for 2022-2025 batch was approved.
BOS/ED 2.3	:	Business brought forward by the Chairman, Board of studies – 2.3.1 : Approval for the syllabus of second academic year 2023 -2024-3 <sup>rd</sup> and 4 <sup>th</sup> semester for the batch 2022-2025 following are the courses to be offered in semester 3 and 4 respectively as per CBCS. Semester- 3 G23BBED1T/P- Start up management BBED23301- Fundamentals of Business Mathematics BBED23302- Research Methodology BBED23303- Marketing Management BBED23304- Financial Management BBED23305- Human Resource Management Semester -4 ES18401 – Environmental Studies BBED23401- Start-up management BBED23402- Corporate Governance and Business Ethics BBED23403- Mobile Commerce BBED23404- Production and Material Management BBED23405- Accounting for Management BBED23406- M-commerce practical Self study – Understanding self for effectiveness 2.3.2 : Approval for list of examiners 2.3.3 : Proposal for a budget of rs 75,000 for 2023 to 2024 2.3.4 : One Staff required for AY 2023 to 2024 2.3.5 : we require one class room for the upcoming first years of BBAED
BOS/ED 2 .4	:	Suggestions given by BOS Members
BOS/ED 2 .5	:	Requirement of Almirah and library rack
BOS/ED 2 .6	:	Concluding remarks & Vote of Thanks

CHAIRMAN  
BOS IN BUSINESS MANAGEMENT  
OSMANIA UNIVERSITY,  
Hyderabad-500 007, T.S., India.

4. To consider and approve the syllabus for Self-Study Course for second year students under regulation 2023.(Enclosed in Annexure- III)
5. To consider and approve the list of examiners for BBA Entrepreneurship Development- under regulation 2023.(Enclosed in Annexure- III)
6. To consider and approve the budget proposal for AY: 2023-24.
7. To consider and approve the requirement of teaching faculty for AY: 2023-24.
8. To consider and approve the requirement of library books for AY: 2023-24.
9. Suggestion given by the members –
10. Any other items.

The Board read through the report/recommendations of the expert committee and approved the scheme. Based on the suggestions given by the members, BOS resolved to recommend the Syllabus for Generic Elective, Bridge Course, Self-Study Course, Add-On course & list of examiners to the Academic Council for further approval. Mrs K.B.Sravanthi Assistant Professor in Management thanked all the members for their kind cooperation and the meeting came to an end.



BOS IN BUSINESS MANAGEMENT  
BOS IN BUSINESS MANAGEMENT  
Hyderabad University, India.  
Hyderabad, India.

Loyola Academy  
Degree & PG College  
Alwal, Secunderabad- 500010

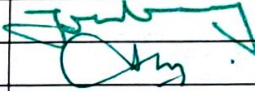


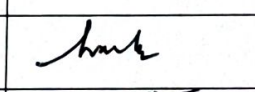
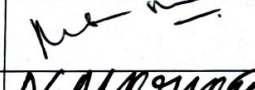
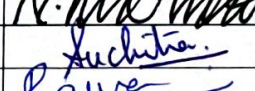
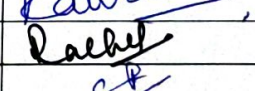
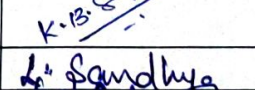

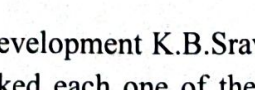
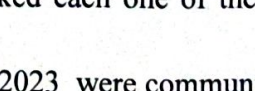
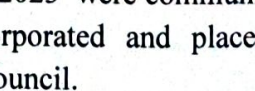
**MINUTES OF THE BOS MEETING**

**Date:** 20/01/2023

**Venue:** Conference Room

**Time:** 10.00 am

The Board Of Studies meeting of the program BBA Entrepreneurship Development was held on 20/01/2023 at admin block in the Conference room. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Fr.Dr.L.Joji Reddy SJ	Principal, LA	
2.	Fr. Arul Jothi SJ	Vice-Principal, LA	
3.	Dr. V.Sudha	University Nominee, Business Management, OU, Hyderabad	
4.	Mr K.J.A Swarup	Vice President-HR ITC Bhadrachalam (RTD)	
5.	Dr. Martina Rani	Associate Professor, Ashoka Business School	
6.	Dr. Maria Das . N.	Lay Vice-Principal, LA	
7.	Dr. T.Suchitra Naidu	Dean, Academics, LA	
8.	Dr.K.Rama	Dean IQAC, LA	
9.	Dr. Rachel Shalini T	Dean Management, LA	
10.	Mrs K.B.Sravanthi	Assistant professor, HOD BBAED, LA	
11.	N.Sandhya	Assistant professor, LA	
12.	Kaniganti Praveen Babu	Working at IBM	

The following points were discussed in the meeting,

1. The Chairman, BOS of the Program, BBA Entrepreneurship Development K.B.Sravanthi welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 2<sup>nd</sup> Board of Studies meeting held on 20/01/2023 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 2022 Academic council.
3. To consider and approve the syllabus of bridge course for first year students under regulation 2023. (Enclosed in Annexure-I)

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the Program, BBA Entrepreneurship Development, Mrs K.B.Sravanthi welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 1<sup>st</sup> Board of Studies meeting held on February 1<sup>st</sup> 2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. It was resolved to follow the Consolidated Scheme and syllabus for Second academic year 2023-2024 (3<sup>rd</sup> and 4<sup>th</sup> semester) for the batch 2022-2025 (Enclosed in Annexure-I).
4. It was resolved to introduce the following papers in 3<sup>rd</sup> Semester.

S.No	Title of Subject
1.	Start - up management
2.	Fundamentals of Business Mathematics
3.	Research Methodology
4.	Marketing Management
5.	Financial Management
6.	Human Resource Management

It was resolved to introduce the following papers in 4<sup>th</sup> Semester.

S.No	Title of Subject
1.	Environmental Studies
2.	Start - up management
3.	Corporate governance and Business Ethics
4.	Mobile Commerce T/P
5.	Production and Material Management
6.	Accounting for Management

5. It was resolved to approve the list of examiners AY: 2023-24.(Enclosed in Annexure- II)
6. It was resolved to purchase library books with a budget of Rs 6,800 for AY: 2023-24.(Enclosed in Annexure- III)
7. It was resolved to sanction a budget of Rs 76,800/-for AY: 2023-24.(Enclosed in Annexure- IV).
8. It was resolved to organise an International Conference/Workshop with a budget of Rs 25,000/-
9. It was resolved to recruit one teaching faculty for AY: 2023-24.(Enclosed in Annexure- V)
10. It was resolved to provide a classroom for First year students for AY: 2023-24.

The above resolutions were unanimously approved in the meeting.

BOS Chairperson

*V. Sudha*

**CHAIRMAN**

**BOS IN BUSINESS MANAGEMENT TELANGANA, INDIA**

**SMARTA UNIVERSITY,**

**Hyderabad-500 007, T.S., India.**

Principal

**PRINCIPAL**

**LOYOLA ACADEMY**

**OLD ALWAL, SECUNDERABAD-500 010**

Dean

HOD

*K.B.S.*


**LOYOLA ACADEMY**  
**Department of B.B.A.ED (2022-25 Batch) (Choice-Based Credit System) FROM ACADEMIC YEAR 2022-23**



Semester	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits	
I	Business English-1(3) (AECC-1)	Indian Heritage and Culture (2) (AECC-2)	Computers in Management and fundamentals of IT (4+1) (SEC-1)	Management foundations(5) (GE-1 (DS))	Introduction to Entrepreneurship P-I (4+1) (Core-1)	Financial Accounting (5) (Core-2)	29	25	AECC-2 GE-1 SEC-1 CORE-2 DSE-0
II	Business English-II (3) (AECC-3)	Value Education & Personality Development (2) (AECC-4)	Fundamentals of Business stats (4+1) (SEC-2)	Organisational Behaviour (5) (GE-2 (DS))	Introduction to entrepreneurship -II(5) (Core-3)	Managerial Economics (5) (Core-4)	29	25	AECC-2 GE-1 SEC-1 CORE-2 DSE-0
III	Inter Disciplinary GE (2+1)	Fundamentals of Business Mathematics(4) (sec-3)	Research Methodology (5) (Core-5)	Marketing Management (5) (Core-6)	Financial Management(5) (Core-7)	Human Resource Management (5) (Core-8)	29	26	AECC-0 GE-1 SEC-1 CORE-4 DSE-0
IV	Environmental Studies (3) (AECC-5)	Start - up Management (4) (SEC-4)	Corporate Governance and business ethics (4) (Core-9)	Mobile commerce (4) (Core-10)	Production and material management (5) (Core-11)	Accounting for management (5) (Core-12)	29	26	AECC-1 GE-0 SEC-1 CORE-4 DSE-0
V	Financial markets and institutions / Fundamentals of investment management(4) (DSE-1)	Retail marketing and customer relationship/international marketing and export management (4) (DSE-2)	Brand management (5) (Core-13)	Strategic Management (4) (Core-14)	Business Laws (5) (Core-15)	Operations Research(4+1) (Core-16)	29	27	AECC-0 GE-0 SEC-0 CORE-4 DSE-2
VI	Leadership & Change Management/ Talent & Knowledge Management (4) (DSE-3)	Rural marketing / service marketing (4) (DSE-4)	Project Management (4) (Core-17)	Business Intelligence (5) (Core-18)	International Business (5) (Core-19)	Project (2)	29	24	AECC-0 GE-0 SEC-0 CORE-3 DSE-2
<b>AECC (Ability Enhancement Compulsory Course) : 05</b>									
<b>GE (Generic Elective) : 02</b>									
<b>SEC (Skill Enhancement Course) : 04</b>									
<b>Core : 19</b>									
<b>DSE (Discipline Specific Elective) : 04</b>									
<b>Inter Disciplinary GE (Start-up management) : 01</b>									
<b>TOTAL</b>							<b>174</b>	<b>153</b>	

**D. SREERAMULU**  
M.B.A., LL.B., Ph.D.  
PROFESSOR  
DEPARTMENT OF BUSINESS MANAGEMENT,  
Osmania University, Hyderabad - 500 007 (T.S) INDIA.

12	BBED22204	Managerial Economics	6	5
13	PL18001	PLANET programme	-	-
		<b>Total</b>	<b>29</b>	<b>25</b>
		<b>SEMESTER -III</b>		
14	G23BBED1T/P	Start-up management (GE)	2+2	3
15	BBED23301	Fundamentals of Business Mathematics	4	4
16	BBED23302	Research Methodology	4	4
17	BBED23303	Marketing Management	5	5
18	BBED23304	Financial Management	6	5
19	BBED23305	Human Resource Management	6	5
		<b>Total</b>	<b>29</b>	<b>26</b>
		<b>SEMESTER -IV</b>		
20	ES18401	Environmental Studies	3	3
21	BBED23401	Start - up management	6	4
22	BBED23402	Corporate governance and business ethics	4	4
23	BBED23403	Mobile commerce	4	4
24	BBED23404	Production and Material Management	4	5
25	BBED23405	Accounting for management	6	5
26	BBED23406	M-commerce practical	2	1
		<b>Total</b>	<b>29</b>	<b>26</b>

  
**CHAIRMAN**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**

# LOYOLA ACADEMY, OLD ALWAL, SECUNDERABAD 500 010 TS



## SCHEME OF INSTRUCTION FOR BACHELOR OF BBA ENTREPRENEURSHIP DEVELOPMENT – 2023-2024

<b>I YEAR (2022-2023) BATCH (CBCS)</b>					
<b>I SEMESTER</b>			<b>II SEMESTER</b>		
<b>THEORY</b>			<b>THEORY</b>		
1.	EA18101	Business English-I	1.	EA18201	Business English-II
2.	IC19101	Indian Heritage and Culture	2.	VE18201	Value Education and Personality Development
3.	BBED22101	Computers in management and Fundamentals of IT	3.	BBED22201	Fundamentals of Business Statistics
4.	BBED22102	Management Foundations	4.	BBED22202	Organizational Behavior
5.	BBED22103	Introduction to Entrepreneurship	5.	BBED22203	Introduction to Entrepreneurship - II
6.	BBED22104	Financial Accounting	6.	BBED22204	Managerial Economics
<b>PRACTICALS</b>			<b>PRACTICALS</b>		
7.	BBED22105	Financial Accounting	7.	BBED22205	Fundamentals of Business Statistics
8.	BBED22106	Computers in management and Fundamentals of IT	8.	PL18001	PLANET Program

<b>II YEAR (2023-24) OF 2022-23 BATCH (CBCS)</b>					
<b>III SEMESTER</b>			<b>IV SEMESTER</b>		
<b>THEORY</b>			<b>THEORY</b>		
1	G23BBED1T	Start-up management (GE)	1.	ES18401	Environmental Studies
2	BBED23301	Fundamentals of Business Mathematics	2.	BBED23401	Start-up management
3	BBED23302	Research Methodology	3.	BBED23402	Corporate governance and Business Ethics
4	BBED23303	Marketing Management	4.	BBED23403	Mobile Commerce
5	BBED23304	Financial Management	5.	BBED23404	Production and Material Management
6	BBED23305	Human Resource Management	6.	BBED23405	Accounting for Management
<b>PRACTICALS</b>			<b>PRACTICALS</b>		
7	G23BBED1P	Start-up Management (GE)	7.	BBED23406	Mobile Commerce

  
**CHAIRMAN**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**

**LOYOLA ACADEMY, OLD ALWAL, SECUNDERABAD 500 010 TS**  
**YEAR-WISE AND SEMESTER-WISE DISRIBUTION OF SUBJECTS**



**DEPARTMENT OF BBA Entrepreneurship Development**

**THIRD SEMESTER**

**ACADEMIC YEAR 2023-2024 OF 2022-2025 BATCH (CBCS)**

SI.N O	PAR T	SUBJECT CODE	TITLE OF THE SUBJECT	HOUR S/ WEEK	DURATIO N OF EXAM (HRS)	INTERNA L MARKS	EXTERNA L MARKS	TOTAL MARK S	CREDIT S
1.	I	G23BBED 1T	Start-up management (GE)	2	3	40	60	100	2
2.	I	BBED2330 1	Fundamentals of Business Mathematics (SEC-3)	5	3	40	60	100	5
3.	II	BBED2330 2	Research Methodology Core-5	4	3	40	60	100	4
4.	II	BBED2330 3	Marketing Management Core-6	5	3	40	60	100	5
5.	II	BBED2330 4	Financial Management Core-7	6	3	40	60	100	5
6.	II	BBED2330 5	Human Resource Management Core-8	5	3	40	60	100	5

**PRACTICALS**

7.	II	G23BBED1P	Start-up management	2	3	40	60	100	1
			TOTAL	29		280	420	700	27

\*AECC- Ability Enhancement Compulsory Course

\* SEC- Skill Enhancement Course

\*GE- General Elective

*B. Srinivas*  
**CHAIRMAN**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**

# LOYOLA ACADEMY, OLD ALWAL, SECUNDERABAD 500 010 TS



YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS

DEPARTMENT OF BBA Entrepreneurship Development

FOURTH SEMESTER

ACADEMIC YEAR 2023-2024 OF 2022-2025 BATCH (CBCS)

SI.NO	PART	SUBJECT CODE	TITLE OF THE SUBJECT	HOURS/ WEEK	DURATION OF EXAM (HRS)	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1.	I	ES18401	Environmental Studies (AECC-5)	3	3	40	60	100	3
2.	I	BBED23401	Start-up management (SEC-4)	5	3	40	60	100	5
3.	II	BBED23402	Corporate governance and Business Ethics (core-9)	5	3	40	60	100	5
4.	II	BBED23403	Mobile Commerce (Core-10)	4	3	40	60	100	4
5.	II	BBED23404	Production and Material Management (CORE-11)	4	3	40	60	100	5
6.	II	BBED23405	Accounting for Management CORE-12	6	3	40	60	100	5

## PRACTICALS

7.	II	BBED23406	Mobile commerce	2	3	40	60	100	1
			TOTAL	29		280	420	700	28

\*AECC- Ability Enhancement Compulsory Course    \* SEC- Skill Enhancement Course    \*GE- General Elective

  
**CHAIRMAN**  
 BOS IN BUSINESS MANAGEMENT  
 OSMANIA UNIVERSITY,  
 Hyderabad-500 007, T.S., India.

**BBAED-LIST OF BOARD OF EXAMINERS**

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience	Area of Specialisation
1.	Dr.Patric Anthony (subject expert)	professor	Osmania University	9247799257 Patrick_ay@rediffmail.com	20	Marketing
2.	Dr.N.Giridhar	Assistant professor	Govt degree college khairtabad	9490807247 Narule.giridhar@gmail.com	10	Human resource Management
3.	M.Saraswathi	Assistant Professor	Govt degree college	9441230031 Saraswathi.m@gmail.com	20	Banking and Insurance
4.	T.Bhagya	Assistant Professor	Vivekananda Degree and PG College kukatpally	9885100796 bhagyathummala@gmail.com	12	Computers and commerce
5.	D.Laxmi	Assistant Professor	Rainbow Integrated degree college IDPL	7013104385 Dukkipatilaxmi@gmail.com	5	Management
6.	B.Prakash Reddy	Assistant Professor	Rainbow Integrated degree college IDPL	6281223609 Prakashreddy.1235g mail.com	8	Management

  
**CHAIRMAN**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**

**ANNEXURE- III**

**BBAED-INDENT FOR LIBRARY BOOKS**

S.No.	Title of the book& Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1.	Entrepreneurship development	kalyani	10	1500
2.	Start-up management	kalyani	10	1500
3.	Mobile Commerce	Himalaya	10	1800
4.	Production and material management	kalyani	10	2000
Total				6800

**ANNEXURE - IV**

**BBA ED-BUDGET PROPOSAL AY: 2023-24**

<b>S.No.</b>	<b>Items</b>	<b>Estimated Amount(Rs)</b>
1.	Computers	Nil
2.	Library books	6800
3.	Seminars(State/National/International)	25000
4.	Workshop	10000
5.	Field Visit	10000
6.	Guest Faculty	10000
7.	Stationary/Infrastructure	10000
8.	Miscellaneous (Any important day to be celebrated)	5000
<b>Total</b>		<b>76800</b>

  
**HOD Signature**

  
**Dean Signature**

**ANNEXURE - V**

**LIST OF FACULTY REQUIREMENT**

<b>S.No</b>	<b>Number of Faculty</b>	<b>Qualification</b>	<b>Workload</b>
1.	01	M.Com in Finance	I semester : 20 Hours II semester : 19 Hours

*K.B.S.P.*

**HOD Signature**

*Lachy*

**Dean Signature**

**DEPT. OF BBA RETAIL OPERATIONS  
MANAGEMENT**

**Year of Inception: 2022**



**Minutes of 2<sup>nd</sup> meeting of the Board Of Studies held on  
Friday, 20 January 2023 at 10.30 a.m.**

**Academic Year: 2023-24 for the batch of 2022-25**

**Venue: Conference Room, Admin Block  
Loyola Academy, Degree & PG College**

**Loyola Academy  
Degree & PG College  
Alwal, Secunderabad- 500010**




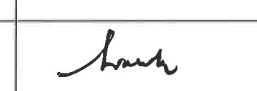
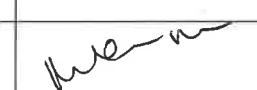
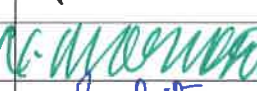

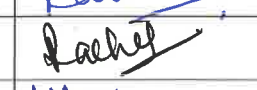




**MINUTES OF THE BOS MEETING**

**Date: 20/01/2023**

**Venue: Conference Room**

**Time: 10.30 am**

The Board of Studies meeting of the program BBA Retail Operations Management was held on 20/01/2023 at 10.30 am in the Conference room. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Fr. Dr. L. Joji Reddy SJ	Principal, LA	
2.	Fr. Arul jyothis SJ	Vice Principal (UG), LA	
3.	Dr.V.Sudha	University Nominee, Business Management, OU, Hyderabad	
4.	Mr K J A Swarup	Vice President - HR ITC Bhadrachalam (Rtd)	
5.	Dr Martina Rani	Associate Professor, Ashoka Business school .	
6.	Dr.N.Maria Das	Lay Vice-Principal,LA	
7.	Dr.T.Suchitra Naidu	Dean, Academics,LA	
8.	Dr. K. Rama	IQAC co-ordinator, LA	
9.	Dr. Rachel Shalini . T	Dean of Management , LA	
10.	Mr. V. Kalyan Goud	Chairman, BOS	
11.	Dr.Supriya Jangam	Assistant Professor in management	
12.	Kaniganti Praveen Babu	Alumni school of management Employee at IBM	

**LOYOLA ACADEMY, DEGREE & PG COLLEGE**  
(An autonomous institution-affiliated to Osmania University, Hyderabad)  
www.loyolaacademy.edu.in

2<sup>nd</sup> Board of Studies Meeting  
**Department of BBARETAIL OPERATIONS MANAGEMENT**

Venue: Conference Room, Admin Block,  
Loyola Academy, Degree & PG College

Date & Time: 20/01/23 & 10.30 A.M.

**AGENDA**

BOS/BBR 2.1	:	Welcome address and Opening Remarks by Mr. V.Kalyan Goud Chairman, Board Of Studies in the Department of BBA Retail Operations Management.
BOS/BBR 2.2	:	Action Taken Report of 1 <sup>st</sup> meeting of Board of Studies held on February 1 <sup>st</sup> 2022. 2.2.1: Introduced tentative scheme and syllabus of 1 <sup>st</sup> Academic year 2022-23(first and second semester) for the batch 2022-2025. The consolidated scheme and first year syllabus were approved by the board.
BOS/BBR 2.3	:	Business brought forward by the Chairman, Board of studies – 2.3.1 : Proposal to approve the Consolidated scheme for the batch 2022-2025 and syllabus of second academic year 2023 -2024- 3 <sup>rd</sup> and 4 <sup>th</sup> semester for the batch 2022-2025. Following are the courses to be offered in semester 3 and 4 respectively <b>Semester- III</b> Consumer behavior ERP , Computer Skills and Non Store Retailing Customer Relationship& Service Management Retail sales management Distributor Salesman (Retail sales associate) Seller Activation Executive (Retail sales associate) <b>Semester -IV</b> Environmental Studies Research Methodology Corporate and business Law Distributor Salesman (Retail sales associate) Seller Activation Executive (Retail sales associate) Fundamentals of Business Statistics Fundamentals of Business Statistics(PR) 2.3.2 : Proposal to approve list of examiners(Annexure-II) 2.3.3 : Proposal to approve list of Library Books(Annexure- III) 2.3.4 : Proposal to approve annual budget (Annexure- IV) 2.3.5 : Proposal to approve requirement of one class room.
BOS/BBR 2.4	:	Suggestions given by BOS Members
BOS/BBR2 .5	:	Concluding remarks & Vote of Thanks

**CHAIRMAN**  
BOS IN BUSINESS MANAGEMENT  
OSMANIA UNIVERSITY,  
Hyderabad-500 007, T.S., India

**The following resolutions were made in the BOS meeting,**

1. The HOD of the Program, BBA Retail Operations Management. Mr.V.Kalyan Goud welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 1<sup>st</sup> Board of Studies meeting held on **February 1<sup>st</sup> 2022** were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow** the Consolidated Scheme and syllabus for **Second** academic year 2023-2024 (**3<sup>rd</sup> and 4<sup>th</sup> semester**) for the batch **2022-2025** (Enclosed in Annexure-I).
4. **It was resolved to introduce the following papers in 3<sup>rd</sup> Semester.**

S.No	Title of Subject	Subject Code
1.	Consumer behavior (T/P)	GE23BBR1T&P
2.	ERP , Computer Skills and Non Store Retailing	BBR23301
3.	Customer Relationship& Service Management	BBR23302
4.	Retail sales management	BBR23303
5.	Distributor Salesman (Retail sales associate)	BBR23304
6.	Seller Activation Executive (Retail sales associate)	BBR23305

Above subjects are offered in 3<sup>rd</sup> Semester from the AY: 2023-24

**It was resolved to introduce the following papers in 4<sup>th</sup> Semester.**

S.No	Title of Subject	Subject Code
1.	Environmental studies & gender sensitization	ES18001
2.	Research methodology	BBR23401
3.	Corporate and business law	BBR23402
4.	Fundamentals of business statistics (T&P)	BBR23403 &406
5.	Distributor Salesman (Retail sales associate)	BBR23404
6.	Seller Activation Executive (Retail sales associate)	BBR23405

Above subjects are offered in 4<sup>th</sup> semester from the AY: 2023-24

5. It was resolved to approve the list of examiners AY: 2023-24.(Enclosed in Annexure- II)
6. It was resolved to purchase library books with a budget of 10,000for AY: 2023-24.(Enclosed in Annexure -III)
7. It was resolved to sanction a budget of Rs.75,000 for AY: 2023-24.(Enclosed in Annexure - IV).
8. It was resolved to organize an International Conference/Workshop with a budget of Rs25,000
9. It was resolved to provide a classroom for Second year students for AY: 2023-24.

The above resolutions were unanimously approved in the meeting.

BOS Chairperson

V. Sudhe

CHAIRMAN

BOS IN BUSINESS MANAGEMENT  
OSMANIA UNIVERSITY,  
Hyderabad-500 007, T.S., India.

Principal

PRINCIPAL  
LOYOLA ACADEMY  
OLD ALWAL, SECUNDERABAD-500 010  
TELANGANA, INDIA

Dean

HOD

**LOYOLA ACADEMY (NEW)**  
**Department of B.B.A ROM (2022-25 Batch) (Choice-Based Credit System) FROM**  
**ACADEMIC YEAR 2022-23**

Semester	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits		
I	Business English-I (3) (AECC-1)	Indian Heritage and Culture (2) (AECC-2)	Financial accounting (4+1) (core 1)	Introduction to retail operations & In store cashiering (4) (core 2)	Retail cashier (5) (core 3)	Retail Trainee associate (5) (core 4)	36	24	AECC-2 GE-1 SEC-1 CORE-2 DSE-0	
II	Business English-II (3) (AECC-3)	Value Education & Personality Development (2) (AECC-4)	Corporate Governance and business ethics (5) (Core-5)	Principles of management (5) (core 6)	Retail cashier (5) (core 7)	Retail Trainee associate (5) (core 8)	36	25	AECC-2 GE-1 SEC-1 CORE-2 DSE-0	
III	Inter Disciplinary GE (2+1)	ERP, computer skills & non store Retailing (4) (SEC-1)	Customer Relationship & Service management (4) (core 9)	Retail sales management (4) (core 10)	Distributor salesmen (5) (core 11)	Seller Activation executive (5) (core 12)	39	25	AECC-0 GE-1 SEC-1 CORE-4 DSE-0	
IV	Environmental Studies (3) (AECC-5)	Fundamentals of Business statistics (4+1) (SEC-2)	Research Methodology (4) (Core-13)	Corporate and business Law (4) (core -14)	Distributor salesmen (5) (core 15)	Seller Activation executive (5) (core 16)	38	26	AECC-1 GE-0 SEC-1 CORE-4 DSE-0	
V	Managerial Economics/ Human Resource management(4) (DSE-1)	International Retailing & operations of a team leader (4) (core 16)	Team management (4) (core 17)	FMCG/FM CD Distribution & Sales management (4) (core 18)	Retail Team leader (10) (Core 19)		36	26	AECC-0 GE-0 SEC-0 CORE-4 DSE-2	
VI	Financial markets / Banking theory and practice (4) (DSE-2)	Cost and management accounting (4) (core 20)	Entrepreneurship Development (4)(core 21)	Project (6)	Retail Team leader (10) (Core 22)		35	28	AECC-0 GE-0 SEC-0 CORE-3 DSE-2	
<b>AECC (Ability Enhancement Compulsory Course) : 05</b> <b>GE (Generic Elective) : 01</b> <b>SEC (Skill Enhancement Course) : 02</b> <b>Core : 22</b> <b>DSE (Discipline Specific Elective) : 02</b> <b>Inter Disciplinary GE (consumer behaviour) : 01</b>							<b>TOTAL</b>	<b>182</b>	<b>154</b>	

  
**V. S. CHAKRABORTY**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**



**Loyola Academy Degree & PG College**  
**B.B.A RETAIL OPERATIONS MANAGEMENT**  
**Batch (2022-25) (Choice Based Credit System)**

**SCHEME OF INSTRUCTION FOR BBA (Retail Operations Management) – 2022-25**  
**CORPORATE GOVERNANCE AND BUSINESS ETHICS**

II YEAR (2023-24) OF 2022-25 BATCH (CBCS)					
III SEMESTER			IV SEMESTER		
THEORY			THEORY		
1.	GEBBR231T	Consumer behavior	1.	BBR23405	Fundamentals of Business Statistics
2.	BBR23301	ERP , Computer Skills and Non Store Retailing	2.	ES18401	Environmental Studies & Gender Sensitization
3.	BBR23302	Customer Relationship & Service Management	3.	BBR23401	Research Methodology
4	BBR23303	Retail Sales Management	4	BBR23402	Corporate and business Law
		<b>Apprenticeship/OJT</b>			<b>Apprenticeship/OJT</b>
5	BBR23304	Distributor Salesman	5	BBR23403	Distributor Salesman
6	BBR23305	Seller Activation Executive	6	BBR23404	Seller Activation Executive
<b>PRACTICALS</b>					
8.				BBR23406	Fundamentals of Business Statistics

  
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**ANNEXURE-I (NEW)**



**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF B.B.A(Retail Operations Management)  
THIRD SEMESTER  
ACADEMIC YEAR 2023-24 OF 2022-2025 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1	I	GE23BBR1 T	Consumer behaviour	2	3	40	60	100	2
2	I	BBR23301	ERP, Computer Skills and Non Store Retailing (SEC)	5	3	40	60	100	4
3	II	BBR23302	Customer Relationship & Service Management (Core-9)	5	3	40	60	100	4
4	II	BBR23303	Retail sales management (Core-10)	5	3	40	60	100	4
<b>Apprenticeship/OJT</b>									
5	II	BBR23304	Distributor Salesman (Retail sales associate) OJT (Core-11)	10	3	40	60	100	5
6	II	BBR23305	Seller Activation Executive (Retail sales associate) OJT(Core-12)	10	3	40	60	100	5
<b>PRACTICALS</b>									
		GE23BBR1 T	Consumer behaviour	2	3	40	60	100	1
<b>Total</b>				<b>39</b>	<b>-</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>25</b>

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**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF B.B.A (Retail Operations Management)  
FOURTH SEMESTER  
ACADEMIC YEAR 2023-24 OF 2022-2025 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1	II	ES18001	Environmental studies & gender sensitization (AECC-5)	2	3	40	60	100	3
2	II	BBR23401	Research methodology (Core-13)	4	3	40	60	100	4
3	II	BBR23402	Corporate and business law (Core-14)	5	3	40	60	100	4
4	II	BBR23403	Fundamentals of business statistics (SEC-2)	4	3	40	60	100	4
<b>Apprenticeship/OJT</b>									
5	II	BBR23404	Distributor Salesman (Retail sales associate) OJT (Core-15)	10	3	40	60	100	5
6	II	BBR23405	Seller Activation Executive (Retail sales associate) OJT (Core-16)	10	3	40	60	100	5
<b>PRACTICALS</b>									
7	II	BBR23406	FUNDAMENTALS OF BUSINESS STATISTICS	2	3	40	60	100	1
<b>Total</b>				<b>37</b>	<b>-</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>26</b>

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## ANNEXURE- II

### LIST OF BOARD OF EXAMINERS

S.No	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience	Area of Specialisation
1.	Dr.k.Mallikarjuna Rao	Assistant Professor	Govt city college	9052771299& drmallikarjunarao99@gmail.com	16	Marketing and Finance & management
2.	Gajendra Babu	Assistant professor	Govt city college	76660020740 & pgk.gajendrababu@gmail.com	12	Computers and commerce
3.	Dr.S.Jhansi Rani	Assistant Professor	Govt city college	8977599042 & jhansisk\$4u@gmail.com	12	Marketing& Finance, management

  
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ANNEXURE- III OSMANIA UNIVERSITY,  
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### INDENT FOR LIBRARY BOOKS

S.No.	Title of the book & Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1.	Financial accounting	Kalyani publishers	10	2000
2.	Principles of management	Kalyani publishers	10	2000
3.	Corporate and business law	Kalyani publishers	10	2000
4.	Research methodology	New Age International Publishers;	6	2000
5.	Corporate Governance & Business Ethics	Chand publishers	10	2000
<b>TOTAL</b>				<b>10000</b>

ANNEXURE- IV

BBA ROM-BUDGET PROPOSAL AY: 2023-24

S.No.	Items	Estimated Amount(Rs)
1.	Computers	nil
2.	Library books	5000
3.	Seminars(State/National/International)	25000
4.	Workshop	10000
5.	Field Visit	10000
6.	Guest Faculty	10000
7.	Stationary/Infrastructure	10000
8.	Miscellaneous (Any important day to be celebrated)	5000
TOTAL		75000

  
HOD's Signature

  
Dean's Signature

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## SCHOOL OF COMMERCE

Department of B.Com (Information Systems)

Year of Inception:2022



Minutes of 2<sup>nd</sup> meeting of the Board of Studies held on  
Wednesday, 18<sup>th</sup> January 2023 at 10.00 a.m.

