

Republika ng Pilipinas
(Republic of the Philippines)
MINISTRI NG EDUKASYON, KULTURA AT ISPORTS
(MINISTRY OF EDUCATION, CULTURE AND SPORTS)
Manila

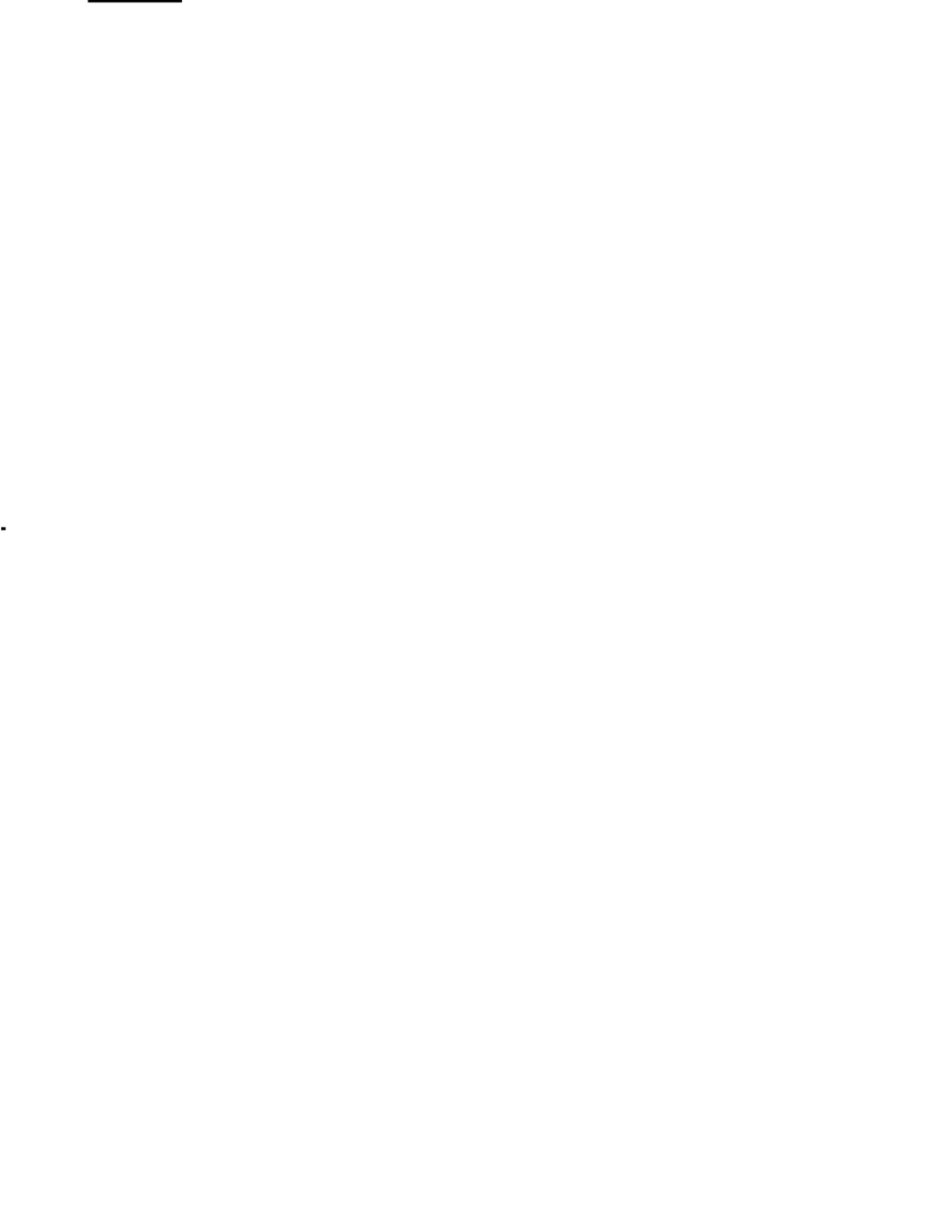
January 24, 1983

DECS MEMORANDUM
No. 15, s. 1983

1983 SUMMER INSTITUTE FOR CERAMICS TEACHERS

To: Bureau Directors
Regional Directors
Chiefs of Services and Heads of Units
School Superintendents
Presidents, State Colleges and Universities
Heads of Private Schools, Colleges and Universities
Vocational School Superintendents/Administrators

