

CIRCULAR: -

No.UG/337 of 2009.
Mumbai 400 032,
1st September, 2009.

The Director,
Garware Institute of Career
Education and Development,
Vidyanagari Campus,
Kalina, Santacruz(East),
MUMBAI 400 098.

Sir,

I am to inform you that the recommendation of the course Committee of Garware Institute of Career Education and Development has been accepted by the Academic Council at its meeting held on 13th February, 2009 vide item No.7.7 and subsequently approved by the Management Council at its meeting held on 22nd May, 2009 vide item No.27 and that, in accordance therewith, One Year Post-graduate Diploma in Jewellery Management (PGDJM) has been introduced by the University from the academic year 2009-2010.

Further that in exercise of the powers conferred upon the Management Council under Section 54(1) and 55(1) of the Maharashtra Universities Act, 1994, it has made **Ordinances 5826 and 5827 and Regulations 7004, 7005, 7006 and 7007** including syllabus relating to the One Year Post-graduate Diploma in Jewellery Management (PGDJM) is passed as per Appendix and that the same has been brought into force with effect from the academic year 2009-2010.

Yours faithfully,

(D. H. KATE)

DEPUTY REGISTRAR
(U.G./P.G.Section)A.C/7.7/13.02.2009M.C./27/22.05.2009

Copy to :-

The Director, Board of College and University Development, the Deputy Registrar (Eligibility and Migration Section), the Director of Students Welfare, the Executive Secretary to the Vice-Chancellor, the Personal Assistant to the Pro-Vice-Chancellor, the Registrar and the Assistant Registrar, Administrative sub-center, Ratnagiri for information.

The Officer on Special Duty and Controller of Examinations (10 copies), the Finance and Accounts Officer (2 copies), the Deputy Registrar, Enrolment, Eligibility and Migration Section (5 copies), Publications Section (5 copies), the Deputy Registrar (Accounts Section), Vidyanagari (2 copies), the Deputy Registrar, Statistical Unit (2 copies), the Deputy Registrar (Special Cell), the Deputy Registrar, Affiliation Section (2 copies), the Director, Institute of Distance Education, (10 copies) the Deputy Registrar Computer Center (IDE Building), Vidyanagari, (2 copies) and the Assistant Registrar, Executive Registrar (PRO), the Assistant Registrar, Academic Authorities Unit (2 copies).

DRAFT

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
ORDINANCE, REGULATIONS AND SYLLABUS FOR THE

PG DIPLOMA COURSE

IN

JEWELLERY MANAGEMENT

ONE YEAR FULL-TIME COURSE

(w.e.f. academic year 2009- 2010)

06/02/2009



UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT

PG DIPLOMA COURSE IN
JEWELLERY MANAGEMENT

ONE YEAR FULL-TIME COURSE

Preamble :

The jewellery sector has been important in domestic and international market. It contributes significantly to the country's export. There is need of qualified trained management personnel to build and operate the business. The course is aimed at providing combination of the processes, characteristics and technology with management concepts and applications. The practical work is aimed at development of skills. The course is conducted in technical collaboration with Indian Institute of Jewellery, Mahalaxmi Mumbai, who have world class equipment, facilities with well placed alumni. The course has support of Gems and Jewellery Export Promotional Council and Gems and Jewellery Federation for training and placement. Garware Institute also plans to use the expertise and facilities of the Institute of Gems & Jewellery, Andheri, Mumbai.

Objective :

To equip students with technology, processes, practices, techniques of manufacturing and fabrication of jewelry sector; accompanied by management studies to get in-depth knowledge, necessary skills in this field, in readiness for jobs in the field.

Career Scope :

The employment opportunities are:

- In Jewellery Design, Development, Manufacturing and Marketing companies
- Single person owned business of jewellery is in existence for long and has excellent opportunities.