Academic Year: 2023-24 for the batch of 2022-25

**LOYOLA ACADEMY, DEGREE & PG COLLEGE**  
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Second Board of Studies Meeting

**Department of B.Com Information Systems**

Venue: Conference Room, Admin Block,

Loyola Academy

Date & Time: 18/1/23 & 10.00 A.M.

**AGENDA**

Bos/IS 2.1	:	Welcome address and Opening Remarks by Chairman, Board Of Studies in the Department of B.Com. Information Systems
Bos/IS 2.2	:	Last year CBCS Scheme and syllabus for I and II semesters of 2021-22, for the batch of 2023-25 was approved./
Bos/IS 2.3	:	<p>Business brought forward by the Chairman, Board of studies –</p> <p>2.3.1: Proposal to Approve new syllabus of III and IV semesters for the academic year of 2023-2023 for the batch of 2023-2025 as per CBCS. The following are the subjects for 3<sup>rd</sup> semester.</p> <p>SECIS23301 - Principles of Insurance SECIS23302 - Foundation of Digital Marketing web design BC22011/BC22013- Company Law BC22012- Advanced Accounting CIS23301/CIS23302- Business Statistics CIS23303/CIS23304- Business Information Systems GE23IS1T/GE23IS2P- Human Resource Management</p> <p>The following are the subjects for 4<sup>th</sup> semester.</p> <p>ES23301- Environment Studies &amp; Gender Sensitization SECIS23401- Practice of Life and General Insurance SECIS23402- Social media marketing, Search engine Optimization &amp; Online Advertising</p> <p>BC22015- Corporate Accounting CIS23401/CIS23402- Banking Theory and Practice BC22014- Direct Taxes CIS23403/CIS23404 - Data Base Management Systems</p> <p>2.3.2 Proposal to Introduce “Financial markets &amp; Institutions As Self Study course.</p> <p>2.3.3 : Approval for list of examiners 2.3.4 : Budget for Academic year 2023-24 2.3.5 : Staff required for AY-2023-24</p>
Bos/IS 2.4	:	Suggestions given by BOS Members
Bos/IS 2.5	:	Any other items
Bos/IS 2.6	:	Concluding remarks & Vote of Thanks

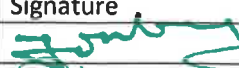





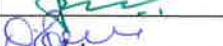

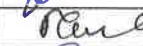



## MINUTES OF THE BOS MEETING

**Date:** 18/01/2023

**Venue:** Conference Room

**Time:** 10:00 AM

The Pre- Board of Studies meeting of the program B.Com- Information Systems was held on 18.01.2023 at Admin Block in the Conference room. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Fr.Dr.L.Joji Reddy SJ	Principal	
2.	Fr.Arul Jyothi	Vice-Principal	
3.	Dr.N.Mariadas	Lay.Vice-Principal	
4.	Dr. T. Suchitra Naidu	Dean, Academics	
5.	Dr. B.Rama	IQAC Coordinator	
6.	Prof.V.Appa Rao	University Nominee	
7.	Prof.I.Anand Pawar	Subject Expert	
8.	PAVAN KUMAR	Industry Expert	
9.	Sobin K Sunny	Alumini	
10.	Dr. M. Veera Swamy	Dean of Commerce	
11.	Rajkumar Reddy.P	Chairman, BOS	
12.	Mr.Ashok	Member	

  
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## DEPARTMENT OF COMMERCE B. Com Information Systems

### MINUTES OF THE BOARD OF STUDIES MEETING

Wednesday, 18<sup>th</sup>, January 2023

10:00 am

A meeting of Board of Studies for the Department of Commerce (B. Com Information Systems) was held on Wednesday, 18th, January 2023 at 10:30 am in Boardroom, Ad block

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the Program, B.Com. Information Systems Mr. Rajkumar Reddy.P welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 1<sup>st</sup> Board of Studies meeting held on August 30<sup>th</sup> 2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. It was resolved to follow the Consolidated Scheme and syllabus for the Second academic year 2023-2024 (3<sup>rd</sup> and 4<sup>th</sup> semester) for the batch 2022-2025 (Enclosed in Annexure-I)
4. It was resolved to introduce the following papers in 3<sup>rd</sup> Semester.

S.No	Title of Subject	Subject Code
1.	Human Resource Management (Inter-Disciplinary) (GE)	G23IS1T/G23IS1P
2.	A) Principles of Insurance (or) B) Foundation of Digital Marketing Web Designing	SECIS23301/ SECIS23302
3.	Business Statistics	CIS 23301/ CIS 23302
4.	Advanced Accounting	BC22012
5.	Business Information	CIS23303/CIS23304

*R. P.*  
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	Systems	
6.	Company Law-II	BC22011/BC22013

Above subjects are offered in III semester from the AY: 2023-24.

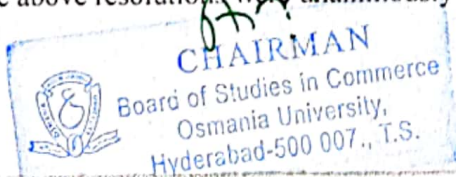
It was resolved to introduce the following papers in 4<sup>th</sup> Semester.

S.No	Title of Subject	Subject Code
1.	Environmental Studies & Gender Sensitization	ES 23301
2	A)Practice of Life and General Insurance (or) B)Social media marketing Search Engine Optimization and Online Advertising	SECIS23401/ SECIS23402
3.	Direct Taxes	BC22014
4.	Corporate Accounting	BC22015
5.	Banking Theory and Practice	CIS23401/CIS23402
6.	DataBase Management System	CIS23403/CIS23404

Above subjects are offered in IV semester from the AY: 2023-24

5. It was resolved to approve the list of examiners AY: 2023-24.(Enclosed in Annexure-II)
6. It was resolved to purchase library books Amount of Rs 32,500 for AY: 2023-24.(Enclosed in Annexure- III)
7. It was resolved to sanction a budget of Rs 1,28,000 for AY: 2023-24.(Enclosed in Annexure- IV).
8. It was resolved to organise an International Conference/Workshop with the budget of Rs. 10000/- .
9. It was resolved to Introduce "Financial markets & Institutions" as self study course for second years.

The above resolutions were unanimously approved in the meeting.



*P. Ravi*

BOS Chairperson

Principal

Dean

HOD

**LOYOLA ACADEMY DEGREE & PG COLLEGE, ALWAL SECUNDERABAD**  
**B.Com.(Information Systems) (2022-2025) (Choice-Based Credit System)**

Semester	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits		
I	Business English-I (3) (EL)	Indian Heritage & Culture (2) AECC-1	Business Organization and Management (4+1) (Core-1)	Financial Accounting –I (4+1) (Core-2)	Micro Economics(5) (Core-3)	Fundamentals of Information Technology (4+1) (Core-4)	28	25	EL=1 AECC=1 CORE=4	
II	Business English-II (3) (EL)	Value Education & Personality Development (2) AECC-2	Company law - I (4+1) (Core-5)	Financial Accounting-II (4+1)(Core-6)	E-commerce (5) (Core-7)	Programming in "C" (4+1) (Core-8)	28	25	EL=1 AECC=1 CORE=4	
III	Generic Elective (GE) (2+1)	A. Principles of Insurance(2) B. Foundation of Digital Marketing Web Design(2) (SEC-1)	Company Law-II(4+1) (Core-9)	Advanced Accounting(5) (Core-10)	Business Statistics(5) (Core-11)	Business Information Systems(4+1) (Core-12)	28	25	GE=1 SEC=1 CORE=4	
IV	Environmental Science & Gender Sensitization(3) AECC-3	A. Practice of life and General Insurance(2) B. Social Media Marketing Search Engine & Online Marketing(2) (SEC-2)	Corporate Accounting(5) (Core-13)	Banking Insurance and Practice(3+2) (Core-14)	Direct Taxes (5) (Core-15)	Data base Management systems (4+1)(Core-16)	28	25	SEC=1 AECC=1 CORE=4	
V	Advance Excel(4+1) (Core-17)	Auditing (5) (Core-18)	DSE-1 A) Cost Accounting(5) B) Financial Planning and Performance(5) C) International Financial Reporting-I (5)	DSE-2 A) Financial Statement Analysis(5) B) Financial Management – I (5) C) International Tax & Regulation (5)	DSE-3 A) Data Communication & Networks(3+2) B) Java Programming(3+2) C) Cyber Laws (3+2)		28	25	CORE=2 DSE=3	
VI	Web Programming(4+1) (Core-19))	Research Methodology & Project Report (2+2)(PR)	DSE-4 A) Advance Cost Accounting(5) b) Financial Control(5) c) International Financial Reporting-II (5)	DSE-5 A) Advance management Accounting(5) B) Financial Management -II C) International Finance (5)	DSE-6 A)Operating Systems(5) B) Business Decisions using SPSS(5) C)Python Programming(5)	Planet-1	29	25	CORE=1 DSE=3 PR=1	
<b>Legend:</b>							<b>Total</b>	<b>169</b>	<b>150</b>	
1.English(First Language):			02							
2. Ability Enhancement Compulsory Course (AECC) :			03							
2. Generic Elective (GE) :			01							
3.Skill Enhancement Course (SEC) :			02							
4.Core :			19							
5.Discipline – Specific Elective (DSE) :			06							
6.Inter Disciplinary(GE) #Human Resource Management :			01							



1  
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**B.Com(Information systems)Course Structure****W.e.f 2022-23**

Sl.NO.	Code	Course Title	HPW	Credits
(1)	(2)	(3)	(4)	(5)
<b>SEMESTER-I</b>				
1.	BE18101	Business English-I(ELS1)	3	3
2	IC19101	Indian Heritage & Culture(AECC1)	2	2
3.	BC22001/BC2201P	Business Organisation & Management(DSC1)	4T+2P	5
4.	BC22002/BC22004	Financial Accounting-I(DSC2)	4T+2P	5
5	BC22090	Micro Economics(DSC3)	5	5
6	BC22003/BC22005	Fundamentals of Information Technology(DSC4)	4T+2P	5
			<b>28</b>	<b>25</b>
<b>SEMESTER -II</b>				
7	BE18201	Business English-II(ELS2)	3	3
8	VE18201	Value Education(AECC2)	2	2
9	BC22006/BC22010	Company Law-I(DSC5)	4T+2P	5
10	BC22007/BC22009	Financial Accounting-II(DSC6)	4T+2P	5
11	CIS22201	E-Commerce (DSC7)	5	5
12	CIS22202/CIS22203	Programming in C(DSC8)	4T+2P	5
			<b>28</b>	<b>25</b>
<b>SEMESTER -III</b>				
13	SECIS23301 SECIS23302	(SEC1) A) Principles of Insurance B) Foundation of Digital Marketing Web Design	2	2
14	BC22011/BC22013	Company Law-II(DSC9)	4T+2P	5
15	BC22012	Advanced Accounting(DSC10)	5	5
16	CIS23301/CIS23302	Business Statistics(DSC11)	4T+2P	5
17	CIS23303/CIS23304	Business Information Systems(DSC12)	4T+2P	5
18	G23ISIT/G23ISIP	Human Resource management(GE-1)	2T+2P	3
			<b>29</b>	<b>25</b>



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SEMESTER -IV				
19	ES23301	Environmental Studies & Gender Sensitization(AECC3)	3	3
20	SECIS23401 SECIS23402	(SEC2) A) Practice of Life and General Insurance B) Social Media Marketing Search Engine Optimization & Online Advertising	2	2
21	BC22015	Corporate Accounting(DSC13)	5	5
22	CIS23401/CIS23402	Banking theory and Practice(DSC14)	3T+4P	5
23	BC22014	Direct Taxes(DSC15)	5	5
24	CIS23403/CIS23404	Database Management system(DSC16)	4T+2P	5
			<b>28</b>	<b>25</b>
SEMESTER -V				
25	CIS24501/CIS24502	Advance Excel(DSC17)	4T+2P	5
26	BC22017	Auditing(DSC18)	5	5
27	BC22047 BC22020 BC22021	DSE-1 A) Cost accounting B) Financial Planning and Performance C) International Financial Reporting-I	5	5
28	BC22049 BC22025 BC22024	DSE-2 A) Financial Statement Analysis B) Financial Management-I C) International Tax & Regulation	5	5
29	CIS24503/CIS24504 CIS24505/CIS24506 CIS24507/CIS24508	DSE-3 A) Data Communication & Networking B) Java Programming C) Cyber Laws	3T+4P	5
			<b>28</b>	<b>25</b>
SEMESTER -VI				
30	CIS24601/CIS24602	Web Programming(DSC19)	4T+2P	5
31	BC22057 BC22058 BC22034	DSE-4 A) Advanced Cost accounting B) Financial Control C) International Financial Reporting-II	5	5
32	CIS24603 BC22038 BC22037	DSE-5 A) Advanced Mangement Accounting B) Financial Management-II C) International Finance	5	5
33	CIS24603/CIS24604 CIS24605/CIS24606 CIS24607/CIS24608	DSE-6 A) Operating Systems B) Business Decisions using SPSS C) Python Programming	3T+4P	5
34	CIS24609	Research Methodology & Project Report	2T+4R	4
35	PL22001	Planet Programme		1
			<b>29</b>	<b>25</b>
		Total		<b>150</b>



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**SUMMARY OF CREDITS**

Sl.No.	Course Category	No. of Courses	Credits Per Course	Credits
1	ELS	2	3	6
3	AEC	3	2 + 2 + 1 + 3	7
4	SEC	2	2	4
5	GE	1	3	3
6	Project Report	1	4	4
7	DSC	19	5	95
8	DSE	6	5	30
9	PLANET	-	-	1
	<b>TOTAL</b>	<b>34</b>		<b>150</b>
<b>CREDITS UNDER NON-CGPA</b>		* Tutorial [ Remedial Classes/Seminar/Group Discussions/Activity-Based Learning]		



  
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**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF COMMERCE - B.COM. (INFORMATION SYSTEMS)  
THIRD SEMESTER  
ACADEMIC YEAR 2023-24 OF 2022-25 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
<b>THEORY</b>									
1	I	GE23IS 1T	General Elective (Human Resource Management) (GE)	2	3	40	60	100	2
2	I	SECIS23301/302	a)Principles of Insurance b)Foundation of Digital Marketing Web Designing	2	3	40	60	100	2
3	II	CIS 23301	Business Statistics	5	3	40	60	100	4
4	II	BC22012	Advanced Accounting	5	3	40	60	100	5
5	II	CIS23303	Business Information Systems	4	3	40	60	100	4
6	II	BC22011	Company Law – II	4	3	40	60	100	4
<b>PRACTICALS</b>									
7	II	GE23IS1P	Human Resource Management (GE)	2	3	40	60	100	1
8	II	CIS23302	Business Statistics	2	3	40	60	100	1
8	II	BC22013	Company Law-II Practical's	2	3	40	60	100	1
9	II	CIS23304	Business Information Systems	2	3	40	60	100	1
<b>TOTAL</b>				<b>28</b>	<b>-</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>25</b>

\*Ability Enhancement Compulsory Course (AECC)

\* Generic Elective (GE)

\* Skill Enhancement Course (SEC)

B.Com. INFORMATION SYSTEMS  
(CBCS)

Academic Year 2023-2024



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Hyderabad-500 007., T.S.



**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF COMMERCE - B.COM. (INFORMATION SYSTEMS)  
FOURTH SEMESTER  
ACADEMIC YEAR 2023-24 OF 2022-25 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
<b>THEORY</b>									
1	I	ES 23301	Environmental Studies (AECC-5)	3	3	40	60	100	3
2	I	SECIS23401/402	a)Practice of Life and General Insurance b)Social Media Marketing Search Engine Optimization and Online Advertising	2	3	40	60	100	2
3	II	BC22014	Direct Taxes	5	3	40	60	100	5
4	II	BC22015	Corporate Accounting	5	3	40	60	100	5
5	II	CIS23401	Banking Theory and Practice	3	3	40	60	100	3
6	II	CIS23403	Data Base Management Systems	4	3	40	60	100	4
<b>PRACTICALS</b>									
8	II	CIS23402	Banking Theory and Practice	4	3	40	60	100	2
9	II	CIS23404	Data Base Management Systems	2	3	40	60	100	1
<b>TOTAL</b>				28	-	360	540	900	25

\*Ability Enhancement Compulsory Course (AECC)

\* Generic Elective (GE)

\* Skill Enhancement Course (SEC)

B.Com. INFORMATION SYSTEMS  
(CBCS)

Academic Year 2023-2024




**CHAIRMAN**  
Board of Studies in Commerce  
Osmania University,  
Hyderabad-500 007., T.S.

## ANNEXURE-II

### LIST OF BOARD OF EXAMINERS

S.No	Name of the expert	Designation	Institutional Address	Contact Details (Mobile no. & Email id)	Experience	Area of Specialization
1	Dr. G. NareshReddy (Subject Expert)	Professor	Osmania University	9491344950 gaddamnareshreddy@yahoo.co.in	20	Accounting & Finance
2	Dr. Patrick Anthony (Subject Expert)	Professor	Osmania University	9247799257 patrick_ay@rediffmail.com	20	Marketing
3	Dr. IndrakantiSekhar (Subject Expert)	Professor	Osmania University	9848451422 sindrakanti@yahoo.co.in	22	Accounting & Finance
4	Dr. I. AnandPawar (Subject Expert)	Professor	Dr B.R. Ambedkar Open University	9885848800 dr.anandpawar@yahoo.com	25	General Management & Marketing
5	Dr. Nazia Sultana	Associate Professor	TelanganaMahila vidyalam	8297117436 nazia.sultana@osmania.ac.in	22	Marketing
6	Dr. SabihaShareef	Assistant Professor	TelanganaMahila vidyalam	9290074714 sabiha shareef18@gmail.com	30	Finance
7	Dr.B. Shailaja	Assistant Professor	TelanganaMahila vidyalam	9989127909 shailaja.bangari@yahoo.com	15	Marketing
8	Dr .D. Raja Gopal	Assistant Professor	TelanganaMahila vidyalam	9177839123 d.rajagopal74@gmail.com	10	Finance
9	Dr. KamatamSrinivas	Associate Professor	Nizam College	9397970489 kamatamsrinivas@gmail.com	25	Accounting & Finance
10	Dr.P.Srinivas Reddy	Assistant Professor	Nizam College	7032811009 srinivas_kool4@yahoo.com	23	Marketing
11	Dr.P. KishanRao	Assistant Professor	Nizam College	9849723204	15	Accounting & Finance
12	Dr. Divisha	Assistant Professor	NizamCollege	9676666630 golladivisha101@gmail.com	7	Marketing
13	Mr. P.R.VenuGopal	Assistant Professor	Bhavansvivekand	venugopal.Commerce@bhavansvc.ac.in	25	Accounting & Finance
10	Dr.D.SanjeevaRao	Assistant Professor	Bhavansvivekand	sanjeevaroadavaraju@gmail.com	15	Accounting & Finance
14	Dr. N. Giridhar	Assistant Professor	Govt Degree College, Khairatabad	9490807247 narule.giridhar@gmail.com	10	Human Resource Management
15	Dr.V. Prabhakar	Associate Professor	Govt Degree College, Khairatabad	9989946637 Drpr1971@gmail.com	25	Banking & Insurance
16	A. Ramana	Assistant Professor	Govt Degree College, Khairatabad	ramana.ambati555@gmail.com	27	HRM
17	M.Saraswathi	Assistant Professor	Govt Degree College,	9441230031 saraswathi.m@gmail.com	20	Banking & Insurance
18	Dr. CH.	Assistant	Vivekananda	8341584004	15	Banking &

	Kishorkumar	Professor	Govt degree College	chkishor360@gmail.com		Insurance
19	M.Sangeetha	Assistant Professor	Vivekananda Govt degree College	8977140800 msangeetha987@gmail.com	10	HRM
20	Dr. M.J.Eliat	Assistant Professor	Govt. Degree College Begumpet	919849304505 dr.eliatmj@gmail.com	28	Accounting & Finance
21	Dr P. Ravi Kumar	Associate Professor	Reah school of Business Management	98856 26404 dr.raviyam@gmail.com	10	General Management
22	Dr. SumitraPujari	Associate Professor	St. Joseph's Degree & PG College	9963433697 sumitrapujari8@gmail.com	26	Taxation
23	Dr. Shiny Rajan	Associate Professor	St. Francis College for Women	shiny@sfc.ac.in	20	HRM
24	Ms. Lily Kansal	Assistant Professor	St. Francis College for Women	lillykansal@sfc.ac.in	21	HRM
25	T Krishna	Assistant Professor	St. Joseph's Degree & PG College	Krishna@josephcollege.ac.in	15	Finance
26	M.Rajender	Assistant Professor	St. Joseph's Degree & PG College	8985290783 malothrajendher@gmail.com	5	Taxation
27	Mary VinayaSheela	Dean - Academics	St. Joseph's Degree & PG College	maryvinayasheela@josephcollege.ac.in	30	Accounting

  
**CHAIRMAN**  
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ANNEXURE- III


INDENT FOR LIBRARY BOOKS

S.No.	Title of the book & Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1.	Financial Accounting	kalyani	10	2500
2.	Business law	Himalaya	10	2000
3.	Company law	Sulthan chand	10	2000
4.	Advance accounting	kalyani	10	3000
5.	Corporate accounting	kalyani	10	3000
6.	Management information systems	Tata mcgrawhill	10	5000
7.	C -Lanaguage	Tata mcgrawhill	10	5000
8.	Micro economics	Himalaya	10	3000
9.	Management information systems	Tata mcgrawhill	10	5000
10.	BOM	Himalaya	10	3000
<b>TOTAL</b>				32500

ANNEXURE-IV

BUDGET PROPOSAL AY: 2023-24

S.No.	Items	Estimated Amount(Rs)
1.	Scanner & printer	20000
2.	Library books	32,500/-
3.	Seminars(State/National/International)	10000/-
4.	Workshop	30000/-
5.	Field Visit	10,000/-
6.	Guest Faculty	8000/-
7.	Books Rack & Almirah	20000/-
8.	Miscellaneous(Any important day to be celebrated)	3000/-
	TOTAL	1,28,500

  
HOD Signature

  
Dean Signature

## MINUTES OF THE BOS MEETING

Date: 18/01/2023

Venue: Conference Room

Time: 10:00 AM

The Pre- Board of Studies meeting of the program B.Com- Information Systems was held on 18.01.2023 at Admin Block in the Conference room. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Fr.Dr.L.Joji Reddy SJ	Principal	
2.	Fr.Arul Jyothi	Vice-Principal	
3.	Dr.N.Mariadas	Lay.Vice-Principal	
4.	Dr. T. Suchitra Naidu	Dean, Academics	<i>Suchitra</i>
5.	Dr. B.Rama	IQAC Coordinator	
6.	Prof.V.Appa Rao	University Nominee	<i>Appa Rao</i>
7.	Prof.I.Anand Pawar	Subject Expert	<i>Anand Pawar</i>
8.	PAVANKUMAR	Industry Expert	<i>Pavankumar</i>
9.	Sabin K Sunny	Alumini	<i>Sabin K Sunny</i>
10.	Dr. M. Veera Swamy	Dean of Commerce	<i>Veera Swamy</i>
11.	Rajkumar Reddy.P	Chairman, BOS	<i>P.Rajkumar</i>
12.	Mr.Ashok	Member	<i>Ashok</i>

**CHAIRMAN**  
Board of Studies in Commerce  
Osmania University,  
Hyderabad-500 007., T.S.

# **LOYOLA ACADEMY**

**(DEGREE & PG COLLEGE)**

**OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA**

**(Autonomous and Affiliated to Osmania University)**

**Re-accredited with 'A' Grade (III Cycle) by NAAC**

**A "College with Potential for Excellence" by UGC**

**[www.loyolaacademy.edu.in](http://www.loyolaacademy.edu.in) Ph: 040-27862363/27860077 Fax: 040-27867939**

## **SCHOOL OF INFORMATICS**

### **Department of B.Sc. Computer Science & Cyber Security**

**Year of Inception:2021**



**Minutes of 3<sup>rd</sup> meeting of the Board of Studies held on  
Thursday, 19<sup>th</sup> January 2023 at 10.30 a.m.**

**Academic Year: 2023-24 for the batch of 2021-24**

# LOYOLA ACADEMY, DEGREE & PG COLLEGE

(An autonomous institution-affiliated to Osmania University, Hyderabad)

www.loyolaacademy.edu.in

3<sup>rd</sup> Board of Studies Meeting

**Department of B.Sc. Computer Science and Cyber Security**

Venue: Xavier Hall, Admin Block,

Loyola Academy

Date & Time: 19/1/23 & 10.30 A.M.

## AGENDA

BOS/CY3.1	:	Welcome address and Opening Remarks by Mrs. P.Sushma Chairperson, Board Of Studies in the Department of B.Sc. Computer Science and Cyber Security
BOS/CY 3.2	:	Action Taken Report of 2 <sup>nd</sup> meeting of Board of Studies held on 4 <sup>th</sup> February 2022.  3.2.1 : Introduced second year tentative scheme and syllabus of III & IV Semesters of Academic year 2022-23 for the batch of 2021-2024. The scheme and second year syllabus were approved by the board.
BOS/CY3.3	:	Business brought forward by the Chairperson, Board of studies – 3.3.1: Proposal to approve the Consolidated scheme for III year for the academic year 2023-24 for the batch 2021-24.(Annexure-I) 3.3.2 : Proposal to offer the following courses in V semester(Annexure-II) <ul style="list-style-type: none"><li>➤ CSCS23501A/CSCS23501B Steganography/ Secure E-Commerce (DSE-1)</li><li>➤ CSCS23502A/CSCS23502B Internet of Things /Cloud Computing (DSE-2)</li><li>➤ CSCS23503 GoLang (Core-15)</li><li>➤ CSCS23504 Machine Language for Cyber Security (Core-16)</li><li>➤ CSCS23505 Database Technologies (Core-17)</li><li>➤ CSCS23506 Disaster Recovery and Risk Management (Core-18)</li><li>➤ CSCS23507 GoLang lab</li><li>➤ CSCS23508 Machine learning for cyber security lab</li><li>➤ CSCS23509 Database Technologies lab</li></ul> 3.3.3: Proposal to offer the following courses in VI semester(Annexure-II) <ul style="list-style-type: none"><li>➤ CSCS23601A/CSCS23601B Cyber Threat Intelligence /Blockchain and cryptocurrency (DSE-3)</li><li>➤ CSCS23602 Web Application Testing (SEC-4)</li><li>➤ CSCS23603 Database Security(Core-19)</li><li>➤ CSCS23604 Web Application Testing lab</li><li>➤ CSCS23605 Database security lab</li><li>➤ CSCS23606 Project Work(DSE-4)</li></ul> 3.3.4 : Proposal to approve list of examiners(Annexure-III) 3.3.5 : Proposal to approve list of Library books (Annexure-IV) 3.3.6 : Proposal to approve annual Budget (Annexure-V) 3.3.7 : Proposal to approve the requirement of a teaching faculty.(Annexure – VI) 3.3.8: Proposal to approve the requirement of a classroom for the AY: 2023-24. 3.3.9: proposal to approve the requirement of a laboratory for the AY:2023-24.
BOS/CY 3.4	:	Suggestions given by BOS Members
BOS/ CY 3.5	:	Concluding Remarks & Vote of Thanks

**Loyola Academy  
Degree & PG College  
Alwal, Secunderabad- 500010**

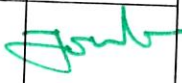

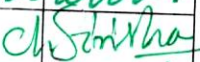
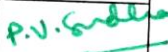
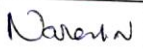
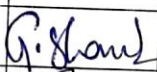


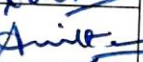

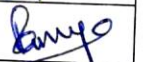

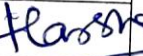
**MINUTES OF THE BOS MEETING**

**Date:** 19-01-2023

**Venue:** Xavier Hall

**Time:**

The Board Of Studies meeting of the program B.Sc. Computer Science and Cyber Security was held on 19th January 2023 at Loyola Academy in the Xavier hall. Following members attended the meeting.

SNo	Name of Attendee and Designation	Signature
1	Rev Fr Dr. L. Joji Reddy SJ, Principal, Loyola Academy, President, Xavier board of Higher Education, India	
2	Rev Fr Ch. Amara Rao SJ, Rector & Correspondent	
3	Rev Fr Arul SJ, Vice-Principal (UG)	
4	Rev Fr Dr AMJ Kumar SJ, Vice-Principal (PG)	
5	Dr. Mariadas, Lay Vice-Principal	
6	Dr. Ch. Sirisha, Lay Vice-Principal	
6	Prof. Dr. P. V. Sudha, Dean, Informatics, Osmania University	
7	Dr. Naresh Nelaturi, Data scientist, Cognitive care India Labs Pvt Ltd – Subject Expert	
8	Shankar Gandrakota, Sr. Tech Lead, Cyient, Hyderabad – Industrial Expert	
9	Dr. K. Rama, IQAC Coordinator, Asst. Prof. in Electronics	
10	Dr. Suchitra Naidu, Dean of Academics, Asst. Prof. in Biotechnology	
11	Dr. G. Anita Mary, Dean of Informatics	
12	Mrs. P.Sushma, Chairperson, BOS, Computer Science & Cyber security	
13	Mrs. Ramya, Assistant Professor.	
14	Mr. Srinivas, Assistant Professor.	
15	Dr. Harsha, Assistant Professor.	

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the Program, Computer Science and Cyber Security. **Mrs. P.Sushma** welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 2<sup>nd</sup> Board of Studies meeting held on 4<sup>th</sup> February 2022 were communicated to the members. The suggestions received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow** the Consolidated Scheme and syllabus for Third academic year 2023-2024 (5<sup>th</sup> and 6<sup>th</sup> semester) for the batch **2021-2024** (Enclosed in Annexure-I).
4. **It was resolved to introduce the following subjects in 5<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Steganography/ Secure E-Commerce
2.	Internet of Things /Cloud Computing
3.	GoLang
4.	Machine Language for Cyber Security
5.	Database Technologies
6.	Disaster Recovery and Risk Management
7.	GoLang lab
8.	Machine learning for cyber security lab
9.	Database Technologies lab

Above subjects are offered in 5<sup>th</sup> Semester from the AY: 2023-24.

**It was resolved to introduce the following subjects in 6<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Cyber Threat Intelligence /Blockchain and cryptocurrency
2.	Web Application Testing
3.	Database Security
4.	Web Application Testing lab
5.	Database security lab
6.	Project Work

Above subjects are offered in 6<sup>th</sup> semester from the AY: 2023-24

5. **It was resolved to approve the** list of examiners AY: 2023-24.(Enclosed in Annexure- II)
6. **It was resolved to purchase** library books worth **Rs. 1,91,034/-** for AY: 2023-24. (Enclosed in Annexure- III)

7. **It was resolved to introduce** self-study course on “Intrusion detection system” from the AY:2023-24.
8. **It was resolved to sanction a budget of Rs. 59,75,000/-** for AY: 2023-24.(Enclosed in Annexure- IV).
9. **It was resolved to organise an international Conference/Workshop.**
10. **It was resolved to recruit one** teaching faculty for AY: 2023-24.(Enclosed in Annexure- V)
11. **It was resolved to provide** a Laboratory for First year students for AY: 2023-24.

The above resolutions were unanimously approved in the meeting.