1. A Summer Institute for Ceramics Teachers and Instructors will be held at the Ilcilo School of Arts and Trades, Ilcilo City, Region VI, under the sponsorship of the Ceramics Education Association of the Philippine (CEDAP) from April 18 to May 28, 1983 (six weeks).
2. The main objective of the summer institute is to upgrade and update the skills and competencies of ceramics teachers and instructors of member institutions of the CEDAP and others engaged in ceramics education.
3. A basic course for beginners and an advance course for those who have undergone the LUSAP workshop in 1977 shall be offered. This 6-week program will be accredited 6 units in Ceramics Technology under the graduate program (MATVE) of the Ilcilo School of Arts and Trades.
4. The other objectives are:
 - a. to comprehend and appreciate the theories and principles of earthenware, stoneware and porcelainware production;
 - b. to familiarize ceramics teachers and instructors with the standard ceramic supplies and materials needed in earthenware, stoneware and porcelainware production; and to be able to identify and utilize indigenous materials as alternatives and substitutes;



- c. to familiarize ceramics teachers and instructors with the use of ceramics tools and equipment, design and fabricate simple machines; and
- d. to master various manipulative skills, e.g. designing, forming, casting, firing, glazing, decorating, etc.

5. Each participant will pay a registration fee of Five Hundred Pesos (P500.00) to cover cost of training supplies and materials and handouts (blueprints and instruction sheets). The registration fee, travelling expenses and a stipend not exceeding P450 per month shall be charged against local school funds, subject to the usual accounting and auditing regulations.

6. In this connection, attention is invited to paragraph 3 of MEC Order No. 17, s. 1982 requiring the submission by the sponsor of a post audit report of the collections and disbursements which should be strictly complied with.

7. Each participant is required to bring at least 5 kilos of earthenware and stoneware clay, working clothes and related portable tools.

8. The members of the instructional staff listed hereunder will report at the Iloilo School of Arts and Trades two (2) days before the start and a day after the summer institute to undertake preparations and evaluation of the workshop.

- a. Mr. Pepito Palomera - Team Leader - Iloilo SAT
- b. Mr. Florencio J. Roxjo - Asst. Team Leader -
Nueva Vizcaya SAT
- c. Mr. Edgar Hinggin - Member - Cebu SAT
- d. Mr. Dominador Mangudad - Member - Cagayan SU
- e. Mr. Franco Yina - Member - Pangasinan SU
- f. Mr. Faustovitio Cunanar - Member - Comarines
Sur NCAT
- g. Mr. Katsutoshi Pasaka - Consultant - Iloilo SAT
- h. Dr. Alberto Celestial - Evaluator - MST

9. Inclosed are:

- a. Syllabus for Basic Course
- b. Syllabus for Advance Course
- c. List of tools and equipment available at venue
- d. List of instructional supplies and materials
- e. List of member institutions of the CEDAP

10. Immediate and wide dissemination of this Memorandum is desired.

(SGD.) ONOFRE D. CORPUZ
Minister

Incls.:
As stated

Reference:
MFC Order: (No. 17, s. 1982)

Allotment: 1-2-3-4--(D.C. 1-76)

To be indicated in the Perpetual Index
under the following subjects:

OFFICIALS
SOCIETY or ASSOCIATIONS
TEACHERS
TRAINING PROGRAM
VOCATIONAL EDUCATION
WORKSHOP



CERAMICS EDUCATION ASSOCIATION OF THE PHIL
Bureau of Secondary Education

4. Elementary Body
(48 Hours)

S Y L L A B U S
for
Basic Course in Ceramics
For Teachers and Instructors
(6 weeks - 288 Hours)

