



Bharatiya Vidya  
**Bhavan**

# Bhavan's Vivekananda College

of Science, Humanities & Commerce  
Autonomous College - Affiliated to Osmania University  
Accredited with 'A' grade by NAAC  
Sainikpuri, Secunderabad - 500094



**NAAC RE-ACCREDITATION - 2ND CYCLE**

**Criterion I: -  
Curricular  
Aspects**

1.1.3  
MOUs

*Submitted to*

**National Assessment and Accreditation Council**





తెలంగాణ తెలంగాణ TELANGANA

P 977782

Sl.No. 15029 Date: 10-07-2018, Rs.100/-  
Sold To: S.S.VINAYAK,  
S/O. G.EASHWARNATHI, R/O.HYD  
FOR WHOM : NSE ACADEMY LTD

  
**KONDA KAVITHA**  
Licenced Stamp Vendor  
SVL No: 16-04-06/2016  
H.No. 8-2-460/64, Road No.4  
Sukdev Nagar, Banjara Hills, Hyderabad  
Ph. 9248325639

### AGREEMENT

This Agreement ("Agreement") entered into at Hyderabad on this 11<sup>th</sup> day of July, 2018 ("Effective Date") between

NSE  
NAL Academy Ltd (hereinafter referred to as NAL), a company incorporated under the provisions of the Companies Act, 2013 and having its registered office at Exchange Plaza, Plot C/1, G Block, Bandra Kurla Complex, Bandra East, Mumbai 400051 (NAL includes its successors-in-interest and permitted assignees); the party of the First Part;

AND

Bhavan's Vivekananda College of Science, Humanities and Commerce, (hereinafter referred to as BVC) having its Registered Office Premises at Sainikpuri, Secunderabad -94, the party of the Second Part;

Collaborator and NAL collectively referred to as "Parties" and individually as a "Party".

### WHEREAS

- The Collaborator is an autonomous College affiliated to Osmania University, Hyderabad.
- NAL is a wholly owned subsidiary of National Stock Exchange of India Limited (NSE). It carries out a number of educational initiatives such as certification programs, investor seminars,

Page 1 of 14



Hyderabad District Registrar Office

జిల్లా రిజిస్ట్రార్ మాహారు  
హైద్రాబాదు జిల్లా (దక్షిణం)  
★ 5 MAR 2018 ★  
The Seal of the Dist. Registrar of Hyderabad (South)  
محمد رشاد حیدرآباد دکن

Handwritten text in Telugu script, likely a name or address.







తెలంగాణ తెలంగాణ TELANGANA

Sl.No. 18030 Date: 10-07-2018, Rs.100/-  
Sold To: D.S.VINAYAK,  
S/O. G.EASHWARNATH, R/O.HYD  
FOR WHOM : NSE ACADEMY LTD

P 977783



KONDA KAVITHA

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Sukdev Nagar, Banjara Hills, Hyderabad  
Ph. 9248325639

secondary and senior secondary school level courses, development of educational materials on financial markets etc. It promotes financial literacy and skill oriented financial markets courses and has also introduced an online examinations system for testing and certification called NAL's Certification in Financial Markets (hereinafter called as NCFM). NCFM is an online testing system, a revolutionary concept in administration of examinations and the only one of its kind today in the country. NAL has also launched various international certificate & PG programs to empower and develop the skill sets that many enhance their ability further and also to be competitive in the international financial sector.

- C. To strengthen and create more value for the students to become aware, knowledgeable and empowered in the financial domain and also to be able to develop the skills to enable them to become self-sustained entrepreneurs, NAL and Collaborator have agreed to collaborate to achieve the aforesaid objectives as envisioned by them and more specifically defined in the scope of this Agreement.
- D. Collaborator and NAL, are desirous of recording the broad terms of their understanding for the areas identified for co-operation and commit to co-operate to the fullest extent.

Page 2 of 14





జిల్లా రిజిస్ట్రార్ మోహరు  
హైద్రాబాదు జిల్లా (రక్షణం)  
★ F 5 MAR 2018 ★  
The Seal of the Dist. Registrar of Hyderabad (rth)  
شعبہ رجسٹر اریڈیو ہائیدرآباد



- E. The Parties are now entering into this Agreement for the purpose of recording such terms and conditions relating to the understanding.

**NOW THEREFORE, THIS AGREEMENT WITNESSES, RECORDS, BINDS AND GOVERNS THE CONTRACTUAL RELATIONSHIP BETWEEN THE PARTIES AS FOLLOWS:**

**1. DEFINITION**

In this Agreement, unless the context otherwise requires, the following words and expressions shall have the following meanings:-

- 1.1 **"Agreement"** shall mean this agreement together with the recitals, annexures, and Statement of Work as defined below.
- 1.2 **"Candidate"** shall mean any person who has registered himself/herself as a participant for the course.
- 1.3 **"Course"** shall mean the course(s) as mentioned in annexed Statement of Work other course(s) as may be jointly offered by BVC and NAL from time to time.
- 1.4 **"Statement of Work"** or SOW means a statement in the format provided in Annexure 1 separately prepared, approved and signed by both Parties in accordance with this Agreement specifying the scope of services to be performed, the time and manner of performance including milestones, schedules, the tasks to be accomplished, technical specifications, implementation and testing, warranty, fees and default details, the purposes to be achieved by the deliverables under the scope, and such other details as may be mutually agreed between the Parties.
- 1.5 **"Intellectual Property Rights"** means all perpetual and worldwide rights, title and interest of every kind, nature and media, whether now known or hereafter devised, including, without limiting the generality of the foregoing, all tangible and intangible property and rights of every kind and nature (including, without limitation, copyrights, patents, trademarks) in and to any ideas, concepts, creations, discoveries, inventions, improvements, know how, trade or business secrets; trademarks, service marks, designs, utility models, tools, devices, models, methods, procedures, processes, systems, principles, synthesis protocol, algorithms, works of authorship, flowcharts, drawings, books, papers, models, sketches, formulas, teaching techniques, proprietary techniques, research projects, and other confidential and proprietary information, databases, data, documents, instruction manuals, records, memoranda, notes and user guides, literary property right, personal right, moral right, musical, dramatic or other literary material of any kind, whether protectable or not under any other intellectual property law.

**2. SCOPE**

- 2.1 NAL and BVC has launched various Courses as mentioned in Clause 1.3 of this Agreement. It is agreed and understood between both the Parties that NAL shall be responsible for developing, improving and enriching the content of aforesaid various Course(s) and BVC shall act as an infrastructure provider for conducting/facilitating the enrolments of the Candidates for conducting the training and examinations for such Course(s).





2.2 NAL shall provide a technological platform, as it deems fit based on the scope of work, to the Candidate(s) for the purpose of registering, enrolling, and subsequently taking offline examinations of Course(s)

2.3 If at any time in the future, the Parties intend to extend the scope of this Agreement beyond that which has been contemplated herein ("**Additional Scope**"), the Parties may enter into separate SOW in pursuance of this Agreement providing for the agreed matrix for delivery and rendering of services between NAL and BVC as agreed upon under each of the respective SOW, which will cover the exact scope, the commercial terms, the roles and responsibilities of the respective Parties to the SOW, and the methodology for rendering such additional scope.

2.4 The successful Candidates shall be awarded with a joint certificate by BVC and NAL.

### 3. CONSIDERATION

The Parties herein agree that they shall pay their respective share of costs and expenses for preparing the Course Material and for conducting the Trainings and Examinations in the manner, method as may be mutually agreed upon by them in the respective SOW for different Institutions.

### 4. DURATION

4.1 This Agreement shall be valid for a period of 3 (three) years from the Effective Date.

4.2 The Agreement shall on the expiry of 3 (three) years from the date of execution stand terminated without any notice by either party; however the Parties shall be entitled to renew this Agreement before its expiry through a written instrument signed by both Parties, on mutually agreeable terms.

### 5. GENERAL REPRESENTATIONS AND WARRANTIES

5.1 Each Party represents and warrants to the other that:

- a. It has the full power and absolute authority to enter into, execute and deliver this Agreement and to perform its obligations and the transactions contemplated hereby and, it is duly incorporated and validly registered under the laws of the jurisdiction of its incorporation or organisation.
- b. The execution and delivery of this Agreement and the performance by it of the transactions contemplated hereby have been duly authorised by all necessary corporate or other internal action of such Party.
- c. The execution, delivery and performance of this Agreement does not constitute a breach of any agreement, arrangement or understanding, oral or written, entered into by it with any third party;
- d. The execution, delivery and performance by it of this Agreement does not violate any statute, law, regulation, rule, order, decree, injunction or other restriction of any governmental entity, court or tribunal to which it is subject;

5.2 Each Party warrants to the other that the representations and warranties in Clause 5 hereof are true and accurate in all respects and do not contain any untrue statement of any fact or omit to state any necessary or material fact.





6. **RESPONSIBILITIES, OBLIGATIONS AND UNDERTAKINGS OF NAL**

- 6.1 NAL shall take or cause to be taken all necessary steps and actions within its control in a timely manner to enable Collaborator to perform all the Services in accordance with this Agreement.
- 6.2 Subject to the Dispute Resolution clause of this Agreement, each Party shall use its best endeavours to resolve any problems that may or are likely to impede or delay the timely performance by provider of the services as described in, and in accordance with this Agreement.
- 6.3 Notwithstanding anything to the contrary contained in this Agreement, each Party hereby acknowledges and confirms that the performance by the other Party of its obligations under and in accordance with this Agreement is interlinked with the due performance of its own duties, obligations and responsibilities under and in accordance with this Agreement.

7. **RESPONSIBILITIES, OBLIGATIONS AND UNDERTAKINGS OF COLLABORATOR:**

- 7.1 Collaborator hereby acknowledges that National Stock Exchange of India Ltd (NAL) has in the past and will continue in the future, to put in various efforts in the development of the capital markets in India and in spreading awareness and knowledge of investing in capital market, for which it has incurred significant costs over a period of time. In an effort to further enhance the visibility of investing in capital markets in India and in an attempt to make the younger generation of Indians aware of the advantages and merits in investing in the Indian capital markets, NAL has formed its wholly owned subsidiary NAL to carry out this initiative and NAL has decided to enter into the transaction contemplated under this Agreement. In view of this and the mutual benefits which the Parties will derive by being associated with each other in this endeavour, Collaborator on its own agrees that this engagement with NAL shall be on an exclusive basis from the date of this Agreement and that Collaborator will not associate nor undertake any work of any nature that is in direct competition with or detrimental to the Programme during the validity of this Agreement, without NAL prior written consent.