**BOS Chairperson**



**Dean**



**HOD**

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

**B. Sc. COMPUTER SCIENCE AND CYBER SECURITY(2023-24) (CHOICE BASED CREDIT SYSTEM)**

**PROPOSED SCHEME(NEW)**

Year	Sem	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits	
I	I	General English-I (3) (AECC-1)	Value Education & Personality Development (2) (AECC-2)	Computer Fundamentals(4+1) (SEC-1)	Mathematical Foundation for Cyber Security(4) (Core-1)	IT Hardware And Networking(4+1) (Core-2)	Problem Solving and Programming in C (4+1) (Core-3)	29	24	AECC=2 SEC=1 CORE=3
	II	General English-II (3) (AECC-3)	Indian Heritage and Culture (2) (AECC-4)	Computer Networks (4+1) (SEC-2)	Elementary Number Theory and Laplace Transforms(4)(Core-4)	Principles of Information Security(4+1) (Core-5)	C++ and Data Structures (4+1) (Core-6)	29	24	AECC=2 SEC=1 CORE=3
II	III	Environmental Studies & Gender Sensitization (3) (AECC-5)	(2+1) (GE-1)*	Ethical Hacking (4+1)(Core-7)	Cryptographic Algorithms(4)(Core-8)	Server Administration(4+1) (Core-9)	Python Programming(4+1) (SEC-3)	30	25	AECC=1 GE=1 CORE=3 SEC=1
	IV	Discrete Mathematics(4)(GE-2)	Computer Forensics (4) (Core-10)	Cyber Ethics and IPR(4) (Core-11)	Web Technologies(2+1) (Core-12)	Network Security (4+1) (Core-13)	Python Scripting (4+1) (Core-14)	29	25	GE=1 CORE=5
III	V	Steganography / Secure ECommerce(4) (DSE-1)	Internet of Things /Cloud Computing(4) (DSE-2)	GoLang (4+1) (Core-15)	Machine Learning for Cyber Security(4+1) (Core-16)	Database Technologies (4+1) (Core-17)	Disaster Recovery and Risk Management (4) (Core-18)	30	27	DSE=2 CORE=4
	VI	Cyber Threat Intelligence / Block chain and cryptocurrency (3) (DSE-3)	Web Application Testing (4+1) (SEC-4)	Database security(3+1) (Core-19)	Project Work (6) (DSE-4)			30	19	DSE=2 SEC=1 CORE=1
Legend:										
1. Ability Enhancement Compulsory Course (AECC)								: 05		
2. Generic Elective (GE)								: 02		
3. Skill Enhancement Course (SEC)								: 04		
4. Core								: 19		
5. Discipline-Specific Elective (DSE)								: 04		
*Principles of Information Security										
<b>Total</b>								<b>177</b>	<b>149</b>	

**PROFESSOR**

Department of Computer Science & Engineering  
 University College of Engineering (A)  
 Osmania University  
 Hyderabad-500 007



## ANNEXURE- I

**YEAR AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY  
B.Sc. (COMPUTER SCIENCE AND CYBER SECURITY)  
FIFTH SEMESTER  
ACADEMIC YEAR 2023-24 OF 2021-24 BATCH(CBCS)**

Sl. No.	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
					Internal	External	Total	
1	CSCS23501A	<b>Electives-1(DSE-1)</b> Steganography	4	3	40	60	100	4
	CSCS23501B	Secure Ecommerce						
2	CSCS23502A	<b>Elective-2(DSE-2)</b> Internet of Things	4	3	40	60	100	4
	CSCS23502B	Cloud Computing						
3	CSCS23503	GoLang (Core-15)	4	3	40	60	100	4
4	CSCS23504	Machine Learning for Cyber Security (Core-16)	4	3	40	60	100	3
5	CSCS23505	Database Technologies (Core-17)	4	3	40	60	100	4
6	CSCS23506	Disaster Recovery and Risk Management (Core-18)	4	3	40	60	100	4
Practicals								
7	CSCS23507	GoLang lab	2	3	40	60	100	1
8	CSCS23508	Machine learning for cyber security lab	2	3	40	60	100	1
9	CSCS23509	Database Technologies lab	2	3	40	60	100	1
<b>Total</b>			<b>30</b>	<b>-</b>	<b>360</b>	<b>360</b>	<b>900</b>	<b>26</b>

\* Skill Enhancement course(SEC)

\*Discipline -Specific Elective(DSE)

\*Core

P.V. Sudha

**PROFESSOR**

Department of Computer Science & Engineering  
University College of Engineering (A)

Osmania University  
Hyderabad-500 007.

**YEAR AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS**  
**DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY**  
**B.Sc. (COMPUTER SCIENCE AND CYBER SECURITY)**  
**SIXTH SEMESTER**  
**ACADEMIC YEAR 2023-24 OF 2021-24 BATCH(CBCS)**

Sl. No.	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
					Internal	External	Total	
1	CSCS23601A	Electives-1(DSE-3) Cyber Threat Intelligence	3	3	40	60	100	3
	CSCS23601B	Blockchain and cryptocurrency						
2	CSCS23602	Web Application and Testing (SEC-4)	4	3	40	60	100	4
3	CSCS23603	Database Security (Core 19)	3	3	40	60	100	4
4	CSCS23606	Project Work(DSE-4) Project hour	15+1	3	40	60	100	6
<b>Practicals</b>								
5	CSCS23604	Web Application and testing lab	2	3	40	60	100	1
6	CSCS23605	Database security lab	2	3	40	60	100	1
Total			30	-	240	360	600	19

\* Skill Enhancement course (SEC)

\*Discipline -Specific Elective (DSE)

\*Core

*P. V. Sudhakar*

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

## ANNEXURE-II

### APPROVAL FOR LIST OF EXAMINERS

#### DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience (yrs)	Area of Specialisation
1	Mr. Rajesh Saturi	Assistant Professor	VBIT, Ghatkesar, Hyderabad	9966225467	14	Networks, security, AI, Data mining
2.	Mr. Ashok	Associate Professor	VBIT, Ghatkesar, hyderabad	8374070636, hi2kashok@gmail.com	20	Cyber Security
3	Mr.Sathish Yellanki	Industry expert	SkyEss Techno Solutions Pvt Ltd	Ph No- 8142190906 yellanki@skyessmail.com	15	Computer Science
4	Mr.Gouli Vamshi krishna	Industry &subject expert	CEO of Data Computing	628030750	05	Data science
5	Dr.S.Naga Prasad	Asso.Professor	Tara Govt College,Sangareddy	7893606134 nagkanna80@gmail.com	18	Computer Science
6	Dr.G.N.R .Prasad	Assoc. Professor	CBIT,Hyderabad	9885191683 gnrp@cbit.ac.in	20	Computer Science
7	Mrs. T.Pushpa Latha	Asst. professor	St. Ann's College for Women , Mehidipatnam	8106828882 pushpareddy28@gmail.com	16	Computer Science
8	Mrs. K. Sandhya Sree	Asst. Professor	St.Pious X Degree, and PG College for Women, Nacharam, Hyderabad	9866235230 sandhyagude69@gmail.com	16	Computer Science
9	Mr. N.Bhaske r Rao	Asst. Professor	AV College of Arts Science & Commerce, GaganMahal, Hyd	9885639321 braon4@gmail.com	23	Computer Science
10	Mr.Premson(Alumnus)	Manager	Manager, Oracle Corps.	premson@gmail.com	12	Computer Science
11	Mr.Sreekar	Data Analyst	<u>Deloitte Consulting</u>	<u>9966424674</u>	05	Computer Science

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**ANNEXURE – III**

**INDENT FOR LIBRARY BOOKS**  
**DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY**

S.No.	Author, Title of the book & Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1	Peter Wayner, Disappearing Cryptography–Information Hiding: Steganography & Watermarking,	Morgan Kaufmann Publishers, New York, 2002.	2	3098
2	Ingemar J. Cox, Matthew L. Miller, Jeffrey A. Bloom, Jessica Fridrich, TonKalker, Digital Watermarking and Steganography,	Morgan Kaufmann Publishers, New York, 2008.	2	17822
3	Neil F. Johnson, Zoran Duric, Sushil Jajodia, Information Hiding: Steganography and Watermarking- Attacks and Countermeasures,	Springer, 2012.	2	18170
4	Stefan Katzenbeisser, Fabien A. P. Petitcolas, Information Hiding Techniques for Steganography and Digital Watermarking,	Artech House Print on Demand, 1999.	2	15132
5	Teach Yourself in Hours 24 Go Next Generation Systems Programming with Golang - George Ornbo	Sams	2	10700
6	. Go Programming by Example Agus Kurniawan	Agus Kurniawan 1st Edition, 2015 Copyright © 2015	2	11026
7	Soma Halder, Sinan Ozdemir. 2018. Hands-on Machine Learning for Cyber Security	. 1st Edition. Packt Publishing House.	2	5914
8	Acharya, Seema. 2020. Demystifying NoSQL	1st Edition. Wiley Emerging	2	916

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		Technology Series. India: New Delhi.		
9	Sadalage, Pramod and Fowler, Martin. 2013. NoSQL Distilled.	Addison Wesley. Pearson Education.	2	10908
10	Rhodes-Ousley, Mark. “ Information Security: The Complete Reference, Second Edition, Information Security Management: Concepts and Practice	New York, McGraw-Hill, 2013.	2	10104
11	Whitman, Michael E. and Herbert J. Mattord, “ Roadmap to Information Security for IT and Infosec Managers”	Boston, MA: Course Technology, 2011.	2	9798
12	Sandeep Bhowmik, Cloud computing	Paperback, Cambridge University Press, 2017	2	2560
13	Jon Friedman. Mark Bouchard, CISSP. Foreword by John P. Watters, Cyber Threat Intelligence	Definitive Guide TM, 2015.	2	5702
14	Scott J. Roberts, Rebekah Brown, Intelligence- Driven Incident Response: Outwitting the Adversary	O’Reilly Media, 2017	2	5000
15	Henry Dalziel, How to Define and Build an Effective Cyber Threat Intelligence Capability	Elsevier Science & Technology, 2014.	2	7992
16	John Robertson, Ahmad Diab, Ericsson Marin, Eric Nunes, Vivin Paliath, Jana Shakarian, Paulo Shakarian, DarkWeb Cyber Threat Intelligence Mining	Cambridge University Press, 2017.	2	10856
17	Bob Gourley, The Cyber Threat	Createspace Independent Pub, 2014	2	2120

*R.V. Goda*

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18	Arvind Narayanan, Joseph Bonneau, Edward Felten, Andrew Miller and StevenGoldfeder, "Bitcoin and Cryptocurrency Technologies: A Comprehensive Introduction"	Princeton University Press, July, 2016.	2	4806
19	Antonopoulos, "Mastering Bitcoin: Unlocking Digital Cryptocurrencies.	O'Reiley, 1st Edition,2014.	2	4000
20	Hassan A. Afyouni, 2013. Database Security and Auditing: Protecting Data Integrity and Accessibility	Thomson Course Technology (c2006).	2	1758
21	Ron Ben-Natan,2009. Secure and Audit Oracle 10g and 11g; 1 edition	Auerbach Publications	2	5292
22	Implementing Database Security and Auditing 1St Edition,	Elsevier India.	2	1600
23	Dafydd Stuttard, Marcus Pinto. 2011. The Web Application Hacker's Handbook Finding and Exploiting Security Flaws. 2nd Edition.	John Wiley & Sons Inc.	5	21365
24	Gupta, Richa. 2021. Hands-on Penetration Testing for Web Applications. 1st Edition	BPB Publications. India: New Delhi	2	1438
25	Rajneesh Gupta. 2018. Hands-On Cybersecurity with Blockchain. First Edition.	Packt Publishing. New Delhi: Mumbai	1	2957
<b>TOTAL</b>				Rs.1,91,034/-

*P.V. Godhena*

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**ANNEXURE-IV**  
**BUDGET PROPOSAL AY: 2023-24**  
**DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY**

S. No	Items	Estimated Amount(Rs)
1.	Computers - 60 with following configuration 16GB RAM, 500GB HDD and i7 processor with internet connectivity :(60*Rs.90000/-)	-
2.	Seminars State/National/International)	15,000
3.	Workshop	15,000
4.	Field Visit	10,000
5.	Stationary/Infrastructure 60 computer tables and chairs 3 AC's: 3*45000:Rs.1,35,000 13 KV UPS: 3,00,000 1 Class Room  1 projector: Rs.70,000 1 Almaras: 5000	-      75,000
6.	Guest Lecture	15,000
7.	Miscellaneous(any day to be celebrated)	5,000
Total:		Rs.1,35,000

  
HOD SIGNATURE

  
DEAN SIGNATURE

**ANNEXURE -V**

**REQUIREMENT OF TEACHING FACULTY**  
**DEPARTMENT OF COMPUTER SCIENCE AND CYBER SECURITY**

<b>S.No</b>	<b>Number of Faculty</b>	<b>Qualification</b>	<b>Workload</b>
1.	01	M.Sc in Cyber Security	Odd semester : 20 Hours Even semester : 20 Hours

  
**HOD Signature**

  
**Dean Signature**

# LOYOLA ACADEMY

(DEGREE & PG COLLEGE)

OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA

(Autonomous and Affiliated to Osmania University)

Re-accredited with 'A' Grade (III Cycle) by NAAC

A "College with Potential for Excellence" by UGC

[www.loyolaacademy.edu.in](http://www.loyolaacademy.edu.in) Ph: 040-27862363/27860077 Fax: 040-27867939

## SCHOOL OF INFORMATICS

Department of B.Sc. Computer Science & Artificial Intelligence.

Year of Inception: 2021



Minutes of 3<sup>rd</sup> meeting of the Board of Studies held on  
Thursday, 19<sup>th</sup> January 2023 at 10.30 a.m.

Academic Year: 2023-24 for the batch of 2021-24

(An autonomous institution-affiliated to Osmania University, Hyderabad)

www.loyolaacademy.edu.in

3<sup>rd</sup> Board of Studies Meeting

Department of B.Sc. COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE.

Venue: Xavier Hall, Admin Block.

Loyola Academy

Date & Time: 19/01/23 & 10:30 A.M.

**AGENDA**

BOS/CSAI3 .1	:	Welcome address and Opening Remarks by Mrs. D. Arpitha Rani, Chairman, and Board Of Studies in the Department of B.Sc. COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE.
BOS/ CSAI3 .2	:	Action Taken Report of 2 <sup>nd</sup> meeting of Board of Studies held on February 4 <sup>th</sup> 2022. 3.2.1: Introduced scheme and syllabus of 2 <sup>nd</sup> academic year 2022-23(Third and Fourth semester) for the batch 2021-2024. The scheme and syllabus for Secondyear were approved by the board.
BOS/ CSAI3.3	:	Business brought forward by the Chairman, Board of studies – 3.3.1 : Approval of the syllabus for 3 <sup>rd</sup> academic year 2023 -2024( 5 <sup>th</sup> and 6 <sup>th</sup> semester) for the batch 2021-2024. Following are the courses to be offered in semester 5 and 6 respectively as per CBCS.(Annexure –I) <b>Semester- 5</b> 1. Software Engineering/ Fuzzy Logic and Expert System (DSE1) 2. Data Visualization tools with practical(SEC-3) 3. Data Engineering and Distributed Databases(Core-15) 4. Big Data Analytics with practical(Core-16) 5. Natural Language Processing with practical(Core-17) 6. Robotic Process Automation with practical (Core-18) <b>Semester -6</b> 1. Software Testing/ Computer Vision (DSE-2) 2. Human Computer Interaction / Data Security(DSE-3) 3. Deep Learning with practical(Core-19) 4. Major project(DSE-4) 3.3.2 : Proposal for the approval for list of examiners(Annexure –II) 3.3.3 : Proposal to approve list of Library books(Annexure –III) 3.3.4 : Proposal to approve the annual budget for AY: 2023-24(Annexure – IV) 3.3.5 : proposal to approve IT ACT as self study course.(Annexure – V) 3.3.6: Proposal to approve the requirement of a teaching faculty for AY:2023-24(Annexure-VI) 3.3.7: Proposal to approve the requirement of a class room. 3.3.8 : Proposal to approve the requirement of a lab
BOS/ CSAI3 .4	:	Suggestions given by BOS Members
BOS/ CSAI3 .5	:	Concluding remarks & Vote of thanks

**Loyola Academy**  
**Degree & PG College**  
**Alwal, Secunderabad- 500010**










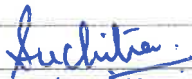






**MINUTES OF THE BOS MEETING**

**Date:** 19/01/2023

**Venue:** Xavier Hall

**Time:** 09:30 am

The Board Of Studies meeting for the program B.Sc. **COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**. was held on Thursday, 19 January at 09:30 am in the Xavier Hall. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Rev. Fr.Dr.L.Joji Reddy SJ	Principal ,President, Xavier board of Higher Education, India	
2.	Rev. Fr.CH.Amara Rao SJ	Rector & Correspondent	
3.	Fr.Dr.A.M.Joseph Kumar SJ	Vice- Principal	
4.	Fr. M. Arul Jothi SJ	Vice- Principal	
5.	Dr.N.Maria Das	Lay Vice-Principal	
6.	Dr.Ch.Sirisha	Vice- Principal	
7.	Prof .P.V.Sudha	University Nominee for BOS Dean of Informatics, University College of Technology, OU	
8.	Dr.Naresh Nelaturi	Data Scientist in Cognitive Care India Labs Pvt. Ltd	
9.	Shankar Gandrakota	Sr. Tech Lead Cyient Hyderabad	
10.	Dr.K.Rama	IQAC Coordinator	
11.	Dr. T.Suchitra Naidu	Dean, Academics	
12.	Dr. G.Anitha Mary	Dean, Informatics	
13.	Mrs.D.Arpitha Rani	Chairman, BOS	
14.	Mrs.S.Sarashri	Assistant Professor	
15.	MS.Ruchika Murthy	Assistant Professor	
16.	Mr.Harsha Sastry	Assistant Professor	

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the Program, **B.Sc. COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**. **Mrs D. Arpitha Rani** welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the **2<sup>nd</sup>** Board of Studies meeting held on February 4<sup>th</sup> 2022 were communicated to the members. The suggestions received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow** the Consolidated Scheme and syllabus for **Third Year** academic year 2023-2024 (**5<sup>th</sup> and 6<sup>th</sup> semester**) for the batch **2021-2024** (Enclosed in Annexure-I).
4. **It was resolved to introduce the following subjects in 5<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Software Engineering/ Fuzzy Logic and Expert System ( <b>DSE1</b> )
2.	Data Visualization tools with practical( <b>SEC-3</b> )
3.	Data Engineering and Distributed Databases( <b>Core-15</b> )
4.	Big Data Analytics with practical( <b>Core-16</b> )
5.	Natural Language Processing with practical( <b>Core-17</b> )
6.	Robotic Process Automation with practical ( <b>Core-18</b> )

Above subjects are offered in **5<sup>th</sup>** Semester from the AY: 2023-24.

**It was resolved to introduce the following subjects in 6<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Software Testing/ Computer Vision ( <b>DSE-2</b> )
2.	Human Computer Interaction / Data Security( <b>DSE-3</b> )
3.	Deep Learning with practical( <b>Core-19</b> )
4.	Major project( <b>DSE-4</b> )

Above subjects are offered in **6<sup>th</sup>** semester from the AY: 2023-24

5. **It was resolved to approve the** list of examiners AY: 2023-24.(Enclosed in Annexure-II)
6. **It was resolved to purchase** library books worth **5,35,430** for AY: 2023-24.(Enclosed in Annexure- III)
7. **It was resolved to sanction a budget of 3,00,000** for AY: 2023-24.(Enclosed in Annexure- IV).
8. **It was resolved to introduce self study course "IT ACT"** from the AY: 2023-24. (Enclosed in Annexure- V).

9. **It was resolved to organise an international Conference/Workshop.**
10. **It was resolved to recruit two teaching faculty for AY: 2023-24.(Enclosed in Annexure-VI)**
11. **It was resolved to provide the requirement of a classroom for Third year students for AY: 2023-24.**

The above resolutions were unanimously approved in the meeting.

*Anitha*  
Dean, Informatics

*P.V. Sridhar*  
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### ANNEXURE- I

LOYOLA ACADEMY, OLD ALWAL, SECUNDERABAD 500 010 TS  
DEPARTMENT OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

#### SCHEME OF INSTRUCTION FOR B.Sc CSAI: 2023-2024 FIFTH SEMESTER

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration Of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1	II	CSAI23501A	Software Engineering (DSE-1)	4	3	40	60	100	4
		CSAI2350 1B	Fuzzy Logic and Expert System (DSE-1))						
2	II	CSAI23502	Data Visualization Tools(SE C-3)	3	3	40	60	100	3
3	II	CSAI23503	Data Engineering and Distributed Databases (Core-15)	4	3	40	60	100	4
4	II	CSAI23504	Bigdata Analytics (Core-16)	4	3	40	60	100	4
5	II	CSAI23505	Natural Language Processing(C ore-17)	3	3	40	60	100	3
6	II	CSAI23506	Robotic Process Automation	3	3	40	60	100	3
<b>PRACTICALS</b>									
7	II	CSAI23507	Data Visualization Tools Lab(SEC-3)	2	3	40	60	100	1

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			Lab(SEC-3)						
8	II	CSAI23508	Big data Analytics Lab (Core-16)	2	3	40	60	100	1
9	II	CSAI23509	Natural Language Processing Lab(Core-17)	2	3	40	60	100	1
10	II	CSAI235010	Robotic Process Automation Lab Core-18)	2	3	40	60	100	1
<b>Total</b>				<b>29</b>	<b>-</b>	<b>400</b>	<b>600</b>	<b>1000</b>	<b>25</b>

**ACADEMIC YEAR 2023-2024 FOR THE BATCH 2021-2024 (CBCS)**

\*\*DisciplineSpecificElective(DSE)\*

SEC- Skill Enhancement Course

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LOYOLA ACADEMY, OLD ALWAL, SECUNDERABAD 500 010 TS  
DEPARTMENT OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

**SCHEME OF INSTRUCTION FOR B.Sc CSAI: 2023-2024 SIXTH SEMESTER**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration Of Exam( hrs.)	Marks			Credits
						Internal	External	Total	
1	II	CSAI23601A	Software Testing (DSE-2)	4	3	40	60	100	4
		CSAI23601B	Computer Vision (DSE-2)						
2	II	CSAI23602A	Human Computer Interaction (DSE-3)	4	3	40	60	100	4
		CSAI23602B	Data Security (DSE-3)						
3	II	CSAI23603	Deep Learning (Core-19)	4	3	40	60	100	4
<b>PRACTICALS</b>									
4	II	CSAI23604	Deep Learning Lab(Core-19)	2	3	40	60	100	1
5	II	CSAI23605	Major Project	15	3	40	60	100	6
<b>Total</b>				<b>29</b>	<b>-</b>	<b>200</b>	<b>300</b>	<b>500</b>	<b>19</b>

**ACADEMIC YEAR 2023-2024 FOR THE BATCH 2021-2024 (CBCS)**

**\*\*DisciplineSpecificElective(DSE)\***

*P.V. S. S. S.*

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**ACADEMIC YEAR 2023-2024 FOR THE BATCH 2021-2024 (CBCS ANNEXURE- II)  
B.Sc COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**

**LIST OF BOARD OF EXAMINERS**

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience	Area of Specialisation
1.	Mrs.Kalpana	Professor	St. Francis College for Women, Begumpet, Hyderabad	9849000165 <a href="mailto:prem.kalpana@gmail.com">prem.kalpana@gmail.com</a> 14 Yrs	14 Yrs	AI, Python, OS, SE, Discrete Mathematics, Computer Networks, DAA, Network Security, OOAD, CO, Data warehousing and mining, Webprogramming, Distributed Systems.
2.	Mrs. K. SandhyaSree	Assistant professor	St.Pious X Degree, and PG College for Women, Nacharam, Hyderabad	9866235230 <a href="mailto:sandhyagude69@gmail.com">sandhyagude69@gmail.com</a> 20 Yrs	20 Yrs	AI, Python, OS, SE, Computer Networks, DAA, Network Security, OOAD, CO, Data warehousing and mining, Web programming.
3.	Mrs.V. Sreeprada	Assistant Professor	Vasundara Degree College for Women, ECIL, Hyderabad	9000145083 <a href="mailto:vsreeprada21@gmail.com">vsreeprada21@gmail.com</a>	11 Yrs	C, C++, DBMS, Web Programming, E-Commerce, Java, Operating Systems, Python Programming, Data Engineering Through Python
4.	Mr. N.BhaskerRao	Assistant Professor	AV College of Arts Science & Commerce, GaganMahal, Hyd	9885639321 <a href="mailto:braon4@gmail.com">braon4@gmail.com</a> 25 yrs	25 yrs	Data Structures, C++,DBMS, OS, Data mining, Information security, Computer networks, Cloud computing

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5.	Mrs.T. PushpaLatha	Assistant Professor	St. Ann's College for Women , Mehidipatn am	8106828882 <a href="mailto:pushpareddy28@gmail.com">pushpareddy28@gmail.com</a> 10 years	10 years	Data Structures, C++,DBMS, OS, Data Mining, Information security, Machine Learning, Computer networks, Distributed Systems.Mining Massive Datasets, Cloud computing, FIT
6.	Mr.P.Abdul Subhanallah	Assistant Professor	CSI Wesley Institute of Technolog y and Science, Hyd	9849567526 <a href="mailto:p.subhan@gmail.com">p.subhan@gmail.com</a> 23 years	23 years	IT Hardware and Networking, Information Security, DBMS, Operating Systems, C, C++ and Java
7	Mr.Sathish Yellanki	Industry expert	SkyEss Techno Solutions Pvt Ltd	Ph No-8142190906 <a href="mailto:yellanki@skyessmail.com">yellanki@skyessmail.com</a>	15	Computer Science
8	Dr.G.N.R. Prasad	Assoc. Professor	CBIT,Hyd erabad	9885191683 <a href="mailto:gntp@cbit.ac.in">gntp@cbit.ac.in</a>	20	Computer Science
9	Mr. N.Bhasker Rao	Asst. Professor	AV College of Arts Science & Commerc e, GaganMa hal, Hyd	9885639321 <a href="mailto:braon4@gmail.com">braon4@gmail.com</a>	23	Computer Science

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### ANNEXURE- III

#### **B.Sc COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**

#### **INDENT FOR LIBRARY BOOKS**

S.No.	Title of the book & Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1	Saeed B. Niku, Introduction to Robotics Analysis, Application,	Pearson Education Asia, 2019, Third Edition.	3	35400
2	Vijay Madiseti and Arshdeep Bahga, Internet of Things - A Hands-on Approach,.	First Edition, University Press, 2015	20	14,600
3	Discrete Mathematics for Computer Scientists & Mathematicians	2 <sup>nd</sup> Edition, Joe L Mott, Kandel, Baker, PHI	3	28,755
4	Matrices By A.R.Vasistha	Krishna prakashanmandir, Meerut	10	4,000
5	Thareja, Reema. 2020. Fundamentals of Computers. 2 <sup>nd</sup> Edition	Oxford Higher Education	15	6,750
6	Thareja Reema. 2015. Programming in C. 2 <sup>nd</sup> Edition.	New Delhi:BPB.	15	11,625
7	Gupta, R.C. Statistical Quality Control. Kannapublications.	Richard A. Johnson, Miller, Freund.	5	10,000
8	Probability & Statistics for Engineers.	PHI Publications	5	5,000
9	Sebesta, Robert W. 2008. Programming the World Wide Web. 4 <sup>th</sup> Edition.	New Delhi: Pearson Education	15	8,400
10	Silberschatz Abraham, Galvin Peter, B. and Gagne Greg. 2006	Operating System Concepts, India: Wiley.	10	20,000
Seco nd	Distributed Systems	PHI 2nd Edition, 2009	10	30,253

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year 11	,Andrew S. Tanenbaum and Maarten Van Steen,			
12	Guide to Cloud Computing, R. Hill, L. Hirsch, P. Lake, S. Moshiri	Principles and Practicel, Springer, 2013.	10	10,500
13.	Data Communications and Networking. 3 <sup>rd</sup> Edition. New Delhi: Tata McGrawHill. (UNIT- I andII)	Forouzan, BeharouzA. 2011	15	5,985
14	TCP/IP Protocol Suite. 3 <sup>rd</sup> Edition. New Delhi: Tata McGrawHill. (UNIT- III,IV,V)	Forouzan, BeharouzA. 2010	15	5265
15.	Database System Concepts. 6 <sup>th</sup> Edition. McGraw-Hill	Silberschatz, Abraham. Korth, Henry F and Sudharshan, S. 2013.	10	5,360
16	PL/SQL (The Programming Language of Oracle). 4 <sup>th</sup> Revised Edition. New Delhi: BPB publications.	Bayross, Ivan. 2009. SQL	10	4,950
17	Introduction to Python Programming CRC Press, Taylor & Francis Group	Gowrishankar S, Veena A. 2019..	15	13,500
18	Core Python Programming. DreamTech Press. India:New Delhi	Dr NageshwaraRao. 2017	15	8,985
19	Artificial Intelligence 1 <sup>st</sup> Edition. I.K International Publishing House Delhi	Kumar, Ela. 2019	10	4,650
20	Artificial Intelligence, A Modern Approach. 3 <sup>rd</sup> Edition. Pearson Education. New Delhi: India.	RusselJ,Stuart. Norvig, Peter. 2015.	15	13,200

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21	Operations Research. New Delhi: S. Chand & Co.	Sharma S.D. 2007	10	7,000
22	DT Editorial Services. 2016. Big Data Black Book	Dreamtech Press	20	10,000
23	Dutt Saikat, Chandra Mouli Subramanian, Das Amit Kumar. 2019. Machine Learning	1 <sup>st</sup> Edition. Pearson India Education Pvt Ltd. India: New Delhi	5	3,000
24	Jose, Jeeva. 2020. Introduction to Machine Learning Using Python	1 <sup>st</sup> Edition. Khanna Book Publishing Co. Pvt Ld. India: New Delhi.	5	800
25	Geoffrey C Fox, Kaittwang and Dongra Elsevier, Jack J. 2012. Distributed and Cloud Computing	India.	15	8,205
26	Coulouris G, Dollimore J and Kindberg T. Distributed Systems Concepts and Design	4 <sup>th</sup> Edition. Pearson Education	5	800
27	Jure Leskovec Anand Rajaraman Jeffrey D. David Ullman Mining Of Massive Data Sets Second edition	Second edition	15	9,270
28	Zinoviev, Dmitry. 2016. Data Science Essentials in Python: Collect, Organize, Explore, Predict, Value. The Pragmatic Programmers LLC	USA	15	28,600
Third year 29	Software Engineering, A practitioner's Approach.	Pressman, Rogers S. 2015. 6 <sup>th</sup> Edition. Mc Graw Hill Education <i>8<sup>th</sup> Edition.</i>	15	4,500
30	Fuzzy Logic with Engineering Applications.	Timothy J Ross. 2010. John Wiley and Sons.. 3 <sup>rd</sup> Edition.	15	9,450
31	Principles of Distributed Database Systems	M. Tamer Özsu • Patrick Valduriez Third Edition	2	19170

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32	Distributed Operating Systems	Concepts and Design By Pradecp	3	10899
33	Learning Tableau	Milligan,Joshua N.20162 <sup>nd</sup> Edition.Packt Publishing Ltd	4	13180
34	Big DataBlackBook	DT EditorialServices.2016 Dreamtech Press	15	6840
35	Natural Language Processing with Python	Steven Bird, Ewan Klein, and Edward Lope, O'Reily, 2009	15	26,250
36	Natural Language Processing Recipes	Unlocking Text Data with Machine Learning and Deep Learning using Python. Akshay Kulkarni, Adarsha Shivananda, A press, 2019	2	8,028
37	Robotic Process Automation: Guide To Building Software Robots, Automate Repetitive Tasks & Become an RPA Consultant	Richard Murdoch. 2020. 1 <sup>st</sup> Edition. PacktPublishingKindle Store	5	7,825
38	Robotic Process Automation with Automation Anywhere: Techniques to fuel business productivity and intelligent automation using RPA.	HusanMahey. 2020. 1 <sup>st</sup> Edition. Packt Publishing Kindle Store.	5	16,475
39	TestingComputerSoftware	CemKaner,JackFalk,HungQuoc guyen.1998 Comdex	15	7,500
40	Computer Vision- A Modern Approach, PHI Learning (Indian Edition),	David A. Forsyth and Jean Ponce: Computer Vision 2009.	15	13,530
41	The essential guide to user interface design	Wilbert O Galitz, Wiley Dream Tech.	15	19,350
42	Human – Computer Interaction	Alan Dix, Janet Fincay, GreGoryd, Abowd, Russell Bealg, Pearson Education	5	30000

*P.V. Sreenivasulu Reddy*

**PROFESSOR**  
 Department of Computer Science & Engineering  
 University College of Engineering (A)  
 Osmania University  
 Hyderabad-500 007.

43	Cryptography and Network Security	Stallings, William 7 <sup>th</sup> Edition, New Delhi: Pearson Education	20	15,980
44	Deep Learning with Python	François Chollet, Manning Publications, 2018	20	11,600
				5,35,430

P. V. Sudha

**PROFESSOR**  
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Hyderabad-500 007.

ANNEXURE- IV

CSAI-BUDGET PROPOSAL AY: 2023-24

<b>S.No.</b>	<b>Items</b>	<b>Estimated Amount(Rs)</b>
1.	Computers for configuration, installation of Software and maintenance	50,000
2.	Seminars(State/National/International)	10,000
3.	Workshop	10,000
4.	Field Visit	10,000
5.	Guest Faculty	15,000
6.	Stationary/Infrastructure (LCD Projector& CPU, Class room)	2,00,000
7.	Miscellaneous(Any important day to be celebrated)	5,000
TOTAL		3,00,000

  
HOD Signature

  
Dean Signature

ANNEXURE – VI

LIST OF FACULTY REQUIREMENT

S.No	Number of Faculty	Qualification	Workload
1.	02	M.Tech(cse) Preferred either phd or specialized in Artificial Intelligence	I semester : 33 Hours II semester : 23 Hours

  
**HOD Signature**

  
**Dean Signature**

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

# LOYOLA ACADEMY

(DEGREE & PG COLLEGE)

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## SCHOOL OF ARTS & HUMANITIES

DEPARTMENT OF B.A (ECONOMICS, PUBLIC  
ADMINISTRATION, COMPUTER APPLICATIONS)

YEAR OF INCEPTION: 2021



Minutes of 3<sup>rd</sup> meeting of the Board of Studies held on  
Tuesday, 17 January 2023 at 11:30 am

Academic Year: 2023-24 for the batch of 2022-25.