CONCEPT	SUB - CONCEPT	MATERIALS, TOOL EQUIPMENT NEEDED
1. Raw materials prospecting (16 hours)	1.1 Survey and Sampling of Source	1. Clay Samples
	1.2 Perform Physical Test (Individual Clays)	2. Test Sample molds
	1.2.1 Perform Acid Test	3. Vernier Caliper
	1.2.2 Determine pH Value	4. Graphing
	1.2.3 Perform Plasticity Test	5. Muriatic Acid
	1.2.4 Determine Drying Shrinkage	6. Calculator
	1.2.5 Determine Firing Shrinkage	7. Electric Test Kiln
	1.2.6 Determine Total Shrinkage	8. Truckle cones
	1.2.7 Perform Absorption Test	9. Pyrometer & Thermo-
	10. Leaded Glaze Rem (16 Hours)	
2. Raw Materials Processing (16 Hours)	2.1 Perform Weathering	1. Buckets or Pails
	2.2 Perform Dry Process	2. Crusher
	2.3 Perform Wet Process	3. Blunger
3. Elementary Clay Body Composition (16 Hours)	3.1 Perform Two-Component System and/or	4. Blunging Tank
	3.2 Perform Three-Component System and/or Triaxial Diagram	5. Sieve, 60 mesh-120
		6. Sifting Tank
		7. De-watering Table
		8. Wedging Tables
		9. Storage Rins
		1. Different kinds of
		2. Mortar and Pestle
		3. Pot Mill
		4. Graphing Paper
	5. Use provisions in	
7. Elementary Surface Finishes (48 Hours)		

(Inclosure No. 1 to MECS Memorandum No. 15, s. 1981)

Forming: 4.1 Basic Hand Forming Methods
 4.1.1 Perform Slab Method
 4.1.2 Perform Coil Method
 4.1.3 Perform Pinch Method
 4.1.4 Perform Simple Modeling

1. Processed Clay
 2. Rolling Pins
 3. Cleats
 4. Modeling Tools
 5. Working Boards
 6. Powdered Separations
 7. Planned Designs

1. Ash Trays
 2. Flower Vases
 3. Bonsai Pots
 4. Jardinieres
 5. Figurines

Making: 5.1 Make Models
 5.2 Prepare Sizing Material
 5.3 Mix Plaster of Paris
 5.4 Prepare and Make One-Piece and Two-Piece Molds

1. Processed Clay
 2. Planned Design
 3. Modeling Tools
 4. Working Boards
 5. Sizing Materials
 6. Sizing Container
 7. Brush
 8. Cross-cut Saw
 9. Claw Hammer
 10. Basins and Pails
 11. Beam Balance
 12. Coason Nails, 1"

1. Correct Plaster Mixture Calculations
 2. Models
 3. Sizing
 4. Casting Boxes
 5. Plaster Molds, one-piece and two-piece

ies: 6.1 Formulation
 6.1.1 Apply knowledge of Table of Elements
 6.1.2 Solve with Molecular Formula
 6.1.3 Plot on Group Oxides
 6.1.4 Plot and Read Triaxial Diagram

1. Periodic Tables
 2. Reference Books
 3. Graphing Paper
 4. Calculator
 5. Note Books
 6. Beam Balance
 7. Mortar and Pestle
 8. Glazing Materials
 9. Brush
 10. Test Pieces
 11. Laboratory Test Kiln

1. Prepared Glaze
 2. Prepared Test Pieces
 3. Fired Samples
 4. Evaluation Sheets

ce: 7.1 Design and Perform Sgraffito
 7.2 Design and Perform Engobe
 7.3 Design and Perform Springing

1. Green Wares
 2. Sgraffito Tools
 3. Prepared Engobe
 4. Trailing tube
 5. Spring Molds
 6. Processed Clay
 7. Prepared Engobe
 8. Trailing tube
 9. Green Wares
 10. Sgraffito Tools
 11. Prepared Engobe
 12. Trailing tube