<u>05826 Title of the Course</u>	: PG Diploma Course in Jewelry Business Management
<u>R7004 Duration</u>	: One year full time.
<u>R7005 Intake capacity</u>	: Two divisions of 30 each.
<u>05827 Eligibility</u>	: Graduate in any faculty. : Admission on the basis of written test and interview.
<u>R7006 Teacher's Qualification</u>	: Expertise in the subject.
<u>R7007 Fees</u>	: Course fees Rs. 100000 for 2 Semesters; Caution money Rs. 2000, Fees like PG Registration, Eligibility, Sports, etc extra. Fee-structure enclosed

R 7008 Standard of Passing :-

- 1) The minimum percentage required for passing will be 50% in each paper.
- 2) Evaluation: 60% periodic evaluation, 40% semester end examination

Grading system :

75-100	O grade
65-74	A+ grade
60-64	A grade
55-59	B+ grade
50-54	B grade
<50	FAIL

- 3) ATKT: A student who fails in not more than two subjects in a semester can move to the next semester (i.e getting maximum 2 ATKTs); and clear these (ATKTs) subjects in a supplementary examination held before the end semester examination semester.
- 4) A student who fails in more than two subjects can appear in the supplementary examination in all subjects but cannot go to the next semester. A student who fails in the practicals component or job training may be required to repeat that component and pass in the examination conducted separately for that component.
- 5) A student with ATKT has to appear in a supplementary examination in Progressive Evaluation (PE) or semester end - Final Evaluation (FE); whichever component the candidate has failed.
- 6) Carry forward Internal Marks for students failed in more than 2 subjects: If a student has passed in Progressive Evaluation but failed in total of the subject/s; the progressive evaluation marks are carried forward.

Architecture of Course

- Theory Subjects at Garware Institute. Practicals : at Indian Institute of Jewellery & or other Institute at Mumbai
- Industry Training and Project: Industry site work: 40 working days.
- 1 credit =15 theory hours or 30 practicals / lab project hours; or 45 training hours.
- Each semester 15 weeks Sem 1: Aug-Dec; Sem 2: Jan-June
- Project: 2 months: May, June

EXAMINATION PATTERN
(TOTAL MARKS : 2100 TOTAL CREDITS : 46)

Paper	Subject	Marks Assigned	Hours Theory	Hours Practs.	Credits
	Semester 1				
1	Introduction to management	100	30		2
2	Marketing management	100	30		2
3	Information technology	100	30		2
4	International Marketing	100	30		2
5	Manufacturing Jewellery	100		60	3
6	Fabrication stage1	100		60	2
7	Fabrication stage 2	100		60	2
8	Jewellery Design stage1	100		60	2
9	Jewellery Design Stage2	100		60	2
10	Gemology stage 1	100	30		2
		1000	150	300	21
	Semester 2				
11	Consumer behaviour & service management	100	30		2
12	Financial management	100	30		2
13	Business environment	100	30		2
14	Materials and testing technologies	100		30	2
15	Fabrication stage 3	100		60	2
16	Jewellery design stage 3	100		60	2
17	Gemmology stage 2	100		60	2
18	Merchandising & Supply Chain Management	100	30		2
19	Project	100		60	2
20	Training / project (315 hrs in field)	300		300	7
		1100	120	570	25
	Total	2100	270	870	46

Total hours 1140.

Credits appear low because credit system calculation stipulates normalisation with 30 hrs practicals = 1 credit and 45 hrs project = 1 credit. If all are treated equal it comes to 1140 hrs = 76 credits.

SUBJECT-WISE SYLLABUS

PAPER NO.	SUBJECT
1	INTRODUCTION TO MANAGEMENT Basics of Management : Planning, organizing, Controlling, Leading, staffing, Line & Staff . Decision making process. Business Communication, presentations Official Correspondence Personality , Time management, Skills development, Networking Effectiveness, MBO Plans, Budgets and MIS: Performance compared with targets and Budgets Committees & Group Decision making, Leadership, Motivation Strategies References: Koontz, Harold and Weijrich, Heinz : Essentials of Management : an Indian perspective. Tata McGraw-Hill