## LOYOLA ACADEMY DEGREE & P.G. COLLEGE

(An autonomous institution -affiliated to Osmania University, Hyderabad)

[www.loyolaacademy.edu.in](http://www.loyolaacademy.edu.in)

3<sup>rd</sup>- Board of Studies Meeting

Department of B.A (EPCA)

Venue: ConferenceRoom, Admin Block

Loyola Academy

Date and time-17/1/23, 11.00 AM

### AGENDA

BOS/EPCA3.1	:	Welcome address and Opening remarks by Chairman, BOS Mrs Sunindita Pan in the Department of BA (EPCA).
BOS/EPCA3.2	:	Action Taken Report of 2 <sup>nd</sup> meeting of Board of Studies held on 3.2.1: Second BOS meeting was held on 1 <sup>st</sup> February2022 ,10.30 am at Osmania university in the respective BOS Chairpersons office for the approval of the scheme and syllabus for second academic year 2022-23(III and IV semester)for the batch 2021-2024. The scheme and second year syllabus were ratified and approved by the Board. The same is followed and taught by the faculty of the department for the second year students of BA Economics, Public Administration and Computer Application

BOS/EPCA3.3	<p>- Business brought forward by the Chairman, Board of studies –</p> <p>3.3.1: Proposal to approve the Consolidated Scheme for the batch 2021-24(Annexure-I).</p> <p>3.3.2: Proposal to approve new syllabus for third year (semester V and VI) for the academic year of 2023-2024for the batch of 2021-2024 as per CBCS. Following are the courses to be offered in Semester 5 and 6 respectively.</p> <p><b>V semester</b></p> <ul style="list-style-type: none"> <li>● EPCA 23501A Financial Economics / EPCA 23501B Urban governance(DSE1)</li> <li>● EPCA 23502 A Industrial Economics/ EPCA 23502 B cyber laws and IPR(DSE2)</li> <li>● EPCA 23503 Research methodology</li> <li>● EPCA 23504 International Economics</li> <li>● EPCA 23505 Human Resources Management</li> <li>● EPCA 23506 Python programming AND EPCA 23507 PYTHON PRACTICAL</li> </ul> <p><b>VI semester</b></p> <ul style="list-style-type: none"> <li>● <b>EPCA 23601 A ECONOMICS OF ENVIRONMENT</b></li> <li>● /EPCA 23601 B Indian constitution</li> <li>● EPCA 23602A Good governance/</li> <li>● 23602 B Principles of information security</li> <li>● EPCA 23603 Agricultural economics</li> <li>● EPCA 23604 Financial and materials management</li> <li>● EPCA 23605 DBMS (with practical)</li> <li>● EPCA 23606 Project work</li> </ul> <p>3.3.3 : To consider and approve the list of examiners(Annexure –II)</p> <p>3.3.4 : To consider and approve list of Library books(Annexure –III)</p> <p>3.3.5 : To consider and approve the Annual budget (Annexure – IV)</p> <p>3.3.6: To consider and approve requirement of a teaching faculty for AY: 2023-24. (Annexure-V).</p> <p>3.3.7: To consider andapprove requirement of a classroom for AY: 2023-24.</p>
BOS/EPCA3.4	- Suggestions given by BOS Members
BOS/EPCA3.5	- Concluding remarks & Vote of Thanks

Loyola Academy

Degree & PG College  
Alwal, Secunderabad- 500010

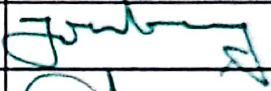

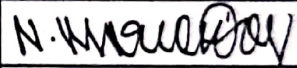
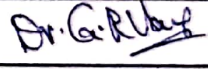



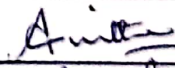



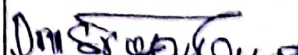
MINUTES OF THE -BOS MEETING

Date: 17/1/2023

Venue: Conference Room

Time: 11.00am

The Board of Studies meeting of the program BA Economics, Public Administration, Computer Applications was held on 17/01/2023 at Admin Block in the Conference room. Following members attended the meeting.

Sl.no	Name of the attendee	Designation	Signature
1	Rev. Fr Dr LJoji Reddy	Principal	
2	Rev. Fr Arul Jothi	Vice Principal	
3	Rev. Fr Dr Joseph Kumar	Vice Principal	
4	Dr. N. Maria Das	Lay Vice Principal	
5	Dr. T.Suchitra Naidu	Dean , Academics	
6	Dr. G. Ratna Vani	Dean , Arts	
7.	Prof B Narayana	OU BOS CHAIRPERSON, ECONOMICS	
8	Prof ArunaJyothy	OU BOS Chairperson, Public administration	
9	Prof P V Sudha	OU BOS Chairperson, computer applications	
10	Dr Anita Mary	Dean Of Informatics	
11	Mrs Sunindita Pan	HOD, BA EPCA	
12	Mr. Musalaiah	Asst. Professor	
13	Mr.Balramkrishna	Asst. Professor	
14	Mr. Srujan kumar	Asst. Professor	

The following resolutions were made in the meeting,

1. The chairman, BOS of the Program BA Economics, Public Administration, Computer Applications Mrs Sunindita Pan welcomed, introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the previous BOS held on 1<sup>st</sup> February 2022 was communicated to the members. The suggestions received have been incorporated and placed for the confirmation. The same was approved by the academic council.
3. It was resolved to follow the Consolidated Scheme for the academic year 2023-24 for the batch 2021-24(Annexure-I).
4. It was resolved to introduce the new syllabus for third year (semester V and VI) for the academic year of 2023-2024 for the batch of 2021-2024 as per CBCS.

It was resolved to introduce the following subjects in 5 semesters For AY 2023-24

Sl.no	Title of the subject
1	Financial economics/urban governance
2	Industrial economics/cyber law and IPR
3	Research methodology
4	International economics
5	HRM
6	Python programming with practical's

It was resolved to introduce the following subjects in 6 semester for AY 2023-24

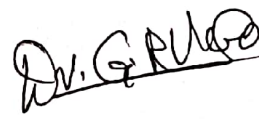
Sl.no.	Title of the subject
1	Economics of environment/Indian constitution
2	Good governance/principles of information security
3	Agricultural economics
4	Financial and materials management
5	DBMS with practical's
6	Project

5. It was resolved to approve the list of examiners for BA Economics, Public Administration, and Computer Applications. (Enclosed in Annexure- II)
6. It was resolved to purchase library books with a budget of Rs 42,750 for AY: 2023-24. (Enclosed in Annexure- III)
7. It was resolved to sanction the budget of Rs1, 66,250 for AY: 2023-24. (Enclosed in Annexure- IV)
8. It was resolved to recruit additional teaching faculty for AY: 2023-24. (Enclosed in Annexure- V)
9. It was resolved to provide additional one classroom and laboratory for third year students for AY: 2023-24.
10. It was resolved to offer the Bridge course as Basics of Computer Applications, Add on course as Research Writing, Self study course of Corporate Governance and GE in Human Rights.

11. The above resolutions were unanimously approved in the meeting.



Sign of BOS chairperson



Sign of Dean



Sign of HOD

**Chairperson, BoS**  
Dept. of Public Administration  
Univ. College of Arts & Social Science  
Osmania University, Hya-7, (H)

**Loyola Academy**  
**B. A (Economics, Public administration, computer applications) (2021-22) Academic Year**  
**Choice-Based Credit System (CBCS)**

Year	Sem.	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits				
I	I	English-I (3) (AECC-1)	Indian Heritage and Culture (2) (AECC-2)	Introduction to statistics (4+1) (SEC-1)	Microeconomics (4) (CORE-1)	Basics of public administration (4) (CORE-2)	Fundamentals of Information Technology (4+1) (CORE-3)	29	23	AECC-2 SEC-1 CORE-3			
	II	English-II (3) (AECC-3)	Value Education & Personality Development (2) (AECC-4)	Macroeconomics (4) (CORE-4)	Development Dynamics and Emerging Trends in Public Administration (4) (CORE-5)	Problem solving and programming in C (4+1) (CORE-6)	Public office administration (4) (GE-1)	29	22	AECC-2 CORE-3 GE-1			
II	III	(2+1)(GE-1)	Environmental Studies and Gender Sensitization (3) (AECC-5)	Entrepreneurship development (4)(SEC-2)	Development economics (4) (CORE-7)	Union government of India (4) (CORE-8)	Programming using C++ (4+1) (CORE-9)	29	23	AECC-1 GE-1 CORE-3 SEC-1			
	IV	Web programming (3+1) (SEC-3)	Indian economy (4) (core-10)	State government (4) (CORE-11)	Public economics (4) (core-12)	Rural Governance in India (4) (SEC-4)	Java programming (4+1) (Core-13)	29	25	SEC-2 CORE-4			
III	V	Financial Economics /Urban governance (4) (DSE-1)	Industrial economics/cyber laws and intellectual property rights (4) (4)(DSE-2)	Research methodology (4) (GE-2)	International economics (4) (CORE-14)	Human Resource Management (4) (CORE-15)	Python Programming (4+1) (CORE-16)	29	25	DSE-2 CORE-3 GE-1			
	VI	Economics of environment/Indian Constitution (4) (DSE-3)	Good Governance/Principles of Information Security (4) (DSE-4)	Agricultural economics (4) (core-17)	Financial and materials management (4) (CORE-18)	DBMS (4+1) (CORE-19)	PROJECT (4)	29	25	DSE-2 CORE-3 GE-1			
		1. Ability Enhancement Compulsory Course (AECC) : 05 2. Inter disciplinary (GE) : 01 3. Skill Enhancement Course (SEC) : 04 4. Core : 19 5. Discipline-Specific Elective (DSE) : 04 6. generic elective : 02									174	143	
<b>Total</b>													

B A economics, public administration, computer applications

Academic Year 2023-2024  
 Chairperson, BOS  
 Dept. of Public Administration  
 College of Arts & Social Science  
 Osmania University, Hyd-7. (TS)

Head  
 Department of Economics  
 Osmania University, Hyd-7.



**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
B.A. ECONOMICS, PUBLIC ADMINISTRATION, COMPUTER APPLICATIONS (CBCS)  
FIFTH SEMESTER  
ACADEMIC YEAR 2023-24 of 2021-24 BATCH**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
<b>THEORY</b>									
1	II	EPCA23501 A EPCA23501B	(DSE-1)financial economics /urban governance (DSE-1)	5	3	40	60	100	4
2	II	EPCA23502A EPCA23502B	Industrial economics/cyber laws and intellectual property rights (DSE-2)	5	3	40	60	100	4
3	II	EPCA23503	Research methodology (GE-2)	5	3	40	60	100	4
4	II	EPCA23504	International economics (CORE -14)	4	3	40	60	100	4
5	II	EPCA23505	Human Resource Management (CORE -15)	4	3	40	60	100	4
6	II	EPCA23506	Python programming (CORE -16)	4	3	40	60	100	4
<b>Practicals</b>									
7	II	EPCA23507	Python programming (core-16)	2	3	40	60	100	1
<b>Total</b>				<b>29</b>		<b>280</b>	<b>420</b>	<b>700</b>	<b>25</b>

*[Signature]*  
Chairperson, BoS  
Dept. of Public Administration  
College of Arts & Social Science  
Osmania University, Hyd-7. (TS)

*[Signature]*

*[Signature]*  
**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyd-500 007

B A Economics, Public Administration, computer applications for Academic Year 2023-24 (CBCS)



Loyola Academy Degree & PG College, Alwal, Secunderabad 500 010

**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
B.A. ECONOMICS, PUBLIC ADMINISTRATION, COMPUTER APPLICATIONS (CBCS)  
SIXTH SEMESTER  
ACADEMIC YEAR 2023-24 of 2021-24 Batch**

Sl. No.	Part	Subject Code	Title of the Subject	Hour s/ week	Duration of Exam (hrs.)	Marks			Credits
						Inter nal	Exter nal	Total	
<b>THEORY</b>									
1	II	EPCA23601 A EPCA23601 B	Economics of environment/Indian constitution(DSE 3)/ (DSE 3)	5	3	40	60	100	4
2	II	EPCA23602A EPCA23602B	Good governance and/Principles of information security(DSE 4)/ (DSE-4)	5	3	40	60	100	4
3	II	EPCA23603	Agricultural economics(4)(Core - 17)	4	3	40	60	100	4
4	II	EPCA23604	Financial and materials management(CORE 18)	4	3	40	60	100	4
5	II	EPCA23605	DBMS and Networks (CORE -19)	4	3	40	60	100	4
<b>PRACTICALS</b>									
6.	II	EPCA23606	DBMS	2	3	40	60	100	1
7	II	EPCA23607	Project Work	5	3	40	60	100	4
<b>Total</b>				<b>29</b>		<b>280</b>	<b>420</b>	<b>700</b>	<b>25</b>

*[Signature]*  
Chairperson, BOS  
Dept. of Public Administration  
College of Arts & Social Science  
Osmania University, Hyd-7. (TS)

*[Signature]*  
**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)

B A Economics, Public Administration, computer applications for Academic Year 2023-2024 (CBCS)

**ANNEXURE- II**  
**LIST OF BOARD OF EXAMINERS**

S.N O.	NAME OF EXPERT	DESIGNATION	INSTITUTION	CONTACT DETAILS	EXPERI ENCE	AREA OF SPECIALIZATIO N
1.	Dr.Rupali	Assit.Prof. Public Administration	St.Francis College for Women	9866524501 rupalistf@gmail .com	20	Human resource management & Union Administration
2.	Dr.V.V. Mallika	Assit.Prof. Public Administration	Babu Jagjivan Ram Govt.Degree college	9291467682 mallikavvdl@g mail.com	15	Good governance & Urban governance
3.	Mrs.Haritha	Assit.Prof. Public Administration	Kasturbha college for women	9849977245 Mharitha2205@ gmail.com	10	Basics of Public Admin&Develo pment Dynamics of Pub Admin

**ANNEXURE-III**  
**INDENT FOR LIBRARY BOOKS**

<b>Sl.no.</b>	<b>Title of book and edition</b>	<b>Publishing house</b>	<b>No. of copies</b>	<b>Estimated cost</b>
1	Agricultural economics,2019	Himalaya publishers	05	2,250
2	Agricultural economics,2019	CBS publishers	05	1,250
3	Agricultural economics,2019	Laxmi publications	05	1500
4	Economics of insurance,2022	Chand publishers	05	1,250
5	Economics of insurance,2022	Himalaya publishers	05	1000
6	Economics of insurance,2022	Telugu academy	05	1000
7	Industrial economics,2021	Himalaya	05	1250
8	Industrial economics,2021	pearson	05	1500
9	Industrial economics,2021	Chand publications	05	350

10	Public economics,2021	Himalaya publishers	05	2000
11	Financial economics,2021	oxford	05	2000
12	Financial economics,2021	Chand	05	2000
13	Economics of environment,2022	Himalaya	05	2000
14	Economics of environment,2022	Chand	05	1500
15	Economics of environment,2022	pearson	05	1500
16	Economics of environment,2022	SIA	05	1500
17	International economics,2022	Himalaya	05	1500
18	International economics,2022	pearson	05	2000
19	International economics,2022	Chand	05	2000
20	A hand book of Human resource management practice	Kogan page	05	2000
21	Rethinking Governance : The centrality of the State in modern society	Cambridge university	05	2500
22	Key Concepts in Governance	Sage	05	3000
23	Hand book of Globalisation, Governance and Public administration (Ed)	CRC	05	2500
24	Public personnel Administration by Goel.S.L	Deep&Deep	05	2500

25	Financial Management by Brigham	CengageLearning	05	2500
<b>TOTAL</b>				42,750

**ANNEXURE-IV**  
**BUDGET PROPOSAL AY 2023-24**

S.no	Items	Estimated Amount (Rs)
1.	Computer-desktop with scanner cum printer	45,000
2	Library books for department(YOJANA, INDIA TODAY MAGAZINE, COMPETITIVE EXAM UPSC BOOK)	42,750
3	Seminar/workshop	30,000
4	Field visit	6,000
5	Guest faculty	10,000
6	DEPARTMENT activity ( any important day to be celebrated)	5,000
7	Infrastructure like , bulletin board, almirah	5,000
8.	Miscellaneous	2,500
	GRAND TOTAL	1,46,250



HOD's Signature



Dean's Signature

**ANNEXURE – V**  
**LIST OF FACULTY REQUIREMENT**

S.No	Number of Faculty	Qualification	Workload
1.	01-Public Administration	MA, Ph D	I semester : 25 Hours II semester : 37 Hours
2.	01-Economics	MA, Ph D	I semester : 20 Hours II semester : 16 Hours
3.	01-Computer Science	M Tech	I semester : 16 Hours II semester : 17 Hours

  
**HOD Signature**

  
**Dean Signature**

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## SCHOOL OF INFORMATICS

### Department of B.Sc. Computer Science & Internet of Things

Year of Inception:2022



**Minutes of 2<sup>nd</sup> meeting of the Board of Studies held on  
Thursday, 19<sup>th</sup> January 2023 at 10.30 a.m.**

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

**Academic Year: 2023-24 for the batch of 2022-25**

# LOYOLA ACADEMY

(An autonomous institution-affiliated to Osmania University, Hyderabad)

www.loyolaacademy.edu.in

2<sup>nd</sup> Board of Studies Meeting

Department of B.Sc. Computer Science & Internet of Things

Venue: Conference Room, Admin Block.

Loyola Academy

Date & Time: 19/1/23 at 10.30 a.m.

## AGENDA

Pre-BOS/CSIOT 2.1	:	Welcome address and Opening Remarks by Mrs. T. Suneetha Chairman, Board Of Studies in the Department of B.Sc. Computer Science & Internet of Things
Pre-BOS/CSIOT 2.2	:	Action Taken Report of 1 <sup>st</sup> meeting of Board of Studies held on 19 <sup>th</sup> August 2022. 2.2.1: Introduced Tentative scheme and syllabus of 1 <sup>st</sup> academic year 2022-23 (first and second semester) for the batch 2022-2025. The Tentative scheme and first year syllabus were approved by the board.
Pre-BOS/CSIOT 2.3	:	Business brought forward by the Chairman, Board of studies – 2.3.1 : Approval of the Consolidated Scheme and Syllabus for 2 <sup>nd</sup> academic year 2023-24 (3 <sup>rd</sup> and 4 <sup>th</sup> semester) for the batch 2022-2025. Following are the courses to be offered in semester 3 and 4 respectively as per CBCS (Choice Based Credit System). (Annexure -I) <b>Semester - 3</b> ➤ Environmental Studies and Gender Sensitization ) (AECC-5) ➤ G23CSIOT1T GE1 - Introduction to IOT using Arduino ➤ CSIOT22301 - Discrete Mathematics (Core-7) ➤ CSIOT22302 - Advanced Micro Processors (Core-8) ➤ CSIOT22303 - Computer Organization and Architecture(Core-9) ➤ CSIOT22304 - Python Programming (Core-10) ➤ G23CSIOT1P GE1 - Introduction to IOT using Arduino with practical's ➤ CSIOT22305 - Advanced Micro Processors with practical's ➤ CSIOT22306 - Python Programming with practical's <b>Semester - 4</b> ➤ BS23401 GE2 - Probability and Statistics ➤ CSIOT22401 - Smart Sensor Technologies (SEC-3) ➤ CSIOT22402 - Advanced Micro-controller based systems (Core-11) ➤ CSIOT22403 - Fundamentals of IOT and Robotics (Core-12) ➤ CSIOT22404 - Embedded System Design and Programming (Core-13) ➤ CSIOT22405 - Programming with Raspberry Pi (Core-14) ➤ CSIOT22406 - Advanced Micro-controller based systems with practical's ➤ CSIOT22407 - Fundamentals of IOT and Robotics with practical's ➤ CSIOT22408 - Embedded System Design and Programming with practical's ➤ CSIOT22409 - Programming with Raspberry Pi with practical's 2.3.2: Proposal for the approval for list of examiners for AY: 2023-24 (Annexure-II) 2.3.3: Proposal to approve list of Library Books for AY: 2023-24 (Annexure - III) 2.3.4: Proposal to approve the annual budget for AY: 2023-24(Annexure - IV) 2.3.5: Proposal to approve the new Self Study Course "Study of electronic component data sheet". (Annexure-V) 2.3.6: Proposal to approve the new Add-On course "Smart home Automation with IoT". (Annexure-V) 2.3.7: Proposal to approve the requirement of a teaching faculty for AY: 2023-24. (Annexure-VI) 2.3.8: Proposal to approve the requirement of a class room. 2.3.9: Proposal to approve the new computer lab.
Pre-BOS/CSIOT 2.4		Suggestions given by BOS Members
Pre-BOS/CSIOT 2.5	:	Concluding remarks & Vote of Thanks



# LOYOLA ACADEMY

OLD ALWAL, SECUNDERABAD 500 010 TS  
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## DEPARTMENT OF COMPUTER SCIENCE & INTERNET OF THINGS BOARD OF STUDIES MEETING

Thursday, 19<sup>th</sup> January, 2023

09:30 AM

1	Rev Fr Dr. L. Joji Reddy SJ, Principal, Loyola Academy, President, Xavier board of Higher Education, India	
2	Rev Fr Ch. Amara Rao SJ, Rector & Correspondent	
3	Rev Fr Arul SJ, Vice-Principal (UG)	
4	Rev Fr Dr. AMJ Kumar SJ, Vice-Principal (PG)	
5	Dr. N. Maria Das Lay Vice-Principal	
6	Dr. CH. Sirisha Lay Vice-Principal	
7	Dr. P. V. Sudha, Prof.Dr.P.V Sudha Dean, Informatics OU	
8	Dr. Naresh Nelaturi, Data scientist, Cognitive care India Labs Pvt Ltd – Subject Expert	
9	Shankar Gandrakota, Sr Tech Lead, Cyient, Hyderabad – Industrial Expert	
10	Dr. K. Rama, IQAC Coordinator, Asst. Prof in Electronics	
11	Dr. T. Suchitra Naidu, Dean of Academics, Asst. Prof in Biotechnology	
12	Dr. K. Vijaya Lakshmi, Dean of Science & Research, Asst. Prof in Mathematics	
13	Dr. G. Anita Mary, Dean of Informatics	
14	Mrs. T. Suneetha, Chairman, BOS, Computer Science & Internet of Things	
15	Dr. Radhika Rani L, Asst. Prof in Electronics	
16	Dr. Santhi C, Asst. Prof in Electronics	

PROFESSOR

Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

The following resolutions were made in the BOS meeting,

1. The Chairperson, BOS of the Program, B.Sc. Computer Science and Internet of Things Mrs. T. Suneetha welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the First Board of Studies meeting held on 19/8/2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 2023 Academic council.
  - To consider and approve the Consolidated Scheme and syllabus for second academic year 2023-24 (3<sup>rd</sup> and 4<sup>th</sup> semester) for the batch 2022-25 (Enclosed in Annexure – I).
  - To consider and approve the list of examiners for B.Sc. Computer Science and Internet of Things – under regulation 2023. (Enclosed in Annexure – II).
  - To consider and approve the requirement of library books Rs: 5,42,159/- for AY: 2023-24. (Enclosed in Annexure – III).
  - To consider and approve the budget proposal for AY: 2023-24 Rs.65,40,000/- (Enclosed in Annexure-IV).
  - To consider and approve the syllabus for self-study course on “Study of electronic component data sheet” for second year students under regulation 2023. (Enclosed in Annexure – V).
  - To consider and approve the syllabus for Add-On on, “Smart home Automation with IoT ”. (Enclosed in Annexure – V).
  - To consider and approve the requirement of teaching faculty for AY: 2023-24. (Enclosed in Annexure- VI).
  - To consider and approve the requirement of a classroom for second year students for AY: 2023-24.
  - Proposal to build a new computer lab with configuration of 16GB RAM, 500GB HDD and 17 processor with internet connectivity (60\*96000+60 computer tables and chairs+projector+3 AC's+13 KV UPS).

The expert committee read through the report/recommendations of the faculty members of the department and approved the Consolidated Scheme and syllabi of second year for the academic year 2023-2024 to main BOS.

Based on the suggestions given by the members of expert committee, BOS resolved to recommend Syllabus for third and fourth semesters & list of examiners to the BOS for further approval.

Mrs T. Suneetha, HOD & Assistant Professor in B. Sc Computer Science and Internet of Things thanked all the members for their kind cooperation and the meeting came to an end.

*P. V. S. S. S.*

PROFESSOR  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the B. Sc Computer Science and Internet of Things, **Mrs T. Suneetha** welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the **First** Board of Studies meeting held on 19<sup>th</sup> August 2022 were communicated to the members. The suggestions received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow** the Consolidated Scheme and syllabus for **Second** academic year 2023-2024 (**3<sup>rd</sup> and 4<sup>th</sup> semester**) for the batch **2022-2025** (Enclosed in Annexure-I).
4. **It was resolved to introduce the following subjects in 3<sup>rd</sup> Semester.**

S.No	Title of Subject
1.	Environmental Studies and Gender Sensitization
2.	Introduction to IOT using Arduino - GE-1 (T+P)
3.	Discrete Mathematics
4.	Advanced Micro Processors (T+P)
5.	Computer Organization (T+P)
6.	Python Programming (T+P)

Above subjects are offered in 3<sup>rd</sup> Semester from the AY: 2023-24.

**It was resolved to introduce the following subjects in 4<sup>th</sup> Semester.**

S.No	Title of Subject
1.	Probability and Statistics - (GE-2)
2.	Smart Sensor Technologies
3.	Advanced Micro-controller based systems (T+P)
4.	Fundamentals of IOT and Robotics (T+P)
5.	Embedded System Design and Programming (T+P)
6.	Programming with Raspberry Pi (T+P)

Above subjects are offered in 4<sup>th</sup> semester from the AY: 2023-24

5. **It was resolved to approve the** list of examiners AY: 2023-24.(Enclosed in Annexure- II)
6. **It was resolved to purchase** library books worth **Rs. 5,42,159/-** for AY: 2023-24.(Enclosed in Annexure- III)
7. **It was resolved to sanction a budget of Rs. 64,40,000/-** for AY: 2023-24.(Enclosed in Annexure- IV).
8. **It was resolved to organize an international Conference/Workshop.**
9. **It was resolved to introduce** the new Self-study course "**Study Of Electronic Component Data Sheet**" for AY: 2023-24.(Enclosed in Annexure- V)
10. **It was resolved to introduce** the new Add-on course "**Smart home Automation with IoT**" for AY: 2023-24.(Enclosed in Annexure- V)
11. **It was resolved to recruit 2** teaching faculty for AY: 2023-24.(Enclosed in Annexure- VI)
12. **It was resolved to provide** a Class room for First year students for AY: 2023-24.
13. **It was resolved to provide** a Laboratory for First year students for AY: 2023-24.

The above resolutions were unanimously approved in the meeting.

  
**BOS Chairperson**

  
**Dean**

  
**HOD**

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.



**B.Sc. COMPUTER SCIENCE & INTERNET OF THINGS (2022-25) (CHOICE BASED CREDIT SYSTEM)  
CONSOLIDATED SCHEME**

Year	Sem	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits	
I	I	General English-I (3)(AECC-1)	Value Education and Personality Development (2)(AECC-2)	Fundamentals of Information Technology (4+1) (SEC-1)	Mathematics Foundation For Electronics (4)(Core-1)	Basic Electronics and Circuits (4+1) (Core-2)	Problem Solving and Programming in C * (4+1) (Core-3)	29	24	AECC=2 SEC=1 CORE=3
	II	General English-II (3) (AECC-3)	Indian Heritage and Culture (2) (AECC-4)	Computer Networks (4+1)(SEC-2)	Vector Calculus & Laplace Transforms (4) (Core-4)	Logic and Digital Circuits (4+1) (Core-5)	C++ and Data structures* (4+1)(Core-6)	29	24	AECC=2 SEC=1 CORE=3
II	III	Environmental Studies and Gender Sensitization (3) (AECC-5)	GE-1* (2+1)(ID)	Discrete Mathematics * (4)(Core-7)	Advanced Micro Processors * (4+1) (Core-8)	Computer Organization and Architecture (4) (Core-9)	Python Programming* (4+1) (Core10)	30	25	AECC=1 GE=1 CORE=4
	IV	Probability and Statistics (4) (GE-2)	Smart Sensor Technologies (3)(SEC-3)	Advanced Micro-controller based systems (4+1) (Core-11)	Fundamentals of IOT and Robotics (3+1) (Core-12)	Embedded System Design and Programming (4+1) (Core-13)	Programming with Raspberry Pi (4+1) (Core-14)	30	26	GE=1 SEC=1 CORE=4
III	V	Privacy and Security in IOT/ Artificial Intelligence (4) (DSE-1)	Data Analytics for IoT (3) (SEC-4)	Mobile Application Development for IOT (4+1)(Core-15)	IOT Architecture and its Protocols (4) (Core-16)	Cloud Computing and Virtualization (4+1) (Core-17)	Database Management Systems (4+1)(Core-18)	29	26	SEC=1 DSE=1 CORE=4
	VI	Applications of IOT/ Machine Learning (4)(DSE-2)	Adhoc and Wireless Sensor Networks/ IOT Automation (4) (DSE-3)	Parallel Programming (4+1) (Core-19)	MAJOR PROJECT(6) (DSE-4)			29	19	DSE=3 CORE=1
Legend:				1. Ability Enhancement Compulsory Course (AECC)	: 05				176	144
				2. Generic Elective (GE)	: 02					
				3. Skill Enhancement Course (SEC)	: 04					
				4. Core	: 19					
				5. Discipline-Specific Elective (DSE)	: 04					
				GE: * Introduction to IOT using Arduino						

*P.V. Sudha*

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.