1. Designed Green Wares
 2. Engobed Green Wares



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17



8. Glaze Application (16 Hours)	<ul style="list-style-type: none"> 8.1 Perform Brushing Techniques 8.2 Perform Dipping Technique 8.3 Perform Pouring Technique 	<ul style="list-style-type: none"> 1. Prepared Glazes 2. Brush 3. Dipping container 4. Bisque wares 5. Bowl, pails, dipper 	<ul style="list-style-type: none"> 1. Dry-footed Glaze firing
9. Kiln Stacking and Firing (24 Hours)	<ul style="list-style-type: none"> 9.1 Perform Bisque firing 9.1.1 Stacking without saggers 9.1.2 Stacking with saggers 9.1.3 firing schedule 9.2 Perform Glost Firing 9.2.1 Stacking with slabs 9.2.2 Stacking with Saggers 9.2.3 firing schedule 9.3 Perform kiln maintenance 	<ul style="list-style-type: none"> 1. Green wares 2. Slabs and Posts 3. Saggers 4. Firing log sheets 5. Bisque wares applied with glaze 6. Kiln 7. Firewood or whatever fuel is needed 8. Pyrometer with Thermo-couple 9. Pyrometric cones 	<ul style="list-style-type: none"> 1. Bisquit wares 2. Glost wares 3. Firing Curves 4. Firing schedule
10. Simple Hand Tools making (40 Hours)	<ul style="list-style-type: none"> 10.1 Design and make wire-looped tools 10.2 Design and make thumb-shaped tools 10.3 Design and make Carving tools 10.4 Design and make Turning tools 10.5 Design and make Felling knife 10.6 Design and make Turning Guides 10.7 Design and make Throwing Sticks 10.8 Design and make Templates 	<ul style="list-style-type: none"> 1. pieces of soft wood 2. Knives 3. Woodworking tools 4. Sand paper 	<ul style="list-style-type: none"> 1. Hand tools as concept 10.1

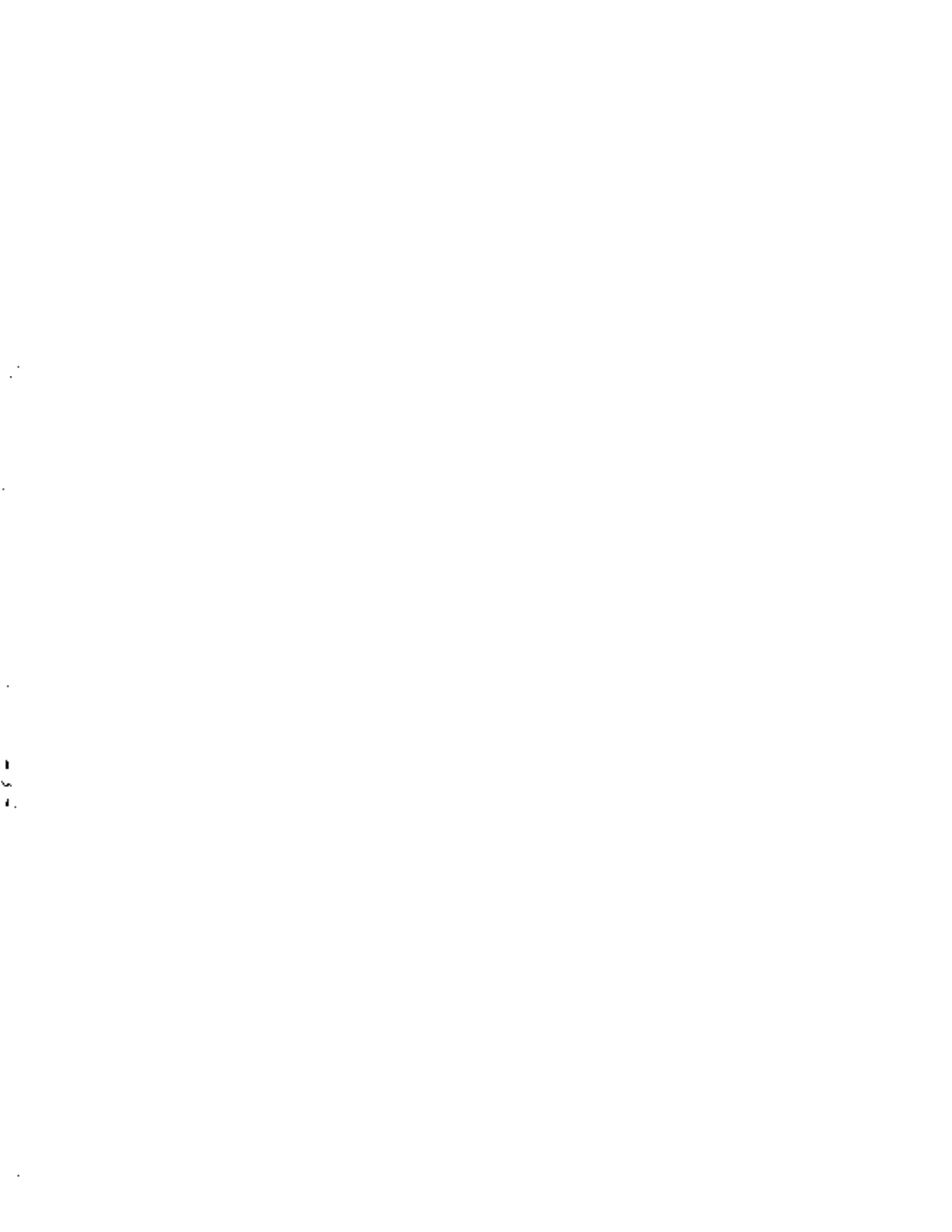
CERAMICS EDUCATION ASSOCIATION OF THE PHILIPPINES
Bureau of Secondary Education