	Weijrich Heinz and Koontz, Harold: Management: a global perspective. New Delhi, TMG, Koontz, Harold & others : Principles of Management : TMG Management : Tasks, Responsibilities and Practice: Drucker Peter F : Allied Publishers Business Communication: Dr N Vashishtha, Dr Namita Rajput
2	MARKETING MANAGEMENT Concepts of present day integrated marketing Analyzing markets, Segmentation in Business and consumer markets. Developing strategies and plans. Advertising, Sales Promotion, Publicity, Personal Selling, Direct Marketing, eshops and emarketing. Product Planning: Marketing plan, Creating Brand Equity, Competition and Strategy, Product Strategy, Cost and Price. Pricing Strategies Distribution Channels: Role of partners. Franchising Marketing Budgets: investments, recurring, MIS. Marketing research (Qualitative coverage) Primary and Secondary research, Surveys. Advertising research References Marketing: Philip Kotler Advertising and Promotion: George Belch Advertising Management : Rajeev Batra, John Myers, David Aaker
3	INFORMATION TECHNOLOGY WORD, EXCEL, MS: Project management. IT Systems in Industry: Networking, Telecom networks, Operating systems / Database management selection criterion, vendors and deployment Smart Card Technology. Time Attendance Systems. Review of Retailing Software. ERPs CRM E commerce as a platform and implementation Methodology References: Mastering Microsoft Office XP: Gini Courter & Annette Marquis Elements of Computing Systems : Noam Nisan and Shimon Schocken (Prentice Hall) Fundamentals of Information Technology: Deepak Bharihok. (Excel Books.) Introduction to Computers : Peter Norton (TMG)
4	INTERNATIONAL MARKETING Culture and Characteristics Influence of culture on demand, thinking, communication process. Cultural similarities, universals, languages and marketing. Language of space, agreement, friendship, negotiations, superstition, colour, gifts. Subculture. Consumer behaviour in international context. Foreign market entry strategies Product Strategy, modifications Products in different nations, variations in design, material, type, events, festivals, occasions etc. Understanding through visuals products of different nations and cultures. Gold on Lease Commodity Training Derivatives. Promotional strategies. Diamond Supply Chain ,Export Market & identifying opportunities

References:

International Marketing: Sak Onkvisit & John J Shaw
 International Marketing: Andrew Mc Auley (John Wiley)
 International Business: Daniels and Radebough
 Consumer Behaviour: Schiffman and Kanuk: Prentice Hall
 Consumer Behaviour Text Cases: Satish Batra & SHH Kazmi
 Consumer Behaviour in Marketing Strategy: Howard Prentice Hall Intl.

MANUFACTURING JEWELLERY

A) MANUFACTURING

a) Processes:

1. Wax patterns; working
2. Plastic patterns
3. Rubber injection moulds, mould cutting
4. Models for manufacturing
5. Wax injection
6. Casting: Investment & Stone in place casting
7. Soldering
8. Fabrication
9. Polishing
10. Electroplating
11. Stone Setting

b) Manufacturing Machines

1. Chain making using mass production techniques
2. Desk top mill
3. Cutting machine
4. Turning machine
5. Diamond Buffing
6. Faceting
7. Polishing
8. Grooving
9. Moulding
10. Casting
11. Plating
12. Engraving
13. Rolling

c) Computer Aided Manufacturing

Study of functions of machines,

Factory visit to expose students to machines in production.

B) Security, Insurance, Personal safety in work

C) Environment Pollution Control

Recovery of metals, Waste disposal, techniques in reducing pollution

D) QUALITY ASSURANCE

Common Defects and Rectification

Quality Control, Management of Process Quality, Productivity,

Building Quality in process

Total Quality Management, Training as a tool Continuous Process Improvement, and Supplier Partnership.

ISO 9000, JIT

References:

Total Quality Management: JE Ross

Total Quality Management: DH Besterfield, CB Michna: Prentice Hall.

FABRICATION STAGE 1

Practicals

Typically:

1. Copper pierced pendant (2 Nos.)
2. Convex, contour rings
3. Finishing & polishing of casted pieces (4 Nos.)

Fabrication

	1. Introduction to tools & consumables 2. Preparing alloy 3. Melting metals 4. Pouring in ingots 5. Hammering 6. Wire and plate rolling into desired thickness 7. Drawing wire into desired size 8. Metal cutting , piercing 9. Preparing jump rings on mandrel 10. Riveting 11. Soldering 12. Metal shaping on mandrel 13. Drilling 14. Engraving 15. Filing and finishing 16. Emery finishing 17. Tripoli & rouge Polishing, 18. Ultrasonic and steam cleaning 19. Hooks for neck pieces 20. Resizing for finger rings 21. Buff polishing 22. Manual burnish polishing 23. Magnetic polishing 24. Manual thread polishing 25. Ultrasonic cleaning Pressure Steam cleaning
7	FABRICATION STAGE 2 Jewellery practical Typical Projects To reinforce the techniques & skills introduced in stage & add new ones 1. Linked silver bracelet with clutch Jumpring : Making, linking, tube making, rivetting, clutch making 2. Earring with briolette Fleur De Lis earring
8	JEWELLERY DESIGN STAGE1 Manual drawing covering: • Usage and application of design principles • Understanding mechanism and creating jewellery • Rendering skills • Rendering jewellery • Drawing and shading various types of stones • Setting/description & usage • Styles of jewellery • Creating designs based on the top view • Estimation • Creating free hand motifs Software: Digital Goldsmith, Rhino, Matrix. Use of Jewellery Design software with following applications -Weight Tools (stones & metal) -Ring Tools (sizes) -Advance Scale Ring Sizes -Gems Tools -Multiple Offset Both sides -Quadruple Symmetry -Ring Creator -Eternity Ring Creator

	-Bezel Creator -Findings -Library -Gem Size Reporter -Chain Creator -Dummy for Necklace -Animator
9	JEWELLERY DESIGN STAGE2 Jewellery Rendering Software – eg. VRay with application To build Models ready for casting using machine eg. REVO NURB modelling systems (Non Uniform Rational BSpline) Start with a sketch, drawing, physical model, or only an idea—use of tools to accurately model designs ready for rendering, animation, drafting, engineering, analysis, and manufacturing. To create, edit, analyse, and translate NURBS curves, surfaces, and solids on computer. Study of polygon meshes and point clouds. Other special features include: Compatibility with design, drafting, CAM, engineering, analysis, rendering, animation, and illustration software.
10	GEMMOLOGY STAGE 1 1)Diamonds Diamond Grading System: GIA,IGI,EGL,HRD Grading Parameters 4Cs (color, clarity, cut and carat weight) Polish Symmetry Fluorescence Milky Stone Table inclusion Black inclusion Opens Detection of Synthetics and treatments Cutting : Theory & Demo Polishing: Theory, polishing, processes. Value, Demo/Visit. 2)Precious stones and gems Types, Features, Value, appeal, consumer behaviour, astrology application Gemmology theory 1. Qualities that define a gem 2. 4Cs of a gemstone [colour, clarity, cut and carat weight] 3. Different styles of fashioning a gem 4. Properties of a gem that aid in differentiation 5. Standard gem testing instruments that aid in differentiating gems. 6. Synthetic/ Man- made gemstones 7. Gem enhancements and treatments 8. Commercially important gemstones and their limitations 9. Diamond grading based on the 4C's of a diamond [colour, clarity, cut, and carat weight] & international diamond grading system. 3)Pearls and corals.

11	CONSUMER BEHAVIOUR & SERVICE MANAGEMENT A) Customer Buying Behaviour, Buying Process, Social factors influencing buying decisions Top of Mind Recall, Share of Mind. Multi-cultural behaviour and consumer preference pattern for product Customer Service Policies Strategic Plan: Customer Evaluation of Service Quality Customer Research, Customer Relationship Management Setting Service Standards, Implementation, Training, Communication Gaps, Service Gaps, Delivery Gaps Conflict Management Multi level Relationship marketing, Preferred Customers, Loyalty Programs E-Commerce as a tool. B) Jewellery Selling. Understanding Customer & his profile with examples. Sales Approach After Sales Service Branding. References: Customer Relationship Management: Duane E Sharp. Auerbach Publications. Customer Relationship Management: Mukesh Chaturvedi and Abhinav Chaturvedi Excel Books
12	FINANCIAL MANAGEMENT Introduction to Accounting Practices, Maintenance of Accounts, Documents. Capital Investments, Structure, Return On Investment Balance Sheet and Profit & Loss Account, Ratio Analysis. Costing Working Capital Requirements Project Finance, Business Plan, Sensitivity Analysis Budgeting and Planning. Inventory Management: ABC Analysis. Taxes: Import duty, VAT, service tax, sales tax, octroi Insurance Budgets References. Khan M. Y. & Jain, P. K. : Financial Management : Text, Problems & Cases. New Delhi, Tata McGraw Hill Pub. Co. Prasanna, Chandra : Financial Management Tata Mc Graw Hill Pub. Co. Ltd, New Delhi.
13	BUSINESS ENVIRONMENT Consumer Protection Act and Regulatory Bodies. Role of BIS , Gold council Mandatory declarations on product packaging. Foreign investment in India and foreign trade. FDI, FERA acts, control by Ministries and Reserve bank Taxation in India: Excise, import, export, local, state and central taxes; Taxation on third party manufacturing. Labour Law, Shop and Establishment Act. Import Export and Logistics Import Tariffs Clearing and Forwarding Import and Export Management: Regulations Procedures; Documentation