Loyola Academy, Alwal, Secunderabad - 500 010

**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**B.Sc. (COMPUTER SCIENCE AND INTERNET OF THINGS)**  
**THIRD SEMESTER**  
**ACADEMIC YEAR 2023-24 OF 2022-25 BATCH (CBCS)**

Sl. No.	Part	Course Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1	I	ES23301	Environmental Studies and Gender Sensitization (AECC-5)	3	3	40	60	100	3
2	I	G23CSIOT1T	Introduction to IoT using Arduino GE-1*(ID)	2	3	40	60	100	2
3	II	CSIOT23301	Discrete Mathematics (Core-7)	5	3	40	60	100	4
4	II	CSIOT23302	Advanced Micro Processors (Core-8)	5	3	40	60	100	4
5	II	CSIOT23303	Computer Organization and Architecture (Core-9)	4	3	40	60	100	4
6	II	CSIOT23304	Python Programming (Core10)	5	3	40	60	100	4
<b>PRACTICALS</b>									
7	II	G23CSIOT1P	Introduction to IoT using Arduino – Lab GE-1*(ID)	2	3	40	60	100	1
8	II	CSIOT23305	Advanced Micro Processors–Lab (Core-9)	2	3	40	60	100	1
9	II	CSIOT23306	Python Programming -Lab (Core10)	2	3	40	60	100	1
<b>Total</b>				<b>30</b>	<b>-</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>25</b>

\*Ability Enhancement Compulsory Course (AECC)

\* Skill Enhanced Compulsory Course (SEC)

B.Sc. (Computer Science and Internet of Things)

Academic Year 2023-24 (CBCS)

*P.V. Subbarao*

**PROFESSOR**  
1  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.



Loyola Academy, Alwal, Secunderabad - 500 010

**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF COMPUTER SCIENCE  
B.Sc. (COMPUTER SCIENCE AND INTERNET OF THINGS)  
FOURTH SEMESTER  
ACADEMIC YEAR 2023-24 OF 2022-25 BATCH (CBCS)**

Sl. No.	Part	Course Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1	I	BS23401	Probability and Statistics( <b>GE-2</b> )	4	3	40	60	100	4
2	I	CSIOT23401	Smart Sensor Technologies ( <b>SEC-3</b> )	3	3	40	60	100	3
3	II	CSIOT23402	Advanced Micro-controller based systems ( <b>Core-11</b> )	4	3	40	60	100	4
4	II	CSIOT23403	Fundamentals of IOT and Robotics ( <b>Core-12</b> )	3	3	40	60	100	3
5	II	CSIOT23404	Embedded System Design and Programming ( <b>Core-13</b> )	4	3	40	60	100	4
6	II	CSIOT23405	Programming with Raspberry Pi ( <b>Core-14</b> )	4	3	40	60	100	4
<b>PRACTICALS</b>									
7	II	CSIOT23406	Advanced Micro-controller based systems-Lab ( <b>Core-11</b> )	2	3	40	60	100	1
8	II	CSIOT23407	Fundamentals of IOT and Robotics - Lab ( <b>Core-12</b> )	2	3	40	60	100	1
9	II	CSIOT23408	Embedded System Design and Programming -Lab ( <b>Core-13</b> )	2	3	40	60	100	1
	II	CSIOT23409	Programming with Raspberry Pi - Lab( <b>Core-14</b> )	2	3	40	60	100	1
Total				<b>30</b>	-	360	540	900	26

\*Ability Enhancement Compulsory Course (A.E.C.C)

\*Skill Enhancement Course (SEC)

**B.Sc. (Computer Science and Internet of Things)**

**Academic Year 2023-24 (CBCS)**

PROFESSOR  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

*P.V. Subbarao*

## ANNEXURE- II

### LIST OF BOARD OF EXAMINERS

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience (yrs)	Area of Specialisation
1	Mr.Sathish Yellanki	Industry expert	SkyEss Techno Solutions Pvt Ltd	Ph No- 8142190906 yellanki@skyessmail.com	15	Computer Science
2	Mr.Gouli Vamshi krishna	Industry &subject expert	CEO of Data Computing	628030750	05	Data science
3	Dr.S.Naga Prasad	Asso.Professor	Tara Govt College,Sangareddy	7893606134 nagkanna80@gmail.com	18	Computer Science
4	Dr.G.N.R. Prasad	Assoc. Professor	CBIT,Hyderabad	9885191683 gnrp@cbit.ac.in	20	Computer Science
5	Mrs. T.Pushpa Latha	Asst. professor	St. Ann's College for Women , Mehidipatnam	8106828882 pushpareddy28@gmail.com	16	Computer Science
6	Mrs. K. Sandhya Sree	Asst. Professor	St.Pious X Degree, and PG College for Women, Nacharam, Hyderabad	9866235230 sandhyagude69@gmail.com	16	Computer Science
7	Mr. N.Bhasker Rao	Asst. Professor	AV College of Arts Science & Commerce, GaganMahal, Hyd	9885639321 braon4@gmail.com	23	Computer Science

*P.V. Godhena*

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

8	Mr.Premson(Alumnus)	Manager	Manager, Oracle Corps.	premsn@gmail.com	12	Computer Science
9	Mr.Sreekar	Data Analyst	Deloitte Consulting	Mno:9966424674	05	Computer Science
10	R Sravan Kumar	Associate Professor	Aurora Degree and PG College, Chikkadpally	9490558958 Saisravan16@gmail.com	18	Department of Electronics
11	G. Shridhar	HOD	HRD Degree and PG college, Narayanaguda, Hyderabad	9951435383 sridharpravalika@gmail.com	16	Department of Physics and Electronics
12	P.Bhagyasree	Faculty	St. Ann's Degree College for Women, IDA Mallapur Road, Hyderabad-500076.	7674056322 Bhagyasri.27@gmail.com	8	Department of Electronics
13	Dr. Naresh Nelaturi	Data scientist	Cognitive care India Labs Pvt Ltd	9000534551		
14	Shankar Gandrakota	Sr Tech Lead	Cyient, Hyderabad			

*P.V. Sridhar*

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

**ANNEXURE- III- Indent for Library Books**

**Proposal to procure books for the library and the proposed amount is Rs. 5,42,159/-.**

S. No	Subject Name	Name of The Book	Author Name	Publication Name	No Of Copies	Cost
1	Environmental Studies & Gender Sensitization	Towards a World of Equals : A Bilingual Text on Gender	A. Suneetha, Uma Bhrugubanda, Duggirala Vasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, Gogu Shyamala, Deepa Sreenivas and Susie Tharu. 201	Hyderabad: Telugu Akademi	5	195*5
		Environmental Studies- from Crisis to Cure.	Rajagopalan R. 2015.	Third Edition. Chennai: Oxford University Press.	5	1000*5
		A Text Book of Environmental Studies	Dr D K Asthana and Dr Meera Asthana. 2014.	Revised Edition. New Delhi: S. Chand & Company	5	337*5
		Perspectives in Environmental Studies.	Anubha Kaushik and C.P. Kaushik Published. 2016	Fifth Edition. New Delhi: New Age International	5	291*5
		More Than One Million Women Are Missing	Sen Amartya	New York Review of Books 37.20 (20 December 1990).	5	536*5
		We Were Making History...Life Stories of Women in the Telangana People's Struggle	Sen Amartya	New Delhi: Kali for Women. 1998	5	5000*5
		Vantillu ( The Kitchen)". Women Writing in India: 600 Bc to the Present. Volume II.	Vimala.	The 20 <sup>th</sup> Century. Ed. Suise Tharu and K.Laltitha. Delhi: Oxford University Press, 1995.599-601.	5	5247*5
		Women's Work and its Impact on Child Health and Nutrition	Shatrughna, Veena.	Hyderabad: National Institute of Nutrition, Indian Council of Medical Research .1993	5	4523*5
					85,645	
2	Introduction to IOT using Arduino	Basic Electronics	Bernard Grob 10 <sup>th</sup> Edition	TMH	5	900*5
		Digital Electronics: Circuits and systems	Puri V.K., 1997 1 <sup>st</sup> Edition	TMH	5	650*5
		The Internet of Things: Key Applications and Protocols	Olivier Hersent, David Boswarthick, and Omar Elloumi	WileyPublications	5	382.91 *5
		Electronic Instrumentation and Measurement Techniques	Helfrick Albert D. and Cooper W. D	Prentice Hall India	5	350*5

		Electronic Instrumentation	Kalsi H. S	Tata McGraw-Hill Education	5	268*5
					14184	
3	Discrete Mathematics	Discrete Mathematics and its Applications	Kenneth H. Rosen	Tata McGraw – Hill	5	621*5
		Discrete Mathematics with Applications	Susanna S. Epp,	4th edition, Wadsworth Publishing Co. Inc.	5	2,092*5
		Elements of Discrete Mathematics A Computer Oriented Approach	C L Liu and D P Mohapatra	3rd Edition by, Tata McGraw – Hill	5	300*5
		Discrete Mathematical Structure and It's Application to Computer Science	J.P. Tremblay and R. Manohar	TMG Edition, Tata McGraw-Hill	5	1250*5
		Discrete Mathematics	Norman L. Biggs	2nd Edition, Oxford University Press	5	840*5
		Schaum's Outlines Series	Seymour Lipschutz, Marc Lipson	Oxford University Press	5	999*5
		Discrete Mathematics	Veerarajan,	Tata McGraw – Hill	5	475*5
					32,885	
4	Fundamentals of IoT and Robotics	Internet of Things - A Hands-on Approach	Vijay Madiseti and Arshdeep Bahga	First Edition, University Press, 2015.	5	699*5
		Introduction to Robotics Analysis, Controls, Application	Saeed B. Niku,	Wiley, 2019, Third Edition.	5	1100*5
					8995	
5	Embedded System Design and Programming	Programming Embedded Systems in C and C++,	Michael Barr, O' Reilly	First Edition, Tata McGraw-Hill	5	675*5
		Introduction to embedded systems	Shibu K V	Tata McGraw-Hill	5	595*5
		Embedded Systems	Rajkamal	Tata McGraw-Hill	5	590*5
					9300	
6	Programming with Raspberry Pi	Python Programming for Raspberry Pi	Richard Blum, Christine Bresnahan	Second edition, 2016 by Pearson Education, Inc	5	2733*5
		Programming the Raspberry Pi :Getting started with Python	Simon Monk	Second edition	5	1244*5
					19,885	
7	Probability and Statistics	Fundamentals of statistics (pp.18-1).	Gupta, S. C. (2011).	New Delhi, India: Himalaya publishing house.	5	795*5

		Statistical Methods	Gupta, S. P. (1978).	1978. 46 <sup>th</sup> Edition	5	634*5
		Probability and statistics for engineering and science.	Dcovre, J. (1987).	Brooks/Cole, Belmont, CA.	5	820*5
		Probability & Statistics for Engineers.	Richard A. Johnson, Miller, Freund	PHI Publications	5	1929*5
					20,905	
8	Smart Sensor Technologies	Sensor Technologies	Michael J Mc Grath and Clíodhna Ni Scanaill	Xpress Open	10	3138*5
		Technologies for Smart Sensors and Sensor Fusion	Kevin Yallup & Krzysztof Iniewski	CRC Press, 2014	10	7716*5
		Understanding Smart Sensors	Randy Frank	Artech House – Second Edition, 2000	5	14,364*5
		Introduction to IoT	Sudip Misra	Cambridge University, 2021 Ed	5	749*5
					1,29,835	
9	Advanced Microcontroller based Systems	The 8051 Microcontrollers and Embedded Systems	Muhammad Ali Mazidi and JanicegillipsieMazidi	Pearson Education Asia, 4th Reprint, 2002	10	699*5
		PIC Microcontroller and Embedded Systems	Muhammad Ali Mazidi	Pearson Education Asia, 2008.	10	480*5
		Text book of Electronics B.sc III year	vol.III	Telugu Akademi	5	204*5
		The 8051 Microcontroller – architecture, programming and applications	Kennth J. Ayala	Penram International Publishing, 1995	5	6219*5
		Micro controllers-Theory and Applications	Ajay V.Deshmukh		5	619*5
		Micro-controller 8051	D. KarunaSagar	Narosa Publications (2011).	5	1114*5
					46,675	
10	Advanced Micro Processors	Microprocessors and Interfacing Programming and Hardware	Douglas V.Hall	2nd Edition, Tata McGraw-Hill publishing company Limited, New Delhi, 1994	5	395*5

		Advanced Microprocessors and Peripherals	Ray A.K. & Bhurchandi K.M	Tata McGraw Hill, 3 <sup>rd</sup> edition, 2013	5	495*5
		Microcomputer Systems: The 8086/ 8088 Family Architecture, Programming and Design	Yn – cheng Liu and Gibson G. A.,	Prentice Hall of India, 2 <sup>nd</sup> edition, 2006.	5	690*5
		The Intel Microprocessors- Architecture, Programming and Interfacing	Barry B. Brey	Pearson Education India. Eighth Edition	5	305*5
		The 8088 and 8086 Microprocessors :Programming, Interfacing, Software, Hardware and Applications	Walter A.Triebe1 and Avatar singh	Prentice-Hall of India Private Limited, New Delhi, 1996..	5	299*5
					10920	
11	Computer Organization and architecture	Computer organization	V. Carl, G. Zvonko and S. G. Zaky	McGraw Hill, 1978	5	2482*5
		Computer Architecture - A Quantitative Approach	J. L. Hennessy and D. A. Patterson	Morgan Kauffman, 2011	5	8603*5
		Advanced Computer Architecture, Parallelism, Scalability, Programmability	Kai Hwang	McGraw Hill, 1993	5	699*5
		Computer organization	W. Stallings	PHI, 1987	5	674*5
		Modern Embedded Computing	P. Barry and P. Crowley	Morgan Kaufmann, 2012	5	2741*5
		Microprocessors, PC Hardware and Interfacing	N. Mathivanan	Prentice Hall, 2004	5	316*5
		Microcomputer Systems: The 8086/8088 Family	Y. C. Lieu and G. A. Gibson	Prentice Hall India, 1986.	5	240*5
					78775	
12	Python Programming	Python Programming	Thareja, Reema. 2017	3 <sup>rd</sup> Edition. New Delhi: Oxford HED	5	449*5
		Starting Out With Python	Tony Gaddis.	3 <sup>rd</sup> Edition	5	15,183*5
		Problem Solving and Python Programming	BalaGuruSwamy, E. 2017	1 <sup>st</sup> Edition. McGraw Hill Education	5	450*5

ANNEXURE – IV

UPGRADATION OF IOT LAB

BUDGET PROPOSAL AY: 2023-24

S. No.	Items	Estimated Amount(Rs)
1.	Computers -- Lenovo ThinkStation P348 – 22 inches monitor 60 with following configuration 16GB RAM, 1TB SSD and 11 <sup>th</sup> gen processor with internet connectivity :(60*Rs.96000/-)	2,00,000
2.	Project Kit Raspberrry Pi 3 Model A+ - Rs: 8000/- (25*Rs:8000/-)	2,50,000
3.	MASM Software: MASM32 SDK Supplier: ASCENTRONICS 30 users cost:	-----
3.	Library Books	-----
4.	Seminars(State/National/International)	15,000
5.	Workshop	15,000
6.	Field Visit	10,000
7.	Stationary/Infrastructure 60 computer tables and chairs 3 AC's: 3*45000:Rs.1,35,000 13 KV UPS: 3,00,000 1 Class Room required for NCSIoT  1 projector: Rs.70,000 1 Almara: 5000 1 Book rack: 10000	85,000
	Guest Lecture	15,000
9.	Miscellaneous(any day to be celebrated)	5,000
	Total:	Rs. 5,95,000/-

*Suresh*

**HOD Signature**

*library 5,42,159*

*Anita*  
**Dean Signature**


ANNEXURE - VI

LIST OF FACULTY REQUIREMENT

S. no	Number of Faculty	Qualification	Workload
1	01	P. hD (CS) or M. Tech (CSE)	Semester-I-15 Hours Semester-II-5 Hours



**HOD Signature**



**Dean Signature**

# **LOYOLA ACADEMY**

(DEGREE & PG COLLEGE)

OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA

(Autonomous and Affiliated to Osmania University)

Re-accredited with 'A' Grade (III Cycle) by NAAC

A "College with Potential for Excellence" by UGC

[www.loyolaacademy.edu.in](http://www.loyolaacademy.edu.in) Ph: 040-27862363/27860077 Fax: 040-27867939

## **SCHOOL OF INFORMATICS**

### **Department of B.Sc. Computer Science & Cloud Computing**

**Year of Inception:2022**



**Minutes of 2<sup>nd</sup> meeting of the Board of Studies held on  
Thursday, 19<sup>th</sup> January 2023 at 10.00 a.m.**

**Academic Year: 2023-24 for the batch of 2022-25**

**LOYOLA ACADEMY, DEGREE & PG COLLEGE**  
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2<sup>nd</sup> Board of Studies Meeting  
 Department of B.Sc. Computer science & Cloud Computing  
 Venue: Xavier Hall, Admin Block.  
 Loyola Academy

Date & Time: 19/01/23 & 10.00 A.M.

**AGENDA**

BOS/CSCC 2.1	:	Welcome address and Opening Remarks by Chairman, Board Of Studies Mr. K Siva Rama Krishna in the Department of B.Sc Computer science & Cloud Computing.
BOS/CSCC 2.2	:	Action Taken Report of 1 <sup>st</sup> meeting of Board of Studies held on August 22, 2022. Introduced tentative scheme and syllabus for I and II semesters of 2022-23, for the batch of 2022-25. The scheme and first year syllabus were approved by the board.
BOS/CSCC 2.3	:	Business brought forward by the Chairman, Board of studies – 2.3.1 : Proposal to approve the Consolidated scheme for II Year and syllabus of III and IV semesters for the academic year of 2023-2024 for the batch of 2022-2025 as per CBCS. The following are the subjects for 3 <sup>rd</sup> semester. a. Environmental Studies and Gender Sensitization b. Web Programming with practical's (Generic Elective & Inter disciplinary) c. Database Management Systems with practical's d. Discrete Mathematics e. Distributed Systems f. Java Programming with practical's  The following are the subjects for 4 <sup>th</sup> semester. a. Probability & Statistics b. Machine Learning c. Python Programming with practical's d. Web Technologies with practical's e. Cloud Computing Architecture with practical's f. Software Engineering 2.3.2 :Proposal to approve the list of examiners(Annexure –II) 2.3.3 :Proposal to approve list of Library books(Annexure –III) 2.3.4 :Proposal to approve the annual budget (Annexure – IV) 2.3.5 :Proposal to approve requirement of teaching faculty(Annexure– V) 2.3.6 :Proposal to approve the setup a new lab with high-end configuration for 55 Systems with internet connection(55* 60000) and cloud subscription (4,50,000) annually
BOS/CSCC 2.4	:	Suggestions given by BOS Members
BOS/CSCC 2.5	:	Concluding remarks & Vote of Thanks



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DEPARTMENT OF COMPUTER SCIENCE & CLOUD COMPUTING  
BOARD OF STUDIES MEETING  
Thursday, 19<sup>th</sup> January, 2023, 9:30 AM

1	Rev Fr Dr. L. Joji Reddy SJ, Principal	
2	Rev Fr Arul Jothi SJ, Vice-Principal, UG	
3	Dr. N. Maria Das, Lay Vice-Principal, UG, Asst. Prof in Economics	
4	Dr. P.V Sudha, Professor in CSE, Dean Of Informatics, OU	
5	Dr. Naresh Nelaturi, Data Scientist, Cognitive Care India Labs Pvt Ltd, Subject Expert	
6	Mr. Shankar Gandrakota, Sr Tech Lead, Cyient, Hyderabad, Industry Expert	
7	Dr. K. Rama, IQAC Coordinator, Asst. Prof in Electronics	
8	Dr. N. Suchitra Naidu Dean Of Academic, Asst. Prof in Biotechnology	
9	Dr. G. Anitha Mary, Dean of Informatics	
10	Mr. K. Siva Rama Krishna, Chairman, BOS, Computer Science & Cloud Computing	
11	Mr. Samuel Prasad, Assistant Professor in English	

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**MINUTES OF THE BOS MEETING**

**Date:**19/1/23**Venue:** Xavier Hall

**Time:**10:00 AM

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the Program, **B.Sc Computer Science and Cloud Computing**. **Mr K. Siva Rama Krishna** welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the **I** Board of Studies meeting held on **22<sup>nd</sup> August 2022** were communicated to the members. The suggestions received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow the Consolidated Scheme and syllabus for Second academic year 2023-2024 (3<sup>rd</sup> and 4<sup>th</sup> semester) for the batch 2022-2025 (Enclosed in Annexure-I).**
4. **It was resolved to introduce the following subjects in 3<sup>rd</sup>Semester.**

S.No	Title of Subject
1.	Environmental Studies and Gender Sensitization
2.	Web Programming with practical's (Generic Elective & Inter disciplinary)
3.	Database Management Systems with practical's
4.	Discrete Mathematics
5.	Distributed Systems
6.	Java Programming with practical's

Above subjects are offered in 3<sup>rd</sup>Semester from the AY: 2023-24.

**It was resolved to introduce the following subjects in 4<sup>th</sup>Semester.**

S.No	Title of Subject
1.	Probability & Statistics
2.	Machine Learning
3.	Python Programming with practical's
4.	Web Technologies with practical's
5.	Cloud Computing Architecture with practical's
6.	Software Engineering

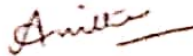
Above subjects are offered in 4<sup>th</sup>semester from the AY: 2023-24

5. It was resolved to approve the list of examiners AY: 2023-24.(Enclosed in Annexure- II)
6. It was resolved to purchase library books worth (Rs. 4,03,000) for AY: 2023-24.(Enclosed in Annexure- III)
7. It was resolved to sanction a budget of (Rs. 38,58,000) for AY: 2023-24.(Enclosed in Annexure- IV).
8. It was resolved to organise an international Conference/Workshop.
9. It was resolved to recruit (02) teaching faculty for AY: 2023-24.(Enclosed in Annexure- V)
10. It was resolved to provide a Laboratory for Second year students for AY: 2023-24.

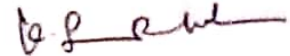
The above resolutions were unanimously approved in the meeting.



**BOS Chairperson**



**Dean**



**HOD**

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.



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**B.Sc. COMPUTER SCIENCE & CLOUD COMPUTING (2022-25) (CHOICE BASED CREDIT SYSTEM) [PROPOSED]**

Year	Sem	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits	
I	I	General English-I (3) (AECC-1)	Value Education & Personality Development (2) (AECC-2)	Fundamentals of IT (4+1) (SEC-1)	Mathematics- I (4) (Core-1)*	Operating Systems (4+1) (Core-2)	Problem Solving and Programming Through C* (4+1) (Core-3)	29	24	AECC=2 SEC=1 CORE=3
	II	General English-II (3) (AECC-3)	Indian Heritage and Culture (2) (AECC-4)	IT Hardware & Networking(4+1) (GE-1)	Mathematics- II (4) (Core-4)*	Computer Networks (4+1) (Core-5)	Data Structures through C* (4+1) (Core-6)	29	24	AECC=2 GE=1 CORE=3
	III	Environmental Studies & Gender Sensitization (3) (AECC-5)	Web Programming (ID) (2+1) (GE-2)*	DBMS *(4+1) (Core-7)	Discrete Mathematics*(4) (SEC-2)	Distributed Systems (4) (Core-8)	Java Programming* (4+1) (Core-9)	30	24	AECC=1 GE=1 SEC=1 CORE=3
II	IV	Probability & Statistics(4) (SEC-3)	Machine Learning (4) (Core-10)	Python Programming (4+1)(Core-11)	Web Technologies (3+1) (SEC-4)	Cloud Computing Architecture(4+1) (Core-12)	Software Engineering(4) (Core-13)	29	26	SEC=2 CORE=4
	V	Cryptography & Network Security/Internet of Things (4) (DSE-1)	Cloud Based Application Development & Deployment (4+1) (Core-14)	Cloud Backup & Disaster Recovery (4) (Core-15)	DEVOPS (4+1) (Core-16)	Deep Learning (3+1) (Core-17)	Bigdata with SPARK (4) (Core-18)	29	26	DSE=1 SEC=1 CORE=4
III	VI	Cloud Strategy Planning & Management(4) (Core-19)	Cyber Security(4+1) (Core-20)	Software Testing (4) (Core-21)	Project Work (6) 15hrs (DSE-2)			29	19	DSE=1 CORE=3
	Legend:		1. Ability Enhancement Compulsory Course (AECC)		: 05		Total		175	143
		2. Generic Elective (GE)		: 02						
		3. Skill Enhancement Course (SEC)		: 04						
		4. Core		: 21						
		5. Discipline-Specific Elective (DSE) OR PROFESSOR		: 02						

Department of Computer Science & Engineering (A)  
 University College of Engineering  
 Osmania University  
 Hyderabad-500 007.

P.V.66



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## SCHEME OF INSTRUCTIONS FOR B.Sc COMPUTER SCIENCE & CLOUD COMPUTING

### SECOND YEAR SUBJECTS FOR AY (2023-24) OF BATCH 2022-25

III SEMESTER			IV SEMESTER		
S.No.	Subject Code	Theory	S.No.	Subject Code	Theory
1	ES18301	Environmental Studies and Gender Sensitization	1	BS23401	Probability & Statistics
2	G23CSCC1T	Web Programming (GE-2)(IDE)	2	CSCC23401	Machine Learning
3	BS23301	Database Management Systems	3	CSCC23402	Python Programming
4	BS18335	Discrete Mathematics	4	CSCC23403	Web Technologies
5	CSCC23301	Distributed Systems	5	CSCC23404	Cloud Computing Architecture
6	BS18336	Java Programming	6	CSCC23405	Software Engineering
S.No.	Subject Code	Practicals	S.No.	Subject Code	Practicals
7	G23CSCC1P	Web Programming (GE-2)(IDE)	7	CSCC23406	Python Programming
8	CSCC23302	Database Management Systems	8	CSCC23407	Web Technologies
9	CSCC23303	Java Programming	9	CSCC23408	Cloud Computing Architecture

*A.V. Gadda*

**PROFESSOR**  
Department of Computer Science & Engineering  
University College of Engineering (A)  
Osmania University  
Hyderabad-500 007.

**ANNEXURE II**

**LIST OF BOARD OF EXAMINERS**

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience	Area of Specialisation
1	Mrs. M Krishna Shanthi	Associate Professor	Bankatlal Badruka College for IT	9963100851 mksanthi9@gmail.com	24 Years	Computer Science(C, C++, Data Structures, OS, Fundamentals of IT, DBMS, Networks, Cloud Computing, Introduction to Virtualization, Distributed Systems, OOSD, Software Engineering, Python
2	Mrs Krishna Veni S	Associate Professor	Bankatlal Badruka College for IT	9849202464 Sidhanthikris hnaveni109@gmail.com	22 Years	Computer Science(C, C++, Data Structures, OS, Fundamentals of IT, DBMS, Networks, Cloud Computing, Introduction to Virtualization, Distributed Systems, OOSD, Software Engineering, Python
3	Mrs S. Sunitha	Associate Professor	Bankatlal Badruka College for IT	9492051782 amruthabala2725@gmail.com	18 Years	Computer Science(C, C++, Data Structures, OS, Fundamentals of IT, DBMS, Networks, Distributed Systems, OOSD, Python

**ANNEXURE- III**

**BSc.CSCC-INDENT FOR LIBRARY BOOKS**

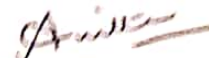
S.No.	Title of the book& Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1.	Behrouz Forouzan A. Computer Science, A Structured Programming Approach using C. 3rd Edition.	Cengage Learning	25	18000
2.	Byron, Gottfried Programming with C. 3 <sup>rd</sup> Edition	India: Schaum's Outlines Series.	25	12,000
3.	Silber Schatz Abraham, Galvin Peter, B. and Gagne Greg. 2006. <b>Operating System Concepts.</b> 6 <sup>th</sup> Edition. India: Wiley.	Addison Wesley Publications	25	15,000
4.	Curtin Dennis, P. and Foley, Kim. 2000. <b>Information Technology – The Breaking Wave.</b> 7 <sup>th</sup> edition.	Tata McGraw Hill Publications: New Delhi	20	12,000
5.	Williams Brian, K. and Sawyer Stacey, C. 2007. <b>Using Information Technology – A Practical Introduction to Computers and Communications</b> 6 <sup>th</sup> edition.	Tata McGrawHill Publications: New Delhi	20	10,000
6	Zafar Ahsan. <b>Differential Equations and their Applications.</b> 2 <sup>nd</sup> Edition.	Prentice Hall of India	20	16,000
7	B.S. Grewal. 2014. <b>Higher Engineering Mathematics.</b> 3 <sup>rd</sup> Edition.	Khanna Publishers. India: New Delhi	15	15,000
8.	Meyers Mike. 2012. <b>Managing and Troubleshooting PCs.</b> 4 <sup>th</sup> Edition.	Tata McGraw Hill New Delhi	20	20,000
9	Vasistha, A.R and Dr.Agarwal, D.C. 2015. <b>Vector Calculus.</b> 9 <sup>th</sup> Edition.	Meerut: Krishna Publications.	25	10,000
10	Vasistha, A.R and Vasistha, A.K.2014. <b>Matrices.</b>	Meerut : Krishna Prakashan Media	25	10,000
11	Forouzan, Beharouz A. 2011. <b>Data Communications and Networking.</b> 3 <sup>rd</sup> Edition.	New Delhi: Tata Mc Graw Hill.	25	10,000
12	Forouzan, Beharouz A. 2010. <b>TCP/IP Protocol Suite.</b> 3 <sup>rd</sup> Edition.	New Delhi: Tata McGraw Hill.	25	10,000
13	Kanetkar, Yashvanth. 2008. <b>Data Structures through C.</b>	India: BPB Publications.	25	10,000
14	<b>Sebasta W. Robert, Programming the Worls Wide Web.</b> 4 <sup>th</sup> Edition Pearson Publications.	Pearson Publications.	20	10,000
15	Deitel H.M. <b>Internet &amp; World Wide Web, How to Program.</b> 4 <sup>th</sup> Edition Pearson Publications	Pearson Publications.	20	10,000
16	Silberschatz, Abraham. Korth, H.F. Sudharshan,	New York: Tata	20	10,000

	<b>S.Database System Concepts. 5<sup>th</sup> Edition.</b>	McGraw Hill.		
17	Bayross, Ivan.SQL,PL/SQL ( The programming language of oracle).3 <sup>rd</sup> RevisedEdition. Mumbai:BPB Publications.	BPB Publications.	20	10,000
18	Pramod J. Sadalage, Martin Fowler. NoSQL Distilled, Addison Wesley 2013	Addison Wesley 2013	20	10,000
19	Tremblay Jean, P. and Manohar, R. 2007. <b>Discrete Mathematical Structures with Applications to Computer Science.</b> New Delhi: McGraw-Hill. (For Unit I)	McGraw-Hill. (For Unit I)	20	10,000
20	Mott Joe, L. Kandel Abraham. And Baker Theodore, P. 1999. <b>Discrete Mathematics for Computer Scientists and Mathematicians.</b> 2 <sup>nd</sup> Edition. New Delhi: PHI (For Units II,III and IV)	New Delhi: PHI	20	10,000
21	Burton David, M. 2010. <b>Elementary Number Theory.</b> 7 <sup>th</sup> Edition. New Delhi: McGraw-Hill. (For Unit V)	New Delhi: McGraw-Hill.	20	10,000
22	Andrew S. Tanenbaum and Maarten Van Steen. <b>Distributed Systems.</b> PHI 2nd Edition, 2009.	PHI 2nd Edition, 2009.	40	15,000
23	R. Hill, L. Hirsch, P. Lake, S. Moshiri, Guide to Cloud Computing, Principles and Practicel, Springer, 2013.	Springer, 2013.	20	10,000
24	R. Buyya, J. Borberg. A. Goscinski, Cloud Computing-Principles and Paradigms, Wiley, 2013.	Wiley, 2013.	20	10,000
25	Schildt Herbert. 2002. <b>Java 2: The Complete Reference.</b> 5 <sup>th</sup> Edition. New Delhi: McGraw-Hill.	New Delhi: McGraw-Hill.	20	10,000
26	Gupta, S. C. (2011). <b>Fundamentals of statistics</b> (pp. 18-1). New Delhi, India: Himalaya publishing house.	Himalaya publishing house.	25	10,000
27	Gupta, S. P. (1978). <b>Statistical Methods</b> 1978. 46 <sup>th</sup> Edition.	Himalaya publishing house.	20	10,000
28	DuttSaikat, Chandra Mouli Subramanian, Das Amit Kumar.	Pearson India Education Pvt Ltd. India: New	20	10,000

	2019. <b>Machine Learning</b> . 1 <sup>st</sup> Edition. Pearson India Education Pvt Ltd. India: New Delhi	Delhi		
29	Jose, Jeeva. 2020. <b>Introduction to Machine Learning Using Python</b> . 1 <sup>st</sup> Edition. Khanna Book Publishing Co. Pvt Ltd. India: New Delhi.	Khanna Book Publishing Co. Pvt Ltd. India: New Delhi.	20	10,000
30	Rao, Dr. R. Nageswara. <b>Core Python Programming</b> . 2 <sup>nd</sup> Edition. Dreamtech Press.	Dreamtech Press.	20	10,000
31	Data Science Essentials in Python: Collect, Organize, Explore, Predict, Value. DmitryZinoriev, The Pragmatic Programmers LLC, 2016	The Pragmatic Programmers LLC, 2016	20	10,000
32	Introduction to Python Programming, Gowrishankar S., Veenu A. CRC Press, Taylor & Francis Group, 2019	CRC Press, Taylor & Francis Group, 2019	20	10,000
33	<b>Pro Mean Stack Development</b> , ELadElrom, Apress	Apress	20	10,000
34	Singh. Shalendra. 2018. <b>Cloud Computing</b> .	New Delhi: Oxford University Press	20	15,000
35	Pressman, Rogers S. 2015. <b>Software Engineering, A practitioner's Approach</b> . 6 <sup>th</sup> Edition. McGraw Hill Education	McGraw Hill Education	20	15,000
Total				4,03,000



**HOD Signature**

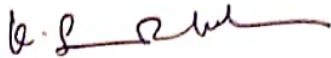


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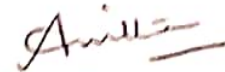
ANNEXURE-IV

BUDGET PROPOSAL AY: 2023-24

S.No.	Items	Estimated Amount(Rs)
1.	Computers(High-end Systems with 16Gb RAM and 1TB Hard Disk I7 Processor with internet connection and cloud subscription)	55*60000+4.5 lakhs Cloud subscription= 37,50,000
2.	Seminars(State/National/International)	10,000
3.	Workshop	10,000
4.	Field Visit	10,000
5.	Guest Faculty	15,000
6.	Stationary/Infrastructure(Lab Setup, Projector with screen, Almara, Book Rack)	60,000
7.	Miscellaneous(Any important day to be celebrated)	3000
	TOTAL	38,58,000



**HOD Signature**



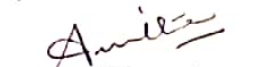
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ANNEXURE - V

LIST OF FACULTY REQUIREMENT

S.No	Number of Faculty	Qualification	Workload
1.	01	IT/IT-Cloud Specialization	I semester : 22 Hours II semester : 26 Hours
2.	01(Lab Technician)	M.Sc(Computer Science)/MCA	I semester : 20 Hours II semester : 20 Hours

  
HOD Signature

  
Dean Signature



**B.Sc COMPUTER SCIENCE AND CLOUD COMPUTING**

**BRIDGE COURSE SYLLABUS**

**FUNDAMENTALS OF COMPUTERS AND MATHEMATICS**

**Semester: I**

**No. of Lecture Hours: 30**

<b>UNIT-I</b>	<b>6hrs</b>
1. Computer Languages	2
a. Machine Level	
b. Assembly Level	
c. High Level	
d. Very High Level	
e. Natural Languages	
2. Algorithms – Definition and Examples	2
3. Flow Charts – Definition and Examples	2
<b>UNIT-II</b>	<b>6hrs</b>
1. Number Systems – Definition	4
a. Binary, Decimal, Octal and Hexa-Decimal and their conversions	
2. Basic on working of internet	
3. Basic on working of computer (Mathematically)	2
<b>UNIT-III</b>	<b>6hrs</b>
1. Types of Mainframe Systems – Working of Batch Processing Systems	3
2. MS-DOS Basic Commands	3
<b>UNIT-IV</b>	<b>6hrs</b>
<b>Elements of Number Theory:</b>	
1. Divisibility- Division algorithm	3
2. Euclid’ algorithm	3
<b>UNIT-V</b>	<b>6hrs</b>
<b>Elements of Number Theory:</b>	
1. Properties of G.C.D	3
2. Primes – Fundamental theorem of Arithmetic.	3

*B.V. Solla*

**PROFESSOR**  
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Osmania University  
Hyderabad-500 007.



**B.Sc COMPUTER SCIENCE AND CLOUD COMPUTING**

**SELF STUDY COURSE SYLLABUS**

**OBJECT ORIENTED SYSTEM DEVELOPMENT**

**Semester: IV**

**No. of Lecture Hours: 30**

	<b>6hrs</b>
<b>UNIT-I</b>	
1. Object Basics – Introduction, Objects, Attributes, Object Behaviour and Methods,	2
2. Objects responds to messages, Encapsulation, and information hiding, Class Hierarchy, Polymorphism, Object Relationships and Associations, Aggregations and Object Containment.	3
3. Advanced Topics – Object & Identity, Static and Dynamic Binding, Object Persistence and Meta – Classes.	1
<b>UNIT-II</b>	<b>6hrs</b>
1. Object Oriented Methodologies – Rumbaugh Methodology, The Booch Methodology, The Jacobson Methodologies,	2
2. Unified Modeling Language – Introduction, Static & Dynamic Models, UML Diagrams, UML Class Diagrams, Use-Case Diagram	4
<b>UNIT-III</b>	<b>6hrs</b>
1. UML Dynamic Modeling- UML Interaction Diagrams, Sequence diagrams, Collaboration diagrams, Statechart Diagrams, Activity Diagrams, Component and Deployment diagrams	4
2. Object Oriented Analysis Process :Identifying Usecases-Use Case Model	2
<b>UNIT-IV</b>	<b>6hrs</b>
1. Identifying Object Relationships, Attributes and Methods – Introduction, Associations Super-Sub Class Relationships, Aggregations, Case Study – Relationship Analysis for the ViaNet Bank ATM System	3
2. Class Responsibility – Identifying attributes and methods, Defining Attributes by Analyzing Use cases and Other UML Diagrams, Defining Attributes and Methods for vianet Bank Objects	3
<b>UNIT-V</b>	<b>6hrs</b>
1. Designing Classes – Introduction, The Process, Class Visibility-Designing Well-Designed Public, Private and Protected Protocols , Refining Attributes	3
2. Refining Attributes for the ViaNet Bank Objects, Designing Methods and Protocols, Designing Methods and Protocols-ViaNet Bank Objects, Packages and Managing Classes	3

**ESSENTIAL READING**

1. Bahrami. Ali Object Oriented Systems Development Mcgraw-Hill Publications

*B.V. Sridhar*

**DEPT. OF BBA ENTREPRENEURSHIP DEVELOPMENT**

**Year of Inception: 2022**



**Minutes of 2<sup>ND</sup> meeting of the Board Of Studies held on  
Friday, 20 January 2023 at 10.30 a.m.**

**Venue: Conference Room, Admin Block  
Loyola Academy, Degree & PG College**

## LOYOLA ACADEMY, DEGREE & PG COLLEGE

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2<sup>nd</sup> Board of Studies Meeting

Department of BBA Entrepreneurship Development

Venue: Conference Room, Admin Block,

Loyola Academy

Date & Time: 20/01/23 & 10.30 A.M.