SYLLABUS FOR ADVANCE COURSE
IN CERAMICS (384 HOURS)

C O N C E P T	S U B - C O N C E P T	M A T E R I A L S , T O O L S A N D E Q U I P M E N T	O U T P U T
1. Clay Body Composition (16 Hours)	1.1 Test and evaluate clay to blend 1.2 Plot and analyze triaxial diagram	1.a Local clay, kaolin, ball clay, Feldspar, silica, test piece mold 1.b Triaxial Board/Chart	Test pieces Test piece base Plotting of air composition
2. Physical Testing (48 Hours)	2.1 Determing and measure drying shrinkage 2.2 Determining & measure firing shrinkage 2.3 Determine total measure total shrinkage 2.4 Determine and measure absorption test	2.a Compounded Clay 2.b Pyrometers, Test kiln, and weighing Scale	Test piece Actual computer results
3. Advance Mold making (48 Hours)	3.1 Perform Three piece Mold 3.2 Apply Industrial Production 3.3 Apply Industrial Production 3.3.1 Case mold 3.3.2 waste mold 3.3.3 Production mold 3.4 Experiment Recycling of Plaster	Plaster of Paris Weighing Scale Mold Box Soap Size Plastic Basin Penrel Pen Old Plastic molds Mallet grinder sizer #80-100 sagger	Sectioning of n 3-piece Multi pieces base productior Calorind powder

Production : 42 hours)	4.1 Perform Slip or Drain Casting	Prepared clay slip Fettling knife Slip testing table Sizing materials Prepared compounded body Throwing Board Cutting wire	Slip Casting Wares Cup Saucers Plate Platter Center piece Vases Ash trays
Stains (42 hours)	5.1 Make crucibles 5.2 Prepare and make stains	Prepared clay body Cobalt Oxide Manganese Oxide Nickel Oxide Iron Oxide Copper Oxide Antimony Oxide	Crucible Stain
Glaze Dishes (42 hours)	6.1 Make lime glaze 6.2 Make Ash Glaze	Whiting Feldspar Kaolin Silica Zinc Oxide Pot mill Mortar and pestle Weighing Scale Wood ash Rice Feldspar Zinc oxide	Compounded lime glaze Ground lime Glaze Compounded Ash Glaze Ground/milled ash glaze
	6.3 Make Bristol Glaze	Zinc oxide Whiting Feldspar Kaolin Silica	Compounded bristol glaze Ground/milled bristol glaze