8. **CONFIDENTIALITY**

- 8.1 The Parties herein undertake to keep confidential and not to disclose any information (written, electronic or oral) directly or indirectly concerning the (i) transactions contemplated herein, (ii) any data relating to the Seminars which is not publicly released, and (iii) the existence of this Agreement ("**Confidential Information**"), all of which information might have been obtained or received by either Party before or during the term of this Agreement save that which is:

- a. Already in its possession other than as a result of a breach of this clause; or
- b. In the public domain other than as a result of a breach of this clause; or
- c. Was subsequently disclosed to it lawfully by a third party who lawfully obtained the same and who was not bound by any obligation of confidence in respect thereof to the disclosing party.

- 8.2 The Parties herein shall not disclose any Confidential Information to any third party for the term of this Agreement. All Confidential Information of the Parties shall remain the sole





and exclusive property of such respective Party which disclosed it. No license under any trademark, patent rights or copyright or application for same, is either granted or implied by the disclosure of Confidential Information by either Party under this Agreement.

## 9. INTELLECTUAL PROPERTY

- 9.1 NAL is the sole and absolute owner of all right, title and interest over the Course Material and the online/offline examination system. Except as is stated herein, NAL does not grant the Collaborator any rights or intellectual property rights over the Course Material and/or the online/offline examination system. Nothing contained herein is intended to assign, license or otherwise transfer any such rights of NAL to the Collaborator.
- 9.2 Neither Party during the course of performance of this Agreement desires or intends to transfer any intellectual property rights whatsoever with respect to any information that is proprietary.

## 10. INDEMNITY

The Collaborator shall indemnify NAL and hold NAL harmless from and against any direct and actual losses, reasonable costs including without limitation the reasonable fees, costs of investigation, expenses, claims, damages, penalties and liabilities arising out of any claims, actions or proceedings (collectively, "Losses") which may be incurred, made against or suffered by NAL, its directors, officers, agents or employees arising directly out of or in connection with or as a consequence of (i) the non-performance of the obligations of the Collaborator as detailed herein, (ii) any material breach of any representations, warranties, covenants or undertakings, express or implied, of the Collaborator in this Agreement. The total liability of a Collaborator under this Agreement shall not exceed to an amount paid under this Agreement except in the case of liability for gross negligence, death or personal injury and for fraud, fraudulent misrepresentation or deceit.

## 11. TERM AND TERMINATION

11.1 This Agreement has come into effect on and from the Effective Date. This Agreement will continue to be in force until terminated as per the provisions of this Clause, subject to Clause 4 hereinabove (Duration).

- a. Notwithstanding anything to the contrary herein contained or implied, either Party ("**Non-Defaulting Party**") shall be entitled to terminate this Agreement by giving to the other Party ("**Defaulting Party**") not less than 15 (fifteen) days prior written notice in the event the Defaulting Party has breached any of its material obligations or responsibilities under this Agreement and such breach is not rectified within a period of 15 (fifteen) days from the date of receipt of written notice from the Non Defaulting Party; or
- b. Notwithstanding anything to the contrary herein contained or implied, either party shall, in its sole discretion, be entitled to terminate this Agreement without assigning reason by giving not less than 30 (thirty) days prior written notice.





11.2 In the event this Agreement is terminated, all individual Work Orders entered into by NAL with the Institutions of the Collaborator under this Agreement shall automatically stand terminated, unless otherwise agreed upon in writing. However, in the event any Work Order with an individual Institution of the Collaborator is terminated, this Agreement shall continue to subsist, unless separately terminated by the Parties in accordance with the terms of this Agreement.

## 12. CONSEQUENCES OF TERMINATION

- 12.1 NAL and BVC shall, subject to the provisions of this Agreement, pay to the other Party on the date of termination any amount then payable by such Party under and in accordance with this Agreement.
- 12.2 The Parties shall immediately return all Confidential Information of the other Party, which is in its possession. At the request of the discloser of the Confidential Information, the receiver of the Confidential Information shall destroy all Confidential Information in its possession and to certify the same in writing.
- 12.3 The grant of the IP Material shall cease and the both Parties shall immediately return to the other Party, its respective IP Material.
- 12.4 The provisions of this Clause shall survive the termination of this Agreement and shall be without prejudice to the right of NAL to claim damages as a result of any breach by Service Provider of its duties, obligations or responsibilities under this Agreement, whether prior to or arising as a consequence of the earlier termination of this Agreement.

## 13. DISPUTE RESOLUTION

- 13.1 In the case of any dispute or claim arising out of or in connection with or relating to this Agreement its construction or interpretation or the rights, duties and obligations of either of the Parties hereto, or the termination or validity hereof, the Parties shall attempt to first resolve such dispute or claim through good faith discussions between their CEO's/Designated Officers.
- 13.2 If the dispute or claim is not resolved through such discussions as contemplated in clause 13.1 above within 30 (thirty) days after one Party has served a written notice on the other Party requesting the commencement of discussions, then such dispute or claim shall be referred at the request in writing of either Party to binding arbitration by a panel of 3 (three) arbitrators ("the Arbitration Board") in accordance with the Arbitration and Conciliation Act, 1996 and any amendments or modifications made thereto. All arbitration proceedings shall be conducted in the English language and the seat and venue of arbitration shall be in Mumbai. The Parties shall be entitled to seek interim relief from the courts of India for which the parties submit to the exclusive jurisdiction of the courts of law in Mumbai. The Arbitration Board shall decide any such dispute or claim strictly in accordance with the governing law specified in Clause 13 below. Judgment upon any arbitral award rendered hereunder may be entered in any court having jurisdiction, or an application may be made to such court for judicial acceptance of the award and an order of enforcement, as the case may be.
- 13.3 Each Party shall co-operate in good faith to expedite (to the maximum extent practicable) the conduct of any arbitral proceedings commenced under this Agreement.
- 13.4 The costs and expenses of the arbitration, including, without limitation, the fees of the Arbitration Board, shall be borne equally by the Parties to the dispute or claim and each





Party shall bear and pay its own costs, expenses, fees, disbursements and other charges of its counsel in connection with the arbitration proceedings, except as may be otherwise determined by the Arbitration Board. The Arbitration Board shall have the power to award interest on any sum awarded pursuant to the arbitration proceedings and such sum would carry interest, if awarded, until the actual payment of such amounts.

13.5 Any award made by the Arbitration Board shall be final and binding on both the Parties.

#### 14. GOVERNING LAW

This Agreement shall be governed by and construed in accordance with the laws of India as applicable from time to time. Subject to the Arbitration clause herein, all legal disputes shall be subjected to the courts at Mumbai only.

#### 15. FORCE MAJEURE

15.1 Any non-performance or delay in performance by either Party of any of its duties, obligations or responsibilities under this Agreement, shall be excused if, and to the extent that such non-performance or delay in performance is caused by Force Majeure.

15.2 Force Majeure shall mean the following events and circumstances to the extent that they, or their consequences, have an effect described herein:

- a. acts of God, including without limitation fire, storms, floods, earthquake or lightning;
- b. war, hostilities, terrorist acts, riots, civil commotion or disturbances, change in governmental laws, orders or regulations adversely affecting or preventing due performance by either Party of its duties, obligations or responsibilities under this Agreement, embargoes, actions by a government, central or state in India or overseas, or an agency thereof, sabotage or explosions;
- c. strikes, lockouts or other concerted industrial action; or
- d. Any such other acts, occurrences, events or circumstances beyond the reasonable control of the Party affected.

15.3 If such Force Majeure as aforesaid continues for an uninterrupted period exceeding 60 (sixty) Business Days, the Parties shall meet forthwith to discuss the consequences of the Force Majeure and the course of action to be taken to mitigate the effects thereof or to be adopted in the circumstances.

#### 16. MISCELLANEOUS

- a) Neither Party shall be liable to the other for special, indirect or consequential losses or damages incurred or suffered by the other Party arising as a result of or arising out of this Agreement.
- b) The Parties shall not assign any of the rights under this Agreement, or delegate the performance of any of their obligations hereunder, without the prior written consent of the other Party.
- c) No amendment, change or modification of this Agreement shall be valid unless it is in writing and signed by both the Parties.



- d) If any provision of this Agreement shall be found by any court or government or administrative body of competent jurisdiction to be invalid or unenforceable, the invalidity or un-enforceability of such provision shall not affect the other provisions of this Agreement and all provisions not affected by such invalidity or un-enforceability shall remain in full force and effect.
- e) Either Party may (i) extend the time for performance of any of the duties, obligations or responsibilities of the other Party (ii) waive any duties, obligations or responsibilities of the other Party contained herein. Any such extension or waiver shall be valid only if set forth in an instrument in writing signed by the Party to be bound thereby. Any waiver of any term or condition shall not be construed as a waiver of any subsequent breach or a subsequent waiver of the same term or condition, or a waiver of any other term or condition, of this Agreement. The failure of a Party to assert any of its rights hereunder shall not constitute a waiver of any such rights.
- f) This Agreement will be executed simultaneously in two counterparts, each of which will be deemed to be an original but all of which together will constitute one and the same instrument.
- g) This Agreement constitutes the entire understanding and agreement of the Parties, and save the Service Agreements that are to be entered into in accordance with the terms of this Agreement, any and all prior agreements, understandings, and representations are hereby terminated and cancelled in their entirety and are of no further force and effect.
- h) Notice: All notices, approvals, instructions, demand and other communication given or made under this Agreement shall be in writing and may be given by electronic mail, facsimile, by personal delivery or by sending the same by pre-paid registered mail addressed to the relevant Party at its postal address, email address or fax number set out below (or such other address or fax number as the addressee has by 5 (five) Business Days' prior written notice specified to the other Parties).

**To NAL**

Attn.: Mr. G S Vinayak  
Address: National Stock exchange of India Ltd  
Suite 24 & 25, Vatika Business Centre,  
3rd Floor, NSL Icon, 8-2-684/2/A, Plot No. 1-4,  
Rd No 12, Banjara Hills, Hyderabad – 500034  
Contact No.: 040- 44311393/396  
E Mail Id: ncfm\_hyderabad@nse.co.in

**To Collaborator**

Attn.: Dr K Sreelatha Reddy  
Address: Head, Department of Commerce  
Bhavan's Vivekananda College of Science, Humanities and Commerce  
Sainikpuri, Secunderabad - 500094  
Contact No.: 99480 78133  
E Mail Id: srilathareddybvc@gmail.com

Any notice, approval, instruction, demand or other communication so addressed to the relevant Party shall be deemed to have been delivered (1) if given or made by registered mail, 10 (ten) Business Days after posting; (2) if given by personal delivery at the time of











delivery; (3) if given or made by facsimile, upon receipt of a transmission report confirming dispatch; and (4) if given by electronic mail, upon receipt of a confirmation of delivery.

Any notice required to be made or given hereunder may be signed by an officer, manager or authorized representative of the Party giving or making the same. No recipient shall be required or obliged to inquire as to the authority of the officer, manager or authorized representative so signing.

- i) Public Announcement. The Parties hereto shall consult with each other before issuing and shall provide the other with a reasonable opportunity to review and comment upon, any press release or other public statements with respect to the transaction contemplated by this Agreement or any part thereof, and shall not issue any such press release or make any such public statements prior to such consultation except as may be required by applicable law or judicial process or for correspondence with Regulatory authorities.

IN WITNESS where of the Parties hereto have set their respective signatures on the date mentioned above under their seal of office.

For and on behalf of <b>NSE Academy Limited</b>	For and on behalf of <b>Bhavan's Vivekananda College of Science, Humanities and Commerce</b>
 	 
Name: Mr Achal Jaiswal Title: Vice President	Name: Prof Y Ashok Title: Principal
In the Presence of  Name: <b>G. S. VINAYAK</b>	In the Presence of:  Name: <b>Dr. D. Sanjeeva Rao</b>

## Annexure I

### Statement of Work



#### Statement of Work

This Statement of Service ("SOW") dated 11/7/18 is entered and issued in terms of the Principal Agreement dated 11/7/18 ("Agreement") entered and executed between NSE Academy Ltd (NAL) and Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad (BVC).

This SOW forms a part and parcel of the Agreement. This SOW shall govern the provisioning of the Additional Scope and/or the Specified Transaction including without limitation the scope of the project, deliverables if any, delivery period, payment of fees. Unless otherwise stated herein, in the event of a conflict between the terms of the Agreement and any SOW, the terms of the SOW shall prevail. Capitalized terms not defined herein shall have the meaning ascribed to it in the Agreement.

#### Background

NAL and BVC agreed to collaborate to offer the below two Courses to strengthen and create more value for the students and empower them in the financial domain.

- (i) Mutual Funds Proficient
- (ii) Securities Market Proficient

#### SOW Scope

The scope of SOS will be applicable to all the candidates opting and registering for undergoing training for anyone or both of the below mentioned modules

- (i) Mutual Fund Proficient
  - > It is a classroom program that comprises of a series of lectures, discussions, assignments and Offline Examination.
  - > To be offered to Students of B Com V Semester Students
  - > Duration of the course will be 30 hours

#### Course Syllabus

- **Mutual Funds:** Concept and structure of mutual funds in India; Role of custodian; Registrar and transfer agent; AMC; New fund offer's & procedure for investing in NFO; Investors rights and obligations.
- **Mutual Fund Products and Features:** Concept of open ended and closed ended funds: Types of funds- equity, index, diversified large cap funds, sec or fund and





equity schemes; Concept of entry and exit load; Expense ratio; Portfolio turnover; AUM; Analysis of each level of portfolio.

- **ETFs:** Introduction to exchange traded funds; Market making by authorized participants; creation units; Portfolio deposit and cash component.
- **Liquid Funds & Debt Funds:** Salient features of liquid funds and Debt Funds; Floating rate scheme and portfolio churning in liquid funds.
- **Taxation:** taxation of capital gains; Indexation benefit and FMP.
- **Regulations:** Role and objectives of AMFI; Different types of plans; Systematic Investment Plan (SIP); Systematic Transfer Plan (STP) and Systematic Withdrawal Plan (SWP); Dividend payout.

#### Examination Pattern

Offline examination of 2 hours comprising of 100 questions of 1 mark each with equal weightage for all topics. Question paper to be designed by NAL and BVC to conduct and administer the examination. All the examination papers to be evaluated by NAL and a Joint certificate to be issued to all successful candidates. Pass mark for the Mutual Funds Proficient Course will be 50%.

#### (ii) Securities Market Proficient

- It is a classroom program that comprises of a series of lectures, discussions, assignments and Offline Examination.
- To be offered to Students of B Com VI Semester Students
- Duration of the course will be 30 hours

#### Course Syllabus

- **Securities market and financial system;** Products, participants and functions; Primary market; Secondary market; Derivatives market; Regulators; Exchanges; Depositories; Clearing corporations; Regulatory framework; Reforms.
- **Primary Market:** Book building; Credit rating; Merchant banking; On-line IPOs; Demat issues; Private placement; Virtual debit portals; ADRs/GDRs; Other regulations; Public issues; Euro issues; Debt issues; Collective investment vehicles viz., MFs, VCFs, CISs.
- **Secondary Market:** Membership; Listing; Trading and settlement mechanism; Technology; Trading rules- Insider trading; Unfair trade practices; Takeovers; Buy back; Turnover;; Transaction costs; Risk management; Indices.
- **Government Securities Market:** Indian Debt market; Primary market; Secondary market-NDS; NDS-OM; CCIL; Wholesale debt market (WDM) segment of NAL.



- **Derivatives Market:** Products, Participants and functions; Trading mechanism; Membership; Contract specification; Clearing & Settlement; Open interest; Implied interest rate; Implied volatility; Risk management; Debt derivatives.
- **Mathematics and Statistics:** Measures of central tendency; Return and Risk

#### Examination Pattern

Offline examination of 2 hours comprising of 100 questions of 1 mark each and with equal weightage for all topics. Question paper to be designed by NAL and BVC to conduct and administer the examination. All the examination papers to be evaluated by NAL and a Joint certificate to be issued to all successful candidates. Pass mark for the Mutual Funds Proficient Course will be 50%.

#### Deliverables

##### NAL Deliverables:

- NAL will provide study material in pdf (soft copy) for the agreed Course(s) to the institution, to be distributed to the students.
- NAL jointly with the college to issue a course completion certificate to all successful students after each semester.
- NAL to provide trainer for delivery of the content for both the semesters.

##### BVC Deliverables

- College to enrol the students for the aforesaid course for both the semesters.
- College to provide adequate infrastructure for delivering training and for conducting examination.
- College to share the details of students enrolled for the course batch wise before commencement of the course.
- College to remit NAL fees within 7 days after completion of registration process.
- College to facilitate 2 hours of classroom training per week spread across 15 weeks per semester per batch simultaneously for all 3 batches.





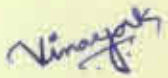

#### Fees and Payment

Fees for the aforesaid course would be Rs 2,500/- (incl GST) per student per semester.

BVC to transfer the aforesaid fees to NAL within 7 days of closing of admissions by way of fund transfer via netbanking or by demand draft drawn in favour of "NSE Academy Limited" payable at Hyderabad.





For and on behalf of <b>NSE Academy Limited</b>	For and on behalf of <b>Bhavan's Vivekananda College of Science, Humanities and Commerce</b>
 	 
Name: Mr Achal Jaiswal Title: Vice President  Date: 11 - July - 2018	Name: Prof Y Ashok Title: Principal  Date: 11 - July - 2018
In the Presence of:  Name: <u>G S VINAYAK</u>	In the Presence of:  Name: <u>Dr. D. Sarjeeva Rao</u>

**BHAVAN'S VIVEKANANDA COLLEGE**  
**OF SCIENCE, HUMANITIES & COMMERCE, SAINIKPURI, SECUNDERABAD-50094**  
Autonomous College  
DEPARTMENT OF COMMERCE  
**STRUCTURE OF B.COM (REGULARS) COURSE w.e.f. 2016-2017**

**MUTUAL FUNDS PROFICIENT**

Paper: BOC557  
PPW: 2

Max.Marks:35 +15  
Credits: 2

**Objective:** -To introduce the students about mutual funds, theoretical concepts, products and features, regulations with respect to different types of funds.

**UNIT I: MUTUAL FUNDS: PRODUCTS AND FEATURES (15 classes)**

**Mutual Funds:** Concept and structure of mutual funds in India; Role of custodian; Registrar and transfer agent; AMC; New fund offer's & procedure for investing in NFO: Investors rights and obligations.

**Mutual Fund Products and Features:** Concept of open ended and closed ended funds: Types of funds- equity, index, diversified large cap funds, sec or fund and equity schemes; Concept of entry and exit load; Expense ratio; Portfolio turnover; AUM; Analysis of each level of portfolio.

**Gold ETFs:** Introduction to exchange traded funds; Market making by authorized participants; creation units; Portfolio deposit and cash component.

**UNIT II: DEBT FUNDS, LIQUID FUNDS AND REGULATIONS (15 classes)**

**Debt Funds:** Salient features of debt and Concept of interest rate and credit risk; Pricing of debt instrument.


**Liquid Funds:** Salient features of liquid funds; Floating rate scheme and portfolio churning in liquid funds.

**Taxation:** taxation of capital gains; Indexation benefit and FMP.

**Regulations:** Role and objectives of AMFI; Different types of plans; Systematic Investment Plan (SIP); Systematic Transfer Plan (STP) and Systematic Withdrawal Plan (SWP); Dividend payout.

**Note:** Reference material will be provided by NSE Academy.

**Outcome:** 1. The students learn about the financial system and in detail about primary market and secondary market. 2. The students get a practical knowledge and its application about risk and return in the government securities market and derivatives market. 3. An overview about the securities market in India enhances the employability of the students both in the government securities market and derivatives market.

  
Prof S.V. Satyanarayana  
Chairman, BOS  
Department of Commerce OU,  
Hyderabad.





**BHAVAN'S VIVEKANANDA COLLEGE**  
OF SCIENCE, HUMANITIES & COMMERCE, SAINIKPURI, SECUNDERABAD-50094  
Autonomous College  
DEPARTMENT OF COMMERCE  
**STRUCTURE OF B.COM (REGULARS) COURSE w.e.f. 2016-2017**

**SECURITIES MARKET PROFICIENT**

Paper: BOC657  
PPW: 2

Max.Marks:35 +15  
Credits: 2

**Objective:** -To introduce the students about securities market, theoretical concepts and practical application for government securities market and derivatives market.

**UNIT I: SECURITIES MARKET IN INDIA - AN OVERVIEW (15 classes)**

**Securities market and financial system;** Products, participants and functions; Primary market; Secondary market; Derivatives market; Regulators; Exchanges; Depositories; Clearing corporations; Regulatory framework; Reforms.

**Primary Market:** Book building; Credit rating; Merchant banking; On-line IPOs; Demat issues; Private placement; Virtual debit portals; ADRs/GDRs; Other regulations; Public issues; Euro issues; Debt issues; Collective investment vehicles viz., MFs, VCFs, CISs.

**Secondary Market:** Membership; Listing; Trading and settlement mechanism; Technology; Trading rules- Insider trading; Unfair trade practices; Takeovers; Buy back; Turnover; Market capitalization; Prices; Liquidity; Transaction costs; Risk management; Indices.


**UNIT II: GOVERNMENT SECURITIES AND DERIVATIVES MARKET (15 classes)**

**Government Securities Market:** Indian Debt market; Primary market; Secondary market-NDS; NDS-OM; CCIL; Wholesale debt market (WDM) segment of NSE.

**Derivatives Market:** Products, Participants and functions; Trading mechanism; Membership; Contract specification; Clearing & Settlement; Open interest; Implied interest rate; Implied volatility; Risk management; Debt derivatives.

**Mathematics and Statistics:** Measures of central tendency; Return and Risk

**Outcome:** 1. The students get an in depth knowledge about mutual funds, its products and features, Gold ETFs and its authorized participants. 2. The students can distinguish between debt funds and liquid funds, their taxation and regulation. 3. The students get an understanding about mutual funds, debt funds and liquid funds so as to enhance their employability in the capital markets.

  
Prof S.V. Satyanarayana  
Chairman, BOS  
Department of Commerce OU,  
Hyderabad.



తెలంగాణ తేలంగానా TELANGANA

22 MAR 2017

L 203947

Sl.No 224 Date 22/03/2017 ₹ 100/-

Sold to M. ASHOK S/O. Y. SANGAIAH

For whom Self R/o. Ashok

B. Upender Reddy

B. UPENDER REDDY  
Licensed Stamp Vendor  
L.No. 15-12-017/2011  
R.L. No. 15-12-014/2017  
Shop in H.No. 28-43, Vinayak Nagar,  
Malkajgiri, Medchal Dist-500 056,  
Cell: 9640608978

### MEMORANDUM OF UNDERSTANDING

MEMORANDUM OF UNDERSTANDING between BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE an academic institution offering UG & PG courses, having its contact address at Defence Colony, Sainikpuri, Secunderabad – 500094, Telangana State represented by its Principal Prof. Y. Ashok, here in after referred to as Bhavan's Vivekananda College of Science, Humanities and Commerce which expression shall include its successors

And

National Small Industries Corporation – Technical Service Centre A Government of India Enterprise under Ministry of MSME office at Electronic Complex, Kamala Nagar, Kushaiguda, Hyderabad -62 referred to as NSIC – TSC – Hyderabad.





National Small Industries Corporation  
राष्ट्रीय लघु उद्योग निगम लिमिटेड

### **NSIC – Technical Services Centre, Hyderabad**

The Prime Objective of MOU is to make the students more employable under campus to Company (C2C) Programme by way of providing Training and Job oriented skill development courses to be conducted by NSIC –TSC at its premises in Hyderabad.

1. **One Day Training:** NSIC – TSC, Hyderabad to conduct Training, a non residential program with minimum batch of 60 students of B.Com (Hons)/ Computers/ General for first year, accordingly.
2. **Tally Package**                      1 Day Programme
3. Fee payable in DD/ cheque drawn in favor of NSIC – TSC, Hyderabad. The list of candidates to undergo training at your centre will be sent with a letter from the college along with the DD/ cheque addressed to Dy.General Manager and Centre Head, NTSC – Hyderabad, according to the discipline and batch size.
4. Successful candidates will be offered a certificate by NSIC.
5. The candidates will forfeit their certificate, failing to maintain punctuality and attendance. The candidates shall submit a copy of report at the end of the training programme.
6. Fee chargeable will be finalised with mutual consultation by both the parties, one month before the commencement of the course.
7. NSIC will provide course material and Certificates to the students of Bhavan's.
8. **NSIC –TSC, Hyderabad to assist**
  - 8.1 The Department in providing placement opportunities to students by allowing them to job mela conducted at NSIC, Hyderabad.

8.2 The department in designing an effective syllabus which supports industrial needs and helps students in meeting the employment requirements.

8.3 The Department in conducting seminars and workshops.

8.4 In designing and establishing new labs or renovating and upgrading the old labs by providing necessary guidance.

9. The validity of this MOU is till March, 2018, and can be withdrawn by the either parties with a notice of one month.

10. This memorandum of Understanding comes into existence on the 23 day March month of 2017.

For

Bhavan's Vivekananda College

NSIC Technical Services Centre

  
Signature

  
Signature

Principal

(Dr. Y. ASHOK)  
PRINCIPAL

General Manager


U. VENKATACHALAPATHI  
General Manager  
NSIC-TSC  
HYDERABAD

Bhavan's Vivekananda College of Science,  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)

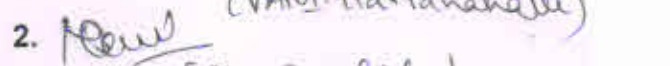
Witness

Witness

1. 

1.  (A.H. Ling)  
(VANI Harpanahalli)

2. 

2.  (M.V. Somalatha)  
Chief Manager, NSIC TSC-Ind.

Date: 23/03/2017

Date: 23/03/2017







**एन एस आई सी**  
**NSIC**  
ISO 9001 : 2015

**Memorandum of Understanding**

**Between**

**"Bhavan's Vivekananda College  
of Science, Humanities and Commerce"  
Sainikpuri, Secunderabad.**

**AND**

**National Small Industries Corporation –  
Technical Services Centre (NSIC – TSC),  
Hyderabad**

**December 20, 2018**



## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is made on **December 20<sup>th</sup>, 2018** at Hyderabad.by and between:

**NSIC-Technical Services Centre (herein after referred as "NSIC-TSC")**, one of the technical centres of National Small Industries Corporation, ECIL Post, Kushaiguda, Hyderabad (A Government of India Enterprise under the Ministry of MSME), having its registered office at NSIC, Bhawan, Okhla Industrial Estate, New Delhi-110020, which expression, unless repugnant to the context, shall mean and include its successors, assigns and authorized representative of First Part.

AND

"Bhavan' s Vivekananda College of Science , Humanities and Commerce, Autonomous College - Affiliated to Osmania University having its campus at Sainikpuri ,Secendrabad-500094 acting through its authorized signatory, **Prof.Y.Ashok, Principal, Bhavan's Vivekananda College(herein after referred to as "BVC")** which expression, unless its repugnant to the context shall mean and include its successors and permitted assigns of the Second Part.

Both shall hereinafter be collectively referred to as the "Parties" and individually be referred to as the "Party".





**ARTICLE 1**  
**PURPOSE**

- a) NSIC-TSC is one of the Technical Centres of NSIC, engaged in imparting industry centric, demand oriented training for skill / entrepreneurship development to address the demand of skilled manpower in the industry. Also NSIC-TSC is offering services to the industries through their NABL accredited laboratories.
- b) BVC, is an academic Institution providing steady source of talent to the nation and abroad by offering technical education in different areas.
- c) NSIC-TSC & BVC are desirous to work together for imparting skill through training program(s) to the students engaged with BVC in the campus of NSIC-TSC with an aim to address the skill requirements by the industry.

**ARTICLE 2**  
**AREAS OF COLLABORATION**

- a) NSIC-TSC and BVC shall finalize jointly the details of training program(s) including their curriculum and training delivery plan for each of the training program(s) with an objective to impart training to the students engaged with BVC.
- b) The training to the students of BVC shall be imparted in the campus of NSIC-TSC and students of BVC directly shall pay the training fees including applicable taxes to NSIC-TSC.



**ARTICLE 3**  
**ROLES AND RESPONSIBILITIES OF BVC**

1. BVC shall place their request to NSIC-TSC to provide the details of training programs with topics covered in each training program for the training programs those are running in the campus of NSIC-TSC.
2. BVC shall examine the details of training programs provided by NSIC-TSC and share the said details of training programs along with the topics covered in individual training program, training fees etc. with their students.
3. In case the students of BVC desires to opt for the training on customized training course covering different topics other than the topics covered under regular training course, the BVC shall inform to NSIC-TSC with the details of requirement of students with a request for the submission of details along with confirmation.
4. After the receipt of consent from NSIC-TSC for imparting training on regular/ customized training program, BVC shall facilitate their students through counselling to select the training course from the details of training courses provided by NSIC-TSC.
5. BVC shall prepare the list of students' vis-à-vis their consent for training course, topics to be covered in individual training program, schedule of training program & training fees including applicable taxes to be paid by students of BVC and submit to NSIC-TSC for their onward planning.
6. BVC further advise their students to report in the campus of NSIC-TSC on the day of training along with fees of training, as per the schedule of training informed by NSIC-TSC.




7. BVC shall advise the students to deposit the fees along with tax at NSIC-TSC prior to the commencement of training course.
8. BVC shall clearly inform their students about the training programs conducted by NSIC-TSC is non-residential.

**ARTICLE 4**  
**ROLES AND RESPONSIBILITIES OF NSIC-TSC**

1. NSIC-TSC shall provide the list of ongoing training programs in the campus of NSIC-TSC with the topics to be covered in each training program, duration of training course, fees with applicable taxes, schedule etc to BVC.
2. In case BVC desires tailor made training programs to be conducted by NSIC-TSC, the details of topics to be covered in customized training shall be forwarded to NSIC-TSC for their confirmation.
3. NSIC-TSC shall confirm with their consent to carry out the selected regular/ customized training programs BVC after accessing the inputs availability at NSIC-TSC.
4. After the receipt of details from BVC like number of students with their consent on the specific training course(s), topics to be covered, duration of training course and fees to be paid by student to NSIC-TSC campus, NSIC-TSC shall submit their confirmation to execute the training to the students selected/referred\_by BVC.
5. NSIC-TSC shall ensure the resources to be in place prior to the schedule of training for imparting training on the specific training courses those selected by students by BVC.



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6. NSIC-TSC shall collect fees with requisite taxes in advance or latest by first day of commencement of training program along with applicable taxes from students of BVC and shall not share any part of training fee with BVC. The fees collected once shall not be refunded/ adjusted for any reason.
7. NSIC-TSC shall share the training plan (day to day lesson plan) to the students of BVC on the first day of their joining the training course.
8. NSIC-TSC shall carryout the assessment of students and issue certificate with joint signature of BVC and NSIC-TSC to the successful trainees.
9. NSIC-TSC shall allow BVC officials to visit the area where the training courses for the students of BVC will be conducted.
10. NSIC-TSC shall place the record of successful trainees with the placement cell to facilitate the trainees for job placement.
11. NSIC-TSC shall only be responsible to monitor the trainees during their presence in its premises. In case of any indiscipline/continued absenteeism, the same shall be reported to BVC for their onward action.

#### **ARTICLE 5** **AMENDMENT**

1. Either Party may request in writing, an amendment of all or any part of this Memorandum of Understanding. Any amendment to this Memorandum of Understanding agreed by the Parties will be in writing and signed by the Parties and will form part of this Memorandum of Understanding.
2. Such amendment will come into operation on such date as



*[Handwritten signature in green ink]*

*[Handwritten signature in green ink]*



may be mutually determined by the Parties.

## **ARTICLE 6**

### **ARRANGEMENTS WITH OTHER PARTIES**

1. This Memorandum of Understanding does not preclude either Party from entering into any similar arrangement with any other party.
2. Nothing contained herein is to be construed so as to constitute a joint venture partnership or formal business organization of any kind between the parties or so as to constitute either party as the agent of the other.
3. Notwithstanding anything contained in the Memorandum of Understanding, where the implementation of this Memorandum of Understanding affects any party's rights and interests with respect to its national and public interest or public order, protection of intellectual property rights and confidentiality and secrecy of documents, information and data, that party may undertake appropriate steps or consultation to insure that its rights and interests are protected and safeguarded.

## **ARTICLE 7**

### **CONFIDENTIALITY**

1. Each Party undertakes to observe the confidentiality and secrecy of documents, information and other data received from or supplied to the other Party during the period of the implementation of this Memorandum of Understanding or any other agreements made pursuant to this Memorandum of Understanding.



2. Both Parties have decided that the provisions of this Article will continue to be binding among the Parties, Participants notwithstanding the termination of this Memorandum of Understanding.

### **ARTICLE 8** **NOTICE**

1. During the tenure of MOU, BVC and NSIC-TSC hereto may terminate the MOU, either for breach of the terms and conditions of the MOU or otherwise by giving 30 days advance written notice to the other party provided that terminations shall not affect the completion of ongoing training course.
2. Any notice, approval, consent, request or other communication required or permitted to be given or made under this Memorandum of Understanding will be in writing in the English language and will be served or delivered to the office address of individual party as placed in this MOU.

### **ARTICLE 9** **LEGAL EFFECT**

1. This Memorandum of Understanding serves only as a record of the Parties' intentions and does not constitute or create any legal binding or enforceable obligations.
2. This MOU shall not constitute the appointment of either party as the legal representative or agent of the other party. No party to this MOU shall have any right or authority to create or incur any liability or any obligation of any kind, express or implied, against or in the name of or on behalf of the other party to this MOU and except as specifically and expressly





provided in this MOU.

**ARTICLE 10**  
**COORDINATING OFFICER**

The Parties will appoint a coordinating officer within their respective organizations, who will be responsible for follow up and coordination of the matters relating to this Memorandum of Understanding

**ARTICLE 11**  
**USE OF LOGO**

No party shall have the right to use the name or logo of another party without the prior approval of that party in writing.

**ARTICLE 12**  
**DISPUTE RESOLUTION & CONFIDENTIALITY**

Any dispute to be resolved amicably by the executants of the MoU, otherwise, the dispute to be referred to an 'Arbitrator' under the Arbitration and Conciliation Act, 1996, as amended by Arbitration and Conciliation (Amendment Act) 2015. The Arbitrator will be appointed with the consent of both the parties. The decision of the 'Arbitrator' will be final and binding on both the parties. The venue of arbitration at NSIC-TSC, Kamalanagar, Hyderabad. The Proceedings of the arbitration should be in English.

**ARTICLE 13**  
**FORCE MAJEURE**

Neither party shall be made responsible for an unexpected or uncontrollable event.

**ARTICLE 14**

Page 8 of 9



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## DURATION

The MOU shall be effective from the date of signing and it shall remain in effect for a period of one year. It may be renewed thereafter by mutual written consent.


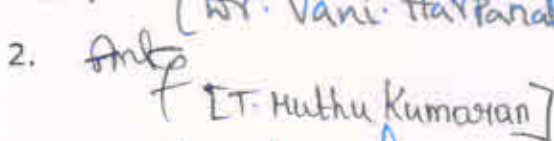
The parties herein have agreed and signed this document on this 20<sup>th</sup> December, 2018 as per our clauses.

For and on behalf of  
NSIC- Technical Services Center,  
Hyderabad.

प्रभु राज ए.वी / A.B. PRABHU RAJ  
सहा प्रबंधक / General Manager  
राष्ट्रीय लघु उद्योग निगम लिमिटेड  
The National Small Industries Corporation Limited  
भारत सरकार का उद्योग  
(A Govt. of India Enterprise) under Ministry of MSME  
सकनीकी सेवा केंद्र / Technical Services Centre  
हैदराबाद / Hyderabad - 500062



Witness:-

1.  (Dr. Vani Hariprabha)
2.  [I.T. Huthu Kumaran]

Place: Hyderabad



Date: 20/12/2018.

For and on behalf of  
Bhavan's Vivekananda  
College of Science,  
Humanities and Commerce,  
Sainikpuri, Secunderabad.

PRINCIPAL  
DHAVAN'S VIVEKANANDA COLLEGE  
SCIENCE, HUMANITIES & COMMERCE



Witness:-

1.  (Dr. K. Sreelekshmi Reddy)
2. 

  
(M. Thirumal Rao)





Bharatiya Vidya  
**Bhavan**

(Founded in 1938 by Kulapati Dr. K.M. Munshi)

# **BHAVAN'S VIVEKANANDA COLLEGE** **of Science, Humanities & Commerce**

Estd : 1993. AFFILIATED TO OSMANIA UNIVERSITY  
AUTONOMOUS COLLEGE

SAINIKPURI, SECUNDERABAD - 500 094. Ph : 27111611, 27115878

Date :

BVC/MOU/2018

20/12/2018

To,  
The General Manager,  
National Small Industries Corporation,  
Technical Services Centre (Govt. of India Enterprise),  
Khusaiguda, Electronic Complex  
Kamalanagar,  
Hyderabad - 500 062.

Dear Sir,

Sub : Enrolling students for various training program at NSIC-Signing of  
MOU with NSIC - Technical Services Centre - Regd.

\*\*\*

With reference to the subject cited above, Bhavan's Vivekananda College of  
Science, Humanities and Commerce, Sainikpuri, Secunderabad would like to sign  
a MOU with NSIC Technical Service Centre. In this regard, we assure you that we  
will send atleast 450 students every year for training at your centre failing which  
the MOU may be considered null and void.

Thanking you,

Yours Sincerely,

Prof. Y ASHOK  
PRINCIPAL

BHAVAN'S VIVEKANANDA COLLEGE  
OF SCIENCE, HUMANITIES & COMMERCE  
Sainikpuri, R.R. District-500 094





**BHAVAN'S VIVEKANANDA COLLEGE**  
OF SCIENCE, HUMANITIES & COMMERCE, SAINIKPURI, SECUNDERABAD-50094  
Accredited with 'A' Grade by NAAC Autonomous College  
DEPARTMENT OF COMMERCE  
**B.COM (COMPUTERS- CBCS) COURSE w.e.f. 2017-18**

**B.COM COMPUTERS STRUCTURE THIRD YEAR**

Semester -V								
Code	Title of the Paper	Course Type	PPW	Credits	Max. Marks	TH	PR	CIA
BCC551	Cost Accounting	DSC-1E	5	5	70			30
BCC552	Business Law	DSC-2E	4	4	70			30
BCC553	Income Tax-I	DSC-3E	5	5	70			30
BCC554	Auditing	DSC-4E	4	4	70			30
BCC555	<b>ELECTIVE</b> Financial Management / Principles of Marketing	DSE-1A	5	5	70			30
BCC556	Visual Basic	DSE-2A	3T+2P	4	70	20		10
BCC557	<b>ACCOUNTING SYSTEM - TALLY</b>	SEC-3	2	2	50			
BCC558		GE-1	2	2	50			
	<b>Total</b>		32	31	520	20		<b>160</b>
Semester- VI								
BCC651	Managerial Accounting and Control*	DSC-1F	5	5	70			30
BCC652	Company Law	DSC-2F	4	4	70			30
BCC653	Income Tax-II	DSC-3F	5	5	70			30
BCC654	Electronic Commerce	DSC-4F	3T+2P	4	70			30
BCC655	<b>ELECTIVE</b> Investment Management / Human resource Management	DSE-1B	5	5	70	20		10
BCC656	Web Programming	DSE-2B	3T+2P	4	70	20		10
BCC657	<b>MS - EXCEL</b>	SEC-4	2	2	50			
BCC658		GE-2	2	2	50			
	<b>Total</b>		33	31	520	40		<b>140</b>
			179	173	2920	120		960

*V. Usha Kiran*  
Prof V. Usha Kiran,  
Department of Commerce, Osmania University  
OU Nominee

*K. Sreelatha Reddy*  
Dr. K. Sreelatha Reddy,  
Chairman, BOS,  
Bhavans Vivekananda College





**BHAVAN'S VIVEKANANDA COLLEGE**  
OF SCIENCE, HUMANITIES & COMMERCE, SAINIKPURI, SECUNDERABAD-50094  
Accredited with 'A' Grade by NAAC  
Autonomous College

DEPARTMENT OF COMMERCE  
**B.COM (COMPUTERS- CBCS) COURSE w.e.f. 2016-17**

**ACCOUNTING SYSTEMS-TALLY**

**PAPER: BCC557**

**YEAR/SEMESTER: III/V**

**PPW: 2**

**NO. OF CREDITS: 2**

*Course Objective: The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions by using Tally accounting software.*

**UNIT- WISE COURSE OBJECTIVES**

**COb1:** To learn the basics of computerized accounting and to know the recording of transactions with the help of Tally.

**COb2:** To know the maintenance of accounts with inventory.

**UNIT-I: : INTRODUCTION TO TALLY (ACCOUNTS ONLY)**

Computerized accounting Vs manual accounting- Introduction to Tally 9- Steps in Creation of company – Creation of company with Accounts only – Creation of ledgers –Entering of vouchers & types - F11: Features , F12:Configurations - Preparation of subsidiary books , Trial balance, Financial statements with adjustments – Rectification of errors – Preparation of Bank reconciliation statement.

**UNIT-II: ACCOUNTS WITH INVENTORY AND REPORTS:**

Creation of company with “Accounts with inventory” – Creation of stock groups, units of measure, stock items - Inventory vouchers, stock valuation methods. Preparation of Company’s Balance sheet as per Schedule III of Companies Act 2013 - Preparation of common size statement - cash flow statement, funds flow statement and ratio analysis. Split company data – Export and import of data – Backup and Restore.

**SUGGESTED READINGS:**

1. Computerised Accounting: Garima Agarwal, Himalaya
2. Computerised Accounting: A Murali Krishna, Vaagdevi publications
3. Computerised Accounting: Dr.G.Yogeshweran, PBP.
4. Aakash Business Tools: Spoken Tutorial Project IIT BomBay
5. Mastering Tally: Dinesh Maldasani, Firewal Media
6. Implementing Tally ERP 9: A.K. Nadhani and K.K. Nadhani, BPB publications
7. Computerised Accounting and Business Systems: Kalyani Publications

**REFERENCES:**

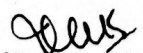
1. Manuals of Respective Accounting Packages
2. Tally ERP 9: J.S. Arora, Kalyani Publications.

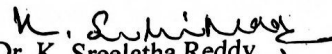
**COURSE OUTCOMES:**

At the end of the course, the students will be able to

**BCC557 CO1:** Adapt the latest versions of the accounting package.

**BCC557 CO2 :** Preparing the final accounts for accounts only and accounts with inventory.

  
Prof V UshaKiran,  
OU Nominee BOS,  
Department of Commerce, Osmania University

  
Dr. K. Sreelatha Reddy,  
Chairperson, BOS,  
Bhavan's Vivekananda College



తెలంగాణ తేలంగానా TELANGANA

SI. NO. 24AA, DATE: 06.11.2020, Rs.20/-  
PURCHASED BY: ASHOK YASKI  
B/O.S/O:W/O: SANGAIAH YASKI  
R/O. HYDERABAD.  
FOR WHOM: BHAVANS VIVEKANANDA COLLEGE OF SCIENCE,  
HUMANITIES & COMMERCE, R/O SAINIKPURI,  
SECUNDERABAD.

24AA 133556  
  
EX-OFFICIO STAMP VENDOR  
SUB-REGISTRAR OFFICE  
MALKAJIRI

Date : 20.12.2019

### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) signed between Bhavan's Vivekananda College of Science Humanities and Commerce, Sainikpuri, Secunderabad-500094, represented by its Principal, Prof. Y. Ashok and Ace Agro Technologies, Kompally (V), Hyderabad-500010 represented by Mr. A. Biju and Mr. Santhosh Nair.

According to this Memorandum of Understanding (MoU), both Bhavan's Vivekananda College of Science Humanities and Commerce, Sainikpuri-500094 and Ace Agro Technologies, Kompally (V) Hyderabad-500010) agree that the Ace Agro Technologies will facilitate the students of Bhavan's Vivekananda College Sainikpuri for practical training in plant tissue culture. They also agree to share their expertise to enable aspiring students to set up plant tissue culture laboratory.

Managing Partners

For ACE AGRO TECHNOLOGIES

(Dr. Y. ASHOK)  
PRINCIPAL

Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)

Managing Partners

For ACE AGRO TECHNOLOGIES

Managing Partners





Managing Director  
TECHNICAL DEPARTMENT  
FOR AGE AGRO TECHNOLOGIES

Managing Director  
TECHNICAL DEPARTMENT

The MoU is aimed to motivate students to take up a career in plant tissue culture and develop the spirit of entrepreneurship.


This MoU also gives a scope for the faculty of Bhavan's Vivekananda College to share their academic knowledge and expertise as resource persons for training technical staff of Ace Agro Technologies.

The MoU shall be in the name of Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad-500094 and Ace Agro Technologies, Kompally (V) Hyderabad-500010.

This MoU shall come into effect from the date and time of its signing and will be valid for a period of five years and shall be renewed on mutual consent in the form of an annexure to this MoU.

The MoU may be annulled by either of the organizations by mutual consent with a notice period of one month.

Signed on 20/12/2019 at Hyderabad, India in two copies where both copies have equal value.

  
Prof Y. Ashok  
Principal  
Bhavan's Vivekananda College  
of Science, Humanities and Commerce,  
Sainikpuri, Secunderabad-500094

**(Dr. Y. ASHOK)**  
PRINCIPAL

Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)

For ACE AGRO TECHNOLOGIES

  
Managing Partners  
Mr A Biju  
Director  
Ace Agro Technologies  
Kompally (V),  
Hyderabad-500010

ACE AGRO TECHNOLOGIES  
Plot No. 12, Angels Colony  
Beside Nanda Reddy Gardens  
Kompally Village  
SECUNDERABAD-500 014.



**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE, SAINIKPURI, SECUNDERABAD.**

**Autonomous College**

**Affiliated to Osmania University, Hyderabad.**

**(Accredited with 'A' grade by NAAC)**

**Department of Genetics, Biotechnology and Botany**

**Skill Enhancement Course- Credits 2**

**Effective from 2017-'18 onwards**

**Title: Plant Tissue culture**

**PLANT TISSUE CULTURE (Skill Enhancement Course)**

**UNIT-I (15 hours)**

1. Introduction - History, Scope and Concepts of basic techniques in plant tissue culture (1)
2. Composition of Media, Media Preparation and Sterilization (2)
3. Role of plant growth regulators in differentiation (2)
4. Callus induction (2)
5. Micro-propagation - Organogenesis - formation of shoots and roots (2)
- Somatic Embryogenesis (1)
5. Meristem culture - its advantages (2)
6. Cell Suspension culture and their applications (3)

**Unit-II (15 hours)**

**Practicals**

1. Good Lab Practice (1)
2. MS media preparation (2)
2. Meristem culture (virus free culture) (3)
3. Callus induction (6)
4. Shoot induction (3)


*Handwritten signature*


Head of The Department  
Dept. of Botany, Genetics & Biotechnology  
BVC, Sainikpuri

*Handwritten signature*  
D. SURENIA RANI  
Assistant Professor  
Chairperson BOS Biotechnology  
Department of Genetics & Biotechnology  
Osmania University, Hyderabad-07.

**References:**

- 1. Industrial biotechnology by L. E. Casida**
- 2. Food Microbiology by M. R. Adams and M. O. Moss**
- 3. Industrial biotechnology by A. H. Patel, Macmillan Publishers**
- 4. Application of biotechnology by B. D. Singh, Kalyan Publishers**
- 5. Laboratory manual in Microbiology by P. Gunasekaran**

  
Head of The Department  
Dept. of Botany, Genetics & Biotechnology  
BVC, Saikrupuri

  
**Dr. H. SUREKHA RANI**  
Assistant Professor  
Chairperson BOS Biotechnology  
Department of Genetics & Biotechnology  
Osmania University, Hyderabad-07.



5.2 Either party may amend or vary this MOU at any time provided it is with the prior written consent of both parties.

5.3 Either party may terminate this MOU at any time by giving six month's notice to the other party in writing.

### 6.0 General

6.1 The parties to this MOU shall not be deemed to be in breach of this understanding or otherwise liable to any other party in any manner whatsoever for any failure or delay in performing or initiating the activities proposed in this MOU.

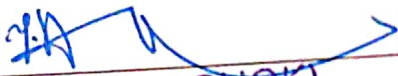
6.2 This MOU records the understanding between the parties and is not intended to be a legally binding document and shall not be enforceable in any court of law.

In witness whereof, the parties hereto have signed this MOU on the day, month and year mentioned herein before.

### Parties:

For and behalf of  
BVC, Sainikpuri, Secunderabad

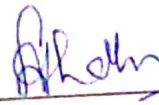
Signed



(Dr. Y. ASHOK)  
Prof. Y. Ashok, PRINCIPAL  
Principal, Vivekananda College of Science  
of Science, Humanities and Commerce,  
Sainikpuri, Secunderabad- 500 094.

For and on behalf of  
CSIR-IICT, Hyderabad.

Signed



डॉ. डी. शैलजा  
Dr. D. SHAILAJA

Dr.S.Chandrasekhar  
Director,  
CSIR-Indian Institute of Chemical  
Technology, Tarnaka, Hderabad-500007

Senior Principal Scientist & Head  
Business Development & Research Management  
सीएसआईआर-भारतीय रासायनिक प्रौद्योगिकी संस्थान  
CSIR-Indian Institute of Chemical Technology  
Chemical Science and Technology, Govt. of India  
Tarnaka, Hyderabad-500 007, Telangana State, INDIA

Seal

Seal

Witnesses (Name & address)

Witnesses (Name & address)

1.

1.

2.

2.

**SKILL ENHANCEMENT COURSE (SEC)**  
**SEMESTER VI**

**CHEMINFORMATICS(credits:02)**

(30 hrs 15 weeks)

(2h/w)

2h

**INTRODUCTION TO CHEMINFORMATICS:**

History and evolution of cheminformatics, use of cheminformatics, prospects of cheminformatics, molecular modelling, structure elucidation.

**RERESENTATION OF MOLECULES AND CHEMICAL REACTIONS:**

7h

Chemical Nomenclature – (development, representation of elements and, Molecular formulas), types of notations, SMILES coding, matrix representation, structure of Molfiles and Sdfiles, libraries and tool kits, reaction classification.

**SEARCHING CHEMICAL STRUCTURES:**

9h

Full structure search, sub-structure search, basic ideas, similarity search, 3D search methods, Basics of computation of physical and chemical data and structure descriptors.

**APPLICATIONS:**

12h

Prediction of properties of compounds: Linear free energy relations, Quantitative Structure – Property Relations, Descriptor analysis, model building, modelling toxicity.

**COMPUTER ASSISTED SYNTHESIS DESIGN.**

**DRUG DESIGN** – introduction, Drug discovery process (Target identification and validation, Lead finding and optimization), Application of cheminformatics in drug design (Analysis of HTS data, virtual screening, design of combinatorial libraries, ligand based and structure based drug design).

**REFERENCE BOOKS:**

1. Andrew R. Leach & Valerie, J. Gillet (2207) An introduction to Cheminformatics.
2. Gasteiger, J. & Engel, T. (2003) Cheminformatics: A text book. Wiley-VCH

**OUTCOMES FOR CHEMINFORMATICS:**

- Learn about drawing chemical structures on pc
- Using the tools to search the chemicals in the database to help in research.
- Identification of protein targets.
- Spectral predictions of various drugs.
- Molecular modeling
- Hands on experiment on drug development using cheminformatics.
- Hands on molispiration.

*M. Bhattacharya*  
CHAIRPERSON  
BOS In Chemistry  
Bhavan's Vivekananda College  
Sainikpuri

*Ch. Suresh Reddy*

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Bharatiya Vidya  
**Bhavan**

(Founded in 1938 by Kulapati Dr. K.M. Munshi)

# **BHAVAN'S VIVEKANANDA COLLEGE** **of Science, Humanities & Commerce**

Estd : 1993 AFFILIATED TO OSMANIA UNIVERSITY  
AUTONOMOUS COLLEGE

ACCREDITED WITH "A" GRADE BY NAAC

SAINIKPURI, SECUNDERABAD - 500 094. Ph : 27111611, 27115878

## LETTER OF UNDERSTANDING

Date : 03/02/2017

This Letter of Understanding (LoU) signed between Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad-500094, represented by its Principal, Prof.Y.Ashok, and the Institute of Genetics and Hospital for Genetic Diseases, Osmania University, Begumpet, Hyderabad-500016 represented by its Director Prof Pratibha Nallari.

According to this Letter of Understanding (LoU), both Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri-500094 and the Institute of Genetics and Hospital for Genetic Diseases, Osmania University, Begumpet, Hyderabad-500016 agree that the Institute of Genetics will facilitate practical training in Genetic Counselling to the students of Bhavan's Vivekananda College, Sainikpuri. They also agree to share experience and expertise, organization of seminars, short term and long term projects.

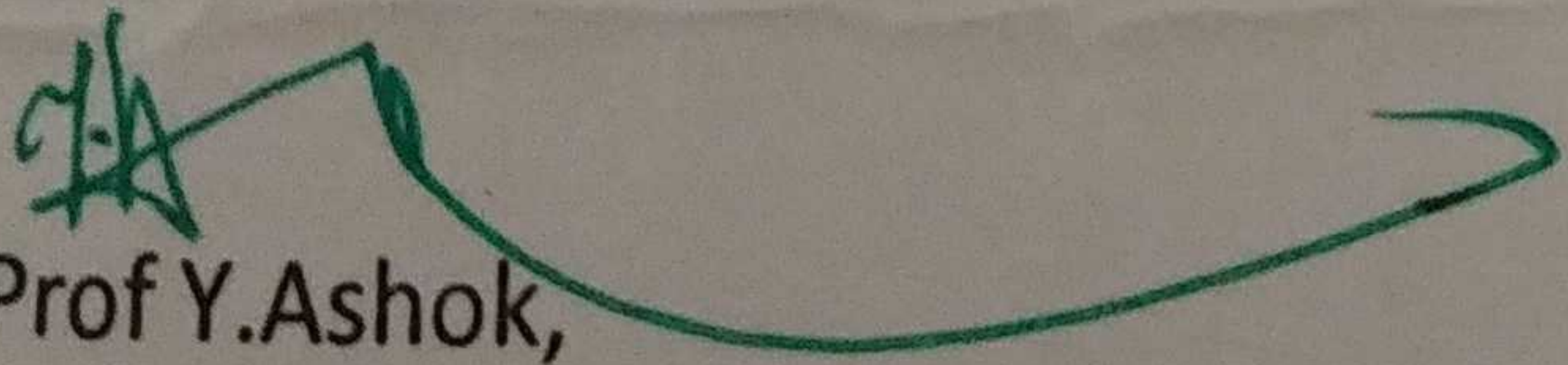
All academic activities and research pertaining to this LoU shall be in the name of Bhavan's Vivekananda College of Science Humanities and Commerce, Sainikpuri, Secunderabad-500094 and the Institute of Genetics and Hospital for Genetic Diseases, Osmania University, Begumpet, Hyderabad-500016.

This LoU also gives the scope for financial commitment of Rs. 3000/- per student for a month's training as and when the course is conducted.

This LoU shall come into effect from the date and time of its signing and will be valid for a period of five years and shall be renewed on mutual consent in the form of an annexure to this LoU.

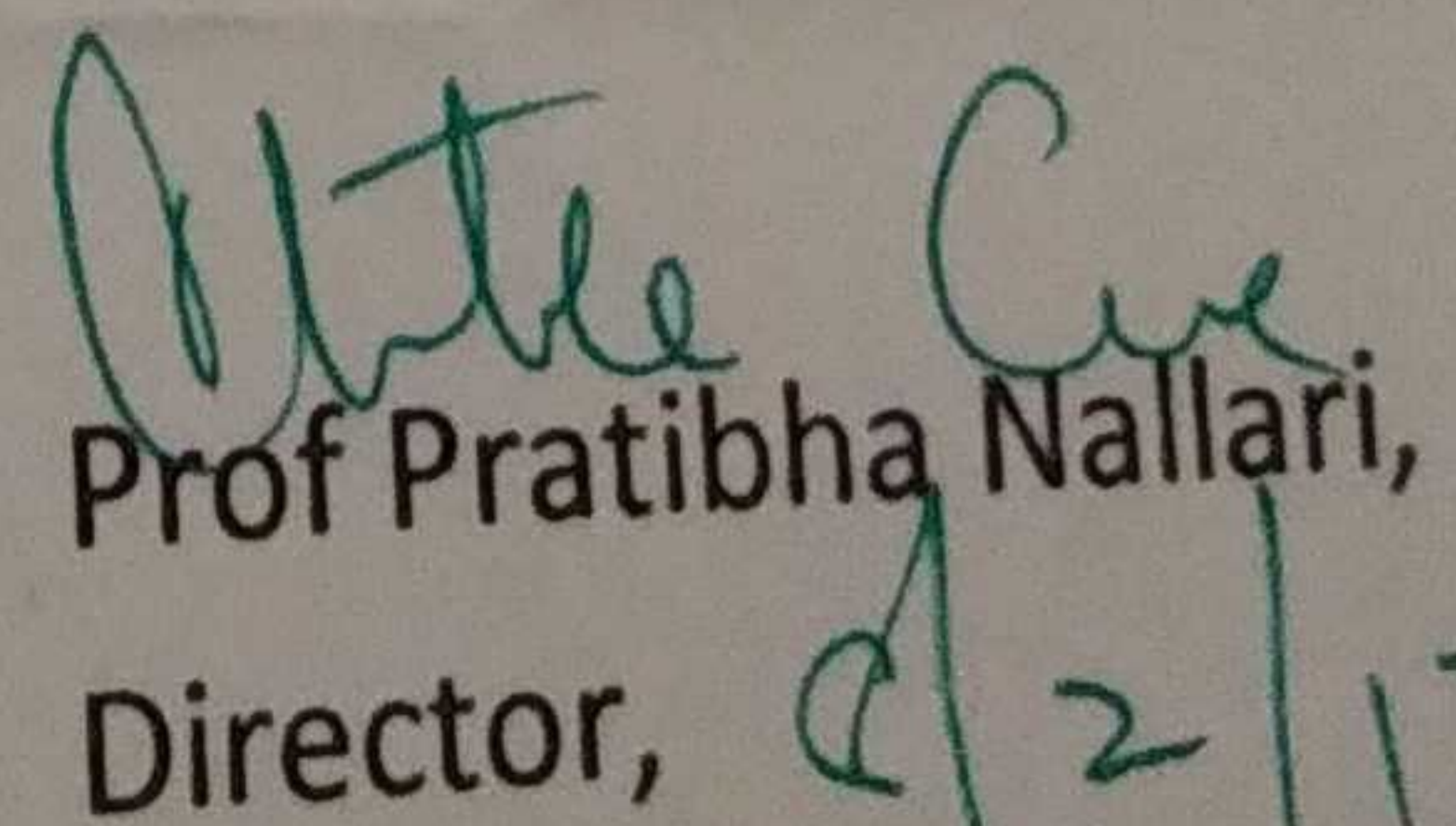
The LoU maybe annulled by either of the organizations by mutual consent with a notice period of three months.

Signed on 03/02/2017 at Hyderabad, India in two copies where both copies have equal value.

  
Prof Y.Ashok,

Principal,

Bhavan's Vivekananda College  
of Science, Humanities and Commerce,  
Sainikpuri, Secunderabad-500094

  
Prof Pratibha Nallari,  
Director, 03/2/17

Institute of Genetics and Hospital  
for Genetic Diseases, Begumpet,  
Hyderabad-500016





Bharatiya Vidya  
**Bhavan**

(Founded in 1938 by Kulapati Dr. K.M. Munshi)

# **BHAVAN'S VIVEKANANDA COLLEGE** **of Science, Humanities & Commerce**

Estd : 1993 AFFILIATED TO OSMANIA UNIVERSITY  
AUTONOMOUS COLLEGE  
ACCREDITED WITH "A" GRADE BY NAAC  
SAINIKPURI, SECUNDERABAD - 500 094. Ph : 27111611, 27115878

Date : 18-6-2018

## **MEMORANDUM OF UNDERSTANDING**

Between

**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES  
AND COMMERCE**

And

**S MUSHROOMS AGRITECH,**

**THIS MEMORANDUM OF UNDERSTANDING IS ENTERED ON THIS DAY OF 18<sup>th</sup>,  
JUNE 2018 BY AND BETWEEN**

**Bhavan's Vivekananda College of Science, Humanities and Commerce**, an academic institute offering UG & PG courses, having its contact address, Defense colony, Sainikpuri, Secunderabad, Telangana, India, here in after referred to as **Bhavan's Vivekananda College of Science, Humanities and Commerce** represented by its Principal, Prof. Y. Ashok, which expression shall include its successors

And

**S Mushrooms Agritech**, Plot No- 32, Road No-3, ALEAP Industrial Estate , Gajularamaram Near Kukatpally , Pragathi Nagar - 500090, Hyderabad, Telangana, India represented by Dr.K.Prasuna, CEO .

  
**(Dr. Y. ASHOK)**  
PRINCIPAL

**Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)**



**S MUSHROOM AGRITECH**

  
Proprietor



The college and S Mushrooms Agritech have found it mutually beneficial to explore activities for the benefit of the student. This MOU will establish academia and industrial partnership between S Mushrooms Agritech and BVC to promote excellence in the area of research, consultancy, extension, education and innovation.

The objective of MOU is to make the students more skillful and employable by providing

- Hands on training
- Workshops
- Certification courses
- Internships
- Project works
- Infrastructural facilities
- Value added courses

It is here by mutually agreed by both the parties as follows:

- Fee chargeable will be finalized with mutual consultation by both parties before commencement of any course.
- The infrastructural facilities of S Mushrooms Agritech could be extended to Bhavan's faculty and research scholars for research activity on chargeable basis.
- The faculty of Bhavan's could be a resource person for any collaborative work if required.
- Upon successful completion of the course / training, candidates would be offered a certificate by S Mushrooms Agritech.

The validity of MOU is till 2021, and can be withdrawn by the either of the parties with a notice of one month.

This MOU comes into existence on the 18<sup>th</sup> day and June month of 2018.

For

Bhavan's Vivekananda College  
(Dr. Y. ASHOK)  
PRINCIPAL  
Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)

Signature

Witness

*Adna*  
Dr. K. Anuradha  
Head, Dept of Microbiology



S Mushrooms Agritech

*K. Prasanna*  
For S' MUSHROOM AGRITECH

Signature

Witness *S. Suresh Babu*

Proprietor



## **Value added course on Mushroom cultivation**

### **Course Objective:**

1. Introduction to mushroom cultivation
2. Study on nutritional value of mushrooms
3. Insight into various steps of mushroom cultivation
4. Overview on methods of mushrooms preservation

### **Unit-1**

1. Introduction to mushroom cultivation
2. Importance and history of mushroom cultivation in India
3. Global status of mushroom production
4. Food value of mushroom

### **Unit-2**

1. Steps in mushroom cultivation
2. Selection of site and types of mushroom
3. Mushroom farm structure, design layout
4. Principle and techniques of compost and composting
5. Principle of spawn production
6. Casing and crop production
7. Harvesting and marketing
8. Pest and pathogens of mushrooms
9. Post-harvest handling and preservation of mushrooms

### **REFERENCE:**

1. Mushroom cultivation in India by B.C. Suman and V.P. Sharma. Published by Daya Publishing House, New Delhi.
2. Mushrooms Cultivation, Marketing and Consumption by Manjit Singh Bhuvnesh Vijay Shwet Kamal G.C. Wakchaure Directorate of Mushroom Research (Indian Council of Agricultural Research) Chambaghat, Solan –173213 (HP)

### **Course Outcome:**

1. Knowledge on scope and importance of mushroom cultivation in India and worldwide.
2. Comprehend on principles of mushroom spawn production.
3. Awareness on mushroom cultivation procedure.
4. Detailed Knowledge on pest management methods in mushroom cultivation.



**Vimta Labs Limited**

Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, India  
T : +91 40 2726 4141  
F : +91 40 2726 3657



To

**Date: 2018-02-20**

The Principal,

Bhavan's Vivekananda College of Science, Humanities and Commerce.  
Sainikpuri,  
Secunderabad.

**Sub - Reference to Letter Dated 04-02-2018 for Association**

Dear Sir

This is with reference to your letter dated 4<sup>th</sup> Feb 2018 regarding association with Vimta Labs Limited for collaboration towards Scientific Training and Clinical Pathological testing of your students and employees.

Keeping in consideration our long association with Bhavan's College we are pleased to work with you in tandem towards further expanding the scientific knowledge and imparting quality technical training to the students of your college.

We agree to the below mentioned points:

1. We agree for the laboratory testing of routine as well as specialized comprehensive list of pathological tests at subsidized rates for the staff and students of Bhavan's Vivekananda College as per the agreed upon rates.
2. We agree to let the students to visit Vimta Labs as part of educational visit for Biochemistry and other Life Sciences students, once in a year for the purpose of understanding high end automation facilities at Vimta Labs.
3. We agree to impart short term training courses if offered by Vimta Labs to the Biochemistry and other Life Sciences students at concessional rates in specialized areas like Cytogenetics, Histopathology, Immunodiagnostics, Microbiological tests etc.

Thanking You,

With Regards,

**Dr Mukesh Agrawal**

Vice President - CR & CRL  
Vimta Labs Ltd.

**B.Sc. CBCS Biochemistry syllabus (wef.2016-17)**

**SEC-1 Medical Diagnostics**

**30 hrs( 2 hrs/week)**

**Objectives:**

- To learn the composition of different cells in blood.
- To analyze the normal and abnormal constituents of urine qualitatively.
- To determine the blood glucose by different methods.
- To know the clinical significance of ESR and PCV.

**Unit I: Diagnostics Methods Used for Analysis of Blood and Urine**

**(15 hrs)**

1. Blood composition and Preparation of blood smear.
2. Differential Leucocyte Count (DLC) using Leishman's stain.
3. Platelet count using haemocytometer.
4. Erythrocyte Sedimentary Rate (ESR).
5. Packed Cell Volume (PCV).
6. Testing of blood glucose using Glucometer/Kit.
7. HbA1c estimation.
8. Physical characteristics of urine.
9. Normal constituents of urine.
10. Abnormal constituents of urine.

**Unit II: Practicals**

**(15 hrs)**

**Outcomes:**

Students will be able to clinically assess various blood/urine parameters for diagnosis of diseased conditions and apply the acquired knowledge in clinical laboratories.

**Recommended Books:**

1. Textbook of Medical Laboratory Technology: Godkar P.B. and Godkar D.P. 2<sup>nd</sup> Edition, Bhalani Publishing House
2. Textbook of Medical Physiology: Guyton A.C. and Hall J.E., Saunders Publications
3. Lab Manual on Blood Analysis and Medical Diagnostics: Prakash, G. (2012) S.Chand and Co Ltd.
4. Manual of laboratory techniques: N Raghuramulu, K Madhavan Nair, S Kalyanasundaram., National Institute of Nutrition, Hyderabad.

*A. Sai Jyoti*  
**Head, Dept. of Bio-Chemistry**  
**Bhavan's Vivekananda College**  
**Sainikpuri, Hyderabad, 500 094**

*Chinnour*  
**CHAIRMAN**  
**Board of Studies in Biochemistry**  
**Osmania University,**  
**HYDERABAD-500 007,**



**Paper-VI: BI 306 (SEC): Clinical Laboratory Diagnostics (1 Credit; 25 Marks)**

**Objectives:**

- To learn the methods of specimen collection and storage.
- To increase the awareness of proper handling and storage of specimens.
- To train in measurement of ECG, blood pressure and gain knowledge in histopathology.
- To know the importance of quality assurance in clinical labs and reporting.

**Unit – I: Clinical Diagnostics**

1. Specimen collection and processing.
2. Handling of Specimens for Testing.
3. Haematology parameters.
4. Autoanalyzer- Evaluation of different biochemical parameters in an autoanalyzer.
5. Collection and preservation of urine samples. Urine analysis.
6. Measurement of Blood pressure.
7. Histopathology. Tissue sectioning and staining.
8. ECG
9. Quality control and assurance in labs.
10. Dispatch of reports with clinical correlations.

**Unit-II: Practical Aspects in Clinical laboratory**

**Outcomes:**

Students will be able to collect samples and specimens in a typical clinical laboratory. They get preliminary training in measuring BP, conducting ECG and preparing the final reports.

**References:**

1. Tietz text book of Clinical Chemistry. Carl A Burtis, Ed.R.Ashwood- 2<sup>nd</sup> edition, W.B Saunders Company,
2. Practical Clinical Biochemistry, Harold Varley, 4th ed. CBS Publishers (1988).
3. Practical Clinical Biochemistry: Methods and Interpretation, ed. Ranjna Chawla, Jaypee Brothers Medical Publishers (1996).
4. Practical and Clinical Biochemistry for Medical Students, ed. T.N. Pattabhiraman, Gajanna Publishers (1994).
5. Hawk's Physiological Chemistry, ed. Oser, 14<sup>th</sup> Edn.(1976), Tata McGrawHill

*A. Sai Dady*  
Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

*Ch. Deevi*  
CHAIRMAN  
Board of Studies in Biochemistry  
Osmania University,  
HYDERABAD-500 007.



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## **Memorandum of Understanding**

**Between**

**Bhavans Vivekananda College  
Sainikpuri, Secunderabad**

**and**

**M/s nmore,  
Malkajgiri, Hyderabad**

---

**47-B, Road # 1, Dhanalaxmi Colony, Mahendra Hills, Secunderabad – 500026**

[www.nmore.co.in](http://www.nmore.co.in)

**+91 40 27730039**

[info@nmore.co.in](mailto:info@nmore.co.in)





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## Memorandum of Understanding

This MoU is to formalize terms of association between *M/s Nmore*, a strategic advising firm providing Corporate consultancy & Academic Training services in research & analytics in India and abroad (henceforth referred to as *Nmore*) with offices at the address given in the footer and Bhavan's Vivekananda College of Science, Humanities and Commerce, (hereinafter referred to as BVC) having its Registered Premises at Sainikpuri, Secunderabad -94

### 1. Background

*Nmore* has been associated with BVC for the past many years and partners at *Nmore* have been engaged in conducting guest lectures as well as courses as and when mutually convenient. Partners at *Nmore* are also involved in the academic council. Since the association is mutually beneficial and since both parties foresee scope for greater interaction, it is proposed to formalize this arrangement by entering into a MoU.

### 2. Objectives

Researchers and educators at *Nmore* and BVC respectively wish to cooperate and collaborate with the objective of sharing knowledge and experience. This may be achieved through various means including and not limited to

- i) Conducting workshops, certification courses and guest lectures for students in *Nmore's* areas of expertise
- ii) Providing end to end guidance to students for carrying out project work
- iii) Facilitating internship opportunities for students
- iv) Collaborating with faculty for research and writing papers
- v) Any other activities with mutual discussion. An illustrative list of possible activities is attached as Annexure 1.

### 3. Remuneration

Wherever any remuneration is to be paid for any activities undertaken, the same will be decided and finalized through mutual consultation by both parties based on the nature and scope of activity planned to be undertaken. The remuneration will be decided before commencement of the activity and will be paid on successful completion of the activity.

### 4. Certification

In case of certification courses, the certificate shall be provided by *Nmore* to students in the 90-percentile bracket or as decided by *Nmore* through an evaluation process. The evaluation process will be decided by *Nmore*. No certificate of participation is issued.

### 5. Expectations from BVC

As per requirement of the activity to be undertaken and as per policy of BVC, authorize students to utilize available resources such as

- i. Premises
- ii. Computers & Printers
- iii. LCD Projector, Internet, Wi-Fi etc., with access to online communication & social networking sites
- iv. Library resources, including Databases







- v. And other such facilities as may be required from time to time and based on the requirement of the activity to be undertaken.

#### 6. Schedule of activities

As far as possible the activities to be undertaken may be identified at the beginning of the academic year or semester/trimester.

#### 7. Outcomes expected

- i) Bridge the academia-industry expectation gap
- ii) Build BVC's reputation in the industry by guiding students to work on real applications and generating quality reports either through internships or through live projects.
- iii) Produce high quality papers backed by empirical data in collaboration with faculty.
- iv) Improve placement prospects of students by providing certificates to deserving students which in turn should attract better talent to BVC in future.

#### 8. Duration of the MoU

This Agreement shall be valid for a period of one year from the 1<sup>st</sup> June 2017 to 31<sup>st</sup> May 2018.

Upon expiry the Agreement shall stand terminated without any notice by either party. However, the parties shall be entitled to renew this Agreement before its expiry through a written instrument signed by both parties, on mutually agreeable terms


#### 9. Termination of MoU

We work in a highly ethical, integrity oriented and value based environment. Any breach of this trust may result in review of this MoU. BVC also reserves the right to terminate this MoU if they find the services of Nmore wanting.

In consent of these terms, the parties affix their signatures here below:


Signature with seal  
Uday Bhate – Founder & Partner  
M/s Nmore  
Secunderabad  
Date:

  
Signature with Seal  
Prof Y Ashok Principal BVC  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad  
Date:

(Dr. Y. Ashok)  
PRINCIPAL  
Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)



**Value added workshop on Business Analytics (20 sessions, 30 hours)**

***Day wise schedule:***

Date	Session No.	Topics covered	Hours
21-07-2017	1	Introduction & Overview	4.5
22-07-2017	2 & 3	Data Scraping & Data Cleaning	
28-07-2017	4	First Level Techniques – Frequencies & Xtabs	3
29-07-2017	5	Data based stories	
04-08-2017	6 & 7	Hierarchical Clustering	16.5
05-08-2017			
11-08-2017	8 & 9	Multidimensional scaling - Overall similarity	
12-08-2017			
18-08-2017	10	Multidimensional scaling - Attribute based	
19-08-2017	11 & 12	Factor Analysis	
26-08-2017			
01-09-2017	13 & 14	Discriminant Analysis	
02-09-2017			
08-09-2017	15 & 16	Cluster Analysis - K means	
09-09-2017			
15-09-2017	17, 18 & 19	Data visualization - Tableau	4.5
16-09-2017			
22-09-2017			
23-09-2017	20	Certification Exam	3.0







## Annexure 1

Activity	Description	Period
1	Data Analytics workshops (SPSS & R)	
2	Live projects	
3	Guest lectures as part of MR/Finance courses	
4	Spatial data analytics workshop (R & Google)	
5	Papers in collaboration with faculty	
6	Assistance to faculty pursuing PhD in questionnaire formulation & data analysis for thesis	
7	Base survey for longitudinal project to be updated periodically	
8	Workshop for industry	
9	Workshop for faculty	
10	Data Visualization workshop - Tableau	
11	Any other activities such as online games, simulations etc meant to enhance analytical skills	