### AGENDA

BOS/ED2 .1	:	Welcome address and Opening Remarks by Chairman, Board Of Studies in the Department of BBA Entrepreneurship Development
BOS/ED 2.2	:	Action Taken Report of 1 <sup>st</sup> meeting of Board of Studies. Introduced new scheme and new syllabus of 1 <sup>st</sup> year first and second semester for 2022-2025 batch was approved.
BOS/ED 2.3	:	Business brought forward by the Chairman, Board of studies – 2.3.1 : Approval for the syllabus of second academic year 2023 -2024-3 <sup>rd</sup> and 4 <sup>th</sup> semester for the batch 2022-2025 following are the courses to be offered in semester 3 and 4 respectively as per CBCS. Semester- 3 G23BBED1T/P- Start up management BBED23301- Fundamentals of Business Mathematics BBED23302- Research Methodology BBED23303- Marketing Management BBED23304- Financial Management BBED23305- Human Resource Management Semester -4 ES18401 – Environmental Studies BBED23401- Start-up management BBED23402- Corporate Governance and Business Ethics BBED23403- Mobile Commerce BBED23404- Production and Material Management BBED23405- Accounting for Management BBED23406- M-commerce practical Self study – Understanding self for effectiveness 2.3.2 : Approval for list of examiners 2.3.3 : Proposal for a budget of rs 75,000 for 2023 to 2024 2.3.4 : One Staff required for AY 2023 to 2024 2.3.5 : we require one class room for the upcoming first years of BBAED
BOS/ED 2 .4	:	Suggestions given by BOS Members
BOS/ED 2 .5	:	Requirement of Almirah and library rack
BOS/ED 2 .6	:	Concluding remarks & Vote of Thanks



CHAIRMAN  
BOS IN BUSINESS MANAGEMENT  
OSMANIA UNIVERSITY,  
Hyderabad-500 007, T.S., India.

4. To consider and approve the syllabus for Self-Study Course for second year students under regulation 2023.(Enclosed in Annexure- III)
5. To consider and approve the list of examiners for BBA Entrepreneurship Development- under regulation 2023.(Enclosed in Annexure- III)
6. To consider and approve the budget proposal for AY: 2023-24.
7. To consider and approve the requirement of teaching faculty for AY: 2023-24.
8. To consider and approve the requirement of library books for AY: 2023-24.
9. Suggestion given by the members –
10. Any other items.

The Board read through the report/recommendations of the expert committee and approved the scheme. Based on the suggestions given by the members, BOS resolved to recommend the Syllabus for Generic Elective, Bridge Course, Self-Study Course, Add-On course & list of examiners to the Academic Council for further approval. Mrs K.B.Sravanthi Assistant Professor in Management thanked all the members for their kind cooperation and the meeting came to an end.



BOS IN BUSINESS MANAGEMENT  
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Hyderabad University, India.  
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Alwal, Secunderabad- 500010



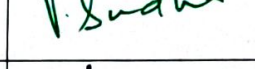
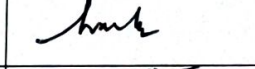
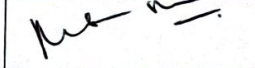

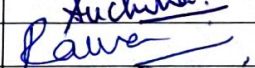
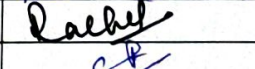
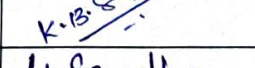

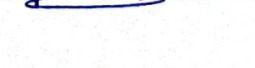
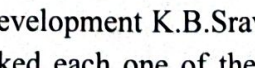
**MINUTES OF THE BOS MEETING**

**Date:** 20/01/2023

**Venue:** Conference Room

**Time:** 10.00 am

The Board Of Studies meeting of the program BBA Entrepreneurship Development was held on 20/01/2023 at admin block in the Conference room. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Fr.Dr.L.Joji Reddy SJ	Principal, LA	
2.	Fr. Arul Jothi SJ	Vice-Principal, LA	
3.	Dr. V.Sudha	University Nominee, Business Management, OU, Hyderabad	
4.	Mr K.J.A Swarup	Vice President-HR ITC Bhadrachalam (RTD)	
5.	Dr. Martina Rani	Associate Professor, Ashoka Business School	
6.	Dr. Maria Das . N.	Lay Vice-Principal, LA	
7.	Dr. T.Suchitra Naidu	Dean, Academics, LA	
8.	Dr.K.Rama	Dean IQAC, LA	
9.	Dr. Rachel Shalini T	Dean Management, LA	
10.	Mrs K.B.Sravanthi	Assistant professor, HOD BBAED, LA	
11.	N.Sandhya	Assistant professor, LA	
12.	Kaniganti Praveen Babu	Working at IBM	

The following points were discussed in the meeting,

1. The Chairman, BOS of the Program, BBA Entrepreneurship Development K.B.Sravanthi welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 2<sup>nd</sup> Board of Studies meeting held on 20/01/2023 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 2022 Academic council.
3. To consider and approve the syllabus of bridge course for first year students under regulation 2023. (Enclosed in Annexure-I)

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the Program, BBA Entrepreneurship Development, Mrs K.B.Sravanthi welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 1<sup>st</sup> Board of Studies meeting held on February 1<sup>st</sup> 2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. It was resolved to follow the Consolidated Scheme and syllabus for Second academic year 2023-2024 (3<sup>rd</sup> and 4<sup>th</sup> semester) for the batch 2022-2025 (Enclosed in Annexure-I).
4. It was resolved to introduce the following papers in 3<sup>rd</sup> Semester.

S.No	Title of Subject
1.	Start - up management
2.	Fundamentals of Business Mathematics
3.	Research Methodology
4.	Marketing Management
5.	Financial Management
6.	Human Resource Management

It was resolved to introduce the following papers in 4<sup>th</sup> Semester.

S.No	Title of Subject
1.	Environmental Studies
2.	Start - up management
3.	Corporate governance and Business Ethics
4.	Mobile Commerce T/P
5.	Production and Material Management
6.	Accounting for Management

5. It was resolved to approve the list of examiners AY: 2023-24.(Enclosed in Annexure- II)
6. It was resolved to purchase library books with a budget of Rs 6,800 for AY: 2023-24.(Enclosed in Annexure- III)
7. It was resolved to sanction a budget of Rs 76,800/-for AY: 2023-24.(Enclosed in Annexure- IV).
8. It was resolved to organise an International Conference/Workshop with a budget of Rs 25,000/-
9. It was resolved to recruit one teaching faculty for AY: 2023-24.(Enclosed in Annexure- V)
10. It was resolved to provide a classroom for First year students for AY: 2023-24.

The above resolutions were unanimously approved in the meeting.

BOS Chairperson

*V. Sudha*

CHAIRMAN

BOS IN BUSINESS MANAGEMENT TELANGANA, INDIA

Principal

PRINCIPAL

LOYOLA ACADEMY

OLD ALWAL, SECUNDERABAD-500 010

TELANGANA, INDIA


Dean

HOD


**LOYOLA ACADEMY**  
**Department of B.B.A.ED (2022-25 Batch) (Choice-Based Credit System) FROM ACADEMIC YEAR 2022-23**



Semester	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits		
I	Business English-1 (3) (AECC-1)	Indian Heritage and Culture (2) (AECC-2)	Computers in Management and fundamentals of IT (4+1) (SEC-1)	Management foundations(5) (GE-1 (DS))	Introduction to Entrepreneurship P-I (4+1) (Core-1)	Financial Accounting (5) (Core-2)	29	25	AECC-2 GE-1 SEC-1 CORE-2 DSE-0	
II	Business English-II (3) (AECC-3)	Value Education & Personality Development (2) (AECC-4)	Fundamentals of Business stats (4+1) (SEC-2)	Organisational Behaviour (5) (GE-2 (DS))	Introduction to entrepreneurship -II(5) (Core-3)	Managerial Economics (5) (Core-4)	29	25	AECC-2 GE-1 SEC-1 CORE-2 DSE-0	
III	Inter Disciplinary GE (2+1)	Fundamentals of Business Mathematics(4) (sec-3)	Research Methodology (5) (Core-5)	Marketing Management (5) (Core-6)	Financial Management(5) (Core-7)	Human Resource Management (5) (Core-8)	29	26	AECC-0 GE-1 SEC-1 CORE-4 DSE-0	
IV	Environmental Studies (3) (AECC-5)	Start - up Management (4) (SEC-4)	Corporate Governance and business ethics (4) (Core-9)	Mobile commerce (4) (Core-10)	Production and material management (5) (Core-11)	Accounting for management (5) (Core-12)	29	26	AECC-1 GE-0 SEC-1 CORE-4 DSE-0	
V	Financial markets and institutions / Fundamentals of investment management(4) (DSE-1)	Retail marketing and customer relationship/international marketing and export management (4) (DSE-2)	Brand management (5) (Core-13)	Strategic Management (4) (Core-14)	Business Laws (5) (Core-15)	Operations Research(4+1) (Core-16)	29	27	AECC-0 GE-0 SEC-0 CORE-4 DSE-2	
VI	Leadership & Change Management/ Talent & Knowledge Management (4) (DSE-3)	Rural marketing / service marketing (4) (DSE-4)	Project Management (4) (Core-17)	Business Intelligence (5) (Core-18)	International Business (5) (Core-19)	Project (2)	29	24	AECC-0 GE-0 SEC-0 CORE-3 DSE-2	
<b>AECC (Ability Enhancement Compulsory Course) : 05</b> <b>GE (Generic Elective) : 02</b> <b>SEC (Skill Enhancement Course) : 04</b> <b>Core : 19</b> <b>DSE (Discipline Specific Elective) : 04</b> <b>Inter Disciplinary GE (Start-up management) : 01</b>							<b>TOTAL</b>	<b>174</b>	<b>153</b>	

  
**D. SREERAMULU**  
 M.B.A., LL.B., Ph.D.  
 PROFESSOR  
 DEPARTMENT OF BUSINESS MANAGEMENT,  
 Osmania University, Hyderabad - 500 007 (T.S) INDIA.

12	BBED22204	Managerial Economics	6	5
13	PL18001	PLANET programme	-	-
		<b>Total</b>	<b>29</b>	<b>25</b>
		<b>SEMESTER -III</b>		
14	G23BBED1T/P	Start-up management (GE)	2+2	3
15	BBED23301	Fundamentals of Business Mathematics	4	4
16	BBED23302	Research Methodology	4	4
17	BBED23303	Marketing Management	5	5
18	BBED23304	Financial Management	6	5
19	BBED23305	Human Resource Management	6	5
		<b>Total</b>	<b>29</b>	<b>26</b>
		<b>SEMESTER -IV</b>		
20	ES18401	Environmental Studies	3	3
21	BBED23401	Start - up management	6	4
22	BBED23402	Corporate governance and business ethics	4	4
23	BBED23403	Mobile commerce	4	4
24	BBED23404	Production and Material Management	4	5
25	BBED23405	Accounting for management	6	5
26	BBED23406	M-commerce practical	2	1
		<b>Total</b>	<b>29</b>	<b>26</b>

  
**CHAIRMAN**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**

# LOYOLA ACADEMY, OLD ALWAL, SECUNDERABAD 500 010 TS



## SCHEME OF INSTRUCTION FOR BACHELOR OF BBA ENTREPRENEURSHIP DEVELOPMENT – 2023-2024

<b>I YEAR (2022-2023) BATCH (CBCS)</b>					
<b>I SEMESTER</b>			<b>II SEMESTER</b>		
<b>THEORY</b>			<b>THEORY</b>		
1.	EA18101	Business English-I	1.	EA18201	Business English-II
2.	IC19101	Indian Heritage and Culture	2.	VE18201	Value Education and Personality Development
3.	BBED22101	Computers in management and Fundamentals of IT	3.	BBED22201	Fundamentals of Business Statistics
4.	BBED22102	Management Foundations	4.	BBED22202	Organizational Behavior
5.	BBED22103	Introduction to Entrepreneurship	5.	BBED22203	Introduction to Entrepreneurship - II
6.	BBED22104	Financial Accounting	6.	BBED22204	Managerial Economics
<b>PRACTICALS</b>			<b>PRACTICALS</b>		
7.	BBED22105	Financial Accounting	7.	BBED22205	Fundamentals of Business Statistics
8.	BBED22106	Computers in management and Fundamentals of IT	8.	PL18001	PLANET Program

<b>II YEAR (2023-24) OF 2022-23 BATCH (CBCS)</b>					
<b>III SEMESTER</b>			<b>IV SEMESTER</b>		
<b>THEORY</b>			<b>THEORY</b>		
1	G23BBED1T	Start-up management (GE)	1.	ES18401	Environmental Studies
2	BBED23301	Fundamentals of Business Mathematics	2.	BBED23401	Start-up management
3	BBED23302	Research Methodology	3.	BBED23402	Corporate governance and Business Ethics
4	BBED23303	Marketing Management	4.	BBED23403	Mobile Commerce
5	BBED23304	Financial Management	5.	BBED23404	Production and Material Management
6	BBED23305	Human Resource Management	6.	BBED23405	Accounting for Management
<b>PRACTICALS</b>			<b>PRACTICALS</b>		
7	G23BBED1P	Start-up Management (GE)	7.	BBED23406	Mobile Commerce

*V. Srinivas*  
**CHAIRMAN**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**

**LOYOLA ACADEMY, OLD ALWAL, SECUNDERABAD 500 010 TS**  
**YEAR-WISE AND SEMESTER-WISE DISRIBUTION OF SUBJECTS**



**DEPARTMENT OF BBA Entrepreneurship Development**

**THIRD SEMESTER**

**ACADEMIC YEAR 2023-2024 OF 2022-2025 BATCH (CBCS)**

SI.N O	PAR T	SUBJECT CODE	TITLE OF THE SUBJECT	HOUR S/ WEEK	DURATIO N OF EXAM (HRS)	INTERNA L MARKS	EXTERNA L MARKS	TOTAL MARK S	CREDIT S
1.	I	G23BBED 1T	Start-up management (GE)	2	3	40	60	100	2
2.	I	BBED2330 1	Fundamentals of Business Mathematics (SEC-3)	5	3	40	60	100	5
3.	II	BBED2330 2	Research Methodology Core-5	4	3	40	60	100	4
4.	II	BBED2330 3	Marketing Management Core-6	5	3	40	60	100	5
5.	II	BBED2330 4	Financial Management Core-7	6	3	40	60	100	5
6.	II	BBED2330 5	Human Resource Management Core-8	5	3	40	60	100	5

**PRACTICALS**

7.	II	G23BBED1P	Start-up management	2	3	40	60	100	1
			TOTAL	29		280	420	700	27

\*AECC- Ability Enhancement Compulsory Course

\* SEC- Skill Enhancement Course

\*GE- General Elective

*V. Srinivas*  
**CHAIRMAN**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**

# LOYOLA ACADEMY, OLD ALWAL, SECUNDERABAD 500 010 TS



YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS

DEPARTMENT OF BBA Entrepreneurship Development

FOURTH SEMESTER

ACADEMIC YEAR 2023-2024 OF 2022-2025 BATCH (CBCS)

SI. NO	PART	SUBJECT CODE	TITLE OF THE SUBJECT	HOURS/ WEEK	DURATION OF EXAM (HRS)	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS
1.	I	ES18401	Environmental Studies (AECC-5)	3	3	40	60	100	3
2.	I	BBED23401	Start-up management (SEC-4)	5	3	40	60	100	5
3.	II	BBED23402	Corporate governance and Business Ethics (core-9)	5	3	40	60	100	5
4.	II	BBED23403	Mobile Commerce (Core-10)	4	3	40	60	100	4
5.	II	BBED23404	Production and Material Management (CORE-11)	4	3	40	60	100	5
6.	II	BBED23405	Accounting for Management CORE-12	6	3	40	60	100	5

## PRACTICALS

7.	II	BBED23406	Mobile commerce	2	3	40	60	100	1
			TOTAL	29		280	420	700	28

\*AECC- Ability Enhancement Compulsory Course \* SEC- Skill Enhancement Course \*GE- General Elective

  
CHAIRMAN  
BOS IN BUSINESS MANAGEMENT  
OSMANIA UNIVERSITY,  
Hyderabad-500 007, T.S., India.

**BBAED-LIST OF BOARD OF EXAMINERS**

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience	Area of Specialisation
1.	Dr.Patric Anthony (subject expert)	professor	Osmania University	9247799257 Patrick_ay@rediffmail.com	20	Marketing
2.	Dr.N.Giridhar	Assistant professor	Govt degree college khairtabad	9490807247 Narule.giridhar@gmail.com	10	Human resource Management
3.	M.Saraswathi	Assistant Professor	Govt degree college	9441230031 Saraswathi.m@gmail.com	20	Banking and Insurance
4.	T.Bhagya	Assistant Professor	Vivekananda Degree and PG College kukatpally	9885100796 bhagyathummala@gmail.com	12	Computers and commerce
5.	D.Laxmi	Assistant Professor	Rainbow Integrated degree college IDPL	7013104385 Dukkipatilaxmi@gmail.com	5	Management
6.	B.Prakash Reddy	Assistant Professor	Rainbow Integrated degree college IDPL	6281223609 Prakashreddy.1235gmail.com	8	Management

  
**CHAIRMAN**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**

**ANNEXURE- III**

**BBAED-INDENT FOR LIBRARY BOOKS**

S.No.	Title of the book& Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1.	Entrepreneurship development	kalyani	10	1500
2.	Start-up management	kalyani	10	1500
3.	Mobile Commerce	Himalaya	10	1800
4.	Production and material management	kalyani	10	2000
Total				6800

ANNEXURE - IV

BBA ED-BUDGET PROPOSAL AY: 2023-24

S.No.	Items	Estimated Amount(Rs)
1.	Computers	Nil
2.	Library books	6800
3.	Seminars(State/National/International)	25000
4.	Workshop	10000
5.	Field Visit	10000
6.	Guest Faculty	10000
7.	Stationary/Infrastructure	10000
8.	Miscellaneous (Any important day to be celebrated)	5000
Total		76800

  
**HOD Signature**

  
**Dean Signature**

**ANNEXURE - V**

**LIST OF FACULTY REQUIREMENT**

<b>S.No</b>	<b>Number of Faculty</b>	<b>Qualification</b>	<b>Workload</b>
1.	01	M.Com in Finance	I semester : 20 Hours II semester : 19 Hours

*K.B.S.P.*

**HOD Signature**

*Lachy*

**Dean Signature**

**DEPT. OF BBA RETAIL OPERATIONS  
MANAGEMENT**

**Year of Inception: 2022**



**Minutes of 2<sup>nd</sup> meeting of the Board Of Studies held on  
Friday, 20 January 2023 at 10.30 a.m.**

**Academic Year: 2023-24 for the batch of 2022-25**

**Venue: Conference Room, Admin Block**

**Loyola Academy, Degree & PG College**

**Loyola Academy  
Degree & PG College  
Alwal, Secunderabad- 500010**



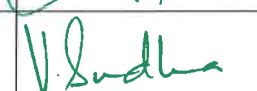
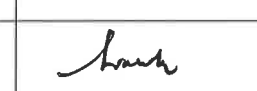
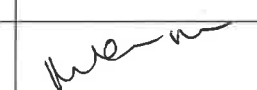
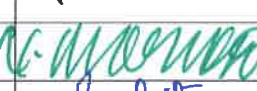
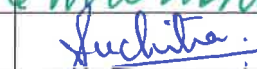

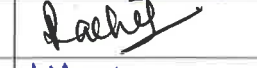
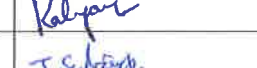


**MINUTES OF THE BOS MEETING**

**Date: 20/01/2023**

**Venue: Conference Room**

**Time: 10.30 am**

The Board of Studies meeting of the program BBA Retail Operations Management was held on 20/01/2023 at 10.30 am in the Conference room. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Fr. Dr. L. Joji Reddy SJ	Principal, LA	
2.	Fr. Arul jyothis SJ	Vice Principal (UG), LA	
3.	Dr.V.Sudha	University Nominee, Business Management, OU, Hyderabad	
4.	Mr K J A Swarup	Vice President - HR ITC Bhadrachalam (Rtd)	
5.	Dr Martina Rani	Associate Professor, Ashoka Business school .	
6.	Dr.N.Maria Das	Lay Vice-Principal,LA	
7.	Dr.T.Suchitra Naidu	Dean, Academics,LA	
8.	Dr. K. Rama	IQAC co-ordinator, LA	
9.	Dr. Rachel Shalini . T	Dean of Management , LA	
10.	Mr. V. Kalyan Goud	Chairman, BOS	
11.	Dr.Supriya Jangam	Assistant Professor in management	
12.	Kaniganti Praveen Babu	Alumni school of management Employee at IBM	

**LOYOLA ACADEMY, DEGREE & PG COLLEGE**  
**(An autonomous institution-affiliated to Osmania University, Hyderabad)**  
www.loyolaacademy.edu.in

2<sup>nd</sup> Board of Studies Meeting  
**Department of BBARETAIL OPERATIONS MANAGEMENT**

Venue: Conference Room, Admin Block,  
Loyola Academy, Degree & PG College

Date & Time: 20/01/23 & 10.30 A.M.

**AGENDA**

BOS/BBR 2.1	:	Welcome address and Opening Remarks by Mr. V.Kalyan Goud Chairman, Board Of Studies in the Department of BBA Retail Operations Management.
BOS/BBR 2.2	:	Action Taken Report of 1 <sup>st</sup> meeting of Board of Studies held on February 1 <sup>st</sup> 2022. 2.2.1: Introduced tentative scheme and syllabus of I <sup>st</sup> Academic year 2022-23(first and second semester) for the batch 2022-2025. The consolidated scheme and first year syllabus were approved by the board.
BOS/BBR 2.3	:	Business brought forward by the Chairman, Board of studies – 2.3.1 : Proposal to approve the Consolidated scheme for the batch 2022-2025 and syllabus of second academic year 2023 -2024- 3 <sup>rd</sup> and 4 <sup>th</sup> semester for the batch 2022-2025. Following are the courses to be offered in semester 3 and 4 respectively <b>Semester- III</b> Consumer behavior ERP , Computer Skills and Non Store Retailing Customer Relationship& Service Management Retail sales management Distributor Salesman (Retail sales associate) Seller Activation Executive (Retail sales associate) <b>Semester -IV</b> Environmental Studies Research Methodology Corporate and business Law Distributor Salesman (Retail sales associate) Seller Activation Executive (Retail sales associate) Fundamentals of Business Statistics Fundamentals of Business Statistics(PR) 2.3.2 : Proposal to approve list of examiners(Annexure-II) 2.3.3 : Proposal to approve list of Library Books(Annexure- III) 2.3.4 : Proposal to approve annual budget (Annexure- IV) 2.3.5 : Proposal to approve requirement of one class room.
BOS/BBR 2.4	:	Suggestions given by BOS Members
BOS/BBR2 .5	:	Concluding remarks & Vote of Thanks

**CHAIRMAN**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
Hyderabad-500 007, T.S., India

**The following resolutions were made in the BOS meeting,**

1. The HOD of the Program, BBA Retail Operations Management. Mr.V.Kalyan Goud welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 1<sup>st</sup> Board of Studies meeting held on **February 1<sup>st</sup> 2022** were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow** the Consolidated Scheme and syllabus for **Second** academic year 2023-2024 (**3<sup>rd</sup> and 4<sup>th</sup> semester**) for the batch **2022-2025** (Enclosed in Annexure-I).
4. **It was resolved to introduce the following papers in 3<sup>rd</sup> Semester.**

S.No	Title of Subject	Subject Code
1.	Consumer behavior (T/P)	GE23BBR1T&P
2.	ERP , Computer Skills and Non Store Retailing	BBR23301
3.	Customer Relationship& Service Management	BBR23302
4.	Retail sales management	BBR23303
5.	Distributor Salesman (Retail sales associate)	BBR23304
6.	Seller Activation Executive (Retail sales associate)	BBR23305

Above subjects are offered in 3<sup>rd</sup> Semester from the AY: 2023-24

**It was resolved to introduce the following papers in 4<sup>th</sup> Semester.**

S.No	Title of Subject	Subject Code
1.	Environmental studies & gender sensitization	ES18001
2.	Research methodology	BBR23401
3.	Corporate and business law	BBR23402
4.	Fundamentals of business statistics (T&P)	BBR23403 &406
5.	Distributor Salesman (Retail sales associate)	BBR23404
6.	Seller Activation Executive (Retail sales associate)	BBR23405

Above subjects are offered in 4<sup>th</sup> semester from the AY: 2023-24

5. It was resolved to approve the list of examiners AY: 2023-24.(Enclosed in Annexure- II)
6. It was resolved to purchase library books with a budget of 10,000for AY: 2023-24.(Enclosed in Annexure -III)
7. It was resolved to sanction a budget of Rs.75,000 for AY: 2023-24.(Enclosed in Annexure - IV).
8. It was resolved to organize an International Conference/Workshop with a budget of Rs25,000
9. It was resolved to provide a classroom for Second year students for AY: 2023-24.

The above resolutions were unanimously approved in the meeting.

BOS Chairperson

V. Sudhe

CHAIRMAN

BOS IN BUSINESS MANAGEMENT  
OSMANIA UNIVERSITY,  
Hyderabad-500 007, T.S., India.