	6.4 Make Colors and Colorants	Cobalt Oxide Nickle Oxide Iron Oxide Manganese	Colored glaze Blue Black Green Brown
6. Formulation (29 Hours)	6.5.1 Prepare Empirical Formula	Calculators Pad paper Ball pen	Computation of Empirical Formula
	6.5.2 Prepare Recipe Formula	-do-	Computation of recipe formula
	6.5.3 Prepare Percentage Formula	-do-	Computation of percentage formula
7. Advance Surface Enrichment (48 Hours)	7.1 Perform marbling	Clay slip Cobalt Drain tray wood sticks Brushes	Slip cast glaze Under glaze applied into bowl wares
	7.2 Perform underglaze	Disque wares Glost wares Over glaze Brushes	Over glaze applied into glaze wares
	7.3 Perform overglaze	Disque wares Glost wares Over glaze Brushes	Over glaze applied into glaze wares
	7.4 Prepare Decal sheets	Decal paper Glost wares Scissors Plastic basin	Decalcomania applied to self wares Fired decorations
8. Kiln Furniture and Temperature Measuring devices (18 Hours)	8.1 prepare Saggers	Refractory clay/mortar	Saggers
	8.2 Prepare slabs	-do-	Slabs
	8.3 Prepare Post	-do-	Posts
	8.4 Prepare Stillts	-do-	Stillts
	8.5 Prepare saddles	-do-	Saddles
	8.6 Prepare Biscuit/Rest Basket	Pyrometer with thermo- couple	Pyrometer reading know-how
	8.7 Prepare PYROMETER	PCE	PCE setting know-how
	8.8 Prepare PCE	Color chart	Color chart reading know-how
	8.9 Prepare colored chart	Color chart	Color chart reading know-how
	8.10 Prepare Temperature Curve	Graphing paper and pencil	Plotted temperature curve



Operation and Management (Hours)	9.1 Identify and Determine Stage of Firing	Graphing paper	Tabulated/Graphed results
	9.1.1 Water Soaking	Graphing Board	
	9.1.2 Dohydratation	pencil	
	9.1.3 Oxidation	Foot Rule	
	9.1.4 Vitri fication		
	9.2 Plot and Evaluate Firing Curvo		
Design (Hours)	10.1 Design Downdraft Kiln	Pencil	Design different kinds of Kiln
		Eraser	
		Foot Rule	
		T-Square	
	10.2 Design Updraft Kiln	-do-	
	10.3 Design Ring or Circular Kiln	-do-	
	10.4 Design Horizontal draft Kiln	-do-	
	10.5 Design Tunnel Kiln	-do-	
	10.6 Design Shuttle Kiln	-do-	
	10.7 Design Chamber Kiln	-do-	
	10.8 Design Electric Kilo	-do-	

REFERENCES

LOCAL POTTERY by G. HOWARD JENKINS, copyright, 1941 - THE BLUE PUBLISHING COMPANY PRINTED IN THE UNITED STATES OF AMERICA.

THE CERAMICS By CATHERINE MORRIS JESTER, copyright, 1948 - BRAS. A. BENNET CO. INC. PUBLISHERS, PEORIA, ILLINOIS

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6. THE CERAMICS ARTS

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7. CERAMICS FOR THE ARTIST POTTER

By F. H. JOHNSON, copyright 1956, Addison - WESLEY PUBLISHING CO., INC., Printed in the United States of America.

8. STEP-BY-STEP CERAMICS, A Complete Introduction to the Craft of Ceramics

By JOYCE JOHNSON, copyright 1967 by WESTBROOK PUBLISHING CO., INC., UNITED STATES OF AMERICA.

9. HOW TO MAKE POTTERY AND CERAMICS SCULPTURE

By HERBERT H. SANDER, second edition copyright 1964, by LANE MAGAZINE & BOOK CO., WENDY PARK, California

10. CERAMIC EXHIBITIONS

By Japan International Cooperation Agency, LTD. Tokyo, Japan

11. CERAMIC GLAZES

by W. Palmiero, copyright 1955

PREPARED BY:

THE CEDMA TECHNICIANS

- 1. Dr. Alberto M. Colastal, Jr. - - - - - Chairman
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- 2. Mr. Pepito O. Palomero - - - - - Member
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- 3. Mr. Edgar C. Hinojosa - - - - - Member
Cebu SMT
- 4. Mr. Florencio J. Ranjo - - - - - Member
Iloilo Vizcaya SMT
- 5. Mr. Ferdinandito B. Cunanan - - - - - Member
Camarines Sur SMT

(Inclosure No. 3, to DECS Memorandum No. 15, s. 1983)

1983 SUMMER INSTITUTE IN CERAMICS
List of Equipment Available at the Iloilo School of Arts and Trades

1. 1 - unit - Gas Kiln
2. 2 - units - Electric Kiln
3. 1 - unit - Sprayer
4. 1 - unit - Milling Machine
5. 4 - pcs. - Pot Mill (2 kilogram capacity)
6. 10 - pcs. - Pot Mill (5 kilogram capacity)
7. 2 - units - Electric Potter's Wheel
8. 6 - units - Side Kick Potter's Wheel
9. 3 - units - Slip Casting Table
10. 2 - units - Kick and Paw Potter's Wheel
11. 4 - units - Forming Table
12. 1 - unit - Dewatering Table
13. 6 - units - Drying Rack
14. 2 - units - Pyrometer
15. 6 - units - Mortar and Pestle

(Inclosure No. 4 to AECIS Memorandum No. 15, d. 1983)

1983 SIMONER INSTITUTE IN CERAMICS
INSTRUCTIONAL SUPPLIES AND MATERIALS

<u>Qty.</u>	<u>Unit</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1	Ton	Ball Clay	P 400.00	P 400.00
1	Ton	Kaolin	400.00	400.00
1	Ton	Feldspar	400.00	400.00
1	Ton	Silica	400.00	400.00
15	Bags	Plaster of Paris	130.00	1,950.00
4	Kilos	Kanthal wire, 2-1 #14	450.00	1,800.00
3	Kilos	Kanthal wire, 2-1 #18	450.00	1,350.00
1	Sq. mtr.	Copper wire Mesh #6	300.00	300.00
1	Sq. mtr.	Copper wire Mesh #100	450.00	450.00
1	Sq. mtr.	Copper wire Mesh #200	500.00	500.00
6	pcs.	Stove Switch	25.00	150.00
4	Tank	LPG Sheikans 50 kilos	100.00	400.00
10	Kilos	Red Lead	40.00	400.00
1	Kilo	Cobalt Oxide	1,300.00	1,300.00
2	Kilo	Copper Oxide	50.00	50.00
1	Kilo	Manganese Oxide	40.00	40.00
1	Kilo	Iron Oxide	40.00	40.00
5	Kilos	Magnesium Oxide	40.00	200.00
5	Kilos	Zinc Oxide	30.00	150.00
10	Kilos	Calcium Oxide (Whiting)	25.00	250.00
1	Kilo	Chromic Oxide (Green)	35.00	35.00
1	Kilo	Antimony Oxide	40.00	40.00
1	Kilo	Zircopax	35.00	35.00
1	Kilo	Tin Oxide	120.00	120.00
1	Bag	Sodium Carbonate	200.00	200.00
10	Gal.	Sodium Silicate	80.00	800.00
5	Kilos	CMC	20.00	100.00
5	Kilos	Starch	5.00	25.00
6	Bags	Soap (Blue Wheel)	4.00	24.00
12	Pcs.	Camel Hair Brush 1/2"	25.00	300.00
5	Pcs.	-do- 1"	70.00	350.00
6	Pcs.	-do- 1/8"	10.00	60.00
		(Pencil Type)		
5	Pcs.	Camel Hair Brush 1/4" (Flat Type)	20.00	100.00
5	Pcs.	Camel Hair Brush 1/8" (Flat Type)	15.00	75.00
1	Unit	Spray Gun, 1 liter, 50 lbs. with two nozzles	300.00	300.00
10	Pcs.	Plastic Pails, 4 gallons	15.00	150.00
10	Pcs.	Plastic Pails, 6 gallons	35.00	350.00
8	Pcs.	Plastic Pails, 8 gallons	47.00	376.00
7	Pcs.	Plastic Pails, 10 gallons	100.00	700.00
6	Pcs.	Plastic Pails, 20 gallons	200.00	1,200.00
10	Pcs.	Plastic Basin, 50 cm ø	40.00	400.00
10	Pcs.	Plastic Basin, 100 cm ø	100.00	1,000.00