Export control and Policy,
 Import policy for exporters.
 Export Incentive Schemes: DEPB, export credits
 Export Processing Zones; Special Economic Zones

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MATERIALS AND TESTING TECHNOLOGIES

1) Metals, alloys and materials used in jewellery.

Physical and Chemical Structures at atomic and molecular levels and their implications in properties.

Optimising metals alloys for manufacturing. Testing metals, Opaque stones, Translucent stones, Faceted stones, Pearls and Beads.

2) Hallmarking.

Assaying techniques: Touchstone, Duristy, Fire Assaying.

3) Atomic, molecular, UV, Spectroscopy to determine composition and structure. Testing purity using Analytical Techniques.

4)Gemmology:

1. Dichroscope
2. Polariscope
3. Conoscope
4. Refractometer
5. 10X lens & Microscope (used for diamond & gems)
6. Spectroscope
7. Weighing balance
8. Weighing balance with S.G. kit
9. U.V. Lamp
10. Different light sources
11. 6500 K daylight lamp

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FABRICATION STAGE 3

Jewellery Manufacturing

1)Practical

Projects 4 : eg. Prongs, Bazel, Channels, etc.

Full Cycle Casting.

2) Demonstrations like

Gold Project 2

Retipping & Repronging.

3)Acid etching

4)Enamelling Technology

5)Embossing technique

6)Electroplating Technique

7)Setting Demonstration (Pave, Invisible setting)

" Acid Etching"

16	JEWELLERY DESIGN STAGE 3 Further Detailed Study & Practicals on Matrix 3D software , Rheno etc. Relevance & Coordination of jewellery with garments: Past, present & future trends. Niche concepts & market. Study of Different markets for jewellery and impact on design.
17	GEMMOLOGY STAGE 2 DIAMONDS Demo : Diamond Grading Identification and measurements on precious stones and gems Gemmology practical session 1. Fashion gem-(used in export market)- Gem varieties that can be identified at sight 2. Standard gem testing instruments that aid in differentiating gems-practical demo session 3. Ruby and its imitations 4. Emeralds and its imitations 5. Blue sapphires & its imitations 6. Yellow sapphires & its imitations 7. Hessonite Garnets (Gomed) & its imitations 8. Chrysoberyls cats eye and its imitations 9. Diamond grading based on the 4 C's of a diamond (colour, clarity, carat weight and cut) & -international Diamond grading systems. Other commercially important gemstones:- Amethyst, citrine, topaz, aquamarine, garnet, Peridot, opal, turquoise.
18	MERCHANDISING & SUPPLY CHAIN MANAGEMENT Category Management Process in Supply Chain: Customer order, Aggregation, Demand planning, replenishment, manufacturing, Delivery, Procurement cycle. Demand Supply Chains. Forecast base demand Sourcing Decisions and Management, Vendor Development, Negotiations, Strategic Relationships and Supply chains, Partnerships Optimal Level of Product Availability, Cycle Inventory Management, Analysis: ABC, Credit Analysis Managing Uncertainty: Safety Stocks. Transportation, Storage and Warehousing, Geographical logistics Management. Supply Chain Coordination Cost Price Management Buying versus own manufacturing. International Sourcing Decisions Introduction of Scientific Practices of retailing & merchandising managers. References: Supply Chain Management: Sunil Chopra, Peter Meindl: Prentice Hall Retailing Management: Michael Levy(Tata McGraw Hill) Retailing: Environment and Operations: Andrew Newman & Cullen Evans(Thomson) Retail management: Barry Berman & Joel R.Evans(Prentice Hall)
19	PROJECT Project connected with the course on fabrication, design, research or study As per the design portfolio done by the student, he/she will manufacture 1 piece of jewellery as per the design done by him. 1 project will be done through Revo (CAM) technology design and will be casted in the casting machine. This will help them to understand how the jewellery is being mass produced through CAD & CAM and casting Technology.