Principal

PRINCIPAL  
LOYOLA ACADEMY  
OLD ALWAL, SECUNDERABAD-500 010  
TELANGANA, INDIA

Dean

HOD

**LOYOLA ACADEMY (NEW)**  
**Department of B.B.A ROM (2022-25 Batch) (Choice-Based Credit System) FROM**  
**ACADEMIC YEAR 2022-23**

Semester	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits	
I	Business English-I (3) (AECC-1)	Indian Heritage and Culture (2) (AECC-2)	Financial accounting (4+1) (core 1)	Introduction to retail operations & In store cashiering (4) (core 2)	Retail cashier (5) (core 3)	Retail Trainee associate (5) (core 4)	36	24	AECC-2 GE-1 SEC-1 CORE-2 DSE-0
II	Business English-II (3) (AECC-3)	Value Education & Personality Development (2) (AECC-4)	Corporate Governance and business ethics (5) (Core-5)	Principles of management (5) (core 6)	Retail cashier (5) (core 7)	Retail Trainee associate (5) (core 8)	36	25	AECC-2 GE-1 SEC-1 CORE-2 DSE-0
III	Inter Disciplinary GE (2+1)	ERP, computer skills & non store Retailing (4) (SEC-1)	Customer Relationship & Service management (4) (core 9)	Retail sales management (4) (core 10)	Distributor salesmen (5) (core 11)	Seller Activation executive (5) (core 12)	39	25	AECC-0 GE-1 SEC-1 CORE-4 DSE-0
IV	Environmental Studies (3) (AECC-5)	Fundamentals of Business statistics (4+1) (SEC-2)	Research Methodology (4) (Core-13)	Corporate and business Law (4) (core -14)	Distributor salesmen (5) (core 15)	Seller Activation executive (5) (core 16)	38	26	AECC-1 GE-0 SEC-1 CORE-4 DSE-0
V	Managerial Economics/ Human Resource management(4) (DSE-1)	International Retailing & operations of a team leader (4) (core 16)	Team management (4) (core 17)	FMCG/FM CD Distribution & Sales management (4) (core 18)	Retail Team leader (10) (Core 19)		36	26	AECC-0 GE-0 SEC-0 CORE-4 DSE-2
VI	Financial markets / Banking theory and practice (4) (DSE-2)	Cost and management accounting (4) (core 20)	Entrepreneurship Development (4)(core 21)	Project (6)	Retail Team leader (10) (Core 22)		35	28	AECC-0 GE-0 SEC-0 CORE-3 DSE-2
<b>AECC (Ability Enhancement Compulsory Course) : 05</b> <b>GE (Generic Elective) : 01</b> <b>SEC (Skill Enhancement Course) : 02</b> <b>Core : 22</b> <b>DSE (Discipline Specific Elective) : 02</b> <b>Inter Disciplinary GE (consumer behaviour) : 01</b>						<b>TOTAL</b>	<b>182</b>	<b>154</b>	

  
**V. S. CHAKRABORTY**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**



**Loyola Academy Degree & PG College**  
**B.B.A RETAIL OPERATIONS MANAGEMENT**  
**Batch (2022-25) (Choice Based Credit System)**

**SCHEME OF INSTRUCTION FOR BBA (Retail Operations Management) – 2022-25**  
**CORPORATE GOVERNANCE AND BUSINESS ETHICS**

II YEAR (2023-24) OF 2022-25 BATCH (CBCS)					
III SEMESTER			IV SEMESTER		
THEORY			THEORY		
1.	GEBBR231T	Consumer behavior	1.	BBR23405	Fundamentals of Business Statistics
2.	BBR23301	ERP , Computer Skills and Non Store Retailing	2.	ES18401	Environmental Studies & Gender Sensitization
3.	BBR23302	Customer Relationship & Service Management	3.	BBR23401	Research Methodology
4	BBR23303	Retail Sales Management	4	BBR23402	Corporate and business Law
		<b>Apprenticeship/OJT</b>			<b>Apprenticeship/OJT</b>
5	BBR23304	Distributor Salesman	5	BBR23403	Distributor Salesman
6	BBR23305	Seller Activation Executive	6	BBR23404	Seller Activation Executive
<b>PRACTICALS</b>					
8.				BBR23406	Fundamentals of Business Statistics

  
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**Hyderabad-500 007, T.S., India.**

**ANNEXURE-I (NEW)**



**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF B.B.A(Retail Operations Management)  
THIRD SEMESTER  
ACADEMIC YEAR 2023-24 OF 2022-2025 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1	I	GE23BBR1 T	Consumer behaviour	2	3	40	60	100	2
2	I	BBR23301	ERP, Computer Skills and Non Store Retailing (SEC)	5	3	40	60	100	4
3	II	BBR23302	Customer Relationship & Service Management (Core-9)	5	3	40	60	100	4
4	II	BBR23303	Retail sales management (Core-10)	5	3	40	60	100	4
<b>Apprenticeship/OJT</b>									
5	II	BBR23304	Distributor Salesman (Retail sales associate) OJT (Core-11)	10	3	40	60	100	5
6	II	BBR23305	Seller Activation Executive (Retail sales associate) OJT(Core-12)	10	3	40	60	100	5
<b>PRACTICALS</b>									
		GE23BBR1 T	Consumer behaviour	2	3	40	60	100	1
<b>Total</b>				<b>39</b>	<b>-</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>25</b>

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**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF B.B.A (Retail Operations Management)  
FOURTH SEMESTER  
ACADEMIC YEAR 2023-24 OF 2022-2025 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1	II	ES18001	Environmental studies & gender sensitization (AECC-5)	2	3	40	60	100	3
2	II	BBR23401	Research methodology (Core-13)	4	3	40	60	100	4
3	II	BBR23402	Corporate and business law (Core-14)	5	3	40	60	100	4
4	II	BBR23403	Fundamentals of business statistics (SEC-2)	4	3	40	60	100	4
<b>Apprenticeship/OJT</b>									
5	II	BBR23404	Distributor Salesman (Retail sales associate) OJT (Core-15)	10	3	40	60	100	5
6	II	BBR23405	Seller Activation Executive (Retail sales associate) OJT (Core-16)	10	3	40	60	100	5
<b>PRACTICALS</b>									
7	II	BBR23406	FUNDAMENTALS OF BUSINESS STATISTICS	2	3	40	60	100	1
<b>Total</b>				<b>37</b>	<b>-</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>26</b>

  
**CHAIRMAN**  
**BOS IN BUSINESS MANAGEMENT**  
**OSMANIA UNIVERSITY,**  
**Hyderabad-500 007, T.S., India.**

## ANNEXURE- II

### LIST OF BOARD OF EXAMINERS

S.No	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience	Area of Specialisation
1.	Dr.k.Mallikarjuna Rao	Assistant Professor	Govt city college	9052771299 & drmallikarjunarao99@gmail.com	16	Marketing and Finance & management
2.	Gajendra Babu	Assistant professor	Govt city college	76660020740 & pgk.gajendrababu@gmail.com	12	Computers and commerce
3.	Dr.S.Jhansi Rani	Assistant Professor	Govt city college	8977599042 & jhansisk\$4u@gmail.com	12	Marketing & Finance, management

  
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ANNEXURE- III OSMANIA UNIVERSITY,  
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### INDENT FOR LIBRARY BOOKS

S.No.	Title of the book & Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1.	Financial accounting	Kalyani publishers	10	2000
2.	Principles of management	Kalyani publishers	10	2000
3.	Corporate and business law	Kalyani publishers	10	2000
4.	Research methodology	New Age International Publishers;	6	2000
5.	Corporate Governance & Business Ethics	Chand publishers	10	2000
<b>TOTAL</b>				<b>10000</b>

ANNEXURE- IV

BBA ROM-BUDGET PROPOSAL AY: 2023-24

S.No.	Items	Estimated Amount(Rs)
1.	Computers	nil
2.	Library books	5000
3.	Seminars(State/National/International)	25000
4.	Workshop	10000
5.	Field Visit	10000
6.	Guest Faculty	10000
7.	Stationary/Infrastructure	10000
8.	Miscellaneous (Any important day to be celebrated)	5000
TOTAL		75000

  
HOD's Signature

  
Dean's Signature

# LOYOLA ACADEMY

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## SCHOOL OF COMMERCE

Department of B.Com (Information Systems)

Year of Inception:2022



Minutes of 2<sup>nd</sup> meeting of the Board of Studies held on  
Wednesday, 18<sup>th</sup> January 2023 at 10.00 a.m.

Academic Year: 2023-24 for the batch of 2022-25

**LOYOLA ACADEMY, DEGREE & PG COLLEGE**  
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Second Board of Studies Meeting

**Department of B.Com Information Systems**

Venue: Conference Room, Admin Block,

Loyola Academy

Date & Time: 18/1/23 & 10.00 A.M.

**AGENDA**

Bos/IS 2.1	:	Welcome address and Opening Remarks by Chairman, Board Of Studies in the Department of B.Com. Information Systems
Bos/IS 2.2	:	Last year CBCS Scheme and syllabus for I and II semesters of 2021-22, for the batch of 2023-25 was approved./
Bos/IS 2.3	:	<p>Business brought forward by the Chairman, Board of studies –</p> <p>2.3.1: Proposal to Approve new syllabus of III and IV semesters for the academic year of 2023-2023 for the batch of 2023-2025 as per CBCS. The following are the subjects for 3<sup>rd</sup> semester.</p> <p>SECIS23301 - Principles of Insurance SECIS23302 - Foundation of Digital Marketing web design BC22011/BC22013- Company Law BC22012- Advanced Accounting CIS23301/CIS23302- Business Statistics CIS23303/CIS23304- Business Information Systems GE23IS1T/GE23IS2P- Human Resource Management</p> <p>The following are the subjects for 4<sup>th</sup> semester.</p> <p>ES23301- Environment Studies &amp; Gender Sensitization SECIS23401- Practice of Life and General Insurance SECIS23402- Social media marketing, Search engine Optimization &amp; Online Advertising</p> <p>BC22015- Corporate Accounting CIS23401/CIS23402- Banking Theory and Practice BC22014- Direct Taxes CIS23403/CIS23404 - Data Base Management Systems</p> <p>2.3.2 Proposal to Introduce “Financial markets &amp; Institutions As Self Study course.</p> <p>2.3.3 : Approval for list of examiners 2.3.4 : Budget for Academic year 2023-24 2.3.5 : Staff required for AY-2023-24</p>
Bos/IS 2.4	:	Suggestions given by BOS Members
Bos/IS 2.5	:	Any other items
Bos/IS 2.6	:	Concluding remarks & Vote of Thanks

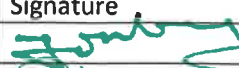





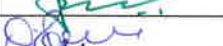

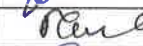



## MINUTES OF THE BOS MEETING


**Date:** 18/01/2023

**Venue:** Conference Room

**Time:** 10:00 AM

The Pre- Board of Studies meeting of the program B.Com- Information Systems was held on 18.01.2023 at Admin Block in the Conference room. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Fr.Dr.L.Joji Reddy SJ	Principal	
2.	Fr.Arul Jyothi	Vice-Principal	
3.	Dr.N.Mariadas	Lay.Vice-Principal	
4.	Dr. T. Suchitra Naidu	Dean, Academics	
5.	Dr. B.Rama	IQAC Coordinator	
6.	Prof.V.Appa Rao	University Nominee	
7.	Prof.I.Anand Pawar	Subject Expert	
8.	PAVAN KUMAR	Industry Expert	
9.	Sobin K Sunny	Alumini	
10.	Dr. M. Veera Swamy	Dean of Commerce	
11.	Rajkumar Reddy.P	Chairman, BOS	
12.	Mr.Ashok	Member	

  
**CHAIRMAN**  
Board of Studies in Commerce  
Osmania University,  
Hyderabad-500 007., T.S.



# LOYOLA ACADEMY

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## DEPARTMENT OF COMMERCE B. Com Information Systems

### MINUTES OF THE BOARD OF STUDIES MEETING

Wednesday, 18<sup>th</sup>, January 2023

10:00 am

A meeting of Board of Studies for the Department of Commerce (B. Com Information Systems) was held on Wednesday, 18th, January 2023 at 10:30 am in Boardroom, Ad block

The following resolutions were made in the BOS meeting,

1. The Chairman, BOS of the Program, **B.Com. Information Systems Mr. Rajkumar Reddy.P** welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 1<sup>st</sup> Board of Studies meeting held on **August 30<sup>th</sup> 2022** were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow** the Consolidated Scheme and syllabus for the **Second** academic year 2023-2024 (**3<sup>rd</sup> and 4<sup>th</sup> semester**) for the batch **2022-2025** (Enclosed in Annexure-I)
4. **It was resolved to introduce the following papers in 3<sup>rd</sup> Semester.**

S.No	Title of Subject	Subject Code
1.	Human Resource Management(Inter-Disciplinary) (GE)	G23IS1T/G23IS1P
2.	A)Principles of Insurance (or) B)Foundation of Digital Marketing Web Designing	SECIS23301/ SECIS23302
3.	Business Statistics	CIS 23301/ CIS 23302
4.	Advanced Accounting	BC22012
5.	Business Information	CIS23303/CIS23304

*A. M.*  
**CHAIRMAN**  
Board of Studies in Commerce  
Osmania University,  
Hyderabad-500 007, T.S.

	Systems	
6.	Company Law-II	BC22011/BC22013

Above subjects are offered in III semester from the AY: 2023-24.

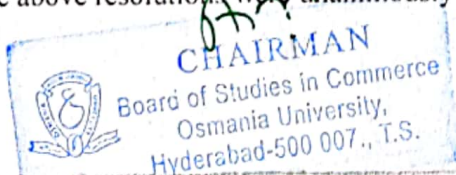
It was resolved to introduce the following papers in 4<sup>th</sup> Semester.

S.No	Title of Subject	Subject Code
1.	Environmental Studies & Gender Sensitization	ES 23301
2	A)Practice of Life and General Insurance (or) B)Social media marketing Search Engine Optimization and Online Advertising	SECIS23401/ SECIS23402
3.	Direct Taxes	BC22014
4.	Corporate Accounting	BC22015
5.	Banking Theory and Practice	CIS23401/CIS23402
6.	DataBase Management System	CIS23403/CIS23404

Above subjects are offered in IV semester from the AY: 2023-24

5. It was resolved to approve the list of examiners AY: 2023-24.(Enclosed in Annexure-II)
6. It was resolved to purchase library books Amount of Rs 32,500 for AY: 2023-24.(Enclosed in Annexure- III)
7. It was resolved to sanction a budget of Rs 1,28,000 for AY: 2023-24.(Enclosed in Annexure- IV).
8. It was resolved to organise an International Conference/Workshop with the budget of Rs. 10000/- .
9. It was resolved to Introduce "Financial markets & Institutions" as self study course for second years.

The above resolutions were unanimously approved in the meeting.



*P. Ravi*

BOS Chairperson

Principal

Dean

HOD

**LOYOLA ACADEMY DEGREE & PG COLLEGE, ALWAL SECUNDERABAD**  
**B.Com.(Information Systems) (2022-2025) (Choice-Based Credit System)**

Semester	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits		
I	Business English-I (3) (EL)	Indian Heritage & Culture (2) AECC-1	Business Organization and Management (4+1) (Core-1)	Financial Accounting –I (4+1) (Core-2)	Micro Economics(5) (Core-3)	Fundamentals of Information Technology (4+1) (Core-4)	28	25	EL=1 AECC=1 CORE=4	
II	Business English-II (3) (EL)	Value Education & Personality Development (2) AECC-2	Company law - I (4+1) (Core-5)	Financial Accounting-II (4+1)(Core-6)	E-commerce (5) (Core-7)	Programming in "C" (4+1) (Core-8)	28	25	EL=1 AECC=1 CORE=4	
III	Generic Elective (GE) (2+1)	A. Principles of Insurance(2) B. Foundation of Digital Marketing Web Design(2) (SEC-1)	Company Law-II(4+1) (Core-9)	Advanced Accounting(5) (Core-10)	Business Statistics(5) (Core-11)	Business Information Systems(4+1) (Core-12)	28	25	GE=1 SEC=1 CORE=4	
IV	Environmental Science & Gender Sensitization(3) AECC-3	A. Practice of life and General Insurance(2) B. Social Media Marketing Search Engine & Online Marketing(2) (SEC-2)	Corporate Accounting(5) (Core-13)	Banking Insurance and Practice(3+2) (Core-14)	Direct Taxes (5) (Core-15)	Data base Management systems (4+1)(Core-16)	28	25	SEC=1 AECC=1 CORE=4	
V	Advance Excel(4+1) (Core-17)	Auditing (5) (Core-18)	DSE-1 A) Cost Accounting(5) B) Financial Planning and Performance(5) C) International Financial Reporting-I (5)	DSE-2 A) Financial Statement Analysis(5) B) Financial Management – I (5) C) International Tax & Regulation (5)	DSE-3 A) Data Communication & Networks(3+2) B) Java Programming(3+2) C) Cyber Laws (3+2)		28	25	CORE=2 DSE=3	
VI	Web Programming(4+1) (Core-19))	Research Methodology & Project Report (2+2)(PR)	DSE-4 A) Advance Cost Accounting(5) b) Financial Control(5) c) International Financial Reporting-II (5)	DSE-5 A) Advance management Accounting(5) B) Financial Management -II C) International Finance (5)	DSE-6 A)Operating Systems(5) B) Business Decisions using SPSS(5) C)Python Programming(5)	Planet-1	29	25	CORE=1 DSE=3 PR=1	
<b>Legend:</b>							<b>Total</b>	<b>169</b>	<b>150</b>	
1.English(First Language):			02							
2. Ability Enhancement Compulsory Course (AECC) :			03							
2. Generic Elective (GE) :			01							
3.Skill Enhancement Course (SEC) :			02							
4.Core :			19							
5.Discipline – Specific Elective (DSE) :			06							
6.Inter Disciplinary(GE) #Human Resource Management			:01							



1  
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 Board of Studies in Commerce  
 Osmania University,  
 Hyderabad-500 007, T.S.

**B.Com(Information systems)Course Structure****W.e.f 2022-23**

Sl.NO.	Code	Course Title	HPW	Credits
(1)	(2)	(3)	(4)	(5)
<b>SEMESTER-I</b>				
1.	BE18101	Business English-I(ELS1)	3	3
2	IC19101	Indian Heritage & Culture(AECC1)	2	2
3.	BC22001/BC2201P	Business Organisation & Management(DSC1)	4T+2P	5
4.	BC22002/BC22004	Financial Accounting-I(DSC2)	4T+2P	5
5	BC22090	Micro Economics(DSC3)	5	5
6	BC22003/BC22005	Fundamentals of Information Technology(DSC4)	4T+2P	5
			<b>28</b>	<b>25</b>
<b>SEMESTER -II</b>				
7	BE18201	Business English-II(ELS2)	3	3
8	VE18201	Value Education(AECC2)	2	2
9	BC22006/BC22010	Company Law-I(DSC5)	4T+2P	5
10	BC22007/BC22009	Financial Accounting-II(DSC6)	4T+2P	5
11	CIS22201	E-Commerce (DSC7)	5	5
12	CIS22202/CIS22203	Programming in C(DSC8)	4T+2P	5
			<b>28</b>	<b>25</b>
<b>SEMESTER -III</b>				
13	SECIS23301 SECIS23302	(SEC1) A) Principles of Insurance B) Foundation of Digital Marketing Web Design	2	2
14	BC22011/BC22013	Company Law-II(DSC9)	4T+2P	5
15	BC22012	Advanced Accounting(DSC10)	5	5
16	CIS23301/CIS23302	Business Statistics(DSC11)	4T+2P	5
17	CIS23303/CIS23304	Business Information Systems(DSC12)	4T+2P	5
18	G23ISIT/G23ISIP	Human Resource management(GE-1)	2T+2P	3
			<b>29</b>	<b>25</b>



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SEMESTER -IV				
19	ES23301	Environmental Studies & Gender Sensitization(AECC3)	3	3
20	SECIS23401 SECIS23402	(SEC2) A) Practice of Life and General Insurance B) Social Media Marketing Search Engine Optimization & Online Advertising	2	2
21	BC22015	Corporate Accounting(DSC13)	5	5
22	CIS23401/CIS23402	Banking theory and Practice(DSC14)	3T+4P	5
23	BC22014	Direct Taxes(DSC15)	5	5
24	CIS23403/CIS23404	Database Management system(DSC16)	4T+2P	5
			<b>28</b>	<b>25</b>
SEMESTER -V				
25	CIS24501/CIS24502	Advance Excel(DSC17)	4T+2P	5
26	BC22017	Auditing(DSC18)	5	5
27	BC22047 BC22020 BC22021	DSE-1 A) Cost accounting B) Financial Planning and Performance C) International Financial Reporting-I	5	5
28	BC22049 BC22025 BC22024	DSE-2 A) Financial Statement Analysis B) Financial Management-I C) International Tax & Regulation	5	5
29	CIS24503/CIS24504 CIS24505/CIS24506 CIS24507/CIS24508	DSE-3 A) Data Communication & Networking B) Java Programming C) Cyber Laws	3T+4P	5
			<b>28</b>	<b>25</b>
SEMESTER -VI				
30	CIS24601/CIS24602	Web Programming(DSC19)	4T+2P	5
31	BC22057 BC22058 BC22034	DSE-4 A) Advanced Cost accounting B) Financial Control C) International Financial Reporting-II	5	5
32	CIS24603 BC22038 BC22037	DSE-5 A) Advanced Mangement Accounting B) Financial Management-II C) International Finance	5	5
33	CIS24603/CIS24604 CIS24605/CIS24606 CIS24607/CIS24608	DSE-6 A) Operating Systems B) Business Decisions using SPSS C) Python Programming	3T+4P	5
34	CIS24609	Research Methodology & Project Report	2T+4R	4
35	PL22001	Planet Programme		1
			<b>29</b>	<b>25</b>
		Total		<b>150</b>



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**SUMMARY OF CREDITS**

Sl.No.	Course Category	No. of Courses	Credits Per Course	Credits
1	ELS	2	3	6
3	AEC	3	2 + 2 + 1 + 3	7
4	SEC	2	2	4
5	GE	1	3	3
6	Project Report	1	4	4
7	DSC	19	5	95
8	DSE	6	5	30
9	PLANET	-	-	1
	<b>TOTAL</b>	<b>34</b>		<b>150</b>
<b>CREDITS UNDER NON-CGPA</b>		* Tutorial [ Remedial Classes/Seminar/Group Discussions/Activity-Based Learning]		



  
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**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF COMMERCE - B.COM. (INFORMATION SYSTEMS)  
THIRD SEMESTER  
ACADEMIC YEAR 2023-24 OF 2022-25 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
<b>THEORY</b>									
1	I	GE23IS 1T	General Elective (Human Resource Management) (GE)	2	3	40	60	100	2
2	I	SECIS23301/302	a)Principles of Insurance b)Foundation of Digital Marketing Web Designing	2	3	40	60	100	2
3	II	CIS 23301	Business Statistics	5	3	40	60	100	4
4	II	BC22012	Advanced Accounting	5	3	40	60	100	5
5	II	CIS23303	Business Information Systems	4	3	40	60	100	4
6	II	BC22011	Company Law – II	4	3	40	60	100	4
<b>PRACTICALS</b>									
7	II	GE23IS1P	Human Resource Management (GE)	2	3	40	60	100	1
8	II	CIS23302	Business Statistics	2	3	40	60	100	1
8	II	BC22013	Company Law-II Practical's	2	3	40	60	100	1
9	II	CIS23304	Business Information Systems	2	3	40	60	100	1
<b>TOTAL</b>				<b>28</b>	<b>-</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>25</b>

\*Ability Enhancement Compulsory Course (AECC)

\* Generic Elective (GE)

\* Skill Enhancement Course (SEC)

B.Com. INFORMATION SYSTEMS  
(CBCS)

Academic Year 2023-2024



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Osmania University,  
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**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS  
DEPARTMENT OF COMMERCE - B.COM. (INFORMATION SYSTEMS)  
FOURTH SEMESTER  
ACADEMIC YEAR 2023-24 OF 2022-25 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
<b>THEORY</b>									
1	I	ES 23301	Environmental Studies (AECC-5)	3	3	40	60	100	3
2	I	SECIS23401/402	a)Practice of Life and General Insurance b)Social Media Marketing Search Engine Optimization and Online Advertising	2	3	40	60	100	2
3	II	BC22014	Direct Taxes	5	3	40	60	100	5
4	II	BC22015	Corporate Accounting	5	3	40	60	100	5
5	II	CIS23401	Banking Theory and Practice	3	3	40	60	100	3
6	II	CIS23403	Data Base Management Systems	4	3	40	60	100	4
<b>PRACTICALS</b>									
8	II	CIS23402	Banking Theory and Practice	4	3	40	60	100	2
9	II	CIS23404	Data Base Management Systems	2	3	40	60	100	1
<b>TOTAL</b>				28	-	360	540	900	25

\*Ability Enhancement Compulsory Course (AECC)  
\* Skill Enhancement Course (SEC)

\* Generic Elective (GE)

B.Com. INFORMATION SYSTEMS  
(CBCS)

Academic Year 2023-2024



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Board of Studies in Commerce  
Osmania University,  
Hyderabad-500 007., T.S.

## ANNEXURE-II

### LIST OF BOARD OF EXAMINERS

S.No	Name of the expert	Designation	Institutional Address	Contact Details (Mobile no. & Email id)	Experience	Area of Specialization
1	Dr. G. NareshReddy (Subject Expert)	Professor	Osmania University	9491344950 gaddamnareshreddy@yahoo.co.in	20	Accounting & Finance
2	Dr. Patrick Anthony (Subject Expert)	Professor	Osmania University	9247799257 patrick_ay@rediffmail.com	20	Marketing
3	Dr. IndrakantiSekhar (Subject Expert)	Professor	Osmania University	9848451422 sindrakanti@yahoo.co.in	22	Accounting & Finance
4	Dr. I. AnandPawar (Subject Expert)	Professor	Dr B.R. Ambedkar Open University	9885848800 dr.anandpawar@yahoo.com	25	General Management & Marketing
5	Dr. Nazia Sultana	Associate Professor	TelanganaMahila vidyalam	8297117436 nazia.sultana@osmania.ac.in	22	Marketing
6	Dr. SabihaShareef	Assistant Professor	TelanganaMahila vidyalam	9290074714 sabiha shareef18@gmail.com	30	Finance
7	Dr.B. Shailaja	Assistant Professor	TelanganaMahila vidyalam	9989127909 shailaja.bangari@yahoo.com	15	Marketing
8	Dr .D. Raja Gopal	Assistant Professor	TelanganaMahila vidyalam	9177839123 d.rajagopal74@gmail.com	10	Finance
9	Dr. KamatamSrinivas	Associate Professor	Nizam College	9397970489 kamatamsrinivas@gmail.com	25	Accounting & Finance
10	Dr.P.Srinivas Reddy	Assistant Professor	Nizam College	7032811009 srinivas_kool4@yahoo.com	23	Marketing
11	Dr.P. KishanRao	Assistant Professor	Nizam College	9849723204	15	Accounting & Finance
12	Dr. Divisha	Assistant Professor	NizamCollege	9676666630 golladivisha101@gmail.com	7	Marketing
13	Mr. P.R.VenuGopal	Assistant Professor	Bhavansvivekand	venugopal.Commerce@bhavansvc.ac.in	25	Accounting & Finance
10	Dr.D.SanjeevaRao	Assistant Professor	Bhavansvivekand	sanjeevaroadavaraju@gmail.com	15	Accounting & Finance
14	Dr. N. Giridhar	Assistant Professor	Govt Degree College, Khairatabad	9490807247 narule.giridhar@gmail.com	10	Human Resource Management
15	Dr.V. Prabhakar	Associate Professor	Govt Degree College, Khairatabad	9989946637 Drpr1971@gmail.com	25	Banking & Insurance
16	A. Ramana	Assistant Professor	Govt Degree College, Khairatabad	ramana.ambati555@gmail.com	27	HRM
17	M.Saraswathi	Assistant Professor	Govt Degree College,	9441230031 saraswathi.m@gmail.com	20	Banking & Insurance
18	Dr. CH.	Assistant	Vivekananda	8341584004	15	Banking &

	Kishorkumar	Professor	Govt degree College	chkishor360@gmail.com		Insurance
19	M.Sangeetha	Assistant Professor	Vivekananda Govt degree College	8977140800 msangeetha987@gmail.com	10	HRM
20	Dr. M.J.Eliat	Assistant Professor	Govt. Degree College Begumpet	919849304505 dr.eliatmj@gmail.com	28	Accounting & Finance
21	Dr P. Ravi Kumar	Associate Professor	Reah school of Business Management	98856 26404 dr.raviyam@gmail.com	10	General Management
22	Dr. SumitraPujari	Associate Professor	St. Joseph's Degree & PG College	9963433697 sumitrapujari8@gmail.com	26	Taxation
23	Dr. Shiny Rajan	Associate Professor	St. Francis College for Women	shiny@sfc.ac.in	20	HRM
24	Ms. Lily Kansal	Assistant Professor	St. Francis College for Women	lillykansal@sfc.ac.in	21	HRM
25	T Krishna	Assistant Professor	St. Joseph's Degree & PG College	Krishna@josephcollege.ac.in	15	Finance
26	M.Rajender	Assistant Professor	St. Joseph's Degree & PG College	8985290783 malothrajendher@gmail.com	5	Taxation
27	Mary VinayaSheela	Dean - Academics	St. Joseph's Degree & PG College	maryvinayasheela@josephcollege.ac.in	30	Accounting

  
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ANNEXURE- III


INDENT FOR LIBRARY BOOKS

S.No.	Title of the book & Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1.	Financial Accounting	kalyani	10	2500
2.	Business law	Himalaya	10	2000
3.	Company law	Sulthan chand	10	2000
4.	Advance accounting	kalyani	10	3000
5.	Corporate accounting	kalyani	10	3000
6.	Management information systems	Tata mcgrawhill	10	5000
7.	C -Lanaguage	Tata mcgrawhill	10	5000
8.	Micro economics	Himalaya	10	3000
9.	Management information systems	Tata mcgrawhill	10	5000
10.	BOM	Himalaya	10	3000
<b>TOTAL</b>				32500

ANNEXURE-IV

BUDGET PROPOSAL AY: 2023-24

S.No.	Items	Estimated Amount(Rs)
1.	Scanner & printer	20000
2.	Library books	32,500/-
3.	Seminars(State/National/International)	10000/-
4.	Workshop	30000/-
5.	Field Visit	10,000/-
6.	Guest Faculty	8000/-
7.	Books Rack & Almirah	20000/-
8.	Miscellaneous(Any important day to be celebrated)	3000/-
	TOTAL	1,28,500

  
HOD Signature

  
Dean Signature

## MINUTES OF THE BOS MEETING

Date: 18/01/2023

Venue: Conference Room

Time: 10:00 AM

The Pre- Board of Studies meeting of the program B.Com- Information Systems was held on 18.01.2023 at Admin Block in the Conference room. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Fr.Dr.L.Joji Reddy SJ	Principal	
2.	Fr.Arul Jyothi	Vice-Principal	
3.	Dr.N.Mariadas	Lay.Vice-Principal	
4.	Dr. T. Suchitra Naidu	Dean, Academics	<i>Suchitra</i>
5.	Dr. B.Rama	IQAC Coordinator	
6.	Prof.V.Appa Rao	University Nominee	<i>Appa Rao</i>
7.	Prof.I.Anand Pawar	Subject Expert	<i>Anand Pawar</i>
8.	PAVANKUMAR	Industry Expert	<i>Pavankumar</i>
9.	Sabin K Sunny	Alumini	<i>Sabin K Sunny</i>
10.	Dr. M. Veera Swamy	Dean of Commerce	<i>Veera Swamy</i>
11.	Rajkumar Reddy.P	Chairman, BOS	<i>P. Rajkumar</i>
12.	Mr.Ashok	Member	<i>Ashok</i>

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# **LOYOLA ACADEMY**

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## **SCHOOL OF MANAGEMENT**

### **BACHELOR OF BUSINESS ADMINISTRATION**

#### **TOURISM**

**Year of Inception: 2023**



**Minutes of II Board of Studies held on Tuesday, 16<sup>th</sup>  
January 2024 at 10.00 a.m.**

**Academic Year: 2024-2025 for the batch of 2023-2026**

**LOYOLA ACADEMY, DEGREE & PG COLLEGE**  
**(An autonomous institution-affiliated to Osmania University, Hyderabad)**  
www.loyolaacademy.edu.in

II Board of Studies Meeting  
**Department of BBA TOURISM**  
Venue: Board Room, Father Balaiah Block  
Loyola Academy  
(Degree & PG College)

Date & Time: 16/01/24 at 10.00 A.M.

**AGENDA**

BOS/T 2.1	:	Welcome address and Opening Remarks by Dr. Sangeeta Peter, Chairperson, Board Of Studies for the Department of BBA Tourism																					
BOS/T 2.2	:	Action Taken Report of I meeting of Board of Studies held on 15 <sup>th</sup> July 2023. 1.2.1: Consolidated Scheme and Syllabus for I and II Semester for the AY 2023-2024 for the batch 2023-2026 was approved by the board.																					
BOS/T 2.3	:	Business brought forward by the Chairperson, Board of studies –  2.3.1: Proposal to approve minor changes in the consolidated scheme and syllabus for III and IV Semester for the AY 2024-2025 for the batch 2023-2026.  2.3.2: Following are the courses to be offered in Semester III and IV respectively as per CBCS.  Semester- III <table border="1"><thead><tr><th>S.NO</th><th>Title of Subject</th><th>Course Code</th></tr></thead><tbody><tr><td>1.</td><td>Tourism Management</td><td>G24BBTR1T</td></tr><tr><td>2.</td><td>Taxation</td><td>BB20301</td></tr><tr><td>3.</td><td>Corporate Governance &amp; Business Ethics</td><td>BBTR24301</td></tr><tr><td>4.</td><td>Aviation Management</td><td>BBTR24302</td></tr><tr><td>5.</td><td>Marketing Management</td><td>BBTR24303</td></tr><tr><td>6.</td><td>Organizational Behaviour</td><td>BBTR24304</td></tr></tbody></table>	S.NO	Title of Subject	Course Code	1.	Tourism Management	G24BBTR1T	2.	Taxation	BB20301	3.	Corporate Governance & Business Ethics	BBTR24301	4.	Aviation Management	BBTR24302	5.	Marketing Management	BBTR24303	6.	Organizational Behaviour	BBTR24304
S.NO	Title of Subject	Course Code																					
1.	Tourism Management	G24BBTR1T																					
2.	Taxation	BB20301																					
3.	Corporate Governance & Business Ethics	BBTR24301																					
4.	Aviation Management	BBTR24302																					
5.	Marketing Management	BBTR24303																					
6.	Organizational Behaviour	BBTR24304																					



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Semester –IV		
S.NO	Title of Subject	Course Code
1.	Environmental Studies & Eco Tourism	BBTR24401
2.	Human Resource Management	BBTR24402
3.	Research Methodology	BBTR24403
4.	Financial Management	BBTR24404
5.	Consumer Behaviour in Tourism	BBTR24405
6.	Macro Business Environment	BBTR24406
<p>2.3.4: As per the requirement of the programme, the common course Environmental Studies is renamed as Environmental Studies and Eco Tourism for the AY 2024-25 for the batch 2023-26.</p> <p>2.3.5: The concept of Gender Sensitization from the common course Environmental Studies is added to Value Education &amp; Personality Development and the course is renamed as Value Education, Personality Development &amp; Gender Sensitization for the AY 2024-25 for the batch 2024-27.</p> <p>2.3.5: As per the requirement of the programme, the common course Indian Heritage and Culture is renamed as Indian Heritage and Cultural Tourism for the AY 2024-25 for the batch 2024-27</p> <p>2.3.6: Proposal to introduce Tourism Products as a Self Study Course (Annexure VI)</p> <p>2.3.7: Proposal to approve industry training in Telangana Tourism Development Corporation, after the II Semester.</p> <p>2.3.8 : Proposal to approve the list of examiners (Annexure II)</p> <p>2.3.9: Proposal to approve indent for Library Books (Annexure III)</p> <p>2.3.10 : Proposal to approve annual budget of Rs 80,000 for AY 2024-2025 (Annexure IV)</p> <p>2.3.11: Proposal to approve requirement of one teaching faculty &amp; one classroom for AY 2024-2025. (Annexure V)</p>		
BOS/TR 2.4	:	Suggestions given by BOS Members
BOS/TR 2.5	:	Concluding remarks & Vote of Thanks

  
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**LOYOLA ACADEMY  
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ALWAL, SECUNDERABAD- 500010**

**MINUTES OF THE BOS MEETING**


**Date: 16/01/2024**

**Venue: Board Room,**

**Time: 10.00 am**

**Loyola Academy**

The Board Of Studies meeting of the program BBA Tourism was held on 16/01/2024 at Board Room. Following members attended the meeting.