TOTAL P17,670.00

www.vvvv



(Inclosure No. 5 to WECOS Memorandum No. 15, s. 1963)

CERAMICS EDUCATION ASSOCIATION OF THE PHILIPPINES
c/o Bureau of Secondary Education, WECOS, Manila

LIST OF MEMBER INSTITUTIONS

1. Abellana Vocational School
Cebu City
2. Antique School of Arts and Trades
Sibalon, Antique
3. Bacolod City National Trade School
Bacolod City
4. Bular Vocational School
Bular, Sorsogon
5. Buringa Vocational School
Buringa, Aklan
6. Cagayan Valley College of Arts and Trades
(Cagayan State University)
Tuguegarao, Cagayan
7. Calabanga National School of Arts and Trades
Calabanga, Camarines Sur
8. Camarines Sur National College of Arts and Trades
Naga City
9. Capiz Institute of Technology
Roxas City
10. Casiguran Vocational School
Casiguran, Sorsogon
11. Cebu School of Arts and Trades
Cebu City
12. Davao School of Arts and Trades
(University of Southern Philippines)
Davao City
13. Davao Vocational School
Davao City
14. Division of Camarines Norte
Daet, Camarines Norte
15. Division of City Schools
Legazpi City
16. Don Honorio Ventura College of Arts and Trades
Bacolod, Palapangan
17. East Visayan School of Arts and Trades



19. Gubat High School
Gubat, Sorsogon
20. Home Industries Training Center
San Marcelino Corner Ayala Blvd., Manila
21. Ilocos Norte College of Arts and Trades
Ilocos City
22. Ilocos School of Arts and Trades
Ilocos City
23. Isabela School of Arts and Trades
(Isabela State University)
Iligan, Isabela
24. Irosao School of Arts and Trades
Marawi City
25. La Union College of Technology
Don Mariano Marcos Memorial State University
San Fernando, La Union
26. Lakkar National College
Lakban, Quezon
27. Magallanes National Vocational School
Magallanes, Sorsogon
28. Marikina Institute of Science and Technology
Marikina, Metro Manila
29. Nueva Vizcaya School of Arts and Trades
Bambang, Nueva Vizcaya
30. Pangasinan College of Arts and Trades
(Pangasinan State University)
31. Pinukpok Vocational School
Pinukpok, Kalinga-Apayao
32. Ramon Magsaysay Memorial School of Arts and Trades
Iba, Zambales
33. Saband Estate Agricultural College
Sabandon, Nueva Ecija
34. Sipocot National School of Arts and Trades
Sipocot, Cagayan Norte
35. Southern Leyte School of Arts and Trades
Sogod, Southern Leyte
36. Sorsogon College of Arts and Trades
Sorsogon, Sorsogon
37. Southern Ilocos Polytechnic State College
Agoo, La Union
38. Sorsogon del Norte School of Arts and Trades

1983 SUMMER INSTITUTE IN CERAMICS

MANAGEMENT

- Project Manager - Supt. Carlos Borjal
Comarines Sur National College of Arts
and Trades
- Asst. Project Manager - Supt. Rodolfo O. Velasco
Nueva Vizcaya School of Arts and Trades
Bambang, Nueva Vizcaya
- Project Executive Director - Supt. Alfonso Albason
Iloilo School of Arts and Trades
Iloilo City
- Project Consultant - Director Andres R. Asistin
Bureau of Secondary Education
MECS, Manila

INSTRUCTIONAL STAFF

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- Mr. Florencio C. Ranjo - Nueva Vizcaya School of Arts and
Asst. Team Leader Trades
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Member Cebu City
- Mr. Pacundivito Cumanan - Comarines Sur ACAT
Member Negos City
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Member Lingayen, Pangasinan
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- Dr. Alberto Celestial - Marikina Institute of Science
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