TRAINING / PROJECT

The student will take up a training in the industry. He will prepare a journal with non-confidential write-up which will be certified by the guide. Marks will be given on the journal and a viva-voce exam

REFERENCES

1. The art of Jewellery magazine
1. The Gems and Jewellery review magazine
2. The new Retailer magazine
3. The Retail Jeweller magazine
4. The Journal of Gemology
5. Timeless Jewels
6. Vianna Jolas
7. Abhushan Times
8. Diamond Citi
9. Diamond Digest magazine
10. Fashion from Spain
11. Management Information System : Davies Gordon D. (TMG)
12. Management Information System : Haag Stephen (TMG)
13. Management Information System : Jaiswal M. (Oxford University Press)
14. Service Marketing: Srinivasan R. (Prentice Hall)
15. Gems & Jewellery Magazine
16. GIA gemological Institute of America: Education Catalog (IJ)
17. Golden Jewel(Tech Asia): IJ
18. Hong Kong Jewellery
19. Gems and Gemology Magazine
20. INDEX Magazine
21. JCK Magazine
22. Jewelbiz India magazine
23. Jewellery News Magazine
24. Jewellery Review
25. Laboratory grown diamonds
26. Rapaport magazine
27. 7 stars magazine
28. Silverstyles magazine
29. Solitaire magazine
30. Standards and reports SSEF.com
31. Manufacturers web-sites contain information
32. The new Jewelry trends and traditions: Peter Dormer, Ralf Turner ISBN 0500277745
33. Jeweler's Bench book: Charles Lewton-Brain
34. Contemporary Jewellery school Padua: Graziella Folchini. Grassetto Arnoldsche Padova
35. A modern Method of creating enameled filigree jewellery: Leon Hornstein, Baltimore
36. Secrets of GEM Trade: Charles Lewton Brain ISBN 097282239
37. At the bench: Gegg Todd, Greg Gilman MJSA/AJM Press
38. Designing Jewelry: Maurice Galli, Franfanli and Dominique Riviere : Schiffer Publishing: ISBN 0887406319
39. Practical Wax Modelling: Advanced Techniques for wax modelers: Hirosho Tsuyuki, Yoko Ohba. Matsubara-Kashiwa Books 4877900047
40. www.ganoskin.com
41. www.gia.edu
42. www.askedu.net
43. www.ltc.edu
44. www.professional jeweler.com
45. www.3dji.com

FEES STRUCTURE

P.G. DIPLOMA IN JEWELLERY MANAGEMENT		
SEMESTER	1	2
NO. OF STUDENTS		
	Rs.	Rs.
APPLICABLE FEES IN 2009-10	50000	50000
TUITION FEES	22700	18700
LIBRARY FEES	500	500
EXAM. FEES	800	800
LAB FEES	25000	25000
JOURNAL		
INPLANT		2000
STUDY MATERIAL	500	500
COMPUTER	500	500
PLACEMENT		2000
PG REGISTRN FEES	825	
ECHARGES	20	
ELIGIBILITY/ENROLMENT	220	
GYMKHANA	125	
TOTAL FEES	51190	50000
CAUTION MONEY	2000	

DRAFT

MEMORANDUM OF UNDERSTANDING

This MoU is made at Mumbai on this day of , 2009 at Mumbai
between

University of Mumbai

Fort,

Mumbai 400032

and

Indian Institute of Jewellery,

Modern Centre, Sane Guruji Marg,

Mahalaxmi,

Mumbai 400011.