S.No	Name	Designation	Signature
1.	Fr. Dr. L. Joji Reddy SJ	Principal, LA	
2.	Fr. Dr. AM Joseph Kumar. SJ	Vice Principal, School of Management, LA	
3.	Dr V.Sudha	University Nominee, Business Management, OU, Hyderabad	
4.	Y.Sucharitha	Subject Expert Prof & HOD – St. Anns P.G College for Women , Mallapur	
5.	Mr. Naveen Kanduri	Industry expert, Vice President -Finac Plus	
6.	Dr. T Suchitra Naidu	Dean of Academics, LA	
7.	Dr.K.Rama	Dean, IQAC , LA	
8.	Dr. T Rachel Shalini	Dean of Management , LA	
9.	Dr. Sangeeta Peter	Assistant Professor in Business Administration, HOD, BBA Tourism	
10.	Mrs. Sweta Rao	Assistant Professor in Business Administration	
11.	Mr. Kaniganti Praveen Babu	Alumni ,Working in IBM	

The following points were discussed in the meeting,

1. The Chairperson, BOS of the Program, BBA Tourism, Dr. Sangeeta Peter, welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 1<sup>st</sup> Board of Studies meeting held on 15<sup>th</sup> July 2023 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. It was resolved to follow the consolidated scheme and introduce the following papers in III and IV Semester respectively for the AY 2024-2025 for the batch of 2023-2026.

#### Semester III

S.NO	Title of Subject	Course Code
1.	Tourism Management	G24BBTR1T
2.	Taxation	BB20301
3.	Corporate Governance & Business Ethics	BBTR24301
4.	Aviation Management	BBTR24302
5.	Marketing Management	BBTR24303
6.	Organizational Behaviour	BBTR24304

#### Semester IV

S.NO	Title of Subject	Course Code
1.	Environmental Studies & Eco Tourism	BBTR24401
2.	Human Resource Management	BBTR24402
3.	Research Methodology	BBTR24403
4.	Financial Management	BBTR24404
5.	Consumer Behaviour in Tourism	BBTR24405
6.	Macro Business Environment	BBTR24406

4. It was resolved to approve minor changes in the consolidated scheme and syllabus for III and IV Semester for the AY 2024-2025 for the batch 2023-2026.
5. It was resolved to approve, Tourism Product, as Self Study Course (Non CGPA Course) for Second Year Students in the IV Semester (Enclosed in Annexure VI).

  
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JSS University, India.  
Hyderabad 500 007, T.S., India.

6. It was resolved to approve the renaming of the common course Environmental Studies to Environmental Studies and Eco Tourism for the AY 2024-25 for the batch 2023-26.
7. It was resolved to approve the addition of Gender Sensitization to Value Education & Personality Development and renaming of the course to Value Education, Personality Development & Gender Sensitization for the AY 2024-25 for the batch 2024-27.
8. It was resolved to approve the renaming of the common course Indian Heritage and Culture to Indian Heritage and Cultural Tourism for the AY 2024-25 for the batch 2024-27.
9. We proposed to include industry training at the end of Semester II for a period of 30 days in Telangana Tourism Development Corporation subject to permission being granted. The same was approved.
10. As per the suggestions of OU Nominee, Prof. V Sudha, it was resolved to approve the change in the title of the course Consumer Behaviour to Consumer Behaviour in Tourism.
11. As per the suggestions of OU Nominee, Prof. V Sudha, it was resolved to include Virtual Tour as part of teaching pedagogy.
12. As per the suggestions of the Industry Expert, Mr. Naveen Kanduri, it was resolved to approve the inclusion of tourism concepts in management subjects.
13. As per the suggestions of OU Nominee, Prof. V Sudha, it was resolved to approve the inclusion of Social Enterprise Concepts.
14. As per the suggestions of OU Nominee, Prof. V Sudha, it was resolved to enrol students in HMA/ Management memberships.
15. As per the suggestions of OU Nominee, Prof. V Sudha, it was resolved to have book review as an activity for students.
16. It was resolved to approve the list of examiners for BBA Tourism under regulation 2024. (Enclosed in Annexure- II)
17. It was resolved to approve indent for library books for AY: 2024-25. (Enclosed in Annexure- III).
18. It was resolved to approve the budget proposal of Rs. 80,000 for AY: 2024-25. (Enclosed in Annexure- IV).
19. It was resolved to recruit 1 teaching faculty and provide 1 classroom for AY: 2024-2025.

The above resolutions were unanimously approved in the meeting.

Dr. Sangeeta Peter, Assistant Professor in Business Administration thanked all the members for their kind cooperation and the meeting came to an end.

  
**PROFESSOR**  
OU Nominee  
Dept. of Business Management  
Osmania University,  
Hyderabad-500 007, T.S., India.

  
Dean

  
Principal, Loyola Academy

  
BOS Chairperson

# ANNEXURE-I



**LOYOLA ACADEMY**  
**Department of B.B.A Tourism (2023-26 Batch) (Choice-Based Credit System)**  
**FROM ACADEMIC YEAR 2023-2024 (New)**

Semester	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Hours	Credits	
I	Business English-I (3) (AECC-1)	Indian Heritage and Cultural Tourism (4) (Core 1)	Fundamentals of Information Technology (4+1) (SEC-1)	Tourism Principles & Practices (5) (Core 2)	Financial Accounting - (4+1) (Core-3)	Principles of Management (5) (Core-4)	29	27	AECC-1 GE-0 SEC-1 CORE-4 DSE-0
II	Business English-II (3) (AECC-2)	Value Education, Personality Development & Gender Sensitization (2) (AECC-3)	Fundamentals of Business Statistics (4+1) (SEC-2)	E-Commerce (4+1) (SEC-3)	Introduction to Hospitality (6) (Core-5)	Managerial Economics (6) (Core-6)	29	23	AECC-2 GE-0 SEC-2 CORE-2 DSE-0
III	Inter Disciplinary GE (2+2) Tourism Management	Taxation (6) (Core-7)	Corporate Governance & Business Ethics (5) (GE-1DS)	Aviation Management (6) (Core-8)	Marketing Management (4) (Core-9)	Organizational Behaviour (4) (Core-10)	29	26	AECC-0 GE-2 SEC-0 CORE-4 DSE-0
IV	Environmental Studies & Eco Tourism (5) (Core -11)	Human Resource Management (6) (Core-12)	Research Methodology (4) (Core 13)	Financial Management (6) (Core-14)	Consumer Behaviour in Tourism (4) (Core-15)	Macro Business Environment (4) (Core-16)	29	28	AECC-0 GE-0 SEC-0 CORE-6 DSE-0
V	International Marketing & Export Management/ International Business (4) (DSE-1)	Talent Knowledge Management/ Leadership & Change Management (4) (DSE-2)	Foreign Languages-I (4) (SEC-4)	Management Accounting (6) (Core-17)	Business Laws (6) (Core-18)	Strategic Management (5) (Core-19)	29	27	AECC-0 GE-0 SEC-1 CORE-3 DSE-2
VI	Airline Ticketing / Travel Agency & Tour (4) (DSE-3)	Customer Relationship Management /Service Marketing (4) (DSE-4)	Foreign Languages -II (4) (SEC-5)	Entrepreneurship Development (4) (Core-20)	Operations Management (5) (Core-21)	Project (2)	29	23	AECC-0 GE-0 SEC-1 CORE-2 DSE-2
<b>AECC (Ability Enhancement Compulsory Course) : 03</b> <b>GE (Generic Elective) : 01</b> <b>SEC (Skill Enhancement Course) : 05</b> <b>Core : 21</b> <b>DSE (Discipline Specific Elective) : 04</b> <b>Inter Disciplinary GE (Tourism Management) : 01</b>									
<b>Tour : 1 (4 credits)</b>						<b>TOTAL</b>	<b>174</b>	<b>164</b>	

Q

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 Ramaniya University,  
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**YEAR-WISE AND SEMESTER-WISE DISRIBUTION OF SUBJECTS**  
**DEPARTMENT OF BBA TOURSIM**  
**THIRD SEMESTER**  
**ACADEMIC YEAR 2024-2025 OF 2023-2026 BATCH (CBCS)**

Sl. No.	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
					Internal	External	Total	
1	G24BBTR1T	Tourism Management (GE)	2	3	40	60	100	2
2	BB20301	Taxation (Core -7)	6	3	40	60	100	5
3	BBTR24301	Corporate Governance & Business Ethics (GE-1(DS))	5	3	40	60	100	5
4	BBTR24302	Aviation Management (Core-8)	6	3	40	60	100	5
5	BBTR24303	Marketing Management (Core -9)	4	3	40	60	100	4
6	BBTR24304	Organizational Behaviour (Core 10)	4	3	40	60	100	4
<b>PRACTICALS</b>								
7	G24BBTR1P	Tourism Management (GE)	2	3	40	60	100	1
<b>Total</b>			<b>29</b>	<b>-</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>26</b>

\*Ability Enhancement Compulsory Course (AECC)

\*General Elective (GE)

\*Skill Enhancement Course (SEC)

  
PROFESSOR  
Dept. of Business Management  
Osmania University,  
Hyderabad-500 007, T.S., India.

**LOYOLA ACADEMY, OLD ALWAL, SECUNDERABAD 500 010 TS**  
**YEAR-WISE AND SEMESTER-WISE DISRIBUTION OF SUBJECTS**  
**DEPARTMENT OF BBA TOURSIM**  
**FOURTH SEMESTER**  
**ACADEMIC YEAR 2024-2025 OF 2023-2026 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the Subject	Hours /Week	Duration of Exam (hrs.)	Marks			Credits
						Internal	External	Total	
1		BBTR24401	Environmental Studies & Eco Tourism (Core-11)	5	3	40	60	100	5
2		BBTR24402	Human Resource Management (Core-12)	5	3	40	60	100	5
3		BBTR24403	Research Methodology (Core-13)	4	3	40	60	100	4
4		BBTR24404	Financial Management (Core-14)	6	3	40	60	100	6
5		BBTR24405	Consumer Behaviour in Tourism (Core-15)	5	3	40	60	100	4
6		BBTR24406	Macro Business Environment (Core-16)	4	3	40	60	100	4
<b>PRACTICALS</b>									
<b>Total</b>				<b>29</b>	<b>-</b>	<b>240</b>	<b>360</b>	<b>600</b>	<b>28</b>

\*Ability Enhancement Compulsory Course (AECC)

\*General Elective (GE)

\*Skill Enhancement Course (SEC)

  
**PROFESSOR**  
 Dept. of Business Management  
 Osmanti University  
 Hyderabad-500 007, T.S., India.

# **LOYOLA ACADEMY**

**(DEGREE & PG COLLEGE)**

**OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA**

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## **SCHOOL OF SCIENCE**

### **Department of M.Sc.Biotechnology**

**Year of Inception:2006**



**Minutes of 18<sup>th</sup> meeting of the Board of Studies held on  
Tuesday,31st January 2023 at 11.00 a.m.**

**Academic Year: 2023-24 for the batch of 2022-24**

**LOYOLA ACADEMY, DEGREE & PG COLLEGE**  
 (An autonomous institution-affiliated to Osmania University, Hyderabad)  
 www.loyolaacademy.edu.in

**18<sup>th</sup> Board of Studies Meeting**  
**Department of M.Sc. Biotechnology**  
 Venue: Conference Room, Admin Block,  
 Loyola Academy

**Date & Time: 31/01/23 Tuesday & 11.00 A.M.**

**AGENDA**

BOS/MBT 18.1	:	Welcome address and Opening Remarks by Chairman, Board Of Studies in the Department of M.Sc. Biotechnology
BOS/MBT 18.2	:	Action Taken Report of 18 <sup>th</sup> meeting of Board of Studies. Introduced consolidated scheme and syllabus of 1 <sup>st</sup> Academic year 2022-23 (first and second semester) for the batch 2022-2024. The consolidated scheme and first year syllabus were approved by the board
BOS/MBT 18.3	:	Business brought forward by the Chairman, Board of studies – 3.1 : Proposal to Approve new syllabus of III and IV semesters for the academic year of 2022-2023 for the batch of 2022-2025 as per CBCS.(Annexure-I)  <b>The following are the subjects for 3<sup>rd</sup> semester.</b> MBT 22302 (AECC-3) Human values & Professional Ethics MBT22302,22307 Plant, Agriculture Biotechnology (Theory&Practicals) MBT 22303,22308 Animal Biotechnology (Theory&Practicals) MBT 22304,22309 Medical Biotechnology (Theory&Practicals) MBT22305,22310 Bioinformatics (Theory&Practicals) MBT 22306,22311 Bioprocess Engineering (Theory&Practicals)  <b>The following are the subjects for 4<sup>th</sup> semester.</b> MBT 22401 DSE IA/B: Env. Biotechnology/Food Biotechnology (Theory) MBT 22402, DSE II A/B: NanoBiotechnology / Food & Nutrition (Theory) MBT22403 ID: Basic Biotechnology/Advances in Biotechnology (Theory) MBT 22404 Project

*Prof. Smita*

Prof. Smita  
 Chairperson- BoS in Biotechnology  
 Department of Genetics & Biotechnology  
 Osmania University, Hyderabad

		3.2. Approval for list of examiners : 2023 3.3. Approval of Budget : AY2022-23 3.4. Proposal to approve library books for AY: 2023-24. 3.5. Approval of requirement of 1 faculty member to M.Sc. Biotechnology Department. 3.5. Any other matter
BOS/MBT 18.4	:	Suggestions given by BOS Members
BOS/MBT 18.5	:	Any other items
BOS/MBT 18.6	:	Concluding remarks & Vote of Thanks

*Smita*

Prof. Smita C. Pawar  
 Professor  
 Chairperson- BoS in Biotechnology  
 Department of Genetics & Biotechnology  
 Osmania University, Hyd-500 007.

Loyola Academy  
Degree & PG College  
Alwal, Secunderabad- 500010



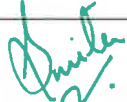
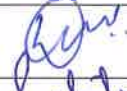


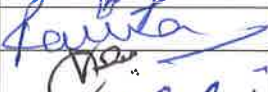
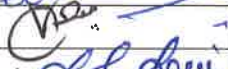


**MINUTES OF THE BOS MEETING**

**Date:** 31/01/2023

**Venue:** Conference Room

**Time:** 10 AM

The ~~Pro~~- Board Of Studies meeting of the program M.Sc. Biotechnology was held on 31<sup>st</sup> January 2023 at \_Loyola Academy in the Conference room. Following members attended the meeting.

S.No.	Name of the attendee	Designation	Signature
1.	Fr.Dr.L.Joji Reddy SJ	Principal, Associate professor ,LA	
2.	Fr. A M Joseph kumar SJ	Vice-Principal (PG) LA	
3.	Dr.Sirisha	Lay Viceprincipal , Associate professor, Member,LA	
4.	Dr.Smita C Pawar	Professor,Chairman BOS,Dept.Of Biotechnology .OU. Academic Expert	
5.	Dr.D.Samuel Spargen Babu	Head, R&D Sahasra Crop Science Industry Expert	
6.	Dr.T.Suchithra Naidu	Dean of Academics LA	
7.	Dr.P.Thirupathi	Dean of Science LA	
8.	Dr. B.Rama	IQAC Coordinator	
9.	Mr. V.V.S.Chalapathi Rao	Chairman, BOS, LA	
11.	Mrs. D.Guru Devi	Member	
12.	Rev.Fr.Ch.Anand kumar	Member	

The following points were discussed in the meeting,

1. The Chairman, BOS of the Program, M.Sc. Biotechnology Mr. V.V.S. Chalapathi Rao welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 17<sup>th</sup> Board of Studies meeting held on February 8<sup>th</sup>2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.

## Minutes of Board of Studies Meeting:

The following resolutions were made in the BOS meeting,

1. The chairman BOS Of the program Mr.V.V.S.Chalapathi Rao welcomed and introduced the members of the BOS and thanked each one of them for sparing their valuable time to attend the meeting.
2. The minutes of the 17<sup>th</sup>Board of Studies meeting held on (08/02/2022 ) were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
3. **It was resolved to follow** the Consolidated Scheme and syllabus for M.Sc.II Year of academic year 2023-2024 (3<sup>th</sup> and 4<sup>th</sup> semester) for the batch 2022-2024 (Enclosed in Annexure-I).
4. It was resolved to approve the syllabus for III and IV semesters for the academic year of 2023-2024 for the batch 2022-2024 as per CBCS (Annexure I)
5. **It was resolved to introduce the following papers in III Semester.**

S.No	Title of Subject	Subject Code
1.	(AECC-3)Human values&Professional Ethics	MBT 21302
2.	Plant&AgricultureBiotechnology(Theory&Practicals)	MBT21302,21307
3.	Animal Biotechnology (Theory&Practicals)	MBT 21303,21308
4.	Medical Biotechnology(Theory&Practicals)	MBT 21304,21309
5.	Bioinformatics (Theory&Practicals)	MBT22305,22310
6.	Bioprocess Engineering(Theory&Practicals)	MBT 22306,22311

Above subjects are offered in III semester from the AY: 2023-24

**It was resolved to introduce the following papers in IV Semester.**

S.No	Title of Subject	Subject Code
1.	Env.Biotechnology/Food Biotechnology (Theory)	MBT 21401DSE IA/IB:
2.	NanoBiotechnology / Food and Nutrition (Theory)	MBT 22402,DSE IIA/IIB:
3.	BasicBiotechnology/Advances in Biotechnology (Theory)	MBT21403ID:
4.	<b>Project</b>	MBT 22404

Above subjects are offered in IV semester from the AY: 2023-24

6. It was resolved to offer a New paper as DSE IIB titled **“Food and Nutrition”** In Semester IV.
7. It was resolved to approve the list of examiners AY: 2023-24.(Enclosed in Annexure- II)
8. It was resolved to purchase library books worth Rs 1,62,275/- for AY: 2023-24.(Enclosed in Annexure- III)
9. It was resolved to sanction a budget of Rs 12,52,275/- (Twelve lakhs fifty two thousand two hundred seventy five rupees only) for AY: 2023-24.(Enclosed in Annexure- IV).
- 9.It was resolved to organise an International Conference/Workshop with a budget of Rs 1,00,000/- only.
- 10.It was resolved to recruit 1 teaching faculty for AY: 2023-24.(Enclosed in Annexure- V)
11. The Subject expert Prof.Smita C.Pawar resolved and approved the Revised syllabus and it is introduced for 2022-24 Batch.

11. The Subject expert Prof.Smita C.Pawar resolved and approved the Revised syllabus and it is introduced for 2022-24 Batch.

12. The Industry expert gave suggestions about the design of project work for M.Sc. Biotechnology students should be able to do the Basic part of their Project should be in college campus and should extend their work by twinning with R&D Labs /Industry .This will provide them an opportunity to learn New Approaches/latest Techniques and Exposure to New Equipmentswhich will broaden their research ideas and provide scope to New Arenas of their specialization and problem solving skills and provide better job opportunities .

13. Rev Fr.Dr. L Joji Reddy Principal, insisted that the student should be engaged in gaining more practical knowledge with new teaching methodology and train students on how to grab the job opportunities and skills for career devolopment of students.

The above resolutions were unanimously approved in the meeting.



**BOS Chairperson**


**Prof. Smita C. Pawar**

Professor

Chairperson-BOS in Biotechnology  
Department of Genetics & Biotechnology  
Osmania University, Hyd-500 027.

**Principal**

**Dean**



**HOD**



**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS**  
**DEPARTMENT OF BIOTECHNOLOGY**  
**M. Sc - SECOND YEAR – I SEMESTER**  
**ACADEMIC YEAR 2022-23 OF 2022-24 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the subject	Hours/ week	Duration of Exam (Hrs.)	Marks			Credits
						Internal	External	Total	
1	*I	*MBT 21301	*Computer Applications (AECC-3)	2	1	*20	*30	*50	*2
2	II	MBT 21302	Plant & Agriculture Biotechnology (Core -10)	4	3	40	60	100	4
3	II	MBT 21303	Animal Biotechnology (Core-11)	4	3	40	60	100	4
4	II	MBT 21304	Medical Biotechnology (Core -12)	4	3	40	60	100	4
5	II	MBT 21305	Bioinformatics (Core -13)	4	3	40	60	100	4
6	II	MBT 21306	Bioprocess Engineering (Core -14)	4	3	40	60	100	4
<b>PRACTICALS</b>									
7	II	MBT 21307	Plant & Agriculture Biotechnology (Core -10)	3	2	20	30	50	2
8	II	MBT 21308	Animal Biotechnology (Core-14)	3	2	20	30	50	2
8	II	MBT 21309	Medical Biotechnology (Core -11)	3	2	20	30	50	2
9	II	MBT 21310	Bioinformatics (Core -12)	3	2	20	30	50	2
10	II	MBT 21311	Bioprocess Engineering (Core -13)	3	2	20	30	50	2
<b>Total</b>				<b>34</b>		<b>280</b>	<b>420</b>	<b>700</b>	<b>28</b>

*Smriti*

**Prof. Smriti C. Pawar**  
 Professor  
 Chairperson- BBS in Biotechnology  
 Department of Genetic & Biotechnology  
 Savitribai Phule Pune University, 411 007

**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS**  
**DEPARTMENT OF BIOTECHNOLOGY**  
**M. Sc - SECOND YEAR – II SEMESTER**  
**ACADEMIC YEAR 2022-23 OF 2022-24 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the subject	Hours/ week	Duration of Exam (Hrs.)	Marks			Credits
						Internal	External	Total	
1	I	MBT 21401 A/B	Environmental Biotechnology/ Food Biotechnology  (DSE-1)	4	3	40	60	100	4
2	II	MBT 22402 A/B	Nano-Biotechnology/ Food and Nutrition (DSE-2)	4	3	40	60	100	4
3	III	MBT 21403 A/B	InterDisciplinary* (ID)  Basic Biotechnology/ Advances In Biotechnology	4	3	40	60	100	4
<b>PRACTICALS</b>									
5	V	MBT 21405	Project	6	-	60	90	150	6
			<b>Total</b>	<b>21</b>		<b>180</b>	<b>270</b>	<b>450</b>	<b>18</b>

*Smrita*

**Prof. Smrita C. Pawar**  
 Professor  
 Chairperson- BoS In Biotechnology  
 Department of Genetics & Biotechnology  
 Oamnia University, Hyd-509 007

♦ Ability Enhancement Compulsory Course (AECC) Marks are not included in CGPA Score in the main Certificate. But there is a Compulsory pass in the examination.  
Discipline-Specific Elective (DSE)

**Evaluation for AECC**

Internal : 20Marks(Mid Exam:2hrs-10M, Activity or interactive based:5M,  
Attendance:5M)

External: 30Marks(2hrs)

**Note : No Prefinal Examination.**

*Prateek*  
Prof. Prateek G. Pawar  
Professor  
Department of Genetic & Biotechnology  
Central University, Jammu

**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS**  
**DEPARTMENT OF BIOTECHNOLOGY**  
**M. Sc - SECOND YEAR – I SEMESTER**  
**ACADEMIC YEAR 2023-24 OF 2022-24 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the subject	Hours/ week	Duration of Exam (Hrs.)	Marks			Credits
						Internal	External	Total	
1	*I	*MBT 21301	*Computer Applications (AECC-3)	2	1	*20	*30	*50	*2
2	II	MBT 21302	Plant & Agriculture Biotechnology (Core -10)	4	3	40	60	100	4
3	II	MBT 21303	Animal Biotechnology (Core-11)	4	3	40	60	100	4
4	II	MBT 21304	Medical Biotechnology (Core -12)	4	3	40	60	100	4
5	II	MBT 21305	Bioinformatics (Core -13)	4	3	40	60	100	4
6	II	MBT 21306	Bioprocess Engineering (Core -14)	4	3	40	60	100	4
<b>PRACTICALS</b>									
7	II	MBT 21307	Plant & Agriculture Biotechnology (Core -10)	3	2	20	30	50	2
8	II	MBT 21308	Animal Biotechnology (Core-14)	3	2	20	30	50	2
8	II	MBT 21309	Medical Biotechnology (Core -11)	3	2	20	30	50	2
9	II	MBT 21310	Bioinformatics (Core -12)	3	2	20	30	50	2
10	II	MBT 21311	Bioprocess Engineering (Core -13)	3	2	20	30	50	2
			<b>Total</b>	<b>34</b>		<b>280</b>	<b>420</b>	<b>700</b>	<b>28</b>

**YEAR-WISE AND SEMESTER-WISE DISTRIBUTION OF SUBJECTS**  
**DEPARTMENT OF BIOTECHNOLOGY**  
**M. Sc - SECOND YEAR – II SEMESTER**  
**ACADEMIC YEAR 2023-24 OF 2022-24 BATCH (CBCS)**

Sl. No.	Part	Subject Code	Title of the subject	Hours/ week	Duration of Exam (Hrs.)	Marks			Credits
						Internal	External	Total	
1	I	MBT 22401 A/B	Environmental Biotechnology/ Food Biotechnology (DSE-1)	4	3	40	60	100	4
2	II	MBT 22402 A/B	Nano-Biotechnology/ Food and Nutrition (DSE-2)	4	3	40	60	100	4
3	III	MBT 22403 A/B	InterDisciplinary* (ID)  Basic Biotechnology/ Advances In Biotechnology	4	3	40	60	100	4
<b>PRACTICALS</b>									
5	V	MBT 22404	Project	6	-	60	90	150	6
			<b>Total</b>	<b>18</b>		<b>180</b>	<b>270</b>	<b>450</b>	<b>18</b>

## ANNEXURE II

### LIST OF BOARD OF EXAMINERS

S.No.	Name of the expert	Designation	Institutional Address	Contact Details (mobile no. & email id)	Experience	Area of Specialisation
1	Dr.Smita C Pawar	Associate professor	Dept.of Genetics, Osmania university	9848952195 dr.smitapawar@osmania.ac.in,	18 yrs	Cell biology,Genetics, molecular biology,Animal &Medical Biotechnology, Bioinformatics
2.	Dr.H.Sureka Rani	Associate professor	Dept.of Genetics Osmania university	9866620067 surekharani@gmail.com	18yrs	Cell biology,Genetics, molecular biology,Plant biotechnology,r-DNA Tech,Medical Biotechnology
3.	Dr.Prashanth	Assistant professor	Dept.of Genetics Osmania university	98496674990 prashantsingam@gmail.com	17 yrs	Plant biotechnology, Food biotechnology ,Biostatistics &R.Methodology
4.	<b>Dr. Sandhya Annamaneni</b>	Assistant professor	Dept.of Genetics Osmania university	9849073203 sandhya[jan namaneni[at]gmail[dot]com	15yrs	Cell biology,Genetics, molecular biology,Animal &Medical Biotechnology, Bioinformatics
5	<b>Dr. A. Srinivas</b>	Asst. Professor	Dept.of Genetics Osmania university	9380729881 srinivasmessag[at]gmail[dot]com	14 yrs	Cell biology,Genetics, molecular biology,Plant biotechnology,r-DNA Tech.Food biotechnology
6	Dr.G. Sumanlatha	Asst. Professor	Dept.of Genetics Osmania university	sumanlathag[at]yahoo[dot]com	18 yrs	Cell biology,Genetics, molecular biology,Animal &Medical Biotechnology, Bioinformatics,Nanobiotechnology,
7						
8	Dr.KSN Jyothi	Assistant professor	Dept.of Genetics, OUCW,Koti Hyd.	9676083339	19yrs	Biochemistry,Adv. Techniques in Biotech,r-DNA Tech, Molecular Biology ,Biostatistics&R.Methodology. Bioprocess Tech.
9.	Dr.karuna Rupala	Associate Professor	Dept.Of Biochemisty	9441901161 karunarpala@osmania.ac.in	15yrs	Biochemistry,Adv. Techniques in Biotech,r-DNA Tech, Molecular Biology ,Biostatistics&R.Methodology. Bioprocess Tech.
10.	Dr Manjula Bhanoori	Associate Professor	Dept.Of Biochemisty Osmania university	9989661469 bhanoorim@yahoo.co.in	15yrs	Biochemistry,Adv. Techniques in Biotech,r-DNA Tech, Molecular Biology ,Biostatistics&R.Methodology. Bioprocess Tech.

11.	Dr. Bhima Bhukya	Professor	Dept of microbiology, OU,Hyd.	9494441624 bhima.ou@osmania.ac.in	15 yrs	Microbiology, Bioprocess technology, Biostatistics & R. Methodology
12.	Someshwar rao Sagurthi	Assistant professor	Dept. of Genetics Osmania university	7729822608 drsomeswar[at]osmania[dot]ac[dot]in.	15 yrs	Biochemistry, Adv. Techniques in Biotech, r-DNA Tech, Molecular Biology



ANNEXURE-III

INDENT FOR LIBRARY BOOKS

S.No.	Title of the book & Edition	Publishing House	Number of copies required	Estimated Cost(Rs)
1.	Introduction to Human Molecular Genetics	J.J.Pasternak, JohnbWiley Publishers	1	19,118/-
2.	Human Molecular Genetics	Tom Strachen,A.P.Read, Bios Scientific Publishers	1	5,500/-
3.	Human Genetics Molecular Evolution	Mc Conkey	1	1,899/-
4	Recombinant DNA Technology	AEH Amery	1	21,209/-
5.	Principles and Practice of Medical Genetics I, II, III volumes	AEH Amery, Edts	1	43,655/-
6	Medical Biotechnology	PratibhaNallari, V. Venugopal Rao , Oxford press	1	33,933/-
7	Medical Biotechnology 1 <sup>st</sup> Edition	JuditPongracz, Mary keen	1	2,530/-
8	Medical Biotechnology 2014	Bernard R. Glick, Terry L Delvovitch Cheryl L Pattern,	1	10,419/-



		ASM press		
9	Molecular Biotechnology- Principles and Applications of Recombinant DNA- 4 <sup>th</sup> Edition	Bernard R. Glick, jacj J. Pasternack, Cheryl L. Pattern	1	4,929/-
10.	Housewife L.M. Animal transgenic and Cloning	Wiley Publishers	1	9678/-
11.	Pasternack and Glick Molecular Biotechnology (e book)	-----	1	9,405/-
<b>TOTAL</b>				1,62,275



**ANNEXURE IV**

**BUDGET PROPOSAL AY: 2023-24**

<b>S.No.</b>	<b>Items</b>	<b>Estimated Amount(Rs)</b>
1.	Chemicals/Computers	3 Lakhs
2.	Library books	1,62,275
3.	Seminars(State/National/International)	1 lakh
4.	Workshop	Rs:50,000/-
5.	Field Visit	Rs:15000/-
6.	Guest Faculty	Rs:15000/-
7.	Stationary/Infrastructure (Lab equipment)	Rs:4 lakhs
8	Repair of Lab Equipment	Rs:2lakhs
9.	Miscellaneous(Any important day to be celebrated)	Rs:10,000/-
	Total	12,52,275

  
HOD Signature

Dean Signature

ANNEXURE – V

LIST OF FACULTY REQUIREMENT

S.No	Number of Faculty	Qualification	Workload
1.	01	M.Sc/P.hD. in Biotechnology	I semester : 18 Hours II semester : 16 Hours




HOD Signature

Dean Signature

ANNEXURE IV

BUDGET PROPOSAL AY: 2023-24

S.No.	Items	Estimated Amount(Rs)
1.	Chemicals/Computers	3 Lakhs
2.	Library books	1,62,275
3.	Seminars(State/National/International)	1 lakh
4.	Workshop	Rs:50,000/-
5.	Field Visit	Rs:15000/-
6.	Guest Faculty	Rs:15000/-
7.	Stationary/Infrastructure (Lab equipment)	Rs:4 lakhs
8.	Repair of Lab Equipment	Rs:2lakhs
9.	Miscellaneous(Any important day to be celebrated)	Rs:10,000/-
	Total	12,52,275

  
HQD Signature

  
Dean Signature

ANNEXURE - V

LIST OF FACULTY REQUIREMENT

S.No	Number of Faculty	Qualification	Workload
1.	01	M.Sc/P.hD. in Biotechnology	I semester : 18 Hours II semester : 16 Hours



HOD Signature



Dean Signature