The Indian Institute of Jewellery (hereinafter referred to as 'the IIJ'), is engaged in conducting education in jewellery sector. It has equipment required for designing and fabrication of jewellery supported by library and manpower required for training students for jewellery. The students passing out from the IIJ have secured good positions in the industry. The IIJ is promoted by Modern Enterprise chaired by Mr Vijay Kumar Jatia and hereinafter called the "PARTY OF THE FIRST PART" (which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns);

The University of Mumbai is in its 152nd year of operation, under the Govt of Maharashtra University Act 1994. The University has its head office at Fort, Mumbai and an educational campus - Vidyanagari at Kalina. The University has established Garware Institute of Career in Education and Development (hereafter called 'the Garware Institute') to start educational courses to train students to meet the demand of industries and hereinafter called the "PARTY OF THE SECOND PART" (which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its administrators, successors and assigns) of the Other Part;

Now, this MOU witnessed and hereby agreed between the Parties hereto as under. The two Parties to the agreement have come together to collaborate in the field of jewellery for starting courses in jewellery sector.

The role of each party, activities, responsibility and financial aspects are given below:

1) the Garware Institute will collaborate with IJJ to conduct a Postgraduate Course In Gems and Jewellery, by Garware institute to be named suitably.

2) the Garware Institute will conduct the theory classes in management subjects at its campus in the Vidyanagari, Kalina. The IJJ will conduct the theory classes and practical work in technical subjects at its Institute at Mahalaxmi, as per university syllabus. It will be the responsibility of IJJ to maintain teaching standards, content; conduct progressive evaluation; provide assistance in organisation of training in the industry as per the university syllabus.

3) The theory classes and the practical work on technical subjects will be conducted by the qualified teaching staff and the trainers at the IJJ in line with the accepted standards. The equipment, tools, software, material and consumables will be provided by the IJJ. The Garware Institute will make payment in suitable instalments after commencement of the course towards the cost incurred by the IJJ for its activities given in Clauses 2 and 3 and as elaborately given in the enclosure. The present charges are based upon proposed fees of Rs 1 lac for the course. The cost structure given by IJJ is enclosed. The Garware Institute will pay a sum of Rs 12 lacs for 25 students, based on a fees of Rs 1lac per student. These charges will be 48% of the fees collected by Garware Institute, if the number of students is less or more than 25. The fees and amounts payable to IJJ, may be revised with mutual agreement for academic sessions beginning July 2010 and 2011 based upon change of requirements and costs.

4) The University will include in its syllabus and in suitable promotional material, information mentioning that the course is being conducted in collaboration with the IJJ. The University may at its choice can decide to make such collaborations with other institutes. In such a case, the University will be free to mention their names, in addition to that of the IJJ. The IJJ is also allowed to write in its promotional literature, that they have technical collaboration with the University of Mumbai for courses at the Garware Institute.

5) The arrangement and relationship arising out of this MoU is not exclusive on both parties. Both parties are free to make such arrangements with any other parties jointly or separately.

6) The activities and progress of the work will be reviewed periodically on a monthly basis and as and when required by the Directors of the IJJ and the Garware Institute for suitable actions.

7) The Garware Institute the IJJ, and other Institutes, recognized bodies in the jewellery industry such as Gems and Jewellery Export Promotion Council will work together to evolve Diploma Courses at the Institute, at the IJJ and other institutes within the University framework, for furtherance of Jewellery education.

8) This agreement is valid for a period up to three academic years starting from 2009-2010 onwards.

The agreement can be terminated mutually with a notice of one academic year.

9) Arbitration: The Parties hereto have agreed that in the event of there being any disputes and/or disagreements by and between the parties hereto in respect of interpretation of any of the terms and conditions herein contained as also in respect of any manner touching and/or arising out of these presents, the same shall be referred for arbitration as per the provisions of the Arbitration and Conciliation Act, 1996 to a sole Arbitrator and the rules framed there-under from time to time and the decision of the Arbitrator shall be final and binding upon the parties hereto. However, it is further agreed between the parties that the sole Arbitrator shall be free to give decision in the paramount interest of education and welfare of the students.

Agreement signed between

The Registrar,

University of Mumbai

The Director,

Indian Institute of Jewellery

in the presence of

Witness 1 _____

Witness 2 